CRWMS/M&O

Design Analysis Cover Sheet

Complete only applicable items.

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12. REMARKS

This analysis was started under procedure QAP-3-9, REV 06. During the development of this analysis QAP-3-9 was modified to REV 07. Impact review HAB-IR-002 was performed, and it was determined that this analysis should be completed under procedure QAP-3-9, REV 06, with some procedure modifications as documented in the impact review.

Attachments 5.14 & 5.15 were not submitted with this records package as previously indicated on page 69. KDW 9/15/97
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1. Purpose

The purpose of this design analysis is to document the SAS2H depletion calculations of certain non-rodded fuel assemblies from batches 8 and 9 of the Crystal River Unit 3 pressurized water reactor (PWR) that are required for Commercial Reactor Critical (CRC) evaluations to support development of the disposal criticality methodology. A non-rodded assembly is one which never contains a control rod assembly (CRA) or an axial power shaping rod assembly (APSRA) during its irradiation history. The objective of this analysis is to provide SAS2H generated isotopic compositions for each fuel assembly's depleted fuel and depleted burnable poison materials. These SAS2H generated isotopic compositions are acceptable for use in CRC benchmark reactivity calculations containing the various fuel assemblies.

2. Quality Assurance

The Quality Assurance (QA) program applies to this analysis. The work reported in this document is part of the criticality disposal methodology development that will eventually support the License Application Design phase. This activity, when confirmed, can impact the proper functioning of the Mined Geologic Disposal System (MGDS) waste package; the waste package has been identified as an MGDS Q-List item important to safety and waste isolation (pp. 4, 15, Ref. 5.6). The waste package is on the Q-List by direct inclusion by the Department of Energy (DOE), without conducting a QAP-2-3 evaluation. As determined by an evaluation performed in accordance with QAP-2-0, *Conduct of Activities*, the work performed for this analysis is subject to *Quality Assurance Requirements and Description* (QARD; Ref. 5.2) requirements. As specified in NLP-3-18 "Documentation of QA Controls on Drawings, Specifications, Design Analyses, and Technical Documents", this activity is subject to QA controls. The Waste Package Development Department (WPDD) responsible manager has selected the applicable procedural controls for this activity commensurate with the work control activity evaluation entitled "Perform Criticality, Thermal, Structural, and Shielding Analyses" (Ref. 5.1).

The work reported in this document is part of the CRC neutronic analyses to support the development of the disposal criticality methodology. All design parameters utilized in this analysis are from a qualified source (Ref. 5.3) which was developed under a U. S. Nuclear Regulatory Commission approved QA program. Therefore, all design parameters utilized in this analysis are qualified.

3. Method

The method for obtaining fuel and burnable poison isotopic compositions at specific points during each assembly's irradiation history is based upon the use of the SAS2H control module of the SCALE 4.3 modular code system (Ref. 5.4). The effective full-power day (EFPD) times during reactor operation that correspond to a CRC evaluation are called "statepoints". An assembly depletion calculation between two CRC statepoints is called a "statepoint calculation". The depleted fuel and depleted burnable poison compositions obtained from statepoint calculations may be used in subsequent CRC reactivity calculations. The SAS2H input decks are automatically developed by the CRAFT program which is a software routine documented in Sections 7.4 and 7.5 and Attachment I of reference 5.11. The SAS2H input decks and depletion models are developed using actual assembly specifications and irradiation histories. The isotopic results obtained from the SAS2H depletion calculations are reviewed

and analyzed to identify any anomalous results which may propagate to subsequent CRC reactivity calculations and ultimately impact the development of the disposal criticality methodology.

4. Design Inputs

The design inputs documented in this analysis describe the design specifications and irradiation histories for certain non-rodded fuel assemblies in fuel batches 8 and 9 of the Crystal River Unit 3 PWR. All of the design inputs listed in this analysis are obtained from reference 5.3, which is a reference summarizing the necessary input parameters.

4.1 Design Parameters

4.1.1 Fuel Assembly Descriptions

Table 4.1.1-1 contains a description of the non-rodded fuel assemblies corresponding to fuel batches 8 and 9 of Crystal River Unit 3. All fuel assemblies within a given fuel batch have the same characteristics as identified in Table 4.1.1-1.

Table 4.1.1-1 Fuel Assembly Descriptions for Batches 8 and 9 of Crystal River Unit 3

	Fuel Batch Identifier	
Parameter	**8**	**9**
Assembly Type	Mark-B4	Mark-B4Z
Weight Percent U-235	3.49	3.84
kg of U per Assembly	463.63	463.63
Fuel Height (cm)	360.172	360.172
Fuel Pellet OD[1] (cm)	0.936244	0.936244
Fuel Rod Clad OD (cm)	1.0922	1.0922
Fuel Rod Clad ID[2] (cm)	0.95758	0.95758
Spacer Grid Material	Inconel	Zircaloy
Volume Fraction of Spacer Grid in Moderator	0.005757609	0.008165257
Guide Tube Material	Zircaloy	Zircaloy
Guide Tube OD (cm)	1.3462	1.3462
Guide Tube ID (cm)	1.26492	1.26492
Instrument Tube Material	Zircaloy	Zircaloy

	Fuel Batch Identifier	
Parameter	8	9
Instrument Tube OD (cm)	1.38193	1.38193
Instrument Tube ID (cm)	1.12014	1.12014
Array Size	15x15	15x15
Number of Fuel Rods	208	208
Number of Guide Tubes	16	16
Number of Instr. Tubes	1	1
Pin Pitch (cm)	1.44272	1.44272
Assembly Pitch (cm)	21.81098	21.81098

[1] OD = Outer Diameter
[2] ID = Inner Diameter

4.1.2 Burnable Poison Rod Assembly (BPRA) Description

Table 4.1.2-1 contains a description of the burnable poison rod assembly utilized in the various fuel assemblies from fuel batches 8 and 9 of Crystal River Unit 3. The rods of the BPRA are inserted into the guide tubes of the fuel assembly during irradiation to produce a lower thermal flux which ultimately allows for longer fuel assembly burnup and better core power distributions.

Table 4.1.2-1 BPRA Descriptions for Use in Batches 8 and 9 of Crystal River Unit 3

Parameter	Value
Burnable Poison (BP) Material	Al_2O_3-B_4C
BP Density (g/cc)	3.7
BP Pellet OD (cm)	0.8636
Burnable Poison Rod (BPR) Cladding Material	Zircaloy
BPR Cladding OD (cm)	1.0922
BPR Cladding ID (cm)	0.9144
Number of BPR's in a BPRA	16

4.1.3 System Pressure

Crystal River Unit 3 is a pressurized water reactor that operates at a constant pressure of 2200 psi (pounds per square inch).

4.1.4 Fuel Assembly Insertion and Burnable Poison Loading Histories

The actual irradiation histories of the fuel assemblies in batches 8 and 9 must be used to perform the various assembly depletion calculations relevant to the CRC analyses. Table 4.1.4-1 contains the assembly insertion and BP loading histories for the non-rodded assemblies in fuel batches 8 and 9 which are required for the CRC analyses of Crystal River Unit 3. For fuel management purposes, some fuel assemblies may be removed from the reactor and re-inserted in a later cycle.

Table 4.1.4-1 Crystal River Unit 3, Batches 8 and 9, Non-Rodded Fuel Assembly Insertion and BP Loading Histories

Assembly Number/Batch	Reactor Cycle Identifier 6	7	8	9	Comments
F10 / 8	1.4	X			The "F" and "G" designations in the assembly numbers delineate the initial insertion cycles for each assembly as Cycles 6 and 7, respectively. For BP rods, the wt% of B4C in the BP pellet material is given. The "X" indicates that the assembly is present in the cycle indicated.
F12 / 8	1.4	X			
F14 / 8	X	X			
F17 / 8	1.4	X			
F19 / 8	0.8	X	X		
F23 / 8	1.4	X	X		
F27 / 8	X	X	X		
G4 / 9		0.8	X		
G4a / 9		0.8		X	
G6 / 9		1.18	X		
G6a / 9		1.18		X	
G8 / 9		X		X	
G10 / 9		0.8	X		
G12 / 9		0.8	X		
G14 / 9		0.2	X	X	
G19 / 9		0.8	X		
G19a / 9		0.8	X		
G23 / 9		1.19	X	X	
G25 / 9		X	X	X	
G27 / 9		0.0	X		

4.1.5 Fuel Assembly Insertion Position Histories

The positions of the various assemblies in the core must be known to correlate the burnup, fuel temperature, and moderator specific volume data with the appropriate assembly. The assembly position data is also used to document the depletion cases so that the isotopic results may be identified at a later time for a specific assembly in a particular position of the core. Table 4.1.5-1 contains the assembly position histories for the non-rodded assemblies in batches 8 and 9 of Crystal River Unit 3 which are relevant to the CRC analyses. The assembly position identifiers refer to locations in a one-eighth core symmetrical arrangement for Crystal River Unit 3 as shown in Figure 4.1.5-1. The integer values (1-29) shown in Figure 4.1.5-1 are used in the SAS2H depletion calculations to identify the various assembly locations.

Table 4.1.5-1 Assembly Position Histories for the Non-Rodded Assemblies from Batches 8 and 9 of Crystal River Unit 3

Assembly Number	Reactor Cycle Identifier			
	6	7	8	9
F10	K10	K15		
F12	K12	K13		
F14	K14	M13		
F17	L11	M11		
F19	L13	N14	H15	
F23	M12	L15	L15	
F27	N13	L14	K15	
G4		H11	H10	
G4a		H11		K9
G6		H13	H10	
G6a		H13		K9
G8		H15		H9
G10		K10	K11	
G12		K12	K13	
G14		K14	L14	N14
G19		L13	K9	
G19a		L13	M11	
G23		M12	N14	K11
G25		M14	M13	L15
G27		N13	H9	

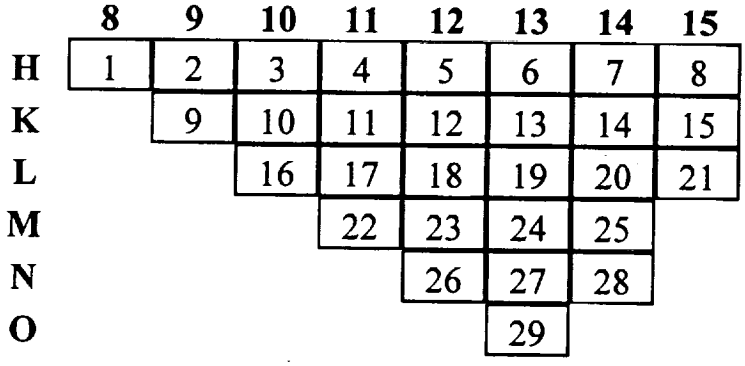

Figure 4.1.5-1 One-Eighth Symmetry Core Layout for Crystal River Unit 3

4.1.6 Reactor Cycle History Data

Table 4.1.6-1 contains a listing of the Crystal River Unit 3 reactor cycle history data that is relevant to the SAS2H depletion calculations for the CRC analyses. The time durations other than the days of downtime and the total cycle effective full power days presented in Table 4.1.6-1 are calculated using the dates from Table 4.1.6-1 and the Lotus 1-2-3 "DATEDIF" function.

Table 4.1.6-1 Crystal River Unit 3 Reactor Cycle History Data Relevant to the Depletion of the Non-Rodded Assemblies in Fuel Batches 8 and 9

Crystal River, Unit-3, Cycle-6 Summary

08/18/85 : Cycle Start Date
01/01/86 : 96.0 EFPD Shutdown Date
06/19/86 : Restart Date After the 96.0 EFPD Shutdown
08/21/87 : 400.0 EFPD Shutdown Date
08/31/87 : Restart Date After the 400.0 EFPD Shutdown (09/01/87, Ref. 5.3)
09/18/87 : Cycle End Date
136 : Cycle Length to 96.0 EFPD Date
428 : Cycle Length from 96.0 EFPD Restart to 400.0 EFPD Date
18 : Cycle Length from 400.0 EFPD Restart to End-of-Cycle (EOC) Date
761 : Total Cycle Length (Calendar Days)
168.917 : Days of Downtime During Shutdown at 96.0 EFPD
10.417 : Days of Downtime During Shutdown at 400.0 EFPD
412.07 : Total Cycle Effective Full Power Days

113 : Calendar Days of Downtime Between Cycle 6 and 7

Table 4.1.6-1 Crystal River Unit 3 Reactor Cycle History Data Relevant to the Depletion of the Non-Rodded Assemblies in Fuel Batches 8 and 9

Crystal River, Unit-3, Cycle-7 Summary

01/08/88 : Cycle Start Date
10/09/88 : 260.3 EFPD Shutdown Date
10/28/88 : Restart Date After the 260.3 EFPD Shutdown (10/27/88, Ref. 5.3)
12/07/88 : 291.0 EFPD Shutdown Date
01/16/89 : Restart Date After the 291.0 EFPD Shutdown (01/15/89, Ref. 5.3)
02/26/89 : 319.0 EFPD Shutdown Date
06/16/89 : Restart Date After the 319.0 EFPD Shutdown
01/22/90 : 462.3 EFPD Shutdown Date
01/24/90 : Restart Date After the 462.3 EFPD Shutdown
02/12/90 : 479.0 EFPD Shutdown Date (02/13/90, Ref. 5.3)
02/19/90 : Restart Date After the 479.0 EFPD Shutdown (02/20/90, Ref. 5.3)
03/14/90 : Cycle End Date
275 : Cycle Length to 260.3 EFPD Date
40 : Cycle Length from 260.3 EFPD Restart to 291.0 EFPD Date
41 : Cycle Length from 291.0 EFPD Restart to 319.0 EFPD Date
220 : Cycle Length from 319.0 EFPD Restart to 462.3 EFPD Date
19 : Cycle Length from 462.3 EFPD Restart to 479.0 EFPD Date
23 : Cycle Length from 479.0 EFPD Restart to EOC
796 : Total Cycle Length (Calendar Days)
18.875 : Days of Downtime During Shutdown at 260.3 EFPD
39.5 : Days of Downtime During Shutdown at 291.0 EFPD
109.5 : Days of Downtime During Shutdown at 319.0 EFPD
2.229 : Days of Downtime During Shutdown at 462.3 EFPD
7.208 : Days of Downtime During Shutdown at 479.0 EFPD
497.9 : Total Cycle Effective Full Power Days

99 : Calendar Days of Downtime Between Cycle 7 and 8

Crystal River, Unit-3, Cycle-8 Summary

06/21/90 : Cycle Start Date
10/09/90 : 97.6 EFPD Shutdown Date (10/10/90, Ref. 5.3)
10/25/90 : Restart Date After the 97.6 EFPD Shutdown
12/12/90 : 139.8 EFPD Shutdown Date
12/18/90 : Restart Date After the 139.8 EFPD Shutdown

Table 4.1.6-1 Crystal River Unit 3 Reactor Cycle History Data Relevant to the Depletion of the Non-Rodded Assemblies in Fuel Batches 8 and 9

10/14/91 : 404.0 EFPD Shutdown Date (10/11/91, Ref. 5.3)
11/27/91 : Restart Date After the 404.0 EFPD Shutdown (11/24/91, Ref. 5.3)
12/02/91 : 409.6 EFPD Shutdown Date (12/03/91, Ref. 5.3)
12/07/91 : Restart Date After the 409.6 EFPD Shutdown (12/08/91, Ref. 5.3)
03/27/92 : 515.5 EFPD Shutdown Date
04/04/92 : Restart Date After the 515.5 EFPD Shutdown
04/30/92 : Cycle End Date
110 : Cycle Length to 97.6 EFPD Date
48 : Cycle Length from 97.6 EFPD Restart to 139.8 EFPD Date
300 : Cycle Length from 139.8 EFPD Restart to 404.0 EFPD Date
5 : Cycle Length from 404.0 EFPD Restart to 409.6 EFPD Date
111 : Cycle Length from 409.6 EFPD Restart to 515.5 EFPD Date
26 : Cycle Length from 515.5 EFPD Restart to EOC
679 : Total Cycle Length (Calendar Days)
15.5 : Days of Downtime During Shutdown at 97.6 EFPD
6.2 : Days of Downtime During Shutdown at 139.8 EFPD
44.4 : Days of Downtime During Shutdown at 404.0 EFPD
4.9 : Days of Downtime During Shutdown at 409.6 EFPD
7.6 : Days of Downtime During Shutdown at 515.5 EFPD
535.9 : Total Cycle Effective Full Power Days

75 : Calendar Days of Downtime Between Cycle 8 and 9

Crystal River, Unit-3, Cycle-9 Summary

07/14/92 : Cycle Start Date
12/29/92 : 158.8 EFPD Shutdown Date
12/31/92 : Restart Date After the 158.8 EFPD Shutdown
03/04/93 : 219.0 EFPD Shutdown Date
04/26/93 : Restart Date After the 219.0 EFPD Shutdown
09/18/93 : 363.1 EFPD Shutdown Date (09/19/93, Ref. 5.3)
09/20/93 : Restart Date After the 363.1 EFPD Shutdown
04/07/94 : Cycle End Date
168 : Cycle Length to 158.8 EFPD Date
63 : Cycle Length from 158.8 EFPD Restart to 219.0 EFPD Date
145 : Cycle Length from 219.0 EFPD Restart to 363.1 EFPD Date
199 : Cycle Length from 363.1 EFPD Restart to EOC

Table 4.1.6-1 Crystal River Unit 3 Reactor Cycle History Data Relevant to the Depletion of the Non-Rodded Assemblies in Fuel Batches 8 and 9

632 : Total Cycle Length (Calendar Days)
2.146 : Days of Downtime During Shutdown at 158.8 EFPD
53.125 : Days of Downtime During Shutdown at 219.0 EFPD
1.625 : Days of Downtime During Shutdown at 363.1 EFPD
557.23 : Total Cycle Effective Full Power Days

55 : Calendar Days of Downtime Between Cycle 9 and 10

A number of the dates presented in Table 4.1.6-1 do not correspond directly with the dates presented in reference 5.3. As appropriate, the date contained in reference 5.3 is presented in parentheses next to each inconsistency. Inconsistencies between the restart and shutdown date values do not affect the calculations due to the fact that the depletions are based upon effective full-power day durations rather than calendar day durations. The various calendar day time periods between statepoints as presented in Table 4.1.6-1 are used for documentation purposes only. The cycle starting and ending dates are the only dates presented in Table 4.1.6-1 which are involved in calculations that are documented in this analysis. A cycle's starting and ending dates are used to calculate calendar day decay durations for fuel assemblies which skip that particular cycle. There are no cycles relevant to this analysis which used a starting date that does not directly correspond to the dates provided in reference 5.3. The days of downtime between cycles are not calculated from the dates presented in Table 4.1.6-1. The days of downtime between cycles are obtained directly from reference 5.3 in units of hours that are converted to days for presentation in Table 4.1.6-1 and use in this analysis. Therefore, no calculations documented in this analysis are affected by the date inconsistencies between Table 4.1.6-1 and reference 5.3.

4.1.7 Boron Letdown Data

The boron letdown data provided in the Core Operations Reports for Cycle 6 through Cycle 9 of Crystal River Unit 3 is used to determine the soluble boron concentration in the moderator at the mid-point of each irradiation step in the various SAS2H depletion calculations performed to deplete the non-rodded fuel assemblies of batches 8 and 9. The boron concentrations at the irradiation step mid-point effective full-power day (EFPD) times are determined by linear interpolation between the measured values listed in Tables 4.1.7-1 through 4.1.7-4. The boron letdown data tables presented in this section are obtained from reference 5.3. The specific irradiation step mid-point boron concentrations obtained from this data are presented in Section 7.3.

Table 4.1.7-1 Boron Letdown Data for Cycle 6 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm[1])
9.2	1017
22.3	1012

Table 4.1.7-1 Boron Letdown Data for Cycle 6 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm[1])
49.8	995
68.5	952
84.6	908
127.3	778
140.1	727
184.5	631
202.8	567
248.8	441
274.9	366
288.2	337
318.2	266
331.6	229
349.7	183
367.4	139
373.3	123
393.3	156
397.7	137
405.3	123

[1] The acronym "ppm" means parts per million by mass of moderator.

Table 4.1.7-2 Boron Letdown Data for Cycle 7 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
7.5	1478
41.4	1405
60.3	1367

Table 4.1.7-2 Boron Letdown Data for Cycle 7 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
81.7	1333
102.9	1290
122.3	1245
139.8	1204
160.5	1167
180.8	1102
202.8	1040
230.9	963
251.2	898
306.7	803
317.9	775
345.3	593
412.3	398
459.8	260
485.0	193

Table 4.1.7-3 Boron Letdown Data for Cycle 8 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
11.2	1537
52.4	1455
78	1411
111.4	1332
154.4	1176
194.8	1103
234.6	999
271.5	887

Table 4.1.7-3 Boron Letdown Data for Cycle 8 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
338	701
390.7	522
445.7	394
474	311
513.1	216

Table 4.1.7-4 Boron Letdown Data for Cycle 9 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
22.1	1608
61.5	1535
145.7	1329
192.8	1201
211.3	1157
262	994
303.7	869
345.7	750
397.9	577
432.5	473
452.4	412
495.4	283
543.4	136

4.1.8 Burnup, Fuel Temperature, and Moderator Specific Volume Data

Burnup, fuel temperature, and moderator specific volume data are required for each node of each assembly in each SAS2H depletion calculation. A set of nodal burnup data at the beginning and end of each SAS2H depletion calculation is required. A set of nodal fuel temperature and moderator specific volume data representative of full-power operation during each depletion calculation of interest is required. Tables 4.1.8-1 through 4.1.8-20 contain the burnup, fuel temperature, and moderator specific

volume data necessary to perform all depletion calculations for each of the non-rodded fuel assemblies from batches 8 and 9 of Crystal River Unit 3. Node number 1 in Tables 4.1.8-1 through 4.1.8-20 represents the top axial node of the active fuel. The burnup data is presented in units of gigawatt-days per metric ton of uranium (GWd/MTU). The fuel temperature data is presented in units of degrees Fahrenheit. The moderator specific volume data is presented in units of cubic feet per pound. The statepoint numbers shown in the tables identify the relative reactivity statepoint calculations that fuel and burnable poison isotopic data will be generated to support for the evaluation of that particular assembly. The EFPD statepoint and cycle number corresponding to each set of fuel temperature and moderator specific volume data are presented above their respective columns in the tables. Each set of fuel temperature and moderator specific volume data listed in the tables is applicable to the depletion calculation performed between the statepoint number identified above the particular data and the previous statepoint number.

Table 4.1.8-1 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F10 of Crystal River Unit 3

	Assembly Number F10								
	Statepoint 13 (BOC Cycle 6)			Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy6			96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6
1	0.0			2.077	1205.0	0.0240	9.865	1203.0	0.0240
2	0.0			3.065	1426.7	0.0239	14.350	1384.5	0.0239
3	0.0			3.702	1546.9	0.0237	16.755	1464.7	0.0237
4	0.0	Data not required.		4.031	1595.1	0.0236	17.676	1481.4	0.0236
5	0.0			4.210	1610.9	0.0234	18.002	1477.7	0.0234
6	0.0			4.324	1615.2	0.0233	18.128	1469.9	0.0232
7	0.0			4.407	1616.2	0.0231	18.197	1462.5	0.0231
8	0.0			4.472	1615.8	0.0229	18.250	1456.5	0.0229
9	0.0			4.520	1614.8	0.0228	18.296	1452.1	0.0228
10	0.0			4.551	1613.5	0.0226	18.338	1449.4	0.0227
11	0.0			4.564	1612.3	0.0225	18.380	1448.9	0.0225
12	0.0			4.555	1611.2	0.0224	18.425	1450.6	0.0224
13	0.0			4.519	1609.4	0.0222	18.462	1454.4	0.0222
14	0.0			4.449	1604.6	0.0221	18.458	1459.5	0.0221
15	0.0			4.322	1592.3	0.0219	18.314	1463.0	0.0220
16	0.0			4.078	1558.6	0.0218	17.740	1455.7	0.0218
17	0.0			3.595	1466.0	0.0217	16.045	1402.7	0.0217
18	0.0			2.587	1242.8	0.0216	11.581	1218.2	0.0216

Table 4.1.8-1 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F10 of Crystal River Unit 3

	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7	274.9 Cy6	274.9 Cy6	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	10.228	1203.0	0.0240	12.487	770.5	0.0224	12.797	794.3	0.0225
2	14.866	1384.5	0.0239	18.510	851.5	0.0224	18.986	859.7	0.0224
3	17.331	1464.7	0.0237	21.739	882.4	0.0223	22.287	874.6	0.0224
4	18.263	1481.4	0.0236	23.036	892.7	0.0223	23.606	873.2	0.0223
5	18.584	1477.7	0.0234	23.532	894.5	0.0222	24.105	868.5	0.0223
6	18.703	1469.9	0.0232	23.727	892.5	0.0222	24.296	864.0	0.0222
7	18.762	1462.5	0.0231	23.813	888.9	0.0221	24.377	860.7	0.0222
8	18.805	1456.5	0.0229	23.856	884.9	0.0221	24.416	858.7	0.0221
9	18.839	1452.1	0.0228	23.880	881.3	0.0220	24.437	857.9	0.0220
10	18.867	1449.4	0.0227	23.895	878.3	0.0220	24.450	858.3	0.0220
11	18.894	1448.9	0.0225	23.907	875.8	0.0219	24.462	859.6	0.0219
12	18.924	1450.6	0.0224	23.917	873.8	0.0218	24.474	861.9	0.0219
13	18.948	1454.4	0.0222	23.907	871.8	0.0218	24.467	865.3	0.0218
14	18.934	1459.5	0.0221	23.826	868.8	0.0217	24.389	869.5	0.0218
15	18.784	1463.0	0.0220	23.537	863.0	0.0217	24.100	873.8	0.0217
16	18.201	1455.7	0.0218	22.669	851.2	0.0216	23.218	875.3	0.0217
17	16.472	1402.7	0.0217	20.326	823.7	0.0216	20.821	862.8	0.0216
18	11.895	1218.2	0.0216	14.309	744.4	0.0216	14.636	792.2	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	13.097	794.3	0.0225	14.724	810.5	0.0225	14.931	810.5	0.0225
2	19.441	859.7	0.0224	21.839	873.2	0.0225	22.137	873.2	0.0225
3	22.807	874.6	0.0224	25.495	884.1	0.0224	25.823	884.1	0.0224
4	24.142	873.2	0.0223	26.886	879.9	0.0223	27.216	879.9	0.0223
5	24.639	868.5	0.0223	27.367	873.5	0.0223	27.694	873.5	0.0223
6	24.823	864.0	0.0222	27.523	867.9	0.0222	27.846	867.9	0.0222
7	24.896	860.7	0.0222	27.571	863.8	0.0222	27.891	863.8	0.0222
8	24.928	858.7	0.0221	27.587	861.0	0.0221	27.906	861.0	0.0221
9	24.943	857.9	0.0220	27.595	859.3	0.0221	27.914	859.3	0.0221
10	24.953	858.3	0.0220	27.606	858.5	0.0220	27.924	858.5	0.0220
11	24.963	859.6	0.0219	27.625	858.5	0.0219	27.945	858.5	0.0219
12	24.975	861.9	0.0219	27.654	859.4	0.0219	27.975	859.4	0.0219
13	24.969	865.3	0.0218	27.675	861.4	0.0218	28.000	861.4	0.0218

Table 4.1.8-1 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F10 of Crystal River Unit 3

14	24.893	869.5	0.0218	27.632	864.8	0.0218	27.962	864.8	0.0218
15	24.603	873.8	0.0217	27.372	869.3	0.0217	27.707	869.3	0.0217
16	23.709	875.3	0.0217	26.463	872.7	0.0217	26.799	872.7	0.0217
17	21.266	862.8	0.0216	23.822	864.7	0.0216	24.140	864.7	0.0216
18	14.932	792.2	0.0216	16.693	799.8	0.0216	16.917	799.8	0.0216

Table 4.1.8-2 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F12 of Crystal River Unit 3

	Assembly Number F12								
	Statepoint 13 (BOC Cycle 6)			Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy6			96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6
1	0.0			1.919	1196.8	0.0240	9.615	1204.0	0.0240
2	0.0			2.909	1418.2	0.0239	14.106	1386.1	0.0239
3	0.0			3.583	1540.5	0.0238	16.586	1465.2	0.0237
4	0.0	Data not required.		3.941	1589.4	0.0236	17.541	1481.0	0.0236
5	0.0			4.145	1607.4	0.0235	17.887	1476.1	0.0234
6	0.0			4.289	1613.5	0.0233	18.057	1468.1	0.0233
7	0.0			4.408	1617.2	0.0231	18.196	1461.2	0.0231
8	0.0			4.515	1620.5	0.0230	18.343	1456.1	0.0230
9	0.0			4.609	1623.4	0.0228	18.488	1452.7	0.0228
10	0.0			4.683	1624.8	0.0227	18.609	1450.5	0.0227
11	0.0			4.735	1626.0	0.0225	18.723	1450.5	0.0225
12	0.0			4.752	1628.8	0.0224	18.849	1454.1	0.0224
13	0.0			4.717	1629.5	0.0222	18.929	1459.4	0.0222
14	0.0			4.623	1624.1	0.0221	18.899	1464.3	0.0221
15	0.0			4.465	1609.9	0.0220	18.702	1467.8	0.0220
16	0.0			4.185	1575.7	0.0218	18.064	1461.0	0.0218
17	0.0			3.667	1479.7	0.0217	16.287	1409.4	0.0217
18	0.0			2.629	1251.1	0.0216	11.727	1222.4	0.0216

	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7	274.9 Cy6	274.9 Cy6	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	9.966	1204.0	0.0240	14.698	1004.9	0.0235	15.338	1008.2	0.0235
2	14.619	1386.1	0.0239	22.066	1142.0	0.0234	23.020	1101.2	0.0234
3	17.172	1465.2	0.0237	26.133	1195.7	0.0233	27.224	1120.7	0.0232
4	18.145	1481.0	0.0236	27.844	1214.6	0.0232	28.975	1120.1	0.0231

Table 4.1.8-2 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F12 of Crystal River Unit 3

5	18.491	1476.1	0.0234	28.537	1217.0	0.0231	29.670	1113.1	0.0230
6	18.655	1468.1	0.0233	28.858	1212.4	0.0229	29.983	1105.4	0.0229
7	18.786	1461.2	0.0231	29.058	1205.6	0.0228	30.173	1099.9	0.0228
8	18.924	1456.1	0.0230	29.220	1198.4	0.0227	30.328	1097.0	0.0227
9	19.057	1452.7	0.0228	29.358	1191.9	0.0225	30.462	1096.2	0.0225
10	19.164	1450.5	0.0227	29.464	1186.7	0.0224	30.567	1097.6	0.0224
11	19.260	1450.5	0.0225	29.556	1182.6	0.0223	30.661	1100.8	0.0223
12	19.365	1454.1	0.0224	29.653	1179.6	0.0222	30.764	1106.1	0.0222
13	19.427	1459.4	0.0222	29.688	1177.8	0.0221	30.810	1114.2	0.0221
14	19.384	1464.3	0.0221	29.552	1174.9	0.0220	30.685	1124.0	0.0220
15	19.179	1467.8	0.0220	29.107	1166.5	0.0219	30.244	1133.0	0.0219
16	18.531	1461.0	0.0218	27.937	1146.2	0.0218	29.054	1133.9	0.0218
17	16.720	1409.4	0.0217	24.993	1098.2	0.0217	26.017	1114.8	0.0217
18	12.044	1222.4	0.0216	17.443	962.1	0.0216	18.145	1006.0	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	15.958	1008.2	0.0235	19.164	1019.3	0.0234	19.558	1019.3	0.0234
2	23.934	1101.2	0.0234	28.512	1103.8	0.0233	29.056	1103.8	0.0233
3	28.255	1120.7	0.0232	33.329	1121.3	0.0232	33.920	1121.3	0.0232
4	30.032	1120.1	0.0231	35.183	1119.4	0.0231	35.775	1119.4	0.0231
5	30.720	1113.1	0.0230	35.825	1109.3	0.0230	36.408	1109.3	0.0230
6	31.018	1105.4	0.0229	36.061	1099.8	0.0229	36.636	1099.8	0.0229
7	31.193	1099.9	0.0228	36.191	1092.9	0.0227	36.761	1092.9	0.0227
8	31.336	1097.0	0.0227	36.308	1088.4	0.0226	36.876	1088.4	0.0226
9	31.460	1096.2	0.0225	36.423	1085.7	0.0225	36.990	1085.7	0.0225
10	31.559	1097.6	0.0224	36.528	1084.7	0.0224	37.096	1084.7	0.0224
11	31.650	1100.8	0.0223	36.640	1085.1	0.0223	37.210	1085.1	0.0223
12	31.755	1106.1	0.0222	36.783	1087.4	0.0222	37.358	1087.4	0.0222
13	31.806	1114.2	0.0221	36.899	1092.4	0.0221	37.480	1092.4	0.0221
14	31.688	1124.0	0.0220	36.863	1100.0	0.0220	37.455	1100.0	0.0220
15	31.250	1133.0	0.0219	36.503	1108.6	0.0219	37.106	1108.6	0.0219
16	30.044	1133.9	0.0218	35.304	1112.8	0.0218	35.914	1112.8	0.0218
17	26.928	1114.8	0.0217	31.892	1091.5	0.0217	32.478	1091.5	0.0217
18	18.776	1006.0	0.0216	22.337	998.8	0.0216	22.770	998.8	0.0216

Table 4.1.8-3 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F14 of Crystal River Unit 3

	Assembly Number F14								
	Statepoint 13 (BOC Cycle 6)			Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy6			96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6
1	0.0			1.520	1060.7	0.0235	7.615	1096.2	0.0235
2	0.0			2.540	1297.9	0.0235	11.876	1272.2	0.0234
3	0.0			3.164	1408.1	0.0233	13.998	1334.3	0.0233
4	0.0	Data not required.		3.497	1450.4	0.0232	14.813	1345.8	0.0231
5	0.0			3.694	1465.9	0.0231	15.126	1340.7	0.0230
6	0.0			3.831	1471.9	0.0230	15.277	1332.5	0.0229
7	0.0			3.944	1475.4	0.0228	15.394	1325.4	0.0228
8	0.0			4.045	1478.8	0.0227	15.515	1320.2	0.0227
9	0.0			4.130	1481.6	0.0226	15.630	1316.7	0.0225
10	0.0			4.187	1482.9	0.0225	15.712	1314.6	0.0224
11	0.0			4.208	1482.2	0.0223	15.750	1313.7	0.0223
12	0.0			4.188	1479.7	0.0222	15.744	1314.2	0.0222
13	0.0			4.128	1475.2	0.0221	15.700	1316.5	0.0221
14	0.0			4.029	1467.7	0.0220	15.618	1320.7	0.0220
15	0.0			3.879	1453.3	0.0219	15.433	1324.7	0.0219
16	0.0			3.614	1419.1	0.0218	14.893	1319.2	0.0218
17	0.0			3.078	1329.7	0.0217	13.282	1273.5	0.0217
18	0.0			1.873	1077.9	0.0216	8.632	1093.6	0.0216

	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7	274.9 Cy6	274.9 Cy6	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	7.910	1096.2	0.0235	12.208	983.6	0.0234	12.794	994.4	0.0233
2	12.305	1272.2	0.0234	19.127	1123.6	0.0233	20.005	1086.4	0.0232
3	14.478	1334.3	0.0233	22.770	1176.1	0.0232	23.780	1109.9	0.0231
4	15.303	1345.8	0.0231	24.327	1193.6	0.0231	25.377	1105.9	0.0230
5	15.615	1340.7	0.0230	24.983	1195.2	0.0229	26.036	1096.2	0.0229
6	15.759	1332.5	0.0229	25.285	1190.8	0.0228	26.330	1087.8	0.0228
7	15.869	1325.4	0.0228	25.464	1184.3	0.0227	26.500	1082.2	0.0227
8	15.983	1320.2	0.0227	25.601	1177.5	0.0226	26.631	1079.1	0.0226
9	16.088	1316.7	0.0225	25.711	1171.4	0.0225	26.737	1078.3	0.0225
10	16.160	1314.6	0.0224	25.785	1166.8	0.0224	26.810	1079.7	0.0224
11	16.185	1313.7	0.0223	25.822	1164.1	0.0223	26.850	1083.4	0.0223
12	16.165	1314.2	0.0222	25.825	1163.8	0.0221	26.861	1089.8	0.0222

Table 4.1.8-3 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F14 of Crystal River Unit 3

13	16.109	1316.5	0.0221	25.781	1165.0	0.0220	26.829	1099.2	0.0221
14	16.018	1320.7	0.0220	25.630	1164.2	0.0219	26.691	1110.1	0.0220
15	15.827	1324.7	0.0219	25.226	1157.1	0.0218	26.292	1120.4	0.0219
16	15.279	1319.2	0.0218	24.175	1138.2	0.0217	25.222	1126.2	0.0218
17	13.639	1273.5	0.0217	21.435	1093.8	0.0217	22.393	1110.5	0.0217
18	8.882	1093.6	0.0216	13.982	961.0	0.0216	14.644	1013.3	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	13.363	994.4	0.0233	16.334	1009.4	0.0233	16.703	1009.4	0.0233
2	20.848	1086.4	0.0232	25.106	1092.4	0.0232	25.618	1092.4	0.0232
3	24.735	1109.9	0.0231	29.479	1108.0	0.0231	30.037	1108.0	0.0231
4	26.359	1105.9	0.0230	31.186	1100.8	0.0230	31.746	1100.8	0.0230
5	27.012	1096.2	0.0229	31.801	1090.0	0.0229	32.353	1090.0	0.0229
6	27.293	1087.8	0.0228	32.026	1080.6	0.0228	32.571	1080.6	0.0228
7	27.449	1082.2	0.0227	32.142	1073.9	0.0227	32.682	1073.9	0.0227
8	27.568	1079.1	0.0226	32.238	1069.6	0.0226	32.776	1069.6	0.0226
9	27.665	1078.3	0.0225	32.328	1067.1	0.0225	32.866	1067.1	0.0225
10	27.734	1079.7	0.0224	32.404	1066.3	0.0224	32.944	1066.3	0.0224
11	27.772	1083.4	0.0223	32.467	1067.3	0.0223	33.009	1067.3	0.0223
12	27.786	1089.8	0.0222	32.527	1070.7	0.0222	33.074	1070.7	0.0222
13	27.762	1099.2	0.0221	32.574	1076.9	0.0221	33.129	1076.9	0.0221
14	27.632	1110.1	0.0220	32.529	1085.3	0.0220	33.094	1085.3	0.0220
15	27.236	1120.4	0.0219	32.210	1094.8	0.0219	32.786	1094.8	0.0219
16	26.150	1126.2	0.0218	31.126	1100.8	0.0218	31.708	1100.8	0.0218
17	23.247	1110.5	0.0217	27.938	1092.2	0.0217	28.496	1092.2	0.0217
18	15.238	1013.3	0.0216	18.622	1008.6	0.0216	19.037	1008.6	0.0216

Table 4.1.8-4 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F17 of Crystal River Unit 3

	Assembly Number F17								
	Statepoint 13 (BOC Cycle 6)			Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy6			96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6
1	0.0			2.007	1203.1	0.0241	9.827	1209.5	0.0241
2	0.0			2.956	1424.1	0.0239	14.305	1395.1	0.0240
3	0.0			3.581	1546.4	0.0238	16.759	1478.4	0.0238

Table 4.1.8-4 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F17 of Crystal River Unit 3

4	0.0	Data not required.		3.916	1595.5	0.0236	17.705	1494.4	0.0236
5	0.0			4.107	1612.6	0.0235	18.042	1489.7	0.0235
6	0.0			4.240	1618.6	0.0233	18.202	1482.4	0.0233
7	0.0			4.348	1621.9	0.0232	18.326	1475.7	0.0231
8	0.0			4.444	1624.7	0.0230	18.452	1470.6	0.0230
9	0.0			4.526	1626.9	0.0228	18.576	1467.0	0.0228
10	0.0			4.594	1628.2	0.0227	18.691	1464.8	0.0227
11	0.0			4.648	1629.9	0.0225	18.816	1465.1	0.0225
12	0.0			4.674	1633.9	0.0224	18.971	1469.4	0.0224
13	0.0			4.653	1636.0	0.0222	19.090	1475.4	0.0223
14	0.0			4.572	1631.7	0.0221	19.095	1480.8	0.0221
15	0.0			4.427	1618.0	0.0220	18.920	1484.2	0.0220
16	0.0			4.164	1584.3	0.0218	18.295	1476.5	0.0219
17	0.0			3.675	1491.0	0.0217	16.537	1426.4	0.0217
18	0.0			2.664	1263.1	0.0216	11.960	1234.7	0.0216

	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7	274.9 Cy6	274.9 Cy6	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	10.186	1209.5	0.0241	15.048	1019.1	0.0236	15.715	1022.6	0.0235
2	14.813	1395.1	0.0240	22.373	1154.9	0.0235	23.361	1118.3	0.0234
3	17.325	1478.4	0.0238	26.373	1209.5	0.0234	27.502	1139.7	0.0233
4	18.282	1494.4	0.0236	28.049	1228.4	0.0232	29.220	1141.3	0.0232
5	18.614	1489.7	0.0235	28.705	1230.1	0.0231	29.879	1133.5	0.0231
6	18.765	1482.4	0.0233	28.997	1225.2	0.0230	30.162	1125.2	0.0229
7	18.879	1475.7	0.0231	29.175	1218.6	0.0228	30.330	1119.7	0.0228
8	18.994	1470.6	0.0230	29.316	1211.9	0.0227	30.464	1117.0	0.0227
9	19.105	1467.0	0.0228	29.435	1205.8	0.0226	30.580	1116.6	0.0226
10	19.205	1464.8	0.0227	29.535	1200.7	0.0224	30.679	1118.3	0.0225
11	19.313	1465.1	0.0225	29.642	1196.4	0.0223	30.789	1121.7	0.0224
12	19.448	1469.4	0.0224	29.782	1193.5	0.0222	30.936	1127.6	0.0222
13	19.548	1475.4	0.0223	29.878	1192.4	0.0221	31.045	1136.7	0.0221
14	19.538	1480.8	0.0221	29.792	1189.9	0.0220	30.972	1147.6	0.0220
15	19.352	1484.2	0.0220	29.378	1181.0	0.0219	30.563	1156.9	0.0219
16	18.715	1476.5	0.0219	28.239	1160.2	0.0218	29.402	1157.5	0.0218
17	16.927	1426.4	0.0217	25.366	1112.7	0.0217	26.433	1134.4	0.0217
18	12.249	1234.7	0.0216	17.844	977.5	0.0216	18.581	1021.0	0.0216

Table 4.1.8-4 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F17 of Crystal River Unit 3

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	16.362	1022.6	0.0235	19.694	1031.9	0.0235	20.102	1031.9	0.0235
2	24.310	1118.3	0.0234	29.052	1119.4	0.0234	29.614	1119.4	0.0234
3	28.574	1139.7	0.0233	33.831	1140.9	0.0233	34.441	1140.9	0.0233
4	30.319	1141.3	0.0232	35.656	1138.9	0.0232	36.267	1138.9	0.0232
5	30.969	1133.5	0.0231	36.252	1127.9	0.0230	36.854	1127.9	0.0230
6	31.235	1125.2	0.0229	36.451	1117.7	0.0229	37.044	1117.7	0.0229
7	31.389	1119.7	0.0228	36.558	1110.6	0.0228	37.145	1110.6	0.0228
8	31.511	1117.0	0.0227	36.655	1106.2	0.0227	37.240	1106.2	0.0227
9	31.618	1116.6	0.0226	36.755	1103.7	0.0226	37.339	1103.7	0.0226
10	31.711	1118.3	0.0225	36.855	1102.7	0.0224	37.440	1102.7	0.0224
11	31.818	1121.7	0.0224	36.984	1103.1	0.0223	37.571	1103.1	0.0223
12	31.967	1127.6	0.0222	37.177	1105.7	0.0222	37.768	1105.7	0.0222
13	32.083	1136.7	0.0221	37.367	1111.5	0.0221	37.967	1111.5	0.0221
14	32.020	1147.6	0.0220	37.395	1119.8	0.0220	38.005	1119.8	0.0220
15	31.612	1156.9	0.0219	37.069	1128.7	0.0219	37.691	1128.7	0.0219
16	30.434	1157.5	0.0218	35.896	1132.7	0.0218	36.525	1132.7	0.0218
17	27.384	1134.4	0.0217	32.536	1109.0	0.0217	33.140	1109.0	0.0217
18	19.242	1021.0	0.0216	22.951	1011.5	0.0216	23.398	1011.5	0.0216

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F19 of Crystal River Unit 3

	Assembly Number F19								
	Statepoint 13 (BOC Cycle 6)			Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy6			96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6
1	0.0			1.776	1141.8	0.0239	8.818	1161.9	0.0238
2	0.0			2.760	1372.1	0.0238	13.244	1343.3	0.0237
3	0.0			3.407	1493.4	0.0236	15.612	1416.3	0.0236
4	0.0	Data not required.		3.760	1540.6	0.0235	16.521	1430.5	0.0234
5	0.0			3.969	1558.0	0.0233	16.857	1425.4	0.0233
6	0.0			4.120	1566.2	0.0232	17.034	1417.6	0.0231
7	0.0			4.249	1572.0	0.0230	17.194	1411.1	0.0230
8	0.0			4.371	1578.0	0.0229	17.371	1406.8	0.0229
9	0.0			4.480	1582.9	0.0228	17.546	1404.2	0.0227
10	0.0			4.563	1585.7	0.0226	17.684	1402.6	0.0226

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F19 of Crystal River Unit 3

11	0.0			4.618	1587.1	0.0225	17.795	1403.2	0.0225
12	0.0			4.631	1589.5	0.0223	17.901	1407.7	0.0223
13	0.0			4.587	1589.4	0.0222	17.951	1413.5	0.0222
14	0.0			4.485	1583.4	0.0221	17.898	1418.6	0.0221
15	0.0			4.322	1569.0	0.0219	17.703	1422.7	0.0219
16	0.0			4.038	1532.5	0.0218	17.095	1416.2	0.0218
17	0.0			3.495	1435.6	0.0217	15.346	1363.8	0.0217
18	0.0			2.389	1198.9	0.0216	10.757	1184.0	0.0216

	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7	274.9 Cy6	274.9 Cy6	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	9.155	1161.9	0.0238	10.932	734.8	0.0223	11.182	757.0	0.0223
2	13.731	1343.3	0.0237	16.654	805.5	0.0222	17.042	816.4	0.0223
3	16.163	1416.3	0.0236	19.749	833.3	0.0222	20.201	830.4	0.0222
4	17.088	1430.5	0.0234	21.003	842.0	0.0221	21.474	829.4	0.0222
5	17.426	1425.4	0.0233	21.495	843.2	0.0221	21.968	825.2	0.0221
6	17.598	1417.6	0.0231	21.732	840.8	0.0221	22.201	820.8	0.0221
7	17.750	1411.1	0.0230	21.902	836.9	0.0220	22.367	817.2	0.0220
8	17.920	1406.8	0.0229	22.067	832.5	0.0220	22.527	814.6	0.0220
9	18.084	1404.2	0.0227	22.217	828.4	0.0219	22.674	813.0	0.0220
10	18.208	1402.6	0.0226	22.327	825.1	0.0219	22.781	812.5	0.0219
11	18.302	1403.2	0.0225	22.407	822.6	0.0218	22.861	813.0	0.0219
12	18.388	1407.7	0.0223	22.478	820.6	0.0218	22.933	814.5	0.0218
13	18.420	1413.5	0.0222	22.485	819.0	0.0218	22.944	817.1	0.0218
14	18.355	1418.6	0.0221	22.370	817.0	0.0217	22.831	820.9	0.0217
15	18.153	1422.7	0.0219	22.056	812.6	0.0217	22.516	824.5	0.0217
16	17.535	1416.2	0.0218	21.199	802.5	0.0216	21.647	825.3	0.0216
17	15.755	1363.8	0.0217	18.904	779.0	0.0216	19.307	814.2	0.0216
18	11.055	1184.0	0.0216	13.017	711.9	0.0216	13.282	753.0	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	11.425	757.0	0.0223	12.747	771.5	0.0223	12.917	771.5	0.0223
2	17.415	816.4	0.0223	19.388	829.3	0.0223	19.635	829.3	0.0223
3	20.629	830.4	0.0222	22.855	840.1	0.0222	23.128	840.1	0.0222
4	21.916	829.4	0.0222	24.192	836.8	0.0222	24.468	836.8	0.0222
5	22.409	825.2	0.0221	24.671	831.1	0.0221	24.944	831.1	0.0221

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F19 of Crystal River Unit 3

6	22.636	820.8	0.0221	24.872	825.8	0.0221	25.141	825.8	0.0221
7	22.795	817.2	0.0220	25.007	821.5	0.0220	25.273	821.5	0.0220
8	22.948	814.6	0.0220	25.144	818.1	0.0220	25.408	818.1	0.0220
9	23.090	813.0	0.0220	25.276	815.7	0.0220	25.540	815.7	0.0220
10	23.194	812.5	0.0219	25.378	814.2	0.0219	25.642	814.2	0.0219
11	23.272	813.0	0.0219	25.461	813.6	0.0219	25.725	813.6	0.0219
12	23.344	814.5	0.0218	25.545	813.9	0.0218	25.810	813.9	0.0218
13	23.355	817.1	0.0218	25.577	815.4	0.0218	25.845	815.4	0.0218
14	23.244	820.9	0.0217	25.495	818.4	0.0217	25.767	818.4	0.0217
15	22.929	824.5	0.0217	25.203	822.2	0.0217	25.478	822.2	0.0217
16	22.049	825.3	0.0216	24.306	824.5	0.0216	24.582	824.5	0.0216
17	19.670	814.2	0.0216	21.759	816.8	0.0216	22.019	816.8	0.0216
18	13.523	753.0	0.0216	14.953	760.2	0.0216	15.136	760.2	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	13.110	771.5	0.0223	13.738	713.1	0.0222	14.031	713.1	0.0222
2	19.914	829.3	0.0223	20.891	757.9	0.0221	21.337	757.9	0.0221
3	23.437	840.1	0.0222	24.593	772.4	0.0221	25.111	772.4	0.0221
4	24.781	836.8	0.0222	26.025	777.1	0.0221	26.574	777.1	0.0221
5	25.254	831.1	0.0221	26.547	778.8	0.0220	27.109	778.8	0.0220
6	25.447	825.8	0.0221	26.769	778.8	0.0220	27.336	778.8	0.0220
7	25.577	821.5	0.0220	26.913	777.6	0.0220	27.482	777.6	0.0220
8	25.711	818.1	0.0220	27.051	775.5	0.0219	27.620	775.5	0.0219
9	25.841	815.7	0.0220	27.182	773.1	0.0219	27.748	773.1	0.0219
10	25.943	814.2	0.0219	27.279	770.6	0.0218	27.843	770.6	0.0218
11	26.028	813.6	0.0219	27.355	768.1	0.0218	27.916	768.1	0.0218
12	26.114	813.9	0.0218	27.428	765.4	0.0218	27.985	765.4	0.0218
13	26.152	815.4	0.0218	27.444	762.4	0.0217	27.996	762.4	0.0217
14	26.078	818.4	0.0217	27.339	759.0	0.0217	27.883	759.0	0.0217
15	25.794	822.2	0.0217	27.008	754.4	0.0217	27.539	754.4	0.0217
16	24.899	824.5	0.0216	26.036	747.8	0.0216	26.542	747.8	0.0216
17	22.318	816.8	0.0216	23.309	734.7	0.0216	23.759	734.7	0.0216
18	15.348	760.2	0.0216	15.991	691.7	0.0216	16.289	691.7	0.0216

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F19 of Crystal River Unit 3

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	16.177	729.0	0.0222	16.229	729.0	0.0222	17.297	770.3	0.0223
2	24.470	770.2	0.0222	24.543	770.2	0.0222	26.024	802.4	0.0222
3	28.624	778.3	0.0221	28.704	778.3	0.0221	30.304	798.6	0.0222
4	30.191	777.8	0.0221	30.272	777.8	0.0221	31.876	794.6	0.0222
5	30.744	775.8	0.0220	30.824	775.8	0.0220	32.408	789.8	0.0221
6	30.959	773.3	0.0220	31.038	773.3	0.0220	32.601	785.4	0.0221
7	31.083	770.6	0.0220	31.162	770.6	0.0220	32.708	781.6	0.0220
8	31.199	767.7	0.0219	31.277	767.7	0.0219	32.810	778.5	0.0220
9	31.308	765.0	0.0219	31.386	765.0	0.0219	32.908	775.8	0.0219
10	31.389	762.7	0.0218	31.467	762.7	0.0218	32.983	773.7	0.0219
11	31.454	760.8	0.0218	31.532	760.8	0.0218	33.046	772.1	0.0218
12	31.518	759.1	0.0218	31.597	759.1	0.0218	33.112	771.0	0.0218
13	31.530	757.7	0.0217	31.609	757.7	0.0217	33.131	770.9	0.0218
14	31.417	756.7	0.0217	31.497	756.7	0.0217	33.034	771.9	0.0217
15	31.058	755.6	0.0217	31.138	755.6	0.0217	32.693	773.8	0.0217
16	29.987	753.6	0.0216	30.067	753.6	0.0216	31.630	775.3	0.0216
17	26.926	746.2	0.0216	27.002	746.2	0.0216	28.493	775.4	0.0216
18	18.484	707.0	0.0216	18.538	707.0	0.0216	19.627	745.6	0.0216

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F23 of Crystal River Unit 3

	Assembly Number F23								
	Statepoint 13 (BOC Cycle 6)			Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy6			96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6
1	0.0			1.792	1168.1	0.0239	9.179	1187.7	0.0239
2	0.0			2.733	1384.5	0.0238	13.522	1368.1	0.0238
3	0.0			3.387	1505.4	0.0237	15.964	1445.8	0.0237
4	0.0	Data not required.		3.743	1554.2	0.0235	16.923	1463.2	0.0235
5	0.0			3.950	1572.4	0.0234	17.276	1459.2	0.0234
6	0.0			4.097	1581.0	0.0232	17.456	1451.8	0.0232
7	0.0			4.220	1587.5	0.0231	17.610	1445.5	0.0231
8	0.0			4.334	1593.0	0.0229	17.775	1441.3	0.0229
9	0.0			4.435	1597.4	0.0228	17.939	1438.7	0.0228
10	0.0			4.515	1599.8	0.0226	18.076	1437.4	0.0226

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F23 of Crystal River Unit 3

11	0.0			4.575	1601.6	0.0225	18.204	1438.4	0.0225
12	0.0			4.598	1605.1	0.0224	18.342	1443.3	0.0224
13	0.0			4.566	1606.3	0.0222	18.431	1449.2	0.0222
14	0.0			4.474	1601.2	0.0221	18.406	1454.4	0.0221
15	0.0			4.319	1587.2	0.0219	18.216	1457.9	0.0220
16	0.0			4.042	1549.9	0.0218	17.585	1450.4	0.0218
17	0.0			3.531	1453.6	0.0217	15.828	1395.2	0.0217
18	0.0			2.521	1230.2	0.0216	11.368	1211.2	0.0216

	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7	274.9 Cy6	274.9 Cy6	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	9.520	1187.7	0.0239	11.141	713.2	0.0222	11.367	736.6	0.0222
2	14.024	1368.1	0.0238	16.630	774.2	0.0221	16.977	790.3	0.0222
3	16.541	1445.8	0.0237	19.677	796.8	0.0221	20.077	802.2	0.0221
4	17.520	1463.2	0.0235	20.906	803.7	0.0221	21.321	801.1	0.0221
5	17.876	1459.2	0.0234	21.378	804.5	0.0220	21.794	797.3	0.0221
6	18.052	1451.8	0.0232	21.600	802.4	0.0220	22.013	793.3	0.0220
7	18.199	1445.5	0.0231	21.757	799.0	0.0219	22.165	790.0	0.0220
8	18.356	1441.3	0.0229	21.904	795.1	0.0219	22.308	787.6	0.0219
9	18.508	1438.7	0.0228	22.039	791.4	0.0219	22.440	786.0	0.0219
10	18.630	1437.4	0.0226	22.144	788.3	0.0218	22.542	785.4	0.0219
11	18.739	1438.4	0.0225	22.235	785.8	0.0218	22.633	785.6	0.0218
12	18.857	1443.3	0.0224	22.332	783.6	0.0218	22.731	786.6	0.0218
13	18.926	1449.2	0.0222	22.374	781.7	0.0217	22.774	788.5	0.0218
14	18.887	1454.4	0.0221	22.288	779.4	0.0217	22.689	791.5	0.0217
15	18.689	1457.9	0.0220	21.993	775.4	0.0217	22.395	794.6	0.0217
16	18.047	1450.4	0.0218	21.157	766.9	0.0216	21.548	795.4	0.0216
17	16.256	1395.2	0.0217	18.944	747.6	0.0216	19.297	785.4	0.0216
18	11.681	1211.2	0.0216	13.371	690.2	0.0216	13.603	729.9	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	11.586	736.6	0.0222	12.791	751.3	0.0222	12.947	751.3	0.0222
2	17.311	790.3	0.0222	19.097	804.0	0.0222	19.322	804.0	0.0222
3	20.457	802.2	0.0221	22.458	813.4	0.0222	22.705	813.4	0.0222
4	21.712	801.1	0.0221	23.752	810.2	0.0221	24.001	810.2	0.0221
5	22.183	797.3	0.0221	24.208	805.0	0.0221	24.455	805.0	0.0221

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F23 of Crystal River Unit 3

6	22.396	793.3	0.0220	24.396	800.2	0.0220	24.639	800.2	0.0220
7	22.542	790.0	0.0220	24.519	796.2	0.0220	24.759	796.2	0.0220
8	22.679	787.6	0.0219	24.639	793.1	0.0220	24.878	793.1	0.0220
9	22.806	786.0	0.0219	24.756	790.7	0.0219	24.994	790.7	0.0219
10	22.905	785.4	0.0219	24.851	789.3	0.0219	25.089	789.3	0.0219
11	22.993	785.6	0.0218	24.942	788.5	0.0218	25.180	788.5	0.0218
12	23.090	786.6	0.0218	25.048	788.4	0.0218	25.287	788.4	0.0218
13	23.134	788.5	0.0218	25.109	789.4	0.0218	25.350	789.4	0.0218
14	23.051	791.5	0.0217	25.049	791.8	0.0217	25.293	791.8	0.0217
15	22.755	794.6	0.0217	24.775	795.1	0.0217	25.023	795.1	0.0217
16	21.900	795.4	0.0216	23.907	797.4	0.0216	24.156	797.4	0.0216
17	19.616	785.4	0.0216	21.475	790.3	0.0216	21.709	790.3	0.0216
18	13.815	729.9	0.0216	15.087	737.8	0.0216	15.252	737.8	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	13.125	751.3	0.0222	13.599	675.9	0.0220	13.820	675.9	0.0220
2	19.578	804.0	0.0222	20.326	713.6	0.0220	20.668	713.6	0.0220
3	22.988	813.4	0.0222	23.879	726.6	0.0220	24.280	726.6	0.0220
4	24.286	810.2	0.0221	25.250	731.4	0.0220	25.676	731.4	0.0220
5	24.737	805.0	0.0221	25.740	733.2	0.0219	26.178	733.2	0.0219
6	24.917	800.2	0.0220	25.944	733.5	0.0219	26.386	733.5	0.0219
7	25.035	796.2	0.0220	26.073	732.7	0.0219	26.517	732.7	0.0219
8	25.152	793.1	0.0220	26.196	731.2	0.0218	26.638	731.2	0.0218
9	25.267	790.7	0.0219	26.311	729.4	0.0218	26.752	729.4	0.0218
10	25.362	789.3	0.0219	26.402	727.5	0.0218	26.842	727.5	0.0218
11	25.453	788.5	0.0218	26.488	725.4	0.0217	26.925	725.4	0.0217
12	25.561	788.4	0.0218	26.585	723.1	0.0217	27.020	723.1	0.0217
13	25.626	789.4	0.0218	26.634	720.5	0.0217	27.064	720.5	0.0217
14	25.574	791.8	0.0217	26.556	717.7	0.0217	26.981	717.7	0.0217
15	25.307	795.1	0.0217	26.252	713.8	0.0216	26.666	713.8	0.0216
16	24.442	797.4	0.0216	25.325	708.0	0.0216	25.718	708.0	0.0216
17	21.979	790.3	0.0216	22.745	696.2	0.0216	23.091	696.2	0.0216
18	15.442	737.8	0.0216	15.931	659.7	0.0216	16.157	659.7	0.0216

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F23 of Crystal River Unit 3

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	15.452	689.0	0.0220	15.491	689.0	0.0220	16.313	724.6	0.0221
2	23.092	724.8	0.0220	23.149	724.8	0.0220	24.311	755.9	0.0221
3	27.020	733.5	0.0220	27.083	733.5	0.0220	28.349	756.0	0.0221
4	28.509	734.2	0.0220	28.573	734.2	0.0220	29.847	750.4	0.0220
5	29.029	733.1	0.0219	29.092	733.1	0.0219	30.353	745.6	0.0220
6	29.229	731.3	0.0219	29.293	731.3	0.0219	30.536	741.7	0.0220
7	29.345	729.2	0.0219	29.408	729.2	0.0219	30.638	738.6	0.0219
8	29.450	727.0	0.0218	29.512	727.0	0.0218	30.732	735.9	0.0219
9	29.549	724.9	0.0218	29.611	724.9	0.0218	30.823	733.6	0.0219
10	29.628	723.1	0.0218	29.690	723.1	0.0218	30.897	731.8	0.0218
11	29.704	721.5	0.0218	29.766	721.5	0.0218	30.971	730.4	0.0218
12	29.794	720.0	0.0217	29.855	720.0	0.0217	31.060	729.3	0.0218
13	29.836	718.7	0.0217	29.898	718.7	0.0217	31.108	729.0	0.0217
14	29.751	717.7	0.0217	29.814	717.7	0.0217	31.033	729.6	0.0217
15	29.421	716.5	0.0216	29.484	716.5	0.0216	30.716	731.3	0.0217
16	28.407	714.2	0.0216	28.470	714.2	0.0216	29.705	734.0	0.0216
17	25.547	706.5	0.0216	25.606	706.5	0.0216	26.775	734.4	0.0216
18	17.829	672.0	0.0216	17.871	672.0	0.0216	18.707	704.6	0.0216

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F27 of Crystal River Unit 3

	Assembly Number F27								
	Statepoint 13 (BOC Cycle 6)			Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy6			96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6
1	0.0			1.291	1018.2	0.0234	6.866	1060.9	0.0233
2	0.0			2.251	1247.0	0.0233	10.875	1234.9	0.0232
3	0.0			2.873	1352.9	0.0232	12.921	1293.9	0.0231
4	0.0	Data not required.		3.205	1393.3	0.0231	13.714	1304.4	0.0230
5	0.0			3.395	1407.9	0.0230	14.017	1299.8	0.0229
6	0.0			3.525	1413.3	0.0228	14.156	1292.3	0.0228
7	0.0			3.627	1416.1	0.0227	14.255	1285.5	0.0227
8	0.0			3.716	1418.4	0.0226	14.350	1280.4	0.0226
9	0.0			3.789	1420.3	0.0225	14.440	1276.8	0.0225
10	0.0			3.842	1421.2	0.0224	14.510	1274.5	0.0224

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F27 of Crystal River Unit 3

11	0.0			3.868	1421.2	0.0223	14.557	1273.8	0.0223
12	0.0			3.863	1420.4	0.0222	14.582	1275.0	0.0222
13	0.0			3.823	1418.2	0.0221	14.581	1278.1	0.0221
14	0.0			3.744	1412.8	0.0220	14.536	1282.5	0.0220
15	0.0			3.609	1399.7	0.0219	14.374	1286.0	0.0219
16	0.0			3.359	1366.5	0.0218	13.850	1279.1	0.0218
17	0.0			2.848	1280.2	0.0217	12.302	1234.7	0.0217
18	0.0			1.720	1036.9	0.0216	7.932	1058.1	0.0216

	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7	274.9 Cy6	274.9 Cy6	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	7.120	1060.9	0.0233	10.806	922.6	0.0230	11.304	938.4	0.0230
2	11.262	1234.9	0.0232	17.114	1050.1	0.0230	17.863	1030.2	0.0230
3	13.367	1293.9	0.0231	20.435	1100.1	0.0229	21.297	1051.5	0.0229
4	14.174	1304.4	0.0230	21.839	1115.9	0.0228	22.735	1049.4	0.0228
5	14.477	1299.8	0.0229	22.430	1118.3	0.0227	23.329	1041.7	0.0227
6	14.611	1292.3	0.0228	22.696	1114.7	0.0226	23.589	1034.7	0.0226
7	14.704	1285.5	0.0227	22.842	1109.0	0.0225	23.728	1029.7	0.0225
8	14.792	1280.4	0.0226	22.945	1102.9	0.0224	23.825	1026.9	0.0224
9	14.872	1276.8	0.0225	23.023	1097.4	0.0223	23.899	1026.1	0.0223
10	14.932	1274.5	0.0224	23.078	1093.1	0.0222	23.953	1027.1	0.0223
11	14.966	1273.8	0.0223	23.110	1090.3	0.0221	23.987	1030.0	0.0222
12	14.978	1275.0	0.0222	23.119	1088.9	0.0220	24.002	1034.8	0.0221
13	14.964	1278.1	0.0221	23.087	1088.2	0.0220	23.978	1041.8	0.0220
14	14.911	1282.5	0.0220	22.959	1086.1	0.0219	23.859	1050.3	0.0219
15	14.743	1286.0	0.0219	22.597	1079.4	0.0218	23.499	1059.1	0.0218
16	14.210	1279.1	0.0218	21.631	1062.3	0.0217	22.515	1063.4	0.0217
17	12.635	1234.7	0.0217	19.105	1022.4	0.0216	19.911	1048.1	0.0217
18	8.162	1058.1	0.0216	12.341	897.5	0.0216	12.890	955.1	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	11.785	938.4	0.0230	14.333	956.1	0.0231	14.651	956.1	0.0231
2	18.581	1030.2	0.0230	22.258	1039.0	0.0230	22.704	1039.0	0.0230
3	22.113	1051.5	0.0229	26.215	1054.9	0.0229	26.702	1054.9	0.0229
4	23.574	1049.4	0.0228	27.753	1048.5	0.0228	28.244	1048.5	0.0228
5	24.164	1041.7	0.0227	28.316	1038.4	0.0227	28.801	1038.4	0.0227

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F27 of Crystal River Unit 3

6	24.413	1034.7	0.0226	28.520	1029.9	0.0226	28.999	1029.9	0.0226
7	24.540	1029.7	0.0225	28.612	1023.8	0.0225	29.087	1023.8	0.0225
8	24.627	1026.9	0.0224	28.678	1019.8	0.0224	29.152	1019.8	0.0224
9	24.694	1026.1	0.0223	28.738	1017.4	0.0223	29.211	1017.4	0.0223
10	24.742	1027.1	0.0223	28.793	1016.5	0.0222	29.267	1016.5	0.0222
11	24.775	1030.0	0.0222	28.844	1017.1	0.0222	29.320	1017.1	0.0222
12	24.791	1034.8	0.0221	28.895	1019.4	0.0221	29.375	1019.4	0.0221
13	24.771	1041.8	0.0220	28.927	1023.8	0.0220	29.413	1023.8	0.0220
14	24.658	1050.3	0.0219	28.879	1030.6	0.0219	29.373	1030.6	0.0219
15	24.300	1059.1	0.0218	28.582	1039.1	0.0218	29.086	1039.1	0.0218
16	23.302	1063.4	0.0217	27.580	1046.3	0.0217	28.088	1046.3	0.0217
17	20.631	1048.1	0.0217	24.648	1037.8	0.0217	25.133	1037.8	0.0217
18	13.385	955.1	0.0216	16.246	957.2	0.0216	16.602	957.2	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	15.011	956.1	0.0231	15.609	700.8	0.0221	15.888	700.8	0.0221
2	23.206	1039.0	0.0230	24.127	735.7	0.0221	24.547	735.7	0.0221
3	27.252	1054.9	0.0229	28.339	745.6	0.0221	28.826	745.6	0.0221
4	28.798	1048.5	0.0228	29.969	750.5	0.0220	30.484	750.5	0.0220
5	29.349	1038.4	0.0227	30.566	752.3	0.0220	31.093	752.3	0.0220
6	29.542	1029.9	0.0226	30.785	752.5	0.0220	31.318	752.5	0.0220
7	29.627	1023.8	0.0225	30.884	751.8	0.0219	31.419	751.8	0.0219
8	29.690	1019.8	0.0224	30.953	750.4	0.0219	31.487	750.4	0.0219
9	29.750	1017.4	0.0223	31.014	748.6	0.0219	31.546	748.6	0.0219
10	29.806	1016.5	0.0222	31.067	746.7	0.0218	31.597	746.7	0.0218
11	29.862	1017.1	0.0222	31.115	744.7	0.0218	31.643	744.7	0.0218
12	29.921	1019.4	0.0221	31.162	742.4	0.0218	31.686	742.4	0.0218
13	29.966	1023.8	0.0220	31.187	739.8	0.0217	31.707	739.8	0.0217
14	29.935	1030.6	0.0219	31.126	736.4	0.0217	31.639	736.4	0.0217
15	29.658	1039.1	0.0218	30.804	731.9	0.0216	31.305	731.9	0.0216
16	28.666	1046.3	0.0217	29.740	725.2	0.0216	30.217	725.2	0.0216
17	25.687	1037.8	0.0217	26.625	714.1	0.0216	27.050	714.1	0.0216
18	17.011	957.2	0.0216	17.631	682.5	0.0216	17.918	682.5	0.0216

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly F27 of Crystal River Unit 3

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	17.930	715.2	0.0221	17.979	715.2	0.0221	18.995	753.2	0.0222
2	27.490	746.2	0.0221	27.559	746.2	0.0221	28.948	774.9	0.0222
3	32.116	752.0	0.0221	32.191	752.0	0.0221	33.687	777.7	0.0222
4	33.868	752.7	0.0220	33.944	752.7	0.0220	35.443	774.7	0.0221
5	34.493	752.1	0.0220	34.568	752.1	0.0220	36.047	770.1	0.0221
6	34.706	750.5	0.0220	34.781	750.5	0.0220	36.240	766.0	0.0220
7	34.789	748.5	0.0219	34.863	748.5	0.0219	36.307	762.7	0.0220
8	34.839	746.5	0.0219	34.913	746.5	0.0219	36.345	759.9	0.0219
9	34.882	744.6	0.0219	34.955	744.6	0.0219	36.380	757.7	0.0219
10	34.922	742.8	0.0218	34.995	742.8	0.0218	36.414	755.8	0.0219
11	34.961	741.3	0.0218	35.034	741.3	0.0218	36.452	754.4	0.0218
12	35.002	740.0	0.0218	35.075	740.0	0.0218	36.494	753.5	0.0218
13	35.023	738.8	0.0217	35.096	738.8	0.0217	36.522	753.2	0.0218
14	34.953	737.4	0.0217	35.027	737.4	0.0217	36.466	754.0	0.0217
15	34.603	735.3	0.0217	34.678	735.3	0.0217	36.133	755.7	0.0217
16	33.447	731.6	0.0216	33.522	731.6	0.0216	34.984	757.1	0.0216
17	30.029	723.6	0.0216	30.100	723.6	0.0216	31.499	752.7	0.0216
18	20.025	696.4	0.0216	20.077	696.4	0.0216	21.120	732.2	0.0216

Table 4.1.8-8 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G4 of Crystal River Unit 3

	Assembly Number G4								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.063	1179.2	0.0239	5.775	1165.7	0.0239
2	0.0			7.919	1411.1	0.0238	8.996	1330.6	0.0238
3	0.0			9.697	1525.9	0.0236	10.953	1389.1	0.0236
4	0.0	Data not required.		10.545	1567.1	0.0235	11.859	1393.1	0.0235
5	0.0			10.935	1577.5	0.0233	12.259	1384.5	0.0233
6	0.0			11.127	1576.4	0.0232	12.447	1376.4	0.0232
7	0.0			11.241	1572.7	0.0230	12.556	1372.1	0.0230
8	0.0			11.325	1569.2	0.0229	12.639	1371.8	0.0229
9	0.0			11.388	1566.5	0.0227	12.703	1374.8	0.0228
10	0.0			11.421	1563.9	0.0226	12.740	1380.2	0.0226

Table 4.1.8-8 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G4 of Crystal River Unit 3

11	0.0			11.421	1561.3	0.0224	12.746	1387.7	0.0225
12	0.0			11.385	1558.6	0.0223	12.718	1397.6	0.0223
13	0.0			11.302	1555.2	0.0222	12.645	1409.7	0.0222
14	0.0			11.145	1548.8	0.0220	12.497	1422.5	0.0221
15	0.0			10.849	1533.0	0.0219	12.202	1435.2	0.0220
16	0.0			10.252	1494.2	0.0218	11.572	1439.1	0.0218
17	0.0			8.988	1401.5	0.0217	10.185	1401.9	0.0217
18	0.0			6.168	1176.5	0.0216	7.008	1218.7	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.470	1165.7	0.0239	10.040	1168.8	0.0239	10.479	1168.8	0.0239
2	10.032	1330.6	0.0238	15.227	1326.2	0.0237	15.843	1326.2	0.0237
3	12.146	1389.1	0.0236	18.010	1368.4	0.0236	18.689	1368.4	0.0236
4	13.091	1393.1	0.0235	19.088	1363.7	0.0234	19.774	1363.7	0.0234
5	13.489	1384.5	0.0233	19.460	1351.0	0.0233	20.139	1351.0	0.0233
6	13.664	1376.4	0.0232	19.586	1340.3	0.0231	20.259	1340.3	0.0231
7	13.761	1372.1	0.0230	19.653	1333.7	0.0230	20.321	1333.7	0.0230
8	13.836	1371.8	0.0229	19.722	1330.6	0.0229	20.390	1330.6	0.0229
9	13.895	1374.8	0.0228	19.796	1330.0	0.0227	20.467	1330.0	0.0227
10	13.930	1380.2	0.0226	19.858	1331.1	0.0226	20.531	1331.1	0.0226
11	13.935	1387.7	0.0225	19.901	1333.9	0.0225	20.579	1333.9	0.0225
12	13.909	1397.6	0.0223	19.928	1338.7	0.0223	20.610	1338.7	0.0223
13	13.840	1409.7	0.0222	19.929	1346.4	0.0222	20.620	1346.4	0.0222
14	13.698	1422.5	0.0221	19.874	1357.4	0.0221	20.576	1357.4	0.0221
15	13.403	1435.2	0.0220	19.660	1370.3	0.0219	20.374	1370.3	0.0219
16	12.748	1439.1	0.0218	18.982	1378.6	0.0218	19.700	1378.6	0.0218
17	11.255	1401.9	0.0217	17.074	1354.0	0.0217	17.757	1354.0	0.0217
18	7.762	1218.7	0.0216	11.993	1192.0	0.0216	12.503	1192.0	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	10.984	1168.8	0.0239	12.960	1033.7	0.0237	13.853	1033.7	0.0237
2	16.579	1326.2	0.0237	19.582	1156.7	0.0236	20.917	1156.7	0.0236
3	19.605	1368.4	0.0236	23.137	1209.0	0.0235	24.686	1209.0	0.0235
4	20.776	1363.7	0.0234	24.571	1231.0	0.0233	26.216	1231.0	0.0233
5	21.175	1351.0	0.0233	25.115	1241.0	0.0232	26.807	1241.0	0.0232

Table 4.1.8-8 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G4 of Crystal River Unit 3

6	21.302	1340.3	0.0231	25.329	1245.0	0.0230	27.044	1245.0	0.0230
7	21.356	1333.7	0.0230	25.439	1245.7	0.0229	27.166	1245.7	0.0229
8	21.408	1330.6	0.0229	25.525	1244.4	0.0228	27.259	1244.4	0.0228
9	21.468	1330.0	0.0227	25.606	1242.0	0.0226	27.345	1242.0	0.0226
10	21.532	1331.1	0.0226	25.682	1239.0	0.0225	27.423	1239.0	0.0225
11	21.597	1333.9	0.0225	25.748	1235.4	0.0224	27.490	1235.4	0.0224
12	21.663	1338.7	0.0223	25.796	1230.5	0.0222	27.536	1230.5	0.0222
13	21.718	1346.4	0.0222	25.803	1223.1	0.0221	27.532	1223.1	0.0221
14	21.713	1357.4	0.0221	25.710	1212.4	0.0220	27.418	1212.4	0.0220
15	21.523	1370.3	0.0219	25.383	1196.9	0.0219	27.052	1196.9	0.0219
16	20.808	1378.6	0.0218	24.450	1173.4	0.0218	26.045	1173.4	0.0218
17	18.723	1354.0	0.0217	21.960	1129.1	0.0217	23.396	1129.1	0.0217
18	13.198	1192.0	0.0216	15.368	999.3	0.0216	16.346	999.3	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	19.854	1036.6	0.0236	19.986	1036.6	0.0236	22.605	1030.3	0.0235
2	29.545	1140.5	0.0235	29.730	1140.5	0.0235	33.305	1104.7	0.0234
3	34.427	1175.3	0.0234	34.631	1175.3	0.0234	38.517	1131.8	0.0233
4	36.333	1183.8	0.0233	36.541	1183.8	0.0233	40.462	1127.5	0.0231
5	37.034	1186.4	0.0231	37.242	1186.4	0.0231	41.129	1117.2	0.0230
6	37.293	1185.0	0.0230	37.499	1185.0	0.0230	41.346	1107.6	0.0229
7	37.410	1182.0	0.0229	37.616	1182.0	0.0229	41.431	1100.0	0.0228
8	37.495	1178.6	0.0227	37.700	1178.6	0.0227	41.495	1093.9	0.0226
9	37.580	1175.4	0.0226	37.785	1175.4	0.0226	41.567	1089.0	0.0225
10	37.668	1172.8	0.0225	37.874	1172.8	0.0225	41.650	1085.1	0.0224
11	37.757	1170.7	0.0224	37.963	1170.7	0.0224	41.743	1082.3	0.0223
12	37.832	1168.9	0.0222	38.039	1168.9	0.0222	41.831	1080.8	0.0222
13	37.855	1166.7	0.0221	38.064	1166.7	0.0221	41.879	1081.3	0.0221
14	37.751	1163.2	0.0220	37.962	1163.2	0.0220	41.816	1084.5	0.0220
15	37.337	1156.4	0.0219	37.551	1156.4	0.0219	41.453	1090.1	0.0219
16	36.108	1142.2	0.0218	36.321	1142.2	0.0218	40.241	1094.4	0.0218
17	32.689	1113.4	0.0217	32.890	1113.4	0.0217	36.638	1078.5	0.0217
18	22.908	999.7	0.0216	23.055	999.7	0.0216	25.845	987.7	0.0216

Table 4.1.8-9 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G4a of Crystal River Unit 3

	Assembly Number G4a								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.063	1179.2	0.0239	5.775	1165.7	0.0239
2	0.0			7.919	1411.1	0.0238	8.996	1330.6	0.0238
3	0.0			9.697	1525.9	0.0236	10.953	1389.1	0.0236
4	0.0	Data not required.		10.545	1567.1	0.0235	11.859	1393.1	0.0235
5	0.0			10.935	1577.5	0.0233	12.259	1384.5	0.0233
6	0.0			11.127	1576.4	0.0232	12.447	1376.4	0.0232
7	0.0			11.241	1572.7	0.0230	12.556	1372.1	0.0230
8	0.0			11.325	1569.2	0.0229	12.639	1371.8	0.0229
9	0.0			11.388	1566.5	0.0227	12.703	1374.8	0.0228
10	0.0			11.421	1563.9	0.0226	12.740	1380.2	0.0226
11	0.0			11.421	1561.3	0.0224	12.746	1387.7	0.0225
12	0.0			11.385	1558.6	0.0223	12.718	1397.6	0.0223
13	0.0			11.302	1555.2	0.0222	12.645	1409.7	0.0222
14	0.0			11.145	1548.8	0.0220	12.497	1422.5	0.0221
15	0.0			10.849	1533.0	0.0219	12.202	1435.2	0.0220
16	0.0			10.252	1494.2	0.0218	11.572	1439.1	0.0218
17	0.0			8.988	1401.5	0.0217	10.185	1401.9	0.0217
18	0.0			6.168	1176.5	0.0216	7.008	1218.7	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.470	1165.7	0.0239	10.040	1168.8	0.0239	10.479	1168.8	0.0239
2	10.032	1330.6	0.0238	15.227	1326.2	0.0237	15.843	1326.2	0.0237
3	12.146	1389.1	0.0236	18.010	1368.4	0.0236	18.689	1368.4	0.0236
4	13.091	1393.1	0.0235	19.088	1363.7	0.0234	19.774	1363.7	0.0234
5	13.489	1384.5	0.0233	19.460	1351.0	0.0233	20.139	1351.0	0.0233
6	13.664	1376.4	0.0232	19.586	1340.3	0.0231	20.259	1340.3	0.0231
7	13.761	1372.1	0.0230	19.653	1333.7	0.0230	20.321	1333.7	0.0230
8	13.836	1371.8	0.0229	19.722	1330.6	0.0229	20.390	1330.6	0.0229
9	13.895	1374.8	0.0228	19.796	1330.0	0.0227	20.467	1330.0	0.0227
10	13.930	1380.2	0.0226	19.858	1331.1	0.0226	20.531	1331.1	0.0226
11	13.935	1387.7	0.0225	19.901	1333.9	0.0225	20.579	1333.9	0.0225
12	13.909	1397.6	0.0223	19.928	1338.7	0.0223	20.610	1338.7	0.0223

Table 4.1.8-9 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G4a of Crystal River Unit 3

13	13.840	1409.7	0.0222	19.929	1346.4	0.0222	20.620	1346.4	0.0222
14	13.698	1422.5	0.0221	19.874	1357.4	0.0221	20.576	1357.4	0.0221
15	13.403	1435.2	0.0220	19.660	1370.3	0.0219	20.374	1370.3	0.0219
16	12.748	1439.1	0.0218	18.982	1378.6	0.0218	19.700	1378.6	0.0218
17	11.255	1401.9	0.0217	17.074	1354.0	0.0217	17.757	1354.0	0.0217
18	7.762	1218.7	0.0216	11.993	1192.0	0.0216	12.503	1192.0	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 Cycle 9)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy9	402.3 Cy7+	402.3 Cy7+	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	10.966	1168.8	0.0239	14.156	1021.8	0.0236	15.452	1027.8	0.0236
2	16.532	1326.2	0.0237	21.398	1148.0	0.0235	23.313	1139.3	0.0235
3	19.451	1368.4	0.0236	25.195	1204.6	0.0234	27.402	1182.9	0.0234
4	20.545	1363.7	0.0234	26.714	1229.1	0.0233	29.036	1196.5	0.0232
5	20.903	1351.0	0.0233	27.295	1239.8	0.0231	29.660	1199.5	0.0231
6	21.016	1340.3	0.0231	27.526	1243.5	0.0230	29.906	1197.9	0.0230
7	21.076	1333.7	0.0230	27.647	1242.9	0.0229	30.029	1194.1	0.0228
8	21.146	1330.6	0.0229	27.743	1239.9	0.0227	30.122	1189.3	0.0227
9	21.224	1330.0	0.0227	27.831	1235.8	0.0226	30.206	1184.7	0.0226
10	21.293	1331.1	0.0226	27.905	1231.9	0.0225	30.279	1180.9	0.0225
11	21.344	1333.9	0.0225	27.965	1228.9	0.0224	30.343	1178.4	0.0224
12	21.382	1338.7	0.0223	28.002	1225.9	0.0222	30.386	1176.8	0.0222
13	21.400	1346.4	0.0222	27.979	1220.6	0.0221	30.364	1174.7	0.0221
14	21.368	1357.4	0.0221	27.844	1211.5	0.0220	30.220	1171.1	0.0220
15	21.180	1370.3	0.0219	27.469	1196.8	0.0219	29.814	1164.3	0.0219
16	20.512	1378.6	0.0218	26.468	1172.7	0.0218	28.735	1150.6	0.0218
17	18.530	1354.0	0.0217	23.821	1126.0	0.0217	25.882	1116.1	0.0217
18	13.083	1192.0	0.0216	16.618	994.1	0.0216	18.035	996.7	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	18.731	1033.9	0.0235						
2	28.017	1127.6	0.0234						
3	32.705	1156.3	0.0233	No additional statepoints.			No additional statepoints.		
4	34.525	1166.6	0.0232						
5	35.189	1164.5	0.0231						
6	35.427	1159.0	0.0229						
7	35.531	1153.1	0.0228						

Table 4.1.8-9 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G4a of Crystal River Unit 3

8	35.607	1147.7	0.0227						
9	35.681	1143.3	0.0226						
10	35.755	1140.2	0.0225						
11	35.835	1138.7	0.0223						
12	35.906	1138.6	0.0222						
13	35.914	1139.2	0.0221						
14	35.794	1139.8	0.0220						
15	35.384	1138.7	0.0219						
16	34.206	1130.2	0.0218						
17	30.951	1100.4	0.0217						
18	21.625	998.0	0.0216						

Table 4.1.8-10 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G6 of Crystal River Unit 3

	Assembly Number G6								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.147	1179.9	0.0239	5.851	1159.8	0.0239
2	0.0			8.057	1409.8	0.0238	9.122	1324.3	0.0238
3	0.0			9.996	1530.3	0.0237	11.248	1384.7	0.0236
4	0.0	Data not required.		10.972	1574.9	0.0235	12.287	1388.5	0.0235
5	0.0			11.436	1583.8	0.0233	12.762	1379.1	0.0233
6	0.0			11.660	1580.8	0.0232	12.982	1370.1	0.0232
7	0.0			11.774	1575.1	0.0230	13.089	1364.8	0.0230
8	0.0			11.839	1569.3	0.0229	13.149	1363.5	0.0229
9	0.0			11.880	1564.7	0.0227	13.189	1365.5	0.0228
10	0.0			11.912	1561.3	0.0226	13.223	1370.2	0.0226
11	0.0			11.935	1559.3	0.0224	13.253	1377.4	0.0225
12	0.0			11.944	1558.5	0.0223	13.272	1387.3	0.0223
13	0.0			11.914	1557.9	0.0222	13.256	1399.7	0.0222
14	0.0			11.793	1554.7	0.0220	13.147	1413.3	0.0221
15	0.0			11.484	1543.4	0.0219	12.840	1426.8	0.0220
16	0.0			10.795	1504.2	0.0218	12.117	1431.7	0.0218
17	0.0			9.358	1406.7	0.0217	10.551	1394.8	0.0217
18	0.0			6.405	1181.9	0.0216	7.241	1211.8	0.0216

Table 4.1.8-10 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G6 of Crystal River Unit 3

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.538	1159.8	0.0239	10.078	1164.5	0.0239	10.516	1164.5	0.0239
2	10.149	1324.3	0.0238	15.318	1323.1	0.0237	15.936	1323.1	0.0237
3	12.439	1384.7	0.0236	18.311	1366.3	0.0236	18.994	1366.3	0.0236
4	13.521	1388.5	0.0235	19.541	1360.7	0.0234	20.232	1360.7	0.0234
5	13.996	1379.1	0.0233	19.992	1347.0	0.0233	20.677	1347.0	0.0233
6	14.202	1370.1	0.0232	20.147	1335.7	0.0231	20.824	1335.7	0.0231
7	14.295	1364.8	0.0230	20.203	1328.6	0.0230	20.876	1328.6	0.0230
8	14.343	1363.5	0.0229	20.237	1324.9	0.0229	20.909	1324.9	0.0229
9	14.376	1365.5	0.0228	20.276	1323.8	0.0227	20.949	1323.8	0.0227
10	14.406	1370.2	0.0226	20.329	1324.6	0.0226	21.005	1324.6	0.0226
11	14.436	1377.4	0.0225	20.398	1327.2	0.0225	21.079	1327.2	0.0225
12	14.459	1387.3	0.0223	20.480	1332.0	0.0223	21.167	1332.0	0.0223
13	14.450	1399.7	0.0222	20.552	1339.8	0.0222	21.248	1339.8	0.0222
14	14.349	1413.3	0.0221	20.550	1351.1	0.0221	21.258	1351.1	0.0221
15	14.044	1426.8	0.0220	20.331	1364.5	0.0219	21.052	1364.5	0.0219
16	13.293	1431.7	0.0218	19.556	1374.3	0.0218	20.282	1374.3	0.0218
17	11.616	1394.8	0.0217	17.445	1351.8	0.0217	18.134	1351.8	0.0217
18	7.991	1211.8	0.0216	12.216	1189.8	0.0216	12.728	1189.8	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	10.984	1164.5	0.0239	12.960	1033.7	0.0237	13.853	1033.7	0.0237
2	16.579	1323.1	0.0237	19.582	1156.7	0.0236	20.917	1156.7	0.0236
3	19.605	1366.3	0.0236	23.137	1209.0	0.0235	24.686	1209.0	0.0235
4	20.776	1360.7	0.0234	24.571	1231.0	0.0233	26.216	1231.0	0.0233
5	21.175	1347.0	0.0233	25.115	1241.0	0.0232	26.807	1241.0	0.0232
6	21.302	1335.7	0.0231	25.329	1245.0	0.0230	27.044	1245.0	0.0230
7	21.356	1328.6	0.0230	25.439	1245.7	0.0229	27.166	1245.7	0.0229
8	21.408	1324.9	0.0229	25.525	1244.4	0.0228	27.259	1244.4	0.0228
9	21.468	1323.8	0.0227	25.606	1242.0	0.0226	27.345	1242.0	0.0226
10	21.532	1324.6	0.0226	25.682	1239.0	0.0225	27.423	1239.0	0.0225
11	21.597	1327.2	0.0225	25.748	1235.4	0.0224	27.490	1235.4	0.0224
12	21.663	1332.0	0.0223	25.796	1230.5	0.0222	27.536	1230.5	0.0222
13	21.718	1339.8	0.0222	25.803	1223.1	0.0221	27.532	1223.1	0.0221

Table 4.1.8-10 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G6 of Crystal River Unit 3

14	21.713	1351.1	0.0221	25.710	1212.4	0.0220	27.418	1212.4	0.0220
15	21.523	1364.5	0.0219	25.383	1196.9	0.0219	27.052	1196.9	0.0219
16	20.808	1374.3	0.0218	24.450	1173.4	0.0218	26.045	1173.4	0.0218
17	18.723	1351.8	0.0217	21.960	1129.1	0.0217	23.396	1129.1	0.0217
18	13.198	1189.8	0.0216	15.368	999.3	0.0216	16.346	999.3	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	19.854	1036.6	0.0236	19.986	1036.6	0.0236	22.605	1030.3	0.0235
2	29.545	1140.5	0.0235	29.730	1140.5	0.0235	33.305	1104.7	0.0234
3	34.427	1175.3	0.0234	34.631	1175.3	0.0234	38.517	1131.8	0.0233
4	36.333	1183.8	0.0233	36.541	1183.8	0.0233	40.462	1127.5	0.0231
5	37.034	1186.4	0.0231	37.242	1186.4	0.0231	41.129	1117.2	0.0230
6	37.293	1185.0	0.0230	37.499	1185.0	0.0230	41.346	1107.6	0.0229
7	37.410	1182.0	0.0229	37.616	1182.0	0.0229	41.431	1100.0	0.0228
8	37.495	1178.6	0.0227	37.700	1178.6	0.0227	41.495	1093.9	0.0226
9	37.580	1175.4	0.0226	37.785	1175.4	0.0226	41.567	1089.0	0.0225
10	37.668	1172.8	0.0225	37.874	1172.8	0.0225	41.650	1085.1	0.0224
11	37.757	1170.7	0.0224	37.963	1170.7	0.0224	41.743	1082.3	0.0223
12	37.832	1168.9	0.0222	38.039	1168.9	0.0222	41.831	1080.8	0.0222
13	37.855	1166.7	0.0221	38.064	1166.7	0.0221	41.879	1081.3	0.0221
14	37.751	1163.2	0.0220	37.962	1163.2	0.0220	41.816	1084.5	0.0220
15	37.337	1156.4	0.0219	37.551	1156.4	0.0219	41.453	1090.1	0.0219
16	36.108	1142.2	0.0218	36.321	1142.2	0.0218	40.241	1094.4	0.0218
17	32.689	1113.4	0.0217	32.890	1113.4	0.0217	36.638	1078.5	0.0217
18	22.908	999.7	0.0216	23.055	999.7	0.0216	25.845	987.7	0.0216

Table 4.1.8-11 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G6a of Crystal River Unit 3

	Assembly Number G6a								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.147	1179.9	0.0239	5.851	1159.8	0.0239
2	0.0			8.057	1409.8	0.0238	9.122	1324.3	0.0238
3	0.0			9.996	1530.3	0.0237	11.248	1384.7	0.0236
4	0.0	Data not required.		10.972	1574.9	0.0235	12.287	1388.5	0.0235

Table 4.1.8-11 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G6a of Crystal River Unit 3

5	0.0			11.436	1583.8	0.0233	12.762	1379.1	0.0233
6	0.0			11.660	1580.8	0.0232	12.982	1370.1	0.0232
7	0.0			11.774	1575.1	0.0230	13.089	1364.8	0.0230
8	0.0			11.839	1569.3	0.0229	13.149	1363.5	0.0229
9	0.0			11.880	1564.7	0.0227	13.189	1365.5	0.0228
10	0.0			11.912	1561.3	0.0226	13.223	1370.2	0.0226
11	0.0			11.935	1559.3	0.0224	13.253	1377.4	0.0225
12	0.0			11.944	1558.5	0.0223	13.272	1387.3	0.0223
13	0.0			11.914	1557.9	0.0222	13.256	1399.7	0.0222
14	0.0			11.793	1554.7	0.0220	13.147	1413.3	0.0221
15	0.0			11.484	1543.4	0.0219	12.840	1426.8	0.0220
16	0.0			10.795	1504.2	0.0218	12.117	1431.7	0.0218
17	0.0			9.358	1406.7	0.0217	10.551	1394.8	0.0217
18	0.0			6.405	1181.9	0.0216	7.241	1211.8	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.538	1159.8	0.0239	10.078	1164.5	0.0239	10.516	1164.5	0.0239
2	10.149	1324.3	0.0238	15.318	1323.1	0.0237	15.936	1323.1	0.0237
3	12.439	1384.7	0.0236	18.311	1366.3	0.0236	18.994	1366.3	0.0236
4	13.521	1388.5	0.0235	19.541	1360.7	0.0234	20.232	1360.7	0.0234
5	13.996	1379.1	0.0233	19.992	1347.0	0.0233	20.677	1347.0	0.0233
6	14.202	1370.1	0.0232	20.147	1335.7	0.0231	20.824	1335.7	0.0231
7	14.295	1364.8	0.0230	20.203	1328.6	0.0230	20.876	1328.6	0.0230
8	14.343	1363.5	0.0229	20.237	1324.9	0.0229	20.909	1324.9	0.0229
9	14.376	1365.5	0.0228	20.276	1323.8	0.0227	20.949	1323.8	0.0227
10	14.406	1370.2	0.0226	20.329	1324.6	0.0226	21.005	1324.6	0.0226
11	14.436	1377.4	0.0225	20.398	1327.2	0.0225	21.079	1327.2	0.0225
12	14.459	1387.3	0.0223	20.480	1332.0	0.0223	21.167	1332.0	0.0223
13	14.450	1399.7	0.0222	20.552	1339.8	0.0222	21.248	1339.8	0.0222
14	14.349	1413.3	0.0221	20.550	1351.1	0.0221	21.258	1351.1	0.0221
15	14.044	1426.8	0.0220	20.331	1364.5	0.0219	21.052	1364.5	0.0219
16	13.293	1431.7	0.0218	19.556	1374.3	0.0218	20.282	1374.3	0.0218
17	11.616	1394.8	0.0217	17.445	1351.8	0.0217	18.134	1351.8	0.0217
18	7.991	1211.8	0.0216	12.216	1189.8	0.0216	12.728	1189.8	0.0216

Table 4.1.8-11 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G6a of Crystal River Unit 3

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 Cycle 9)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy9	402.3 Cy7+	402.3 Cy7+	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	10.966	1164.5	0.0239	14.156	1021.8	0.0236	15.452	1027.8	0.0236
2	16.532	1323.1	0.0237	21.398	1148.0	0.0235	23.313	1139.3	0.0235
3	19.451	1366.3	0.0236	25.195	1204.6	0.0234	27.402	1182.9	0.0234
4	20.545	1360.7	0.0234	26.714	1229.1	0.0233	29.036	1196.5	0.0232
5	20.903	1347.0	0.0233	27.295	1239.8	0.0231	29.660	1199.5	0.0231
6	21.016	1335.7	0.0231	27.526	1243.5	0.0230	29.906	1197.9	0.0230
7	21.076	1328.6	0.0230	27.647	1242.9	0.0229	30.029	1194.1	0.0228
8	21.146	1324.9	0.0229	27.743	1239.9	0.0227	30.122	1189.3	0.0227
9	21.224	1323.8	0.0227	27.831	1235.8	0.0226	30.206	1184.7	0.0226
10	21.293	1324.6	0.0226	27.905	1231.9	0.0225	30.279	1180.9	0.0225
11	21.344	1327.2	0.0225	27.965	1228.9	0.0224	30.343	1178.4	0.0224
12	21.382	1332.0	0.0223	28.002	1225.9	0.0222	30.386	1176.8	0.0222
13	21.400	1339.8	0.0222	27.979	1220.6	0.0221	30.364	1174.7	0.0221
14	21.368	1351.1	0.0221	27.844	1211.5	0.0220	30.220	1171.1	0.0220
15	21.180	1364.5	0.0219	27.469	1196.8	0.0219	29.814	1164.3	0.0219
16	20.512	1374.3	0.0218	26.468	1172.7	0.0218	28.735	1150.6	0.0218
17	18.530	1351.8	0.0217	23.821	1126.0	0.0217	25.882	1116.1	0.0217
18	13.083	1189.8	0.0216	16.618	994.1	0.0216	18.035	996.7	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	18.731	1033.9	0.0235						
2	28.017	1127.6	0.0234						
3	32.705	1156.3	0.0233	No additional statepoints.			No additional statepoints.		
4	34.525	1166.6	0.0232						
5	35.189	1164.5	0.0231						
6	35.427	1159.0	0.0229						
7	35.531	1153.1	0.0228						
8	35.607	1147.7	0.0227						
9	35.681	1143.3	0.0226						
10	35.755	1140.2	0.0225						
11	35.835	1138.7	0.0223						
12	35.906	1138.6	0.0222						
13	35.914	1139.2	0.0221						

Table 4.1.8-11 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G6a of Crystal River Unit 3

14	35.794	1139.8	0.0220						
15	35.384	1138.7	0.0219						
16	34.206	1130.2	0.0218						
17	30.951	1100.4	0.0217						
18	21.625	998.0	0.0216						

Table 4.1.8-12 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G8 of Crystal River Unit 3

	Assembly Number G8								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			2.877	899.3	0.0228	3.270	928.0	0.0228
2	0.0			4.848	1086.0	0.0228	5.475	1070.9	0.0228
3	0.0			6.025	1175.8	0.0227	6.766	1118.7	0.0227
4	0.0	Data not required.		6.604	1209.6	0.0226	7.383	1127.5	0.0226
5	0.0			6.883	1218.9	0.0225	7.669	1123.9	0.0225
6	0.0			7.014	1218.1	0.0224	7.797	1118.6	0.0225
7	0.0			7.070	1213.7	0.0224	7.847	1115.0	0.0224
8	0.0			7.090	1208.7	0.0223	7.863	1113.7	0.0223
9	0.0			7.094	1204.1	0.0222	7.864	1114.6	0.0222
10	0.0			7.092	1200.7	0.0221	7.862	1117.3	0.0222
11	0.0			7.087	1198.5	0.0220	7.859	1121.8	0.0221
12	0.0			7.076	1197.2	0.0220	7.852	1128.2	0.0220
13	0.0			7.043	1195.9	0.0219	7.826	1136.3	0.0219
14	0.0			6.959	1192.3	0.0218	7.747	1145.9	0.0219
15	0.0			6.763	1181.6	0.0217	7.551	1154.1	0.0218
16	0.0			6.324	1152.6	0.0217	7.090	1152.0	0.0217
17	0.0			5.359	1079.4	0.0216	6.039	1115.1	0.0216
18	0.0			3.219	886.3	0.0216	3.652	957.1	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	3.650	928.0	0.0228	5.697	948.8	0.0229	5.957	948.8	0.0229
2	6.076	1070.9	0.0228	9.207	1081.5	0.0228	9.592	1081.5	0.0228
3	7.468	1118.7	0.0227	11.057	1125.6	0.0227	11.490	1125.6	0.0227
4	8.113	1127.5	0.0226	11.811	1129.4	0.0226	12.253	1129.4	0.0226

Table 4.1.8-12 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G8 of Crystal River Unit 3

5	8.400	1123.9	0.0225	12.094	1122.8	0.0226	12.533	1122.8	0.0226
6	8.520	1118.6	0.0225	12.185	1115.9	0.0225	12.620	1115.9	0.0225
7	8.562	1115.0	0.0224	12.203	1111.0	0.0224	12.635	1111.0	0.0224
8	8.569	1113.7	0.0223	12.198	1108.3	0.0223	12.629	1108.3	0.0223
9	8.565	1114.6	0.0222	12.192	1107.4	0.0222	12.623	1107.4	0.0222
10	8.559	1117.3	0.0222	12.195	1107.9	0.0222	12.628	1107.9	0.0222
11	8.555	1121.8	0.0221	12.211	1109.8	0.0221	12.646	1109.8	0.0221
12	8.549	1128.2	0.0220	12.236	1113.3	0.0220	12.675	1113.3	0.0220
13	8.526	1136.3	0.0219	12.257	1118.7	0.0219	12.701	1118.7	0.0219
14	8.451	1145.9	0.0219	12.235	1126.3	0.0219	12.686	1126.3	0.0219
15	8.253	1154.1	0.0218	12.081	1134.4	0.0218	12.540	1134.4	0.0218
16	7.773	1152.0	0.0217	11.566	1136.2	0.0217	12.025	1136.2	0.0217
17	6.650	1115.1	0.0216	10.124	1105.5	0.0216	10.552	1105.5	0.0216
18	4.044	957.1	0.0216	6.356	963.8	0.0216	6.650	963.8	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 Cycle 9)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy9	402.3 Cy7+	402.3 Cy7+	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	6.252	948.8	0.0229	9.527	1079.7	0.0237	10.850	1078.7	0.0237
2	10.028	1081.5	0.0228	15.134	1248.1	0.0236	17.123	1225.6	0.0236
3	11.980	1125.6	0.0227	18.042	1318.4	0.0235	20.340	1276.7	0.0234
4	12.753	1129.4	0.0226	19.255	1343.5	0.0234	21.668	1291.1	0.0233
5	13.031	1122.8	0.0226	19.753	1353.9	0.0232	22.208	1292.9	0.0232
6	13.114	1115.9	0.0225	19.956	1357.4	0.0231	22.422	1290.4	0.0230
7	13.127	1111.0	0.0224	20.034	1357.3	0.0229	22.502	1286.6	0.0229
8	13.120	1108.3	0.0223	20.063	1355.4	0.0228	22.530	1282.7	0.0228
9	13.115	1107.4	0.0222	20.080	1352.9	0.0227	22.546	1279.2	0.0226
10	13.122	1107.9	0.0222	20.110	1350.8	0.0225	22.580	1276.8	0.0225
11	13.143	1109.8	0.0221	20.172	1350.6	0.0224	22.654	1276.1	0.0224
12	13.176	1113.3	0.0220	20.246	1350.7	0.0223	22.744	1276.5	0.0223
13	13.208	1118.7	0.0219	20.258	1346.8	0.0222	22.763	1275.6	0.0222
14	13.201	1126.3	0.0219	20.150	1337.8	0.0220	22.648	1272.4	0.0220
15	13.063	1134.4	0.0218	19.808	1321.6	0.0219	22.275	1266.0	0.0219
16	12.549	1136.2	0.0217	18.915	1293.9	0.0218	21.297	1251.1	0.0218
17	11.043	1105.5	0.0216	16.643	1238.3	0.0217	18.796	1209.9	0.0217
18	6.988	963.8	0.0216	10.655	1066.7	0.0216	12.118	1062.8	0.0216

Table 4.1.8-12 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G8 of Crystal River Unit 3

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	14.189	1081.5	0.0236						
2	21.979	1198.7	0.0235						
3	25.823	1232.1	0.0234	No additional statepoints.			No additional statepoints.		
4	27.330	1235.1	0.0232						
5	27.899	1229.2	0.0231						
6	28.101	1222.0	0.0230						
7	28.161	1215.6	0.0229						
8	28.174	1210.4	0.0227						
9	28.185	1206.6	0.0226						
10	28.229	1204.1	0.0225						
11	28.333	1203.5	0.0224						
12	28.469	1204.5	0.0223						
13	28.529	1205.9	0.0221						
14	28.442	1207.5	0.0220						
15	28.067	1208.6	0.0219						
16	26.984	1204.6	0.0218						
17	24.054	1179.4	0.0217						
18	15.815	1065.0	0.0216						

Table 4.1.8-13 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G10 of Crystal River Unit 3

	Assembly Number G10								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.245	1175.0	0.0239	5.971	1160.2	0.0239
2	0.0			8.060	1406.4	0.0238	9.146	1327.7	0.0238
3	0.0			9.728	1524.5	0.0236	10.991	1390.4	0.0236
4	0.0	Data not required.		10.524	1568.6	0.0235	11.845	1397.2	0.0235
5	0.0			10.900	1580.9	0.0233	12.233	1390.0	0.0233
6	0.0			11.089	1580.6	0.0232	12.418	1382.5	0.0232
7	0.0			11.196	1577.0	0.0230	12.521	1378.5	0.0230
8	0.0			11.267	1573.2	0.0229	12.590	1378.2	0.0229
9	0.0			11.313	1570.0	0.0227	12.637	1381.0	0.0228

Table 4.1.8-13 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G10 of Crystal River Unit 3

10	0.0			11.333	1567.0	0.0226	12.661	1386.5	0.0226
11	0.0			11.326	1564.3	0.0224	12.660	1394.3	0.0225
12	0.0			11.290	1561.7	0.0223	12.632	1404.6	0.0224
13	0.0			11.213	1558.6	0.0222	12.565	1416.4	0.0222
14	0.0			11.066	1552.6	0.0220	12.429	1429.6	0.0221
15	0.0			10.784	1537.1	0.0219	12.148	1442.4	0.0220
16	0.0			10.204	1498.4	0.0218	11.537	1446.0	0.0218
17	0.0			8.969	1406.2	0.0217	10.179	1409.8	0.0217
18	0.0			6.174	1180.9	0.0216	7.024	1225.1	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.672	1160.2	0.0239	10.277	1163.2	0.0239	10.714	1163.2	0.0239
2	10.188	1327.7	0.0238	15.406	1323.1	0.0238	16.021	1323.1	0.0238
3	12.189	1390.4	0.0236	18.076	1369.4	0.0236	18.756	1369.4	0.0236
4	13.084	1397.2	0.0235	19.113	1367.2	0.0234	19.802	1367.2	0.0234
5	13.472	1390.0	0.0233	19.481	1355.5	0.0233	20.164	1355.5	0.0233
6	13.646	1382.5	0.0232	19.610	1345.4	0.0232	20.286	1345.4	0.0232
7	13.736	1378.5	0.0230	19.670	1338.9	0.0230	20.343	1338.9	0.0230
8	13.796	1378.2	0.0229	19.722	1335.7	0.0229	20.394	1335.7	0.0229
9	13.837	1381.0	0.0228	19.775	1335.0	0.0227	20.449	1335.0	0.0227
10	13.858	1386.5	0.0226	19.821	1336.2	0.0226	20.498	1336.2	0.0226
11	13.857	1394.3	0.0225	19.859	1339.2	0.0225	20.540	1339.2	0.0225
12	13.831	1404.6	0.0224	19.890	1344.4	0.0223	20.576	1344.4	0.0223
13	13.771	1416.4	0.0222	19.904	1352.4	0.0222	20.599	1352.4	0.0222
14	13.641	1429.6	0.0221	19.866	1363.7	0.0221	20.572	1363.7	0.0221
15	13.361	1442.4	0.0220	19.668	1376.1	0.0219	20.387	1376.1	0.0219
16	12.724	1446.0	0.0218	19.009	1384.0	0.0218	19.732	1384.0	0.0218
17	11.260	1409.8	0.0217	17.130	1360.0	0.0217	17.817	1360.0	0.0217
18	7.788	1225.1	0.0216	12.060	1197.2	0.0216	12.574	1197.2	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	11.207	1163.2	0.0239	13.133	1028.9	0.0237	14.016	1028.9	0.0237
2	16.714	1323.1	0.0238	19.633	1150.6	0.0236	20.951	1150.6	0.0236
3	19.521	1369.4	0.0236	22.970	1206.8	0.0235	24.507	1206.8	0.0235
4	20.576	1367.2	0.0234	24.297	1232.3	0.0233	25.938	1232.3	0.0233

Table 4.1.8-13 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G10 of Crystal River Unit 3

5	20.932	1355.5	0.0233	24.805	1243.7	0.0232	26.495	1243.7	0.0232
6	21.048	1345.4	0.0232	25.012	1248.4	0.0231	26.727	1248.4	0.0231
7	21.102	1338.9	0.0230	25.126	1249.7	0.0229	26.855	1249.7	0.0229
8	21.154	1335.7	0.0229	25.216	1249.1	0.0228	26.954	1249.1	0.0228
9	21.210	1335.0	0.0227	25.297	1247.3	0.0226	27.041	1247.3	0.0226
10	21.263	1336.2	0.0226	25.365	1244.9	0.0225	27.113	1244.9	0.0225
11	21.309	1339.2	0.0225	25.419	1242.1	0.0224	27.170	1242.1	0.0224
12	21.352	1344.4	0.0223	25.456	1239.0	0.0222	27.209	1239.0	0.0222
13	21.384	1352.4	0.0222	25.455	1234.3	0.0221	27.205	1234.3	0.0221
14	21.369	1363.7	0.0221	25.362	1225.0	0.0220	27.094	1225.0	0.0220
15	21.198	1376.1	0.0219	25.055	1209.1	0.0219	26.747	1209.1	0.0219
16	20.549	1384.0	0.0218	24.188	1183.8	0.0218	25.804	1183.8	0.0218
17	18.595	1360.0	0.0217	21.844	1138.4	0.0217	23.301	1138.4	0.0217
18	13.159	1197.2	0.0216	15.366	1009.5	0.0216	16.367	1009.5	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	20.034	1037.9	0.0237	20.167	1037.9	0.0237	22.817	1034.4	0.0236
2	29.628	1143.8	0.0236	29.816	1143.8	0.0236	33.463	1116.3	0.0235
3	34.379	1184.5	0.0235	34.589	1184.5	0.0235	38.592	1150.5	0.0234
4	36.243	1196.6	0.0233	36.458	1196.6	0.0233	40.517	1149.1	0.0232
5	36.931	1199.6	0.0232	37.146	1199.6	0.0232	41.176	1139.3	0.0231
6	37.195	1198.8	0.0230	37.409	1198.8	0.0230	41.401	1129.8	0.0230
7	37.328	1196.4	0.0229	37.541	1196.4	0.0229	41.504	1122.3	0.0228
8	37.430	1193.5	0.0228	37.643	1193.5	0.0228	41.587	1116.3	0.0227
9	37.527	1191.0	0.0226	37.739	1191.0	0.0226	41.675	1111.7	0.0226
10	37.620	1189.0	0.0225	37.834	1189.0	0.0225	41.768	1108.2	0.0225
11	37.714	1187.8	0.0224	37.928	1187.8	0.0224	41.870	1105.8	0.0223
12	37.809	1187.6	0.0223	38.025	1187.6	0.0223	41.987	1105.2	0.0222
13	37.868	1187.5	0.0221	38.086	1187.5	0.0221	42.082	1107.0	0.0221
14	37.788	1185.0	0.0220	38.008	1185.0	0.0220	42.049	1110.9	0.0220
15	37.388	1177.6	0.0219	37.611	1177.6	0.0219	41.701	1116.6	0.0219
16	36.190	1161.8	0.0218	36.412	1161.8	0.0218	40.510	1119.6	0.0218
17	32.867	1129.3	0.0217	33.076	1129.3	0.0217	36.975	1100.0	0.0217
18	23.138	1012.1	0.0216	23.291	1012.1	0.0216	26.184	1001.5	0.0216

Table 4.1.8-14 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G12 of Crystal River Unit 3

	Assembly Number G12								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.146	1184.9	0.0239	5.860	1166.2	0.0239
2	0.0			8.094	1420.6	0.0238	9.176	1332.3	0.0238
3	0.0			9.964	1538.4	0.0237	11.230	1390.1	0.0236
4	0.0	Data not required.		10.862	1579.3	0.0235	12.184	1392.3	0.0235
5	0.0			11.251	1584.6	0.0233	12.578	1380.8	0.0233
6	0.0			11.434	1580.4	0.0232	12.754	1370.9	0.0232
7	0.0			11.540	1575.1	0.0230	12.854	1365.8	0.0230
8	0.0			11.616	1570.5	0.0229	12.926	1365.0	0.0229
9	0.0			11.672	1566.9	0.0227	12.983	1367.5	0.0228
10	0.0			11.709	1564.0	0.0226	13.023	1372.4	0.0226
11	0.0			11.731	1561.7	0.0224	13.051	1379.6	0.0225
12	0.0			11.750	1560.9	0.0223	13.082	1389.9	0.0224
13	0.0			11.751	1562.2	0.0222	13.099	1404.3	0.0222
14	0.0			11.650	1560.1	0.0220	13.014	1418.7	0.0221
15	0.0			11.361	1548.8	0.0219	12.729	1432.3	0.0220
16	0.0			10.720	1511.3	0.0218	12.056	1437.2	0.0218
17	0.0			9.362	1416.3	0.0217	10.572	1402.6	0.0217
18	0.0			6.389	1186.3	0.0216	7.236	1219.0	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.557	1166.2	0.0239	10.137	1169.5	0.0239	10.579	1169.5	0.0239
2	10.219	1332.3	0.0238	15.441	1327.7	0.0237	16.062	1327.7	0.0237
3	12.432	1390.1	0.0236	18.333	1368.9	0.0236	19.018	1368.9	0.0236
4	13.425	1392.3	0.0235	19.454	1362.4	0.0234	20.144	1362.4	0.0234
5	13.812	1380.8	0.0233	19.793	1347.1	0.0233	20.473	1347.1	0.0233
6	13.972	1370.9	0.0232	19.889	1335.1	0.0231	20.560	1335.1	0.0231
7	14.058	1365.8	0.0230	19.938	1327.9	0.0230	20.605	1327.9	0.0230
8	14.120	1365.0	0.0229	19.990	1324.5	0.0229	20.657	1324.5	0.0229
9	14.171	1367.5	0.0228	20.051	1323.6	0.0227	20.719	1323.6	0.0227
10	14.208	1372.4	0.0226	20.113	1324.5	0.0226	20.784	1324.5	0.0226
11	14.236	1379.6	0.0225	20.179	1327.0	0.0225	20.854	1327.0	0.0225
12	14.271	1389.9	0.0224	20.277	1332.0	0.0223	20.959	1332.0	0.0223

Table 4.1.8-14 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G12 of Crystal River Unit 3

13	14.300	1404.3	0.0222	20.407	1341.4	0.0222	21.099	1341.4	0.0222
14	14.225	1418.7	0.0221	20.442	1353.7	0.0221	21.148	1353.7	0.0221
15	13.941	1432.3	0.0220	20.248	1366.9	0.0219	20.967	1366.9	0.0219
16	13.243	1437.2	0.0218	19.530	1376.3	0.0218	20.255	1376.3	0.0218
17	11.652	1402.6	0.0217	17.521	1354.4	0.0217	18.210	1354.4	0.0217
18	7.997	1219.0	0.0216	12.260	1194.2	0.0216	12.775	1194.2	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	11.067	1169.5	0.0239	12.815	989.7	0.0235	13.617	989.7	0.0235
2	16.754	1327.7	0.0237	19.456	1108.4	0.0234	20.672	1108.4	0.0234
3	19.784	1368.9	0.0236	23.012	1160.3	0.0233	24.439	1160.3	0.0233
4	20.919	1362.4	0.0234	24.425	1184.3	0.0232	25.951	1184.3	0.0232
5	21.238	1347.1	0.0233	24.904	1195.9	0.0231	26.480	1195.9	0.0231
6	21.317	1335.1	0.0231	25.083	1201.1	0.0229	26.684	1201.1	0.0229
7	21.358	1327.9	0.0230	25.188	1202.6	0.0228	26.802	1202.6	0.0228
8	21.410	1324.5	0.0229	25.279	1201.8	0.0227	26.902	1201.8	0.0227
9	21.475	1323.6	0.0227	25.368	1199.6	0.0226	26.995	1199.6	0.0226
10	21.543	1324.5	0.0226	25.448	1196.9	0.0224	27.078	1196.9	0.0224
11	21.618	1327.0	0.0225	25.528	1193.7	0.0223	27.159	1193.7	0.0223
12	21.729	1332.0	0.0223	25.632	1190.0	0.0222	27.264	1190.0	0.0222
13	21.882	1341.4	0.0222	25.749	1184.3	0.0221	27.377	1184.3	0.0221
14	21.945	1353.7	0.0221	25.735	1175.1	0.0220	27.347	1175.1	0.0220
15	21.780	1366.9	0.0219	25.436	1160.6	0.0219	27.012	1160.6	0.0219
16	21.074	1376.3	0.0218	24.508	1137.0	0.0218	26.010	1137.0	0.0218
17	18.991	1354.4	0.0217	22.016	1092.5	0.0217	23.360	1092.5	0.0217
18	13.361	1194.2	0.0216	15.367	968.2	0.0216	16.274	968.2	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	19.148	1002.8	0.0235	19.272	1002.8	0.0235	21.764	1014.9	0.0235
2	28.711	1102.9	0.0234	28.886	1102.9	0.0234	32.329	1087.4	0.0234
3	33.585	1137.7	0.0233	33.781	1137.7	0.0233	37.555	1119.1	0.0232
4	35.489	1147.0	0.0232	35.689	1147.0	0.0232	39.514	1117.7	0.0231
5	36.138	1148.4	0.0230	36.339	1148.4	0.0230	40.140	1109.1	0.0230
6	36.371	1147.1	0.0229	36.571	1147.1	0.0229	40.339	1100.7	0.0229
7	36.492	1144.5	0.0228	36.691	1144.5	0.0228	40.435	1094.0	0.0228

Table 4.1.8-14 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G12 of Crystal River Unit 3

8	36.590	1141.5	0.0227	36.789	1141.5	0.0227	40.517	1088.7	0.0226
9	36.687	1138.7	0.0225	36.886	1138.7	0.0225	40.607	1084.6	0.0225
10	36.785	1136.4	0.0224	36.984	1136.4	0.0224	40.706	1081.4	0.0224
11	36.896	1134.9	0.0223	37.096	1134.9	0.0223	40.827	1079.3	0.0223
12	37.048	1134.2	0.0222	37.249	1134.2	0.0222	40.999	1078.5	0.0222
13	37.213	1133.4	0.0221	37.417	1133.4	0.0221	41.196	1079.6	0.0221
14	37.212	1131.1	0.0220	37.418	1131.1	0.0220	41.238	1082.9	0.0220
15	36.838	1124.9	0.0219	37.047	1124.9	0.0219	40.914	1088.5	0.0219
16	35.612	1112.0	0.0218	35.819	1112.0	0.0218	39.699	1092.1	0.0218
17	32.192	1083.4	0.0217	32.387	1083.4	0.0217	36.084	1074.4	0.0217
18	22.472	975.3	0.0216	22.614	975.3	0.0216	25.349	983.7	0.0216

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G14 of Crystal River Unit 3

	Assembly Number G14								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			4.498	1084.1	0.0236	5.101	1084.8	0.0235
2	0.0			7.338	1320.8	0.0235	8.271	1239.9	0.0234
3	0.0			9.057	1432.6	0.0234	10.149	1296.8	0.0233
4	0.0	Data not required.		9.914	1473.0	0.0232	11.058	1303.1	0.0232
5	0.0			10.335	1482.8	0.0231	11.488	1295.9	0.0231
6	0.0			10.540	1480.5	0.0230	11.689	1288.2	0.0229
7	0.0			10.640	1474.5	0.0228	11.782	1283.4	0.0228
8	0.0			10.689	1468.1	0.0227	11.826	1281.9	0.0227
9	0.0			10.715	1462.8	0.0226	11.850	1283.3	0.0226
10	0.0			10.734	1459.1	0.0224	11.869	1287.1	0.0225
11	0.0			10.749	1457.2	0.0223	11.889	1293.2	0.0223
12	0.0			10.758	1456.9	0.0222	11.906	1301.8	0.0222
13	0.0			10.737	1457.2	0.0221	11.897	1313.1	0.0221
14	0.0			10.640	1455.1	0.0220	11.811	1326.7	0.0220
15	0.0			10.376	1444.2	0.0219	11.551	1340.1	0.0219
16	0.0			9.760	1410.5	0.0218	10.908	1343.4	0.0218
17	0.0			8.394	1321.7	0.0217	9.430	1304.4	0.0217
18	0.0			5.416	1094.7	0.0216	6.122	1140.7	0.0216

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G14 of Crystal River Unit 3

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	5.685	1084.8	0.0235	8.736	1096.9	0.0235	9.113	1096.9	0.0235
2	9.164	1239.9	0.0234	13.684	1242.6	0.0234	14.225	1242.6	0.0234
3	11.182	1296.8	0.0233	16.309	1288.4	0.0233	16.911	1288.4	0.0233
4	12.128	1303.1	0.0232	17.388	1287.3	0.0232	17.998	1287.3	0.0232
5	12.558	1295.9	0.0231	17.802	1276.5	0.0230	18.407	1276.5	0.0230
6	12.747	1288.2	0.0229	17.948	1266.8	0.0229	18.547	1266.8	0.0229
7	12.827	1283.4	0.0228	17.995	1260.4	0.0228	18.591	1260.4	0.0228
8	12.860	1281.9	0.0227	18.013	1257.0	0.0227	18.608	1257.0	0.0227
9	12.876	1283.3	0.0226	18.031	1255.9	0.0226	18.626	1255.9	0.0226
10	12.891	1287.1	0.0225	18.062	1256.5	0.0225	18.660	1256.5	0.0225
11	12.911	1293.2	0.0223	18.114	1258.8	0.0223	18.716	1258.8	0.0223
12	12.930	1301.8	0.0222	18.183	1263.1	0.0222	18.790	1263.1	0.0222
13	12.927	1313.1	0.0221	18.250	1270.1	0.0221	18.865	1270.1	0.0221
14	12.849	1326.7	0.0220	18.258	1280.3	0.0220	18.883	1280.3	0.0220
15	12.591	1340.1	0.0219	18.077	1292.6	0.0219	18.715	1292.6	0.0219
16	11.926	1343.4	0.0218	17.393	1300.1	0.0218	18.035	1300.1	0.0218
17	10.353	1304.4	0.0217	15.439	1275.3	0.0217	16.047	1275.3	0.0217
18	6.757	1140.7	0.0216	10.389	1128.2	0.0216	10.837	1128.2	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	9.539	1096.9	0.0235	10.827	886.6	0.0230	11.417	886.6	0.0230
2	14.835	1242.6	0.0234	16.876	996.0	0.0229	17.791	996.0	0.0229
3	17.588	1288.4	0.0233	20.054	1038.3	0.0228	21.139	1038.3	0.0228
4	18.686	1287.3	0.0232	21.375	1056.2	0.0227	22.538	1056.2	0.0227
5	19.090	1276.5	0.0230	21.905	1064.3	0.0227	23.104	1064.3	0.0227
6	19.225	1266.8	0.0229	22.117	1067.4	0.0226	23.334	1067.4	0.0226
7	19.266	1260.4	0.0228	22.206	1068.1	0.0225	23.432	1068.1	0.0225
8	19.283	1257.0	0.0227	22.252	1067.3	0.0224	23.484	1067.3	0.0224
9	19.303	1255.9	0.0226	22.290	1065.6	0.0223	23.524	1065.6	0.0223
10	19.340	1256.5	0.0225	22.334	1063.3	0.0222	23.569	1063.3	0.0222
11	19.399	1258.8	0.0223	22.392	1060.4	0.0221	23.627	1060.4	0.0221
12	19.479	1263.1	0.0222	22.460	1056.9	0.0220	23.694	1056.9	0.0220
13	19.563	1270.1	0.0221	22.512	1052.3	0.0219	23.742	1052.3	0.0219

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G14 of Crystal River Unit 3

14	19.593	1280.3	0.0220	22.482	1045.1	0.0219	23.698	1045.1	0.0219
15	19.437	1292.6	0.0219	22.221	1033.8	0.0218	23.409	1033.8	0.0218
16	18.763	1300.1	0.0218	21.364	1014.9	0.0217	22.494	1014.9	0.0217
17	16.739	1275.3	0.0217	18.995	978.6	0.0216	19.994	978.6	0.0216
18	11.351	1128.2	0.0216	12.799	869.0	0.0216	13.454	869.0	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	15.560	903.9	0.0230	15.656	903.9	0.0230	17.593	942.3	0.0230
2	23.919	995.3	0.0229	24.055	995.3	0.0229	26.765	1003.8	0.0229
3	28.139	1024.0	0.0228	28.291	1024.0	0.0228	31.266	1012.8	0.0228
4	29.831	1030.4	0.0227	29.987	1030.4	0.0227	33.000	1009.6	0.0228
5	30.478	1029.6	0.0226	30.634	1029.6	0.0226	33.624	1001.5	0.0227
6	30.718	1026.8	0.0225	30.873	1026.8	0.0225	33.836	994.2	0.0226
7	30.810	1023.7	0.0225	30.965	1023.7	0.0225	33.907	988.6	0.0225
8	30.855	1020.8	0.0224	31.009	1020.8	0.0224	33.939	984.5	0.0224
9	30.892	1018.1	0.0223	31.046	1018.1	0.0223	33.971	981.3	0.0223
10	30.943	1015.8	0.0222	31.097	1015.8	0.0222	34.021	978.7	0.0222
11	31.015	1013.9	0.0221	31.170	1013.9	0.0221	34.100	976.9	0.0221
12	31.107	1012.4	0.0220	31.263	1012.4	0.0220	34.205	976.1	0.0221
13	31.186	1011.2	0.0219	31.343	1011.2	0.0219	34.306	976.8	0.0220
14	31.161	1009.6	0.0219	31.320	1009.6	0.0219	34.315	979.5	0.0219
15	30.844	1006.6	0.0218	31.004	1006.6	0.0218	34.036	984.2	0.0218
16	29.754	999.0	0.0217	29.914	999.0	0.0217	32.954	987.9	0.0217
17	26.634	975.7	0.0216	26.785	975.7	0.0216	29.673	979.3	0.0217
18	18.024	884.2	0.0216	18.131	884.2	0.0216	20.236	916.8	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 Cycle 9)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	18.003	942.3	0.0230	18.811	669.8	0.0221	19.161	678.3	0.0221
2	27.328	1003.8	0.0229	28.589	697.1	0.0220	29.115	703.6	0.0221
3	31.878	1012.8	0.0228	33.389	710.2	0.0220	33.998	715.4	0.0220
4	33.616	1009.6	0.0228	35.250	717.4	0.0220	35.890	720.0	0.0220
5	34.235	1001.5	0.0227	35.932	720.2	0.0220	36.582	720.7	0.0220
6	34.441	994.2	0.0226	36.169	720.8	0.0219	36.821	719.8	0.0219
7	34.506	988.6	0.0225	36.248	720.4	0.0219	36.899	718.4	0.0219
8	34.533	984.5	0.0224	36.279	719.3	0.0219	36.926	716.9	0.0219

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G14 of Crystal River Unit 3

9	34.558	981.3	0.0223	36.302	718.0	0.0218	36.946	715.4	0.0218
10	34.599	978.7	0.0222	36.336	716.5	0.0218	36.979	713.9	0.0218
11	34.667	976.9	0.0221	36.394	714.8	0.0218	37.034	712.5	0.0218
12	34.760	976.1	0.0221	36.473	713.0	0.0218	37.111	711.2	0.0218
13	34.850	976.8	0.0220	36.542	710.8	0.0217	37.178	709.9	0.0217
14	34.852	979.5	0.0219	36.511	707.9	0.0217	37.142	708.3	0.0217
15	34.572	984.2	0.0218	36.175	703.6	0.0217	36.797	705.9	0.0217
16	33.487	987.9	0.0217	34.994	696.4	0.0216	35.593	701.0	0.0217
17	30.182	979.3	0.0217	31.498	683.3	0.0216	32.037	689.4	0.0216
18	20.612	916.8	0.0216	21.478	657.2	0.0216	21.845	664.9	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	20.100	692.3	0.0221						
2	30.485	714.5	0.0221						
3	35.545	725.1	0.0220	No additional statepoints.			No additional statepoints.		
4	37.485	726.6	0.0220						
5	38.180	725.0	0.0220						
6	38.408	722.7	0.0219						
7	38.475	720.5	0.0219						
8	38.494	718.5	0.0219						
9	38.506	716.9	0.0219						
10	38.534	715.5	0.0218						
11	38.586	714.4	0.0218						
12	38.664	713.5	0.0218						
13	38.734	712.8	0.0217						
14	38.701	712.5	0.0217						
15	38.352	711.9	0.0217						
16	37.119	709.6	0.0217						
17	33.444	700.6	0.0216						
18	22.833	677.1	0.0216						

Table 4.1.8-16 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G19 of Crystal River Unit 3

	Assembly Number G19								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.077	1153.1	0.0238	5.761	1137.9	0.0238
2	0.0			7.979	1387.6	0.0237	9.015	1300.9	0.0237
3	0.0			9.816	1508.4	0.0236	11.030	1362.1	0.0235
4	0.0	Data not required.		10.735	1552.1	0.0234	12.008	1366.4	0.0234
5	0.0			11.157	1559.8	0.0233	12.435	1355.6	0.0233
6	0.0			11.359	1555.9	0.0231	12.630	1345.9	0.0231
7	0.0			11.465	1549.7	0.0230	12.729	1340.6	0.0230
8	0.0			11.525	1543.6	0.0228	12.784	1339.2	0.0228
9	0.0			11.561	1538.6	0.0227	12.819	1341.0	0.0227
10	0.0			11.591	1535.1	0.0226	12.850	1345.3	0.0226
11	0.0			11.625	1533.4	0.0224	12.890	1352.1	0.0225
12	0.0			11.677	1534.7	0.0223	12.955	1362.3	0.0223
13	0.0			11.727	1538.9	0.0222	13.024	1377.6	0.0222
14	0.0			11.674	1539.8	0.0220	12.991	1394.0	0.0221
15	0.0			11.413	1530.0	0.0219	12.737	1408.7	0.0219
16	0.0			10.761	1494.1	0.0218	12.056	1414.5	0.0218
17	0.0			9.342	1399.8	0.0217	10.513	1378.3	0.0217
18	0.0			6.298	1170.9	0.0216	7.114	1199.7	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.424	1137.9	0.0238	9.852	1144.1	0.0238	10.273	1144.1	0.0238
2	10.011	1300.9	0.0237	15.023	1300.6	0.0237	15.620	1300.6	0.0237
3	12.183	1362.1	0.0235	17.864	1345.8	0.0235	18.526	1345.8	0.0235
4	13.200	1366.4	0.0234	19.020	1341.5	0.0234	19.690	1341.5	0.0234
5	13.623	1355.6	0.0233	19.402	1326.9	0.0232	20.063	1326.9	0.0232
6	13.802	1345.9	0.0231	19.522	1315.2	0.0231	20.175	1315.2	0.0231
7	13.888	1340.6	0.0230	19.570	1308.1	0.0229	20.218	1308.1	0.0229
8	13.931	1339.2	0.0228	19.598	1304.6	0.0228	20.246	1304.6	0.0228
9	13.958	1341.0	0.0227	19.630	1303.4	0.0227	20.279	1303.4	0.0227
10	13.985	1345.3	0.0226	19.677	1304.1	0.0226	20.328	1304.1	0.0226
11	14.025	1352.1	0.0225	19.754	1306.5	0.0224	20.410	1306.5	0.0224
12	14.095	1362.3	0.0223	19.892	1311.5	0.0223	20.554	1311.5	0.0223

Table 4.1.8-16 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G19 of Crystal River Unit 3

13	14.179	1377.6	0.0222	20.083	1321.1	0.0222	20.757	1321.1	0.0222
14	14.158	1394.0	0.0221	20.181	1333.5	0.0221	20.869	1333.5	0.0221
15	13.908	1408.7	0.0219	20.027	1347.7	0.0219	20.729	1347.7	0.0219
16	13.204	1414.5	0.0218	19.311	1357.8	0.0218	20.019	1357.8	0.0218
17	11.558	1378.3	0.0217	17.259	1336.1	0.0217	17.932	1336.1	0.0217
18	7.846	1199.7	0.0216	11.974	1178.3	0.0216	12.475	1178.3	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	10.743	1144.1	0.0238	12.672	1020.8	0.0236	13.539	1020.8	0.0236
2	16.287	1300.6	0.0237	19.228	1143.5	0.0235	20.526	1143.5	0.0235
3	19.265	1345.8	0.0235	22.714	1191.7	0.0234	24.215	1191.7	0.0234
4	20.438	1341.5	0.0234	24.126	1210.1	0.0232	25.712	1210.1	0.0232
5	20.803	1326.9	0.0232	24.620	1218.2	0.0231	26.246	1218.2	0.0231
6	20.907	1315.2	0.0231	24.801	1221.0	0.0230	26.446	1221.0	0.0230
7	20.948	1308.1	0.0229	24.889	1221.0	0.0228	26.544	1221.0	0.0228
8	20.975	1304.6	0.0228	24.948	1219.6	0.0227	26.609	1219.6	0.0227
9	21.009	1303.4	0.0227	25.003	1217.4	0.0226	26.667	1217.4	0.0226
10	21.062	1304.1	0.0226	25.070	1214.7	0.0224	26.737	1214.7	0.0224
11	21.149	1306.5	0.0224	25.163	1211.6	0.0223	26.832	1211.6	0.0223
12	21.300	1311.5	0.0223	25.301	1206.3	0.0222	26.969	1206.3	0.0222
13	21.516	1321.1	0.0222	25.465	1196.8	0.0221	27.120	1196.8	0.0221
14	21.642	1333.5	0.0221	25.497	1184.0	0.0220	27.128	1184.0	0.0220
15	21.518	1347.7	0.0219	25.232	1167.7	0.0219	26.823	1167.7	0.0219
16	20.816	1357.8	0.0218	24.310	1144.5	0.0218	25.829	1144.5	0.0218
17	18.693	1336.1	0.0217	21.782	1101.5	0.0217	23.144	1101.5	0.0217
18	13.045	1178.3	0.0216	15.096	976.9	0.0216	16.017	976.9	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	19.339	1022.9	0.0235	19.468	1022.9	0.0235	22.003	1019.7	0.0234
2	28.860	1123.6	0.0234	29.038	1123.6	0.0234	32.487	1086.3	0.0233
3	33.582	1155.1	0.0233	33.778	1155.1	0.0233	37.507	1110.2	0.0232
4	35.393	1160.3	0.0232	35.592	1160.3	0.0232	39.341	1104.2	0.0231
5	36.006	1159.5	0.0230	36.204	1159.5	0.0230	39.913	1093.7	0.0229
6	36.210	1156.8	0.0229	36.407	1156.8	0.0229	40.074	1084.2	0.0228
7	36.293	1153.1	0.0228	36.489	1153.1	0.0228	40.124	1076.7	0.0227

Table 4.1.8-16 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G19 of Crystal River Unit 3

8	36.345	1149.5	0.0227	36.540	1149.5	0.0227	40.153	1070.8	0.0226
9	36.400	1146.3	0.0225	36.594	1146.3	0.0225	40.196	1066.2	0.0225
10	36.478	1143.6	0.0224	36.673	1143.6	0.0224	40.270	1062.5	0.0224
11	36.596	1141.5	0.0223	36.792	1141.5	0.0223	40.391	1059.7	0.0223
12	36.758	1139.1	0.0222	36.954	1139.1	0.0222	40.563	1057.9	0.0222
13	36.914	1135.2	0.0221	37.112	1135.2	0.0221	40.737	1057.2	0.0221
14	36.911	1130.3	0.0220	37.110	1130.3	0.0220	40.766	1059.0	0.0220
15	36.549	1123.5	0.0219	36.750	1123.5	0.0219	40.448	1063.7	0.0219
16	35.344	1111.6	0.0218	35.545	1111.6	0.0218	39.260	1067.7	0.0218
17	31.931	1085.3	0.0217	32.121	1085.3	0.0217	35.680	1053.5	0.0217
18	22.213	979.1	0.0216	22.352	979.1	0.0216	25.007	972.4	0.0216

Table 4.1.8-17 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G19a of Crystal River Unit 3

	Assembly Number G19a								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.077	1153.1	0.0238	5.761	1137.9	0.0238
2	0.0			7.979	1387.6	0.0237	9.015	1300.9	0.0237
3	0.0			9.816	1508.4	0.0236	11.030	1362.1	0.0235
4	0.0	Data not required.		10.735	1552.1	0.0234	12.008	1366.4	0.0234
5	0.0			11.157	1559.8	0.0233	12.435	1355.6	0.0233
6	0.0			11.359	1555.9	0.0231	12.630	1345.9	0.0231
7	0.0			11.465	1549.7	0.0230	12.729	1340.6	0.0230
8	0.0			11.525	1543.6	0.0228	12.784	1339.2	0.0228
9	0.0			11.561	1538.6	0.0227	12.819	1341.0	0.0227
10	0.0			11.591	1535.1	0.0226	12.850	1345.3	0.0226
11	0.0			11.625	1533.4	0.0224	12.890	1352.1	0.0225
12	0.0			11.677	1534.7	0.0223	12.955	1362.3	0.0223
13	0.0			11.727	1538.9	0.0222	13.024	1377.6	0.0222
14	0.0			11.674	1539.8	0.0220	12.991	1394.0	0.0221
15	0.0			11.413	1530.0	0.0219	12.737	1408.7	0.0219
16	0.0			10.761	1494.1	0.0218	12.056	1414.5	0.0218
17	0.0			9.342	1399.8	0.0217	10.513	1378.3	0.0217
18	0.0			6.298	1170.9	0.0216	7.114	1199.7	0.0216

Table 4.1.8-17 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G19a of Crystal River Unit 3

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.424	1137.9	0.0238	9.852	1144.1	0.0238	10.273	1144.1	0.0238
2	10.011	1300.9	0.0237	15.023	1300.6	0.0237	15.620	1300.6	0.0237
3	12.183	1362.1	0.0235	17.864	1345.8	0.0235	18.526	1345.8	0.0235
4	13.200	1366.4	0.0234	19.020	1341.5	0.0234	19.690	1341.5	0.0234
5	13.623	1355.6	0.0233	19.402	1326.9	0.0232	20.063	1326.9	0.0232
6	13.802	1345.9	0.0231	19.522	1315.2	0.0231	20.175	1315.2	0.0231
7	13.888	1340.6	0.0230	19.570	1308.1	0.0229	20.218	1308.1	0.0229
8	13.931	1339.2	0.0228	19.598	1304.6	0.0228	20.246	1304.6	0.0228
9	13.958	1341.0	0.0227	19.630	1303.4	0.0227	20.279	1303.4	0.0227
10	13.985	1345.3	0.0226	19.677	1304.1	0.0226	20.328	1304.1	0.0226
11	14.025	1352.1	0.0225	19.754	1306.5	0.0224	20.410	1306.5	0.0224
12	14.095	1362.3	0.0223	19.892	1311.5	0.0223	20.554	1311.5	0.0223
13	14.179	1377.6	0.0222	20.083	1321.1	0.0222	20.757	1321.1	0.0222
14	14.158	1394.0	0.0221	20.181	1333.5	0.0221	20.869	1333.5	0.0221
15	13.908	1408.7	0.0219	20.027	1347.7	0.0219	20.729	1347.7	0.0219
16	13.204	1414.5	0.0218	19.311	1357.8	0.0218	20.019	1357.8	0.0218
17	11.558	1378.3	0.0217	17.259	1336.1	0.0217	17.932	1336.1	0.0217
18	7.846	1199.7	0.0216	11.974	1178.3	0.0216	12.475	1178.3	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	10.746	1144.1	0.0238	12.668	1031.5	0.0237	13.548	1031.5	0.0237
2	16.290	1300.6	0.0237	19.213	1154.8	0.0236	20.530	1154.8	0.0236
3	19.269	1345.8	0.0235	22.730	1208.9	0.0235	24.267	1208.9	0.0235
4	20.442	1341.5	0.0234	24.181	1233.4	0.0233	25.821	1233.4	0.0233
5	20.807	1326.9	0.0232	24.703	1244.4	0.0232	26.392	1244.4	0.0232
6	20.912	1315.2	0.0231	24.907	1249.2	0.0231	26.622	1249.2	0.0231
7	20.952	1308.1	0.0229	25.014	1250.9	0.0229	26.743	1250.9	0.0229
8	20.979	1304.6	0.0228	25.085	1250.8	0.0228	26.825	1250.8	0.0228
9	21.014	1303.4	0.0227	25.149	1249.4	0.0226	26.895	1249.4	0.0226
10	21.066	1304.1	0.0226	25.221	1247.2	0.0225	26.971	1247.2	0.0225
11	21.153	1306.5	0.0224	25.322	1244.5	0.0224	27.076	1244.5	0.0224
12	21.304	1311.5	0.0223	25.480	1241.6	0.0223	27.240	1241.6	0.0223
13	21.521	1321.1	0.0222	25.673	1236.9	0.0221	27.434	1236.9	0.0221

Table 4.1.8-17 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G19a of Crystal River Unit 3

14	21.647	1333.5	0.0221	25.725	1227.5	0.0220	27.472	1227.5	0.0220
15	21.523	1347.7	0.0219	25.464	1211.8	0.0219	27.173	1211.8	0.0219
16	20.821	1357.8	0.0218	24.538	1187.3	0.0218	26.171	1187.3	0.0218
17	18.697	1336.1	0.0217	22.015	1143.5	0.0217	23.488	1143.5	0.0217
18	13.048	1178.3	0.0216	15.302	1015.5	0.0216	16.316	1015.5	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	19.550	1040.3	0.0237	19.683	1040.3	0.0237	22.337	1038.7	0.0236
2	29.190	1145.7	0.0236	29.377	1145.7	0.0236	33.032	1118.9	0.0235
3	34.114	1184.5	0.0235	34.323	1184.5	0.0235	38.332	1152.5	0.0234
4	36.088	1194.6	0.0233	36.302	1194.6	0.0233	40.363	1150.2	0.0232
5	36.780	1196.5	0.0232	36.994	1196.5	0.0232	41.023	1140.1	0.0231
6	37.036	1195.0	0.0230	37.249	1195.0	0.0230	41.240	1130.5	0.0230
7	37.163	1192.5	0.0229	37.375	1192.5	0.0229	41.339	1123.1	0.0228
8	37.249	1189.9	0.0228	37.462	1189.9	0.0228	41.409	1117.4	0.0227
9	37.331	1187.4	0.0226	37.543	1187.4	0.0226	41.483	1113.0	0.0226
10	37.430	1185.5	0.0225	37.642	1185.5	0.0225	41.582	1109.5	0.0225
11	37.575	1184.4	0.0224	37.788	1184.4	0.0224	41.737	1107.0	0.0224
12	37.805	1184.5	0.0223	38.020	1184.5	0.0223	41.989	1106.0	0.0222
13	38.076	1184.6	0.0221	38.294	1184.6	0.0221	42.295	1107.1	0.0221
14	38.153	1182.4	0.0220	38.373	1182.4	0.0220	42.417	1110.3	0.0220
15	37.810	1175.4	0.0219	38.032	1175.4	0.0219	42.124	1115.8	0.0219
16	36.565	1159.2	0.0218	36.786	1159.2	0.0218	40.890	1119.5	0.0218
17	33.079	1128.8	0.0217	33.288	1128.8	0.0217	37.199	1101.5	0.0217
18	23.118	1014.3	0.0216	23.271	1014.3	0.0216	26.180	1004.2	0.0216

Table 4.1.8-18 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G23 of Crystal River Unit 3

	Assembly Number G23								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			5.120	1181.4	0.0239	5.825	1162.3	0.0239
2	0.0			7.997	1410.7	0.0238	9.062	1327.5	0.0238
3	0.0			9.932	1531.1	0.0237	11.187	1388.6	0.0236
4	0.0	Data not required.		10.910	1574.9	0.0235	12.228	1391.9	0.0235

Table 4.1.8-18 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G23 of Crystal River Unit 3

5	0.0			11.351	1581.4	0.0233	12.676	1380.4	0.0233
6	0.0			11.558	1577.1	0.0232	12.877	1370.3	0.0232
7	0.0			11.667	1571.0	0.0230	12.978	1364.8	0.0230
8	0.0			11.729	1565.1	0.0229	13.035	1363.5	0.0229
9	0.0			11.767	1560.2	0.0227	13.072	1365.4	0.0228
10	0.0			11.797	1556.6	0.0226	13.104	1370.0	0.0226
11	0.0			11.833	1554.7	0.0225	13.146	1377.1	0.0225
12	0.0			11.889	1555.3	0.0223	13.215	1387.7	0.0224
13	0.0			11.943	1559.1	0.0222	13.291	1402.4	0.0222
14	0.0			11.893	1559.7	0.0220	13.261	1417.7	0.0221
15	0.0			11.629	1550.4	0.0219	13.003	1432.0	0.0220
16	0.0			10.969	1515.0	0.0218	12.310	1437.5	0.0218
17	0.0			9.554	1419.4	0.0217	10.768	1403.3	0.0217
18	0.0			6.581	1194.3	0.0216	7.435	1219.4	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	6.515	1162.3	0.0239	10.065	1166.7	0.0239	10.504	1166.7	0.0239
2	10.092	1327.5	0.0238	15.274	1326.0	0.0238	15.893	1326.0	0.0238
3	12.382	1388.6	0.0236	18.271	1369.7	0.0236	18.957	1369.7	0.0236
4	13.466	1391.9	0.0235	19.502	1363.5	0.0234	20.194	1363.5	0.0234
5	13.910	1380.4	0.0233	19.904	1348.0	0.0233	20.587	1348.0	0.0233
6	14.095	1370.3	0.0232	20.027	1335.7	0.0231	20.702	1335.7	0.0231
7	14.183	1364.8	0.0230	20.076	1328.3	0.0230	20.747	1328.3	0.0230
8	14.228	1363.5	0.0229	20.107	1324.7	0.0229	20.776	1324.7	0.0229
9	14.257	1365.4	0.0228	20.141	1323.6	0.0227	20.811	1323.6	0.0227
10	14.285	1370.0	0.0226	20.190	1324.3	0.0226	20.863	1324.3	0.0226
11	14.327	1377.1	0.0225	20.272	1326.6	0.0225	20.949	1326.6	0.0225
12	14.402	1387.7	0.0224	20.416	1331.7	0.0223	21.100	1331.7	0.0223
13	14.492	1402.4	0.0222	20.619	1341.4	0.0222	21.315	1341.4	0.0222
14	14.475	1417.7	0.0221	20.725	1353.7	0.0221	21.435	1353.7	0.0221
15	14.221	1432.0	0.0220	20.570	1367.3	0.0220	21.295	1367.3	0.0220
16	13.503	1437.5	0.0218	19.836	1377.6	0.0218	20.567	1377.6	0.0218
17	11.852	1403.3	0.0217	17.757	1356.9	0.0217	18.452	1356.9	0.0217
18	8.201	1219.4	0.0216	12.494	1196.4	0.0216	13.013	1196.4	0.0216

Table 4.1.8-18 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G23 of Crystal River Unit 3

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	10.990	1166.7	0.0239	11.648	726.6	0.0223	11.952	726.6	0.0223
2	16.583	1326.0	0.0238	17.664	789.6	0.0222	18.153	789.6	0.0222
3	19.724	1369.7	0.0236	21.049	813.7	0.0222	21.634	813.7	0.0222
4	20.971	1363.5	0.0234	22.423	823.4	0.0222	23.052	823.4	0.0222
5	21.356	1348.0	0.0233	22.879	827.8	0.0221	23.528	827.8	0.0221
6	21.463	1335.7	0.0231	23.028	829.6	0.0221	23.688	829.6	0.0221
7	21.503	1328.3	0.0230	23.095	829.7	0.0220	23.758	829.7	0.0220
8	21.533	1324.7	0.0229	23.139	828.9	0.0220	23.805	828.9	0.0220
9	21.569	1323.6	0.0227	23.183	827.5	0.0219	23.849	827.5	0.0219
10	21.625	1324.3	0.0226	23.241	825.7	0.0219	23.906	825.7	0.0219
11	21.715	1326.6	0.0225	23.327	823.3	0.0218	23.991	823.3	0.0218
12	21.875	1331.7	0.0223	23.474	820.1	0.0218	24.135	820.1	0.0218
13	22.102	1341.4	0.0222	23.677	815.7	0.0218	24.332	815.7	0.0218
14	22.238	1353.7	0.0221	23.774	810.3	0.0217	24.420	810.3	0.0217
15	22.114	1367.3	0.0220	23.588	803.3	0.0217	24.216	803.3	0.0217
16	21.394	1377.6	0.0218	22.762	792.4	0.0216	23.356	792.4	0.0216
17	19.241	1356.9	0.0217	20.405	770.0	0.0216	20.921	770.0	0.0216
18	13.604	1196.4	0.0216	14.320	707.8	0.0216	14.645	707.8	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	14.134	740.1	0.0223	14.185	740.1	0.0223	15.239	774.1	0.0223
2	21.485	796.9	0.0222	21.560	796.9	0.0222	23.084	820.1	0.0223
3	25.468	812.9	0.0222	25.553	812.9	0.0222	27.238	823.7	0.0222
4	27.049	815.5	0.0222	27.136	815.5	0.0222	28.845	819.8	0.0222
5	27.570	815.0	0.0221	27.657	815.0	0.0221	29.354	814.8	0.0221
6	27.732	813.3	0.0221	27.818	813.3	0.0221	29.499	810.5	0.0221
7	27.794	811.3	0.0220	27.880	811.3	0.0220	29.547	807.0	0.0221
8	27.830	809.3	0.0220	27.916	809.3	0.0220	29.574	804.3	0.0220
9	27.868	807.4	0.0219	27.954	807.4	0.0219	29.607	802.2	0.0220
10	27.920	805.6	0.0219	28.006	805.6	0.0219	29.656	800.2	0.0219
11	28.003	803.8	0.0218	28.089	803.8	0.0218	29.739	798.5	0.0219
12	28.146	801.8	0.0218	28.232	801.8	0.0218	29.883	796.9	0.0218
13	28.342	799.3	0.0218	28.428	799.3	0.0218	30.084	795.6	0.0218

Table 4.1.8-18 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G23 of Crystal River Unit 3

14	28.424	797.0	0.0217	28.511	797.0	0.0217	30.177	795.8	0.0217
15	28.192	794.5	0.0217	28.280	794.5	0.0217	29.961	797.7	0.0217
16	27.221	789.8	0.0216	27.308	789.8	0.0216	28.985	799.9	0.0216
17	24.410	775.5	0.0216	24.490	775.5	0.0216	26.066	795.8	0.0216
18	16.958	719.8	0.0216	17.014	719.8	0.0216	18.120	752.4	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 Cycle 9)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	15.465	774.1	0.0223	18.446	965.4	0.0234	19.688	976.6	0.0234
2	23.404	820.1	0.0223	27.819	1053.8	0.0233	29.614	1058.7	0.0234
3	27.588	823.7	0.0222	32.776	1099.5	0.0232	34.838	1104.2	0.0232
4	29.198	819.8	0.0222	34.783	1125.1	0.0231	36.959	1124.3	0.0231
5	29.704	814.8	0.0221	35.501	1137.1	0.0230	37.722	1130.3	0.0230
6	29.846	810.5	0.0221	35.758	1142.0	0.0229	37.996	1130.4	0.0229
7	29.890	807.0	0.0221	35.865	1142.7	0.0228	38.107	1128.0	0.0228
8	29.914	804.3	0.0220	35.918	1141.0	0.0226	38.159	1124.7	0.0226
9	29.942	802.2	0.0220	35.954	1138.0	0.0225	38.192	1121.2	0.0225
10	29.986	800.2	0.0219	35.991	1134.2	0.0224	38.228	1117.8	0.0224
11	30.062	798.5	0.0219	36.049	1129.9	0.0223	38.285	1114.7	0.0223
12	30.200	796.9	0.0218	36.159	1125.1	0.0222	38.395	1111.8	0.0222
13	30.393	795.6	0.0218	36.302	1118.8	0.0221	38.536	1108.5	0.0221
14	30.482	795.8	0.0217	36.293	1109.1	0.0220	38.516	1103.7	0.0220
15	30.264	797.7	0.0217	35.907	1094.3	0.0219	38.101	1095.3	0.0219
16	29.286	799.9	0.0216	34.654	1071.5	0.0218	36.778	1079.2	0.0218
17	26.348	795.8	0.0216	31.211	1034.5	0.0217	33.162	1043.1	0.0217
18	18.322	752.4	0.0216	21.734	943.4	0.0216	23.126	950.2	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	22.867	989.0	0.0235						
2	34.093	1066.9	0.0234						
3	39.892	1109.2	0.0232	No additional statepoints.			No additional statepoints.		
4	42.207	1118.6	0.0231						
5	43.015	1116.7	0.0230						
6	43.284	1111.7	0.0229						
7	43.381	1106.5	0.0228						
8	43.421	1102.0	0.0226						

Table 4.1.8-18 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G23 of Crystal River Unit 3

9	43.448	1098.3	0.0225						
10	43.484	1095.4	0.0224						
11	43.551	1093.3	0.0223						
12	43.680	1092.1	0.0222						
13	43.847	1091.7	0.0221						
14	43.848	1091.7	0.0220						
15	43.426	1090.5	0.0219						
16	42.008	1083.3	0.0218						
17	38.037	1054.9	0.0217						
18	26.669	956.7	0.0216						

Table 4.1.8-19 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G25 of Crystal River Unit 3

	Assembly Number G25								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			3.230	945.9	0.0230	3.673	970.9	0.0230
2	0.0			5.438	1150.5	0.0229	6.142	1119.9	0.0229
3	0.0			6.770	1246.9	0.0229	7.601	1169.0	0.0229
4	0.0	Data not required.		7.434	1281.4	0.0228	8.307	1175.8	0.0228
5	0.0			7.754	1289.4	0.0227	8.634	1170.2	0.0227
6	0.0			7.903	1287.3	0.0226	8.779	1163.7	0.0226
7	0.0			7.968	1282.1	0.0225	8.838	1159.4	0.0225
8	0.0			7.994	1276.5	0.0224	8.858	1157.9	0.0224
9	0.0			8.002	1271.7	0.0223	8.864	1158.8	0.0223
10	0.0			8.007	1268.2	0.0222	8.869	1161.7	0.0222
11	0.0			8.013	1266.2	0.0221	8.878	1166.6	0.0222
12	0.0			8.018	1265.7	0.0220	8.889	1173.4	0.0221
13	0.0			8.004	1265.8	0.0219	8.883	1182.5	0.0220
14	0.0			7.932	1263.6	0.0219	8.819	1193.2	0.0219
15	0.0			7.728	1253.7	0.0218	8.616	1202.9	0.0218
16	0.0			7.250	1224.4	0.0217	8.115	1203.0	0.0217
17	0.0			6.182	1147.4	0.0216	6.956	1166.4	0.0216
18	0.0			3.751	937.4	0.0216	4.249	1003.9	0.0216

Table 4.1.8-19 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G25 of Crystal River Unit 3

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	4.103	970.9	0.0230	6.399	990.1	0.0230	6.689	990.1	0.0230
2	6.818	1119.9	0.0229	10.308	1127.8	0.0230	10.735	1127.8	0.0230
3	8.388	1169.0	0.0229	12.377	1170.5	0.0229	12.855	1170.5	0.0229
4	9.125	1175.8	0.0228	13.228	1171.9	0.0228	13.714	1171.9	0.0228
5	9.452	1170.2	0.0227	13.545	1163.8	0.0227	14.027	1163.8	0.0227
6	9.587	1163.7	0.0226	13.645	1155.8	0.0226	14.122	1155.8	0.0226
7	9.636	1159.4	0.0225	13.665	1150.3	0.0225	14.139	1150.3	0.0225
8	9.648	1157.9	0.0224	13.662	1147.3	0.0224	14.135	1147.3	0.0224
9	9.647	1158.8	0.0223	13.660	1146.2	0.0223	14.133	1146.2	0.0223
10	9.648	1161.7	0.0222	13.671	1146.6	0.0222	14.146	1146.6	0.0222
11	9.656	1166.6	0.0222	13.702	1148.5	0.0222	14.179	1148.5	0.0222
12	9.668	1173.4	0.0221	13.751	1152.0	0.0221	14.232	1152.0	0.0221
13	9.667	1182.5	0.0220	13.803	1157.8	0.0220	14.290	1157.8	0.0220
14	9.608	1193.2	0.0219	13.808	1166.0	0.0219	14.303	1166.0	0.0219
15	9.406	1202.9	0.0218	13.660	1175.1	0.0218	14.163	1175.1	0.0218
16	8.886	1203.0	0.0217	13.109	1178.0	0.0217	13.615	1178.0	0.0217
17	7.648	1166.4	0.0216	11.540	1151.1	0.0216	12.014	1151.1	0.0216
18	4.699	1003.9	0.0216	7.319	1005.2	0.0216	7.648	1005.2	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	7.017	990.1	0.0230	8.704	1009.9	0.0235	9.474	1009.9	0.0235
2	11.217	1127.8	0.0230	13.901	1159.0	0.0235	15.098	1159.0	0.0235
3	13.394	1170.5	0.0229	16.661	1224.0	0.0233	18.087	1224.0	0.0233
4	14.263	1171.9	0.0228	17.840	1252.3	0.0232	19.375	1252.3	0.0232
5	14.573	1163.8	0.0227	18.327	1265.2	0.0231	19.913	1265.2	0.0231
6	14.663	1155.8	0.0226	18.529	1271.0	0.0230	20.142	1271.0	0.0230
7	14.678	1150.3	0.0225	18.619	1273.7	0.0228	20.248	1273.7	0.0228
8	14.673	1147.3	0.0224	18.665	1274.5	0.0227	20.305	1274.5	0.0227
9	14.672	1146.2	0.0223	18.699	1274.0	0.0226	20.346	1274.0	0.0226
10	14.687	1146.6	0.0222	18.737	1272.7	0.0224	20.389	1272.7	0.0224
11	14.723	1148.5	0.0222	18.787	1271.0	0.0223	20.445	1271.0	0.0223
12	14.781	1152.0	0.0221	18.850	1269.3	0.0222	20.513	1269.3	0.0222
13	14.846	1157.8	0.0220	18.893	1266.4	0.0221	20.558	1266.4	0.0221

Table 4.1.8-19 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G25 of Crystal River Unit 3

14	14.868	1166.0	0.0219	18.846	1259.2	0.0220	20.500	1259.2	0.0220
15	14.737	1175.1	0.0218	18.580	1245.0	0.0219	20.200	1245.0	0.0219
16	14.191	1178.0	0.0217	17.788	1218.4	0.0218	19.330	1218.4	0.0218
17	12.556	1151.1	0.0216	15.686	1166.4	0.0217	17.053	1166.4	0.0217
18	8.026	1005.2	0.0216	10.056	1013.0	0.0216	10.962	1013.0	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	14.771	1016.3	0.0235	14.890	1016.3	0.0235	17.283	1033.6	0.0234
2	22.940	1140.3	0.0234	23.111	1140.3	0.0234	26.463	1114.2	0.0233
3	27.096	1182.9	0.0233	27.287	1182.9	0.0233	30.988	1134.2	0.0232
4	28.794	1194.1	0.0231	28.991	1194.1	0.0231	32.749	1130.4	0.0231
5	29.452	1194.9	0.0230	29.649	1194.9	0.0230	33.384	1120.4	0.0230
6	29.710	1192.6	0.0229	29.906	1192.6	0.0229	33.611	1111.5	0.0229
7	29.825	1189.8	0.0228	30.021	1189.8	0.0228	33.705	1105.0	0.0227
8	29.892	1187.1	0.0227	30.087	1187.1	0.0227	33.761	1100.4	0.0226
9	29.948	1184.9	0.0225	30.144	1184.9	0.0225	33.815	1096.9	0.0225
10	30.017	1183.2	0.0224	30.213	1183.2	0.0224	33.889	1094.2	0.0224
11	30.114	1182.2	0.0223	30.311	1182.2	0.0223	33.998	1092.4	0.0223
12	30.245	1182.4	0.0222	30.444	1182.4	0.0222	34.154	1092.2	0.0222
13	30.368	1183.3	0.0221	30.570	1183.3	0.0221	34.314	1094.3	0.0221
14	30.363	1183.0	0.0220	30.567	1183.0	0.0220	34.356	1098.5	0.0220
15	30.040	1179.6	0.0219	30.246	1179.6	0.0219	34.086	1105.0	0.0219
16	28.944	1168.4	0.0218	29.150	1168.4	0.0218	33.003	1111.0	0.0218
17	25.860	1136.4	0.0217	26.054	1136.4	0.0217	29.720	1099.0	0.0217
18	17.079	1013.6	0.0216	17.218	1013.6	0.0216	19.917	1020.3	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 Cycle 9)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	17.789	1033.6	0.0234	18.488	654.8	0.0220	18.791	662.8	0.0220
2	27.158	1114.2	0.0233	28.230	676.8	0.0220	28.680	683.5	0.0220
3	31.747	1134.2	0.0232	33.010	685.8	0.0219	33.525	691.4	0.0219
4	33.518	1130.4	0.0231	34.871	690.9	0.0219	35.408	694.3	0.0219
5	34.149	1120.4	0.0230	35.548	692.7	0.0219	36.091	694.3	0.0219
6	34.371	1111.5	0.0229	35.791	692.8	0.0219	36.333	693.3	0.0219
7	34.459	1105.0	0.0227	35.886	692.1	0.0218	36.426	691.8	0.0218
8	34.508	1100.4	0.0226	35.935	690.9	0.0218	36.472	690.2	0.0218

Table 4.1.8-19 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G25 of Crystal River Unit 3

9	34.555	1096.9	0.0225	35.976	689.5	0.0218	36.509	688.6	0.0218
10	34.617	1094.2	0.0224	36.028	687.8	0.0218	36.558	687.1	0.0218
11	34.713	1092.4	0.0223	36.110	686.0	0.0217	36.636	685.6	0.0218
12	34.852	1092.2	0.0222	36.231	684.0	0.0217	36.753	684.0	0.0217
13	34.996	1094.3	0.0221	36.351	681.6	0.0217	36.869	682.3	0.0217
14	35.029	1098.5	0.0220	36.352	678.8	0.0217	36.865	680.7	0.0217
15	34.756	1105.0	0.0219	36.033	675.1	0.0217	36.538	678.5	0.0217
16	33.669	1111.0	0.0218	34.871	669.4	0.0216	35.358	674.6	0.0216
17	30.356	1099.0	0.0217	31.410	659.3	0.0216	31.849	665.5	0.0216
18	20.392	1020.3	0.0216	21.098	640.0	0.0216	21.402	647.4	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	19.612	675.9	0.0220						
2	29.864	694.7	0.0220						
3	34.845	701.2	0.0220	No additional statepoints.			No additional statepoints.		
4	36.758	701.5	0.0219						
5	37.438	699.7	0.0219						
6	37.669	697.4	0.0219						
7	37.750	695.2	0.0219						
8	37.784	693.3	0.0218						
9	37.812	691.6	0.0218						
10	37.854	690.1	0.0218						
11	37.927	688.8	0.0218						
12	38.039	687.6	0.0217						
13	38.153	686.6	0.0217						
14	38.148	685.9	0.0217						
15	37.817	685.3	0.0217						
16	36.614	683.6	0.0216						
17	33.010	676.4	0.0216						
18	22.228	659.1	0.0216						

Table 4.1.8-20 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G27 of Crystal River Unit 3

	Assembly Number G27								
	Statepoint 16 (BOC Cycle 7)			Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy7			260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7
1	0.0			3.680	1023.6	0.0233	4.195	1039.4	0.0233
2	0.0			6.285	1253.1	0.0232	7.105	1191.1	0.0232
3	0.0			7.944	1353.1	0.0231	8.912	1238.3	0.0231
4	0.0	Data not required.		8.773	1386.5	0.0230	9.787	1242.0	0.0230
5	0.0			9.167	1393.3	0.0229	10.189	1234.3	0.0229
6	0.0			9.352	1390.2	0.0228	10.370	1226.7	0.0228
7	0.0			9.439	1384.1	0.0227	10.450	1222.1	0.0227
8	0.0			9.480	1377.9	0.0225	10.485	1220.5	0.0226
9	0.0			9.500	1372.7	0.0224	10.503	1221.6	0.0225
10	0.0			9.514	1369.1	0.0223	10.518	1224.9	0.0224
11	0.0			9.528	1367.1	0.0222	10.536	1230.3	0.0223
12	0.0			9.539	1366.8	0.0221	10.553	1237.9	0.0222
13	0.0			9.525	1367.1	0.0220	10.549	1248.0	0.0221
14	0.0			9.439	1365.0	0.0219	10.473	1259.8	0.0220
15	0.0			9.198	1354.5	0.0218	10.233	1270.9	0.0219
16	0.0			8.635	1323.2	0.0217	9.644	1272.1	0.0218
17	0.0			7.393	1242.0	0.0216	8.301	1234.8	0.0217
18	0.0			4.679	1025.2	0.0216	5.291	1082.7	0.0216

	Statepoint 19 (319.0 Cycle 7)			Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	319.0 Cy7	345.3 Cy7	345.3 Cy7	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7
1	4.700	1039.4	0.0233	7.360	1055.1	0.0233	7.698	1055.1	0.0233
2	7.894	1191.1	0.0232	11.912	1193.3	0.0232	12.401	1193.3	0.0232
3	9.829	1238.3	0.0231	14.408	1234.0	0.0231	14.950	1234.0	0.0231
4	10.737	1242.0	0.0230	15.435	1232.7	0.0230	15.985	1232.7	0.0230
5	11.137	1234.3	0.0229	15.819	1222.4	0.0229	16.363	1222.4	0.0229
6	11.307	1226.7	0.0228	15.948	1213.2	0.0228	16.486	1213.2	0.0228
7	11.376	1222.1	0.0227	15.985	1207.1	0.0226	16.520	1207.1	0.0226
8	11.401	1220.5	0.0226	15.996	1203.9	0.0225	16.530	1203.9	0.0225
9	11.412	1221.6	0.0225	16.007	1202.8	0.0224	16.542	1202.8	0.0224
10	11.423	1224.9	0.0224	16.031	1203.3	0.0223	16.568	1203.3	0.0223
11	11.439	1230.3	0.0223	16.075	1205.3	0.0222	16.614	1205.3	0.0222
12	11.459	1237.9	0.0222	16.137	1209.1	0.0221	16.681	1209.1	0.0221

Table 4.1.8-20 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G27 of Crystal River Unit 3

13	11.460	1248.0	0.0221	16.198	1215.3	0.0221	16.749	1215.3	0.0221
14	11.390	1259.8	0.0220	16.201	1224.1	0.0220	16.760	1224.1	0.0220
15	11.151	1270.9	0.0219	16.022	1234.2	0.0219	16.591	1234.2	0.0219
16	10.540	1272.1	0.0218	15.382	1238.5	0.0218	15.954	1238.5	0.0218
17	9.111	1234.8	0.0217	13.599	1211.8	0.0217	14.139	1211.8	0.0217
18	5.842	1082.7	0.0216	9.018	1076.4	0.0216	9.413	1076.4	0.0216

	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy8	402.3 Cy7	402.3 Cy7	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	8.071	1055.1	0.0233	10.019	1044.0	0.0236	10.890	1044.0	0.0236
2	12.945	1193.3	0.0232	15.939	1185.7	0.0235	17.249	1185.7	0.0235
3	15.559	1234.0	0.0231	19.072	1231.3	0.0234	20.587	1231.3	0.0234
4	16.604	1232.7	0.0230	20.347	1246.7	0.0232	21.943	1246.7	0.0232
5	16.978	1222.4	0.0229	20.840	1251.8	0.0231	22.470	1251.8	0.0231
6	17.096	1213.2	0.0228	21.028	1253.4	0.0230	22.674	1253.4	0.0230
7	17.127	1207.1	0.0226	21.104	1252.9	0.0228	22.758	1252.9	0.0228
8	17.137	1203.9	0.0225	21.144	1251.3	0.0227	22.803	1251.3	0.0227
9	17.150	1202.8	0.0224	21.178	1249.2	0.0226	22.840	1249.2	0.0226
10	17.178	1203.3	0.0223	21.226	1247.3	0.0225	22.892	1247.3	0.0225
11	17.228	1205.3	0.0222	21.298	1246.2	0.0223	22.972	1246.2	0.0223
12	17.300	1209.1	0.0221	21.382	1244.6	0.0222	23.062	1244.6	0.0222
13	17.375	1215.3	0.0221	21.423	1238.4	0.0221	23.097	1238.4	0.0221
14	17.396	1224.1	0.0220	21.357	1227.4	0.0220	23.009	1227.4	0.0220
15	17.238	1234.2	0.0219	21.053	1211.2	0.0219	22.666	1211.2	0.0219
16	16.603	1238.5	0.0218	20.182	1187.5	0.0218	21.720	1187.5	0.0218
17	14.754	1211.8	0.0217	17.887	1141.6	0.0217	19.258	1141.6	0.0217
18	9.865	1076.4	0.0216	11.908	998.6	0.0216	12.823	998.6	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	16.698	1043.9	0.0235	16.827	1043.9	0.0235	19.365	1041.4	0.0234
2	25.600	1151.4	0.0234	25.778	1151.4	0.0234	29.219	1105.2	0.0233
3	29.943	1184.0	0.0233	30.138	1184.0	0.0233	33.846	1117.0	0.0232
4	31.576	1188.5	0.0232	31.773	1188.5	0.0232	35.488	1109.9	0.0230
5	32.153	1185.6	0.0230	32.349	1185.6	0.0230	36.016	1098.3	0.0229
6	32.344	1181.1	0.0229	32.539	1181.1	0.0229	36.160	1088.3	0.0228
7	32.405	1176.6	0.0228	32.598	1176.6	0.0228	36.185	1080.6	0.0227

Table 4.1.8-20 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly G27 of Crystal River Unit 3

8	32.431	1172.5	0.0227	32.623	1172.5	0.0227	36.189	1074.7	0.0226
9	32.463	1169.0	0.0225	32.655	1169.0	0.0225	36.209	1070.1	0.0225
10	32.527	1166.5	0.0224	32.719	1166.5	0.0224	36.269	1066.7	0.0224
11	32.647	1165.2	0.0223	32.840	1165.2	0.0223	36.397	1064.6	0.0223
12	32.794	1164.6	0.0222	32.989	1164.6	0.0222	36.564	1064.1	0.0222
13	32.862	1162.8	0.0221	33.059	1162.8	0.0221	36.658	1064.7	0.0221
14	32.779	1159.8	0.0220	32.977	1159.8	0.0220	36.611	1067.5	0.0220
15	32.388	1155.2	0.0219	32.588	1155.2	0.0219	36.267	1072.7	0.0219
16	31.228	1145.1	0.0218	31.428	1145.1	0.0218	35.125	1076.8	0.0218
17	28.020	1114.4	0.0217	28.209	1114.4	0.0217	31.751	1064.9	0.0217
18	18.963	1001.9	0.0216	19.101	1001.9	0.0216	21.742	994.3	0.0216

4.2 Criteria

The design of the waste package will depend on waste package configuration criticality analyses performed using an acceptable disposal criticality analysis methodology. Criteria that relate to the development and design of repository and engineered barrier components are derived from the applicable requirements and planning documents. The Engineered Barrier Design Requirements Document (EBDRD, Ref. 5.8) provides requirements for engineered barrier segment design. The Repository Design Requirements Document (RDRD, Ref. 5.9) provides requirements for repository design. The Controlled Design Assumptions Document (Ref. 5.10) provides guidance for requirements listed in the EBDRD and RDRD which have unqualified or unconfirmed data associated with the requirement.

This analysis supports the disposal criticality analysis methodology by providing input, in the form of fuel and burnable poison depletion results, to benchmark calculations which address the prediction of both spent fuel isotopic compositions and their associated reactivity. These benchmark calculations will contribute to the determination of bias values in the method of critical multiplication factor calculation that is implemented by the analytic tools to be used in the disposal criticality methodology. The requirements for utilizing the bias in the method of calculation of the critical multiplication factor for disposal configurations containing spent nuclear fuel are located in Section 3.2.2.5 of the RDRD and Section 3.2.2.6 of the EBDRD. This analysis does not satisfy these requirements, but the results from this analysis will be used as input to subsequent analyses which will satisfy these requirements.

4.3 Assumptions

4.3.1 The inherent approximation of uniformly distributed non-fuel lattice cells in the Path B unit cell models of the SAS2H calculations as described in Section 7.2 is considered acceptable within the accuracy of these calculations as documented in Section S2.2.3.1 of Volume 1 in reference 5.4. The basis for this assumption is provided in the previously identified section of reference 5.4. This assumption is used throughout all depletion calculations documented in Section 7.

4.3.2 With the utilization of one cross-section update per irradiation time step, the maximum duration of any time step in any reactor cycle irradiation layout of this analysis should not exceed 80 days. The basis for this assumption is that the 80 day irradiation time step limit assures that the isotopic concentrations of the system (primarily fuel and borated moderator) will not alter the neutron spectrum radically enough to cause a time step of the depletion calculation to be performed without the availability of cross-sections which have been properly weighted with an updated neutron spectrum and spatial flux. This assumption is used throughout all depletion calculations documented in Section 7.

4.3.3 Distributing the spacer grid material uniformly in the moderator composition of the Path A and B models is acceptable. The basis for this assumption is that the limited reactivity worth of the spacer grid materials will have negligible impact on the neutron spectrum when placed homogeneously in axial regions of the assembly. This assumption is used throughout all depletion calculations documented in Section 7.

4.4 Codes and Standards

Not applicable.

5. References

5.1 Activity Evaluation: *Perform Criticality, Thermal, Structural, and Shielding Analyses.* Document Identifier Number (DI#): BB0000000-01717-2200-00025 REV 02, Civilian Radioactive Waste Management System (CRWMS) Management and Operating Contractor (M&O).

5.2 Quality Assurance Requirements and Description. DOE/RW-0333P REV 07, DOE (U.S. Department of Energy).

5.3 *Summary Report of Commercial Reactor Criticality Data for Crystal River Unit 3.* DI#: B00000000-01717-5705-00060 REV 00, CRWMS M&O.

5.4 *SCALE 4.3: Modular Code System for Performing Standardized Computer Analyses for Licensing Evalutation.* User's Manual Volumes 0 through 3, Oak Ridge National Laboratory, Document Number: CCC-545.

5.5 *Software Qualification Report for the SCALE Modular Code System Version 4.3.* SCALE Version 4.3 Configuration Software Configuration Identifier (CSCI): 30011 V4.3, DI#: 30011-2002 REV 00, CRWMS M&O.

5.6 *Q-List.* YMP/90-55Q, REV 04, YMP (Yucca Mountain Site Characterization Project).

5.7 *This reference is intentionally left blank.*

5.8 *Engineered Barrier Design Requirements Document.* YMP/CM-0024, REV 0, ICN 1, DOE OCRWM.

5.9 *Repository Design Requirements Document.* YMP/CM-0023, REV 0, ICN 1, DOE OCRWM.

5.10 *Controlled Design Assumptions Document.* DI#: B00000000-01717-4600-00032 REV 04, ICN 01, CRWMS M&O.

5.11 *CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 4 and 5 of Crystal River Unit 3.* DI#: BBA000000-01717-0200-00033 REV 00, CRWMS M&O.

5.12 *CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 1, 2, and 3 of Crystal River Unit 3.* DI#: BBA000000-01717-0200-00032 REV 00, CRWMS M&O.

5.13 *Interoffice Correspondence (IOC) from Hugh Benton to Greg Carlisle, Subject: Software Routines.* July 29, 1997, IOC Number: LV.WP.DAT.07/97-164.

5.14* Attachments for BBA000000-01717-0200-00035 REV 00 - CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 8 and 9 of Crystal River Unit 3. Batch Number: MOY-970819-10.

5.15* CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 8 and 9 of Crystal River Unit 3 (DI#: BBA000000-01717-0200-00035 REV 00) - Attachments XLI and XLII - 6 Data Cartridges + Special Instruction Sheet. Batch Number: MOY-970815-07.

* ~~These references are submitted with this analyis records package.~~ KDW 9/15/97

6. Use of Computer Software

6.1 Scientific and Engineering Software

The SAS2H control module of the SCALE 4.3 modular code system (Ref. 5.4) was used in this analysis to perform fuel assembly depletion calculations required for CRC evaluations. The SCALE 4.3 code system is subject to the requirements of the QARD (Ref. 5.2). The SCALE 4.3 code system was obtained from the Software Configuration Management in accordance with appropriate procedures. The CSCI number for SCALE 4.3 is 30011 V4.3. The SAS2H calculations documented in this analysis were performed on Hewlett Packard (HP) 9000 series workstations. The SAS2H control module utilizes the BONAMI, NITAWL, XSDRNPM, COUPLE, and ORIGEN-S calculational modules to perform isotopic depletion calculations. A detailed description of the SAS2H control module is provided in Volume 1, Section S2 of reference 5.4. The SAS2H control module of the SCALE 4.3 code system is applicable to

the engineering application within this analysis and is used within the range of verification and validation as documented in reference 5.5.

A software routine entitled "Commercial Reactor Assembly Follow Taskmaster" (CRAFT) was written to automate the production of SAS2H input decks as required to support fuel assembly depletion calculations relevant to CRC evaluations. The CRAFT code does not generate data. All calculations performed by the CRAFT code are verified by visual inspection and/or hand calculations. The CRAFT code, Version 2.0, compiled on January 13, 1997, was utilized in this analysis to orchestrate the depletion calculations for the fuel assemblies. The CRAFT 2.0 source code ("CRAFT.f.V-2.compiled_on_01_13_97") and executable file ("CRAFT2.0") exist in the directory "/users/wright/CRAFT_V2" on the Waste Package Development Department (WPDD) HP 9000 series workstation designated "Opus". The CRAFT code is subject to the requirements of the QARD as defined by Section I.2.1 Part C of Supplement I Rev. 1 of the QARD. Complete documentation of the CRAFT code, Version 2.0, including descriptions of the code modification made between Version 1.0 and Version 2.0, and the user information is included in Attachment I of reference 5.11. The CRAFT Version 2.0 software routine will ultimately be documented as an addendum to the existing SCALE V4.3 baseline and assume the SCALE V4.3 baseline CSCI identifier number of 30011 V4.3 (Ref. 5.13).

A software routine entitled "CRC_DATA_TABULIZER" was written to automate the production of tables containing the isotopic results and other pertinent data for a set of 29 principal isotopes at each CRC statepoint for each assembly. The CRC_DATA_TABULIZER code does not generate data. All calculations performed by the CRC_DATA_TABULIZER code are verified by visual inspection and/or hand calculations. The CRC_DATA_TABULIZER code, Version 2.0, compiled on March 20, 1997, was utilized to tabulate the principal isotope results for each fuel assembly at each CRC statepoint. The CRC_DATA_TABULIZER, Version 2.0, source code (CRC_DATA_TABULIZER_V2.f) and executable file (CRC_DATA_TABULIZER_V2.exe) exist in the directory "/users/wright/CRC_DATA_TABULIZER" on the WPDD HP 9000 series workstation designated "Opus". The CRC_DATA_TABULIZER code is subject to the requirements of the QARD as defined by Section I.2.1 Part C of Supplement I Rev. 1 of the QARD. Complete documentation of the CRC_DATA_TABULIZER code including code description, user information, and documentation that the software provides correct results for a specified range of input parameters is presented in Attachment V of reference 5.12. The CRC_DATA_TABULIZER Version 2.0 software routine will ultimately be documented as an addendum to the existing SCALE V4.3 baseline and assume the SCALE V4.3 baseline CSCI identifier number of 30011 V4.3 (Ref. 5.13).

6.2 Computational Support Software

The Excel, Version 5.0, and Lotus 1-2-3, Version 4.0, spreadsheet packages are two of the computational support software packages utilized in this analysis. The user-defined formulas, inputs, and results for all calculations performed with these spreadsheet packages are documented, where applicable, throughout this analysis. The "sed" line editor (Revision: 70.12) available in the "/bin" directory on the HP 9000 series workstations is utilized in the "sedexecute" script file which is called and executed by the CRAFT code. The usage of the "sed" line editor is described in Section 6 of Attachment I (Ref. 5.11).

7. Design Analysis

This design analysis documents the fuel assembly SAS2H depletion calculations for the non-rodded assemblies of fuel batches 8 and 9 which are required for the CRC evaluations of Crystal River Unit 3. Sections 7.1 through 7.5 describe how the parameters listed in Section 4.1 are utilized to perform the appropriate SAS2H depletion calculations relevant to CRC evaluations. The CRAFT description and user information provided in Attachment I of reference 5.11, is essential for understanding the SAS2H modeling techniques employed in this analysis. The information in Attachment I (Ref. 5.11), the input parameters in Section 4.1, and the CRAFT input decks in Attachments I through XX work together to provide a complete description of how all of the SAS2H depletion calculations in this analysis were performed.

7.1 Assembly Depletion Calculation Procedure

The calculational procedure for the fuel assembly SAS2H depletion calculations performed in this analysis is based on the utilization of the CRAFT Version 2.0 code. The CRAFT code is described generally in Sections 7.4 and 7.5. The complete detailed description of the CRAFT Version 2.0 code is provided in Attachment I of reference 5.11. The procedure for performing a fuel assembly depletion calculation with CRAFT Version 2.0 consists of the following four steps:

1) Create a CRAFT input deck for the assembly depletion calculation.
2) Assure that the CRAFT executable file and the CRAFT input deck entitled "datain" and the "sedexecute" executable file are in the same directory. The "sedexecute" executable file is a script file which is used in conjunction with the CRAFT code to create the consolidated output files described in Section 7.5.
3) Execute CRAFT.
4) Check and analyze the CRAFT generated SAS2H input decks and the SAS2H isotopic results.

The various CRAFT generated and consolidated SAS2H output files contain unique filenames which specify the following information:

1) reactor identifier,
2) one-eighth core symmetry assembly number in current reactor cycle,
3) axial node number,
4) reactor cycle number in which the SAS2H calculation begins,
5) EFPD statepoint at which the SAS2H calculation begins,
6) reactor cycle number in which the SAS2H calculation ends,
7) EFPD statepoint at which the SAS2H calculation ends.

A complete detailed description of the filename content and format is provided on page 76 of Attachment I (Ref. 5.11). Specific isotopic results contained in the various consolidated output files generated by CRAFT may be retrieved using the output filename information.

7.2 Path B Unit Cell Model Development

The SAS2H control module uses ORIGEN-S to perform a point depletion calculation for the fuel assembly or section of the fuel assembly described in the SAS2H input deck. The ORIGEN-S calculational module uses cell-weighted cross-sections based on one-dimensional (1-D) transport calculations performed by XSDRNPM. One-dimensional transport calculations are performed on two unit cell models, Path A and Path B, to calculate energy dependent spatial neutron flux distributions necessary to perform cross-section cell-weighting calculations.

The Path A unit cell model is simply a unit cell of the fuel assembly lattice containing a fuel rod. In the Path A model, the fuel pellet, gap, and clad are modeled explicitly. The only modification required to develop the Path A model is the conversion of the fuel assembly square lattice unit cell perimeter to a radial perimeter conserving moderator volume within the unit cell, exterior to the fuel rod cladding. This modification is performed automatically by the SAS2H control module. A 1-D transport calculation is performed on the Path A unit cell model for each energy group, and the unit cell spatial flux distributions for each energy group are used to calculate cell-weighted cross-sections for the fuel.

The Path B unit cell model is a larger unit cell representation than the Path A model; hence, it is sometimes referred to as the larger unit cell model. The Path B unit cell model represents all or part of the fuel assembly. The Path B unit cell model attempts to account for spectral effects due to heterogeneities within the fuel assembly such as water gaps, burnable poison rods, control rods, or axial power shaping rods. Typically, fuel assemblies contain a number of similar non-fuel lattice cells dispersed somewhat uniformly throughout the assembly lattice. The structure of the Path B unit cell model is based on a uniform distribution of these non-fuel lattice cells. In reality, most fuel assemblies do not have uniformly distributed non-fuel lattice cells, but the approximation of uniformly distributed non-fuel lattice cells is considered acceptable within the fidelity of these calculations as documented in Section S2.2.3.1 of Volume 1, Rev. 5 in reference 5.4.

The basic structure of the Path B unit cell model for the fuel assembly depletion calculations performed in this analysis includes an inner region composed of an explicit representation of the non-fuel lattice cell. This inner region has essentially the same format as the Path A model with the fuel rod replaced by the non-fuel rod. A region representing the homogenization of the remainder of the fuel assembly surrounds the inner region in the Path B unit cell model. A final region representing the moderator in the assembly-to-assembly spacing surrounds the homogenized region in the Path B unit cell model. The size of each radial region surrounding the inner region in the Path B unit cell model is determined by conserving the fuel-to-moderator volume ratio in the system. The cell-weighted cross-sections from the Path A model are used with the fuel of the homogenized region during the Path B model transport calculations. New cell-weighted cross-sections for each energy group are then developed using the unit cell spatial flux distribution results from the Path B model transport calculations. These cell-weighted cross-sections are used in point depletion calculations performed by ORIGEN-S to calculate depleted fuel and depleted burnable poison, if present, isotopics in the fuel assembly. A detailed description of the calculations used to produce time-dependent cross-sections by SAS2H is documented in Section S2.2.4 of Volume 1 in reference 5.4.

The Path B unit cell models for the various fuel assembly configurations must be developed manually and input to the SAS2H control module. The primary concern in the development of the Path B model for PWR assemblies is the conservation of the fuel-to-moderator volume ratio in the system. For the fuel assemblies in batches 8 and 9 of Crystal River Unit 3 either one, two, or three Path B unit cell models are required. The first Path B unit cell model represents a cross-section of the fuel assembly containing water-filled guide tubes and one water-filled instrument tube. The second Path B unit cell model represents a cross-section of the fuel assembly containing the absorbing region of a 16 rod BPRA and one water-filled instrument tube. The third Path B unit cell model represents a cross-section of the fuel assembly containing the non-absorbing region of a 16 rod BPRA and one water-filled instrument tube. The non-absorbing region of a BPRA is the region above the neutron absorber Al_2O_3-B_4C. The BPR's in this non-absorbing region contain Al_2O_3. Not all assemblies require all of these Path B unit cell models. If no BPRA is inserted in the fuel assembly at a given time, the first Path B unit cell model is employed. If a BPRA is inserted in the fuel assembly at a given time and the axial region of the fuel assembly represented in the SAS2H calculation contains the absorbing region of the BPRA, the second Path B model is employed. If a BPRA is inserted in the fuel assembly at a given time and the axial region of the fuel assembly represented in the SAS2H calculation contains the non-absorbing region of the BPRA, the third Path B model is employed.

Fuel batches 8 and 9 both utilize the same design specifications other than the initial U-235 enrichment and the spacer grid material. The Path B model development does not depend on the fuel enrichment. Therefore, all of the assembly depletions documented in this analysis will utilize a single set of Path B models. The Path B model development spreadsheets in Tables 7.2-1 through 7.2-2, present the input parameters required, the parameters calculated, references to equations used to calculate the parameters, and the final Path B unit cell model dimensions available for direct implementation in a SAS2H input deck. The spreadsheet presented in Table 7.2-1, calculates the dimensions of the Path B unit cell model with no BPRA inserted. The spreadsheet presented in Table 7.2-2, calculates the dimensions of the Path B unit cell model with a BPRA inserted. Additional Path B unit cell model material structures are presented in Table 7.2-2, to described the Path B models for non-absorbing BPRA insertions. Table 7.2-3, contains a listing of the equations referenced and utilized in each of the spreadsheets presented in Tables 7.2-1 and 7.2-2.

Table 7.2-1 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 8 and 9 of Crystal River Unit 3 that do not have a BPRA Inserted

SAS2H Path B Unit Cell Model Dimension Calculations for the Non-Rodded Fuel Assemblies in Fuel Batches 8 and 9 of Crystal River Unit 3 that do not have aBPRA Insertion History

Input Parameters

Number of unit cells in assembly:	225
Number of fuel rods in assembly:	208
Number of guide tubes in assembly:	16

Table 7.2-1 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 8 and 9 of Crystal River Unit 3 that do not have a BPRA Inserted

Rod pitch in assembly (cm):	1.44272
Fuel pellet diameter (cm):	0.936244
Fuel cladding outer diameter (cm):	1.0922
Guide tube outer diameter (cm):	1.3462
Guide tube inner diameter (cm):	1.26492
Instrument tube outer diameter (cm):	1.38193
Instrument tube inner diameter (cm):	1.12014
Assembly pitch (cm):	21.81098

Fuel-to-Moderator Volume Ratio Calculation:

Identifier of Equation(s) Utilized: 1 (Table 7.2-3)

Fuel-to-Moderator Volume Ratio = 0.529832

Moderator Unit Volume in Central Unit Cell of Path B Model:

Identifier of Equation(s) Utilized: 2 (Table 7.2-3)

Moderator Unit Volume in Central Unit Cell of Path B Model = 1.914755

Fuel Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 3 (Table 7.2-3)

Fuel Unit Volume in Fuel Rod Unit Cell = 0.688443

Moderator Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 4 (Table 7.2-3)

Moderator Unit Volume in Fuel Rod Unit Cell = 1.144539

Number of Fuel Rod Unit Cells that must be Represented in the Homogenized Zone of the Path B Model:

Identifier of Equation(s) Utilized: 5 (Table 7.2-3)

Number of Fuel Rod Unit Cells that must be Represented in the Homogenized Zone of the Path B Model = 12.36742

Table 7.2-1 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 8 and 9 of Crystal River Unit 3 that do not have a BPRA Inserted

Path B Unit Cell Model Dimensions:

	Zone #	Outer Radius (cm)	Zone Description
Inner	1	0.63246	Water filled gap
	2	0.67310	Guide tube
	3	0.81397	Guide tube unit cell moderator
	4	2.97599	Homogenized region
Outer	5	2.99939	Moderator in the assembly-to-assembly gap

Notes: The Zone 4 outer radius is calculated using Equation 6.
The Zone 5 outer radius is calculated using Equation 7.

Table 7.2-2 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 8 and 9 of Crystal River Unit 3 that have a BPRA Inserted

SAS2H Path B Unit Cell Model Dimension Calculations for Non-Rodded Fuel Assemblies Containing 16 Rod Non-Annular BPRA's in Fuel Batches 8 and 9 of Crystal River Unit 3

Input Parameters

Number of unit cells in assembly:	225
Number of fuel rods in assembly:	208
Number of guide tubes in assembly:	16
Number of BPR's in assembly:	16

Table 7.2-2 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 8 and 9 of Crystal River Unit 3 that have a BPRA Inserted

Rod pitch in assembly (cm):	1.44272
Fuel pellet diameter (cm):	0.936244
Fuel cladding outer diameter (cm):	1.0922
Guide tube outer diameter (cm):	1.3462
Guide tube inner diameter (cm):	1.26492
BPR cladding outer diameter (cm):	1.0922
BPR cladding inner diameter (cm):	0.9144
BP pellet diameter (cm):	0.8636
Instrument tube outer diameter (cm):	1.38193
Instrument tube inner diameter (cm):	1.12014
Assembly pitch (cm):	21.81098

Fuel-to-Moderator Volume Ratio Calculation:

Identifier of Equation(s) Utilized: 1 (Table 7.2-3)

Fuel-to-Moderator Volume Ratio = 0.560945

Moderator Unit Volume in Central Unit Cell of Path B Model:

Identifier of Equation(s) Utilized: 2 (Table 7.2-3)

Moderator Unit Volume in Central Unit Cell of Path B Model = 0.977852

Fuel Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 3 (Table 7.2-3)

Fuel Unit Volume in Fuel Rod Unit Cell = 0.688443

Moderator Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 4 (Table 7.2-3)

Moderator Unit Volume in Fuel Rod Unit Cell = 1.144539

Number of Fuel Rod Unit Cells that must be Represented in the Homogenized Zone of the Path B Model:

Table 7.2-2 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 8 and 9 of Crystal River Unit 3 that have a BPRA Inserted

Identifier of Equation(s) Utilized: 5 (Table 7.2-3)

Number of Fuel Rod Unit Cells that must be Represented in the Homogenized Zone of the Path B Model = 11.81651

Path B Unit Cell Model Dimensions:

	Zone #	Outer Radius (cm)	Zone Descriptions With Absorbing BPRA Inserted	Zone Descriptions With Non-Absorbing BPRA Inserted
Inner	1	0.43180	Absorbing BP Material	Non-Absorbing BP Material
	2	0.45720	Helium Gap	Helium Gap
	3	0.54610	BPR cladding	BPR cladding
	4	0.63246	Water Filled Gap	Water Filled Gap
	5	0.67310	Guide tube	Guide tube
	6	0.81397	Unit cell moderator	Unit cell moderator
	7	2.91402	Homogenized region	Homogenized region
Outer	8	2.93693	Moderator Outside Assembly	Moderator Outside Assembly

Notes: The Zone 7 outer radius is calculated using Equation 6.
The Zone 8 outer radius is calculated using Equation 7.

The Path B model that is used after the removal of the BPRA during a statepoint depletion calculation must use the same number of radial zones as the Path B model with the BPRA inserted. One difference between the Path B model with the BPRA removed and the Path B model with the BPRA inserted is that the materials in zones 1 through 3 are changed to water. Another difference is that the outer radius of zones 7 and 8 are adjusted to match the homogenized region and outer water region dimensions of the base Path B model (the Path B model with all empty guide tubes). Typically, a BPRA is not moved or removed during a reactor cycle. In this analysis there is no instance when a BPRA would need to be removed from an assembly axial node during a statepoint calculation. For this reason, the Path B model for the assembly node after removal of a BPRA during a statepoint calculation is not used in any of the assembly depletion calculations documented in this analysis. This dimensions of zones 7 and 8 for the Path B model representing the removal of the BPRA during a statepoint calculation are specified incorrectly in the CRAFT input decks for the assembly depletion calculations which are documented in

this analysis. The fact that the Path B model representing the removal of a BPRA during a statepoint calculation is never used in any of the calculations of this analysis allows all of the results generated in this analysis to remain unaffected.

Table 7.2-3 Equations Utilized in the Path B Model Dimension Calculation Spreadsheets Presented in Tables 7.2-1 and 7.2-2

Equation 1 (Fuel-to-Moderator Volume Ratio in Actual Assembly):

$$\frac{F}{M}\ Ratio = \frac{(Number\ of\ Fuel\ Rods)(\frac{\pi}{4})(Fuel\ Pellet\ Diameter)^2}{\{(Number\ of\ Fuel\ Rods)[Rod\ Pitch^2-(Clad\ OD)^2(\frac{\pi}{4})]+ (Number\ of\ Empty\ GT's)[Rod\ Pitch^2-(GT\ OD)^2(\frac{\pi}{4})+(GT\ ID)^2(\frac{\pi}{4})]+ (Number\ of\ Rodded\ GT's)[Rod\ Pitch^2-(GT\ OD)^2(\frac{\pi}{4})+(GT\ ID)^2(\frac{\pi}{4})-(Inserted\ Rod\ OD)^2(\frac{\pi}{4})]+ [Rod\ Pitch^2-(IT\ OD)^2(\frac{\pi}{4})+(IT\ ID)^2(\frac{\pi}{4})]\}}$$

where GT means guide tube, IT means instrument tube, and ID means inner diameter, OD means outer diameter. This equation assumes that there is no instrument inserted in the instrument tube, and the instrument tube is filled with moderator.

Equation 2 (Central Unit Cell Moderator Volume):

$$CUCMV = Rod\ Pitch^2-(GT\ OD)^2(\frac{\pi}{4})+(GT\ ID)^2(\frac{\pi}{4})-(Inserted\ Rod\ OD)^2(\frac{\pi}{4})$$

Equation 3 (Fuel Volume in an Assembly Lattice Cell Containing a Fuel Rod):

$$FV = (Fuel\ Pellet\ OD)^2(\frac{\pi}{4})$$

Equation 4 (Moderator Volume in an Assembly Lattice Cell Containing a Fuel Rod):

$$MV = Rod\ Pitch^2-(Fuel\ Clad\ OD)^2(\frac{\pi}{4})$$

Base equation from which Equation 5 is derived:

$$\frac{F}{M}\ Ratio = \frac{x\ (FV)}{CUCMV+\ x\ (MV)}$$

where x is the number of assembly lattice cells containing fuel rods that must be represented in the Path B homogenized region.

Equation 5:

$$x = \frac{(\frac{F}{M}\ Ratio)(CUCMV)}{FV-(\frac{F}{M}\ Ratio)(MV)}$$

Base equations from which Equations 6 and 7 are derived:

$$Area\ of\ Any\ Annular\ Region\ in\ the\ Path\ B\ Model\ =$$
$$\pi\ (Outer\ Radius\ of\ Annular\ Region^2 - Inner\ Radius\ of\ Annular\ Region^2)$$

$$\updownarrow$$

$$Outer\ Radius\ of\ Annular\ Region\ = \sqrt{\frac{Area\ of\ Annular\ Region}{\pi} + IR^2}$$

where IR means the inner radius of the annular region.

Equation 6:

$$Path\ B\ Model\ Homogenized\ Region\ Outer\ Radius\ = \sqrt{\frac{x\ (Rod\ Pitch)^2}{\pi} + IR^2}$$

Equation 7:

$$Assembly\text{-}to\text{-}Assembly\ Spacing\ Moderator\ Zone\ Outer\ Radius\ =$$
$$\{\ \frac{(x+1)}{Number\ of\ Lattice\ Cells\ in\ Assembly}\ *$$
$$[Assembly\ Pitch^2 - (Rod\ Pitch)^2(Number\ of\ Lattice\ Cells\ in\ Assembly)](\frac{1}{\pi}) + IR^2\ \}^{0.5}$$

7.3 Cycle Irradiation History Layouts for the Depletion of Non-Rodded Assemblies

The depletion layout for a given reactor cycle in the SAS2H calculations of this analysis does not change from one assembly depletion calculation to another. This is due to the fact that non-rodded assemblies may only contain BPRA's which are not moved during a reactor cycle's operation. Therefore, detailed intra-cycle variable time steps are not required to accurately follow the characteristics of a given fuel assembly axial node during each reactor cycle of irradiation. In SAS2H, the duration of an irradiation

interval may be separated into a number of time steps of variable length. Typically, an irradiation interval is a CRC statepoint calculation interval, or the continuous irradiation time required to go from one CRC statepoint to another. A user specified number of cross-section library updates are performed during each time step of an irradiation interval. The boron letdown curve of the reactor cycle may also be followed by specifying, at each irradiation step, a fraction of the soluble boron concentration defined in the base moderator material specification. This boron concentration is applied uniformly over the irradiation time step. The boron concentration fraction at the mid-point of each irradiation time step is specified in the SAS2H depletion calculations of this analysis to appropriately follow boron letdown curves. Two primary requirements apply to determining an appropriate reactor cycle irradiation layout:

1) The duration of each time step should be specified such that a maximum of 80 days of irradiation is not exceeded between cross-section updates. The SAS2H calculations in this analysis utilize one cross-section update per irradiation step. Therefore, the maximum duration of any time step in any reactor cycle irradiation layout of this analysis should not exceed 80 days. The 80 day limit is an arbitrary limit based on engineering judgement. The 80 day irradiation time step limit should assure that the isotopic concentrations of the system (primarily fuel and borated moderator) will not alter the neutron spectrum radically enough to cause a time step of the depletion calculation to be performed without the availability of cross-sections which have been properly weighted with an appropriate neutron spectrum and spatial flux.

2) Any radical perturbations in the boron letdown curve should be followed by defining irradiation time step durations such that the average boron concentration over each time step is representative of the actual boron letdown. Usually, the 80 day time step limit imposed for cross-section update frequency is adequate to properly follow a reactor cycle's boron letdown curve.

Tables 7.3-1 through 7.3-4 contain the cycle irradiation history layouts required to perform the SAS2H depletion calculations included in this analysis. The mid-step boron concentrations are obtained by using linear interpolation within the data presented in Tables 4.1.7-1 through 4.1.7-4. A description of the linear interpolation procedures employed are presented in the "UNITS_CONVERSION" subroutine description section of the CRAFT code description in Attachment I of reference 5.11.

Table 7.3-1 Crystal River Unit 3 Cycle-6
Irradiation History Layout for Non-Rodded Assemblies

Cycle-6		
BOC to Stpt2 (96.0 EFPD)		
2 : Number of Irradiation Steps		
48 : Length of Each Irradiation Step (EFPD)		
Step Number	Mid-Step ppmb	Mid-Step EFPD

1	1010.95	24.00
2	942.44	72.00

Stpt2 (96.0 EFPD) to Stpt3 (400.0 EFPD)

4 : Number of Irradiation Steps
76 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	751.31	134.00
2	547.28	210.00
3	341.80	286.00
4	152.42	362.00

Stpt3 (400.0 EFPD) to EOC (412.07 EFPD)

1 : Number of Irradiation Steps
12.07 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	121.71	406.04

Table 7.3-2 Crystal River Unit 3 Cycle-7 Irradiation History Layout for Non-Rodded Assemblies

Cycle-7

BOC to Stpt2 (260.3 EFPD)

4 : Number of Irradiation Steps
65.075 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1424.17	32.54
2	1300.75	97.61
3	1159.96	162.69
4	971.50	227.76

Stpt2 (260.3 EFPD) to Stpt3 (291.0 EFPD)

1 : Number of Irradiation Steps
30.7 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	856.06	275.65

Stpt3 (291.0 EFPD) to Stpt4 (319.0 EFPD)

1 : Number of Irradiation Steps
28 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	805.91	305.00

Stpt4 (319.0 EFPD) to Stpt5 (462.3 EFPD)

2 : Number of Irradiation Steps
71.65 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	565.35	354.83
2	356.75	426.48

Stpt5 (462.3 EFPD) to Stpt6 (479.0 EFPD)

1 : Number of Irradiation Steps
16.7 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	231.02	470.65

Stpt6 (479.0 EFPD) to EOC (497.9 EFPD)

1 : Number of Irradiation Steps
18.9 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	183.83	488.45

Table 7.3-3 Crystal River Unit 3 Cycle-8 Irradiation History Layout for Non-Rodded Assemblies

Cycle-8

BOC to Stpt2 (97.6 EFPD)

2 : Number of Irradiation Steps
48.8 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1510.73	24.40
2	1419.25	73.20

Stpt2 (97.6 EFPD) to Stpt3 (139.8 EFPD)

1 : Number of Irradiation Steps
42.2 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1305.52	118.70

Stpt3 (139.8 EFPD) to Stpt4 (404.0 EFPD)

4 : Number of Irradiation Steps
66.05 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1142.75	172.83
2	985.95	238.88
3	793.58	304.93
4	588.91	370.98

Stpt4 (404.0 EFPD) to Stpt5 (409.6 EFPD)

1 : Number of Irradiation Steps
5.6 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	484.53	406.80

Stpt5 (409.6 EFPD) to Stpt6 (515.5 EFPD)

2 : Number of Irradiation Steps
52.95 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	416.34	436.08
2	274.55	489.03

Stpt6 (515.5 EFPD) to EOC (535.9 EFPD)

1 : Number of Irradiation Steps
20.4 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	185.39	525.70

Table 7.3-4 Crystal River Unit 3 Cycle-9 Irradiation History Layout for Non-Rodded Assemblies

Cycle-9

BOC to Stpt2 (158.8 EFPD)

3 : Number of Irradiation Steps
52.93 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1599.85	26.47
2	1491.21	79.40
3	1361.78	132.33

Stpt2 (158.8 EFPD) to Stpt3 (219.0 EFPD)

1 : Number of Irradiation Steps
60.2 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1211.60	188.90

Stpt3 (219.0 EFPD) to Stpt4 (363.1 EFPD)

2 : Number of Irradiation Steps
72.05 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1016.51	255.03
2	802.70	327.08

Stpt4 (363.1 EFPD) to EOC (557.23 EFPD)

3 : Number of Irradiation Steps
64.71 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	584.95	395.46
2	388.60	460.17
3	192.66	524.88

7.4 The Commercial Reactor Assembly Follow Taskmaster (CRAFT) Code & Usage

The Commercial Reactor Assembly Follow Taskmaster (CRAFT) code directs the performance of assembly depletion and decay calculations relevant to CRC evaluations. The CRAFT code generates input decks for the SAS2H control module of the SCALE 4.3 modular code system based on user defined input which describes the fuel assembly's specifications and irradiation history. Appropriate isotopic concentrations relevant to both the CRC evaluations containing the fuel assembly and subsequent depletion and decay calculations of the fuel assembly are extracted and stored by CRAFT as it generates and executes SAS2H cases required to simulate the complete fuel assembly irradiation history.

The CRAFT code is developed with a high degree of flexibility that provides for the depletion and decay of fuel assemblies with widely varying features under either standard or non-standard core operating procedures. The following listing describes some of the capabilities and usage of the CRAFT code.

- The CRAFT code generates and executes appropriate SAS2H cases required to perform a prescribed depletion and decay sequence for a fuel assembly. The depletion and decay sequence is orchestrated from the BOC statepoint calculation of the initial prescribed insertion cycle through the final statepoint calculation of the last prescribed insertion cycle. The CRAFT code extracts and saves fuel and burnable poison isotopics at each statepoint, including BOC statepoints, during the fuel assembly's depletion and decay sequence. A certain number of the generated isotopics in the depleted fuel composition obtained from a SAS2H calculation are not used in the initial charge composition to the next SAS2H calculation due to a lack of cross-section data in the specified cross-section library. The CRAFT code provides a listing of the fuel

isotopics from the output of a SAS2H calculation which are not used in the initial charge to the next SAS2H calculation. The isotopics left out of the initial charge are fission products whose reactivity worth is small relative to the isotopics retained in the initial charge composition. The listing of excluded initial charge isotopics allows for a determination of the impact upon the reactivity worth of the initial fuel composition in the subsequent depletion calculation.

- Any assembly design may be analyzed within the bounds of the SAS2H control module through the use of the CRAFT code. This includes both PWR and BWR fuel assemblies.

- An axial blanket fuel modeling option is available in the CRAFT code. Any UO_2 enrichment may be specified for the axial blanket fuel. The axial blanket fuel may be defined to exist in any of the CRC axial nodes which are defined for the CRAFT calculation.

- A spacer grid modeling technique is available with the CRAFT code. The modeling technique homogenizes the spacer grid material throughout the moderator of the fuel assembly by utilizing a user defined spacer material and spacer material volume fraction in the moderator. The available spacer grid materials include the following-- ZIRC-4, INCONEL, SS316, SS316S, SS304, SS304S. Any volume fraction of spacer material in the moderator may be specified (including zero).

- The fuel cladding, BPR cladding, axial power shaping rod (APSR) cladding, or control rod (CR) cladding in the CRAFT calculation may be designated as any of the following materials-- ZIRC-4, INCONEL, SS316, SS316S, SS304, SS304S.

- The insertion of a BPR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique BPR assembly design may be specified for use during the depletion of a fuel assembly. Any type of BPR assembly design may be specified. The default BP material for use in CRAFT calculation is Al_2O_3-B_4C. Any arbitrary BP material may be specified for use in a BPR assembly design. A maximum of 10 unique BP materials may be specified. A maximum of 20 unique elements or isotopes may be specified in any given BP material. A BPR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Only one BPR assembly design may be specified per cycle. The position of the BPR assembly in the fuel assembly is specified by identifying the top and bottom axial nodes of the BP material. The BPR assembly remains fixed during a given reactor cycle. The depletion of the BP material is tracked during the CRAFT calculation. The appropriate depleted BP material is utilized in statepoint calculations following the BOC to statepoint 1 calculation for a given reactor cycle. Depleted BP material isotopic concentrations are also retained for use in subsequent mid-cycle statepoint reactivity calculations which may be performed as part of the CRC evaluation process.

- The insertion of a CR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique CR assembly designs may be specified for use during the depletion of a fuel assembly. Any type of CR assembly design may be specified. Any arbitrary CR absorber material may be specified for use in a CR assembly design. A maximum of 10

unique CR absorber materials may be specified. A maximum of 10 unique elements or isotopes may be specified in any given CR absorber material. A CR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Multiple CR assembly designs may be specified per cycle. The position of the CR assembly in the fuel assembly is specified by identifying the top and bottom axial nodes of the CR absorber material. The CR assembly position may be changed between each irradiation step of a SAS2H calculation generated by CRAFT. The CR assembly design may also be changed between any two statepoint calculations in a given reactor cycle.

- The insertion of an APSR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique APSR assembly designs may be specified for use during the depletion of a fuel assembly. Any type of APSR assembly design may be specified. Any arbitrary APSR absorber material may be specified for use in an APSR assembly design. A maximum of 10 unique APSR absorber materials may be specified. A maximum of 10 unique elements or isotopes may be specified in any given APSR absorber material. An APSR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Multiple APSR assembly designs may be specified per cycle. The position of the APSR assembly in the fuel assembly is specified by identifying the top and bottom axial nodes of the APSR absorber material. The APSR assembly position may be changed between each irradiation step of a SAS2H calculation generated by CRAFT. The APSR assembly design may also be changed between any statepoint calculations in a given reactor cycle. For any APSRA modeled, the APSR follow rods are modeled in the axial region above the absorbing region of the APSR. The APSR follow rod material may be specified as a cladding material in the CRAFT input deck.

- A fuel assembly may be inserted in a maximum of 10 reactor cycles during a CRAFT calculation.

- A maximum of 20 statepoints (BOC is always considered a statepoint) may be specified in any given reactor cycle in a CRAFT calculation.

- A maximum of 23 irradiation steps of variable duration may be specified in any given SAS2H statepoint calculation to be generated during a CRAFT calculation.

- A maximum of 50 axial nodes may be specified in the CRC nodal format for use in a CRAFT calculation. Each axial node may have a unique height.

- The CRAFT code utilizes a user-defined input format for fuel temperature, moderator specific volume, and burnup data. The input data must be specified for each axial node in a user-defined nodal format of up to 50 nodes of arbitrary height. The total assembly active fuel height for the input data descriptions may be different than that specified in the CRC nodal format. Depending on the users needs, the fuel temperature, moderator specific volume and burnup input data may be specified in a different nodal format each time an assembly set of this input data is provided. Nominal fuel temperature input data representing full-power reactor operation must be provided in units of degrees Fahrenheit for each node in each statepoint calculation to be generated by the CRAFT calculation. Nominal moderator specific volume input data representing full-power

reactor operation must be provided in units of cubic feet per pound for each node in each statepoint calculation to be generated by the CRAFT calculation. The nodal average burnup input data must be provided in units of GWd/MTU for each node at each statepoint including the BOC statepoint. All burnup input data that is specified must be cumulative from the initial insertion of the fuel assembly in the reactor.

- A continuation CRAFT calculation for an assembly may be initiated from any statepoint in any reactor cycle if all of the nodal consolidated output files ("*.cut" files) from the statepoint calculation immediately preceding the continuation calculation exist in the CRAFT execution directory.

Additional information on the CRAFT code is provided in the CRAFT user information in Attachment I of reference 5.11. Instructions on how to develop CRAFT input decks and execute CRAFT calculations are also provided in Attachment I of reference 5.11. This attachment also discusses specific modeling procedures and details relevant to the SAS2H fuel assembly depletion calculations which are generated by CRAFT.

7.5 Input & Output Filename Descriptions for CRAFT and SAS2H

The CRAFT code generates five types of files identified as either "*.input", "*.output", "*.cut", "*.msgs", or "*.notes", where the "*" is the base file set identifier for the statepoint calculation of interest. The "*.cut" and "*.notes" files are the only files that must be retained for CRC evaluation and documentation purposes. All files are generated in the working directory in which the CRAFT calculation is performed.

All CRAFT generated filenames utilize the following format-- "{Base File Set Identifier}.{suffix}". Where the suffix corresponds to one of the five file types previously mentioned, and the base file set identifier is a 25 character name containing essential information necessary to delineate one CRAFT generated SAS2H calculation from another.

The base file set identifier for a statepoint calculation contains the following information:

1) reactor identifier (three character);
2) one-eighth core symmetry assembly number in current reactor cycle (two digit);
3) axial node number (node 1 is always the top node) (two digit);
4) reactor cycle number in which the SAS2H calculation starts (two character);
5) EFPD statepoint at which the SAS2H calculation starts (three digit);
6) reactor cycle number in which the SAS2H calculation ends (two character);
7) EFPD statepoint at which the SAS2H calculation ends (three digit).

The format of the base file set identifier is as follows where the numbers identified as #{number} correspond to one of the seven items previously listed-- #1 A #2 N #3 DC #4 T #5 AC #6 T #7. The letters contained in the base file set identifier are presented explicitly as shown in the previous format. The base file set identifier does not contain any spaces.

The "*.input" files contain a CRAFT generated SAS2H input deck. The "*.output" files contain a complete SAS2H calculation output file. The "*.cut" files contain the corresponding SAS2H input deck followed by an output extraction, from the final ORIGEN-S pass of the SAS2H calculation, which contains data relevant to CRC evaluations. The "*.msgs" files contain the standard run-time messages associated with the SAS2H calculation. The "*.notes" files contain a listing of the isotopes and their concentration which were left behind in generating the initial charge fuel composition for a continuation SAS2H calculation. The "*.notes" files are only created for CRAFT generated SAS2H calculations which represent continuation depletion and decay calculations. The "*.cut" and "*.notes" files contain all of the information which is required to perform CRC evaluations or repeat calculations as necessary for quality assurance purposes. The remainder of the CRAFT generated files may be discarded once the "*.cut" and "*.notes" files have been produced correctly.

7.6 Non-Rodded Assembly Depletion Calculations for Fuel Batches 8 and 9 of Crystal River Unit 3

Depletion calculations for 20 non-rodded fuel assemblies from fuel batches 8 and 9 of Crystal River Unit 3 are documented in this analysis. The depleted fuel and depleted burnable poison isotopics for these fuel assemblies must be calculated at a number of statepoints during several reactor cycles of Crystal River Unit 3 for use in subsequent CRC reactivity calculations. The assembly depletion calculations documented in this analysis are applicable to CRC statepoints in Cycle-6, -7, -8, and -9 of Crystal River Unit 3. Table 7.6-1 identifies the CRC statepoint EFPD values in each of these cycles for which isotopic compositions are required.

Table 7.6-1 CRC Statepoint EFPD Values Relevant to Non-Rodded Assembly Depletion Calculations from Fuel Batches 8 and 9 of Crystal River Unit 3

Crystal River Unit 3 Reactor Cycle	CRC Statepoint EFPD Values
6	0.0 (BOC)
6	96.0
6	400.0
7	0.0 (BOC)
7	260.3
7	291.0
7	319.0
7	462.3
7	479.0
8	0.0 (BOC)
8	97.6

Crystal River Unit 3 Reactor Cycle	CRC Statepoint EFPD Values
8	139.8
8	404.0
8	409.6
8	515.5
9	0.0 (BOC)
9	158.8
9	219.0
9	363.1

CRAFT input decks for each of the fuel assemblies identified in Tables 4.1.4-1 and 4.1.5-1 were developed and executed such that their depleted fuel and depleted burnable poison (if applicable) isotopic concentrations were retained at each of the CRC statepoints identified in Table 7.6-1 for which a particular assembly is inserted. The CRAFT input decks were developed in accordance with the instructions presented in Sections 5 and 7 of Attachment I of reference 5.11. SAS2H modeling features incorporated in the depletion calculations of this analysis are described in Attachment I of reference 5.11. The CRAFT input decks for the assembly depletions documented in this analysis are provided in Attachments I through XX, as documented in Section 9.

The SAS2H input decks generated for the various depletion calculations have similar structures depending on the characteristics of the fuel assembly axial node that is being depleted. The following listing presents the base SAS2H input deck descriptions.

- Fuel assembly axial node containing empty guide tubes
- Fuel assembly axial node containing an absorbing BPR region in each guide tube
- Fuel assembly axial node (top node) containing a non-absorbing BPR region in each guide tube

All of the SAS2H input decks generated by CRAFT in this analysis will correspond to one of the afore-mentioned base SAS2H input decks depending on the assembly characteristics being modeled in the specific depletion calculation. The material compositions of the fuel, burnable absorber, and moderator are modified for each SAS2H case depending on the depleted material compositions at the beginning of the SAS2H case and the irradiation parameters for the SAS2H case as defined in the CRAFT input deck. The material specifications for the fuel and burnable absorber have different formats in the SAS2H input decks depending on whether the depletion case represents the initial depletion calculation for the assembly axial node or a continuation depletion calculation for the axial node utilizing previously calculated fuel and burnable poison (if applicable) isotopics for the initial charge compositions.

The following six example SAS2H input decks are presented to demonstrate the modeling techniques employed by CRAFT in generating appropriate SAS2H depletion cases for the fuel assembly depletion calculations relevant to this analysis. These example input decks are actual SAS2H input decks which were generated and executed during the depletion of fuel assemblies relevant to CRC evaluations (the assemblies from which these examples are obtained may not be documented in this analysis). Each section of the SAS2H input decks are modified as necessary to perform each depletion calculation according to the pertinent information provided in the CRAFT input deck.

SAS2H Depletion Input Deck Example 1: BOL Depletion Calculation for a B&W Fuel Assembly Axial Node Containing 208 Fuel Rods, 16 Empty Guide Tubes, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-03, Node-05 (Cyc-1A,     .0 to Cyc-1B,     .0 EFPD)
44group         latticecell
'
'    fuel density based on mass of uranium per assembly & total pellet stack
'    volume to account for fuel volume loss to pellet chamfers
'
'      material specification input
'
uo2 1 den=10.121 1 1066.3 92234  .016 92235 1.930 92236  .009 92238 98.045 end
kr-83         1    0    1-21    1066.3    end
kr-85         1    0    1-21    1066.3    end
sr-90         1    0    1-21    1066.3    end
y-89          1    0    1-21    1066.3    end
mo-95         1    0    1-21    1066.3    end
zr-93         1    0    1-21    1066.3    end
zr-94         1    0    1-21    1066.3    end
zr-95         1    0    1-21    1066.3    end
nb-94         1    0    1-21    1066.3    end
tc-99         1    0    1-21    1066.3    end
rh-103        1    0    1-21    1066.3    end
rh-105        1    0    1-21    1066.3    end
ru-101        1    0    1-21    1066.3    end
ru-106        1    0    1-21    1066.3    end
pd-105        1    0    1-21    1066.3    end
pd-108        1    0    1-21    1066.3    end
ag-109        1    0    1-21    1066.3    end
sb-124        1    0    1-21    1066.3    end
xe-131        1    0    1-21    1066.3    end
xe-132        1    0    1-21    1066.3    end
xe-135        1    0    1-21    1066.3    end
xe-136        1    0    1-21    1066.3    end
cs-134        1    0    1-21    1066.3    end
cs-135        1    0    1-21    1066.3    end
cs-137        1    0    1-21    1066.3    end
ba-136        1    0    1-21    1066.3    end
la-139        1    0    1-21    1066.3    end
ce-144        1    0    1-21    1066.3    end
nd-143        1    0    1-21    1066.3    end
nd-145        1    0    1-21    1066.3    end
pm-147        1    0    1-21    1066.3    end
pm-148        1    0    1-21    1066.3    end
nd-147        1    0    1-21    1066.3    end
sm-147        1    0    1-21    1066.3    end
sm-149        1    0    1-21    1066.3    end
```

```
sm-150        1    0    1-21    1066.3    end
sm-151        1    0    1-21    1066.3    end
sm-152        1    0    1-21    1066.3    end
gd-155        1    0    1-21    1066.3    end
eu-153        1    0    1-21    1066.3    end
eu-154        1    0    1-21    1066.3    end
eu-155        1    0    1-21    1066.3    end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7343    .99424      588.9    end
arbm-bormod     .7343 1 0 0 0 5000 100 3 .00092    588.9 end
arbm-spacer     .7343 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576    588.9 end
'
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9398   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=20.003 ncycles=04 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=05 mxrepeats=1 mixmod=3 facmesh=.50 end
  3  .63246   2  .67310   3  .81397 500 2.97599   3 2.99939
'
'     assembly depletion/decay parameters
'
'   Cycle-1A, one-eighth core assembly number 03
power=1.0928     burn=67.20     down=.00000E+00 bfrac=1.000     end
power=1.0928     burn=67.20     down=.00000E+00 bfrac=.9470     end
power=1.0928     burn=67.20     down=.00000E+00 bfrac=.8016     end
power=1.0928     burn=67.20     down=195.29     bfrac=.6603     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 2: Continuation Depletion Calculation for a B&W Fuel Assembly Axial Node Containing 208 Fuel Rods, 16 Empty Guide Tubes, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-03, Node-05 (Cyc-1B,     .0 to Cyc-1B, 142.2 EFPD)
44group         latticecell
'
'    fuel density based on mass of uranium per assembly & total pellet stack
'    volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
arbm-fuel   10.1     183 0 0 0 8016   11.8
```

2004	.135E-05	90230	.373E-07		
90232	.411E-08	91231	.568E-08	92233	.578E-07
92234	.112E-01	92235	.887	92236	.147
92238	85.6	93237	.934E-02	94236	.466E-08
94238	.126E-02	94239	.356	94240	.907E-01
94241	.383E-01	94242	.650E-02	95241	.137E-02
95601	.578E-05	95243	.524E-03	96242	.289E-04
96243	.640E-06	96244	.507E-04	96245	.760E-06
96246	.400E-07	1003	.153E-05	3006	.876E-08
32072	.147E-06	32073	.448E-06	32074	.373E-06
33075	.363E-05	32076	.111E-04	34076	.397E-07
34077	.255E-04	34078	.784E-04	34080	.428E-03
35081	.640E-03	34082	.103E-02	36082	.897E-05
36083	.151E-02	36084	.353E-02	36085	.763E-03
37085	.299E-02	36086	.602E-02	38086	.390E-05
37087	.787E-02	38087	.249E-07	38088	.113E-01
38089	.249E-03	39089	.149E-01	38090	.180E-01
39090	.469E-05	40090	.418E-03	39091	.541E-03
40091	.189E-01	40092	.205E-01	40093	.151E-01
40094	.240E-01	41094	.137E-07	40095	.948E-03
41095	.103E-02	42095	.228E-01	40096	.251E-01
42096	.221E-03	42097	.235E-01	42098	.252E-01
43099	.261E-01	44099	.952E-06	42100	.285E-01
44100	.122E-02	44101	.238E-01	44102	.224E-01
44103	.145E-03	45103	.176E-01	44104	.150E-01
46104	.215E-02	46105	.989E-02	44106	.448E-02
46106	.496E-02	46107	.544E-02	46108	.342E-02
47109	.248E-02	46110	.101E-02	48110	.380E-03
48111	.527E-03	48112	.277E-03	48113	.548E-05
49113	.123E-06	48114	.311E-03	48601	.575E-07
49115	.664E-04	50115	.493E-05	48116	.142E-03
50116	.346E-04	50117	.129E-03	50118	.105E-03
50119	.112E-03	50120	.109E-03	51121	.115E-03
50122	.142E-03	52122	.282E-05	50123	.212E-05
51123	.133E-03	52123	.136E-07	50124	.239E-03
51124	.114E-06	52124	.225E-05	51125	.234E-03
52125	.534E-04	50126	.531E-03	52126	.774E-05
52601	.337E-04	53127	.122E-02	52128	.264E-02
54128	.217E-04	52611	.359E-05	53129	.544E-02
54129	.424E-07	52130	.110E-01	54130	.907E-04
54131	.160E-01	54132	.298E-01	55133	.383E-01
54134	.462E-01	55134	.147E-02	56134	.435E-03
55135	.654E-02	56135	.366E-06	54136	.736E-01
55136	.863E-09	56136	.227E-03	55137	.380E-01
56137	.815E-03	56138	.394E-01	57139	.377E-01
56140	.620E-07	57140	.938E-08	58140	.380E-01
58141	.928E-04	59141	.346E-01	58142	.349E-01
60142	.192E-03	59143	.118E-06	60143	.304E-01
58144	.142E-01	60144	.217E-01	60145	.224E-01
60146	.197E-01	60147	.366E-08	61147	.887E-02
62147	.224E-02	60148	.112E-01	61148	.166E-07
61601	.241E-05	62148	.153E-02	62149	.273E-03
60150	.524E-02	62150	.859E-02	62151	.695E-03
63151	.334E-05	62152	.459E-02	63152	.763E-06
64152	.555E-06	63153	.266E-02	62154	.989E-03
63154	.310E-03	64154	.198E-04	63155	.114E-03
64155	.986E-05	63156	.184E-07	64156	.989E-03
64157	.507E-05	64158	.373E-03	65159	.531E-04
64160	.235E-04	65160	.222E-06	66160	.229E-05
66161	.917E-05	66162	.599E-05	66163	.319E-05

```
      66164   .753E-06      67165   .804E-06      68166   .110E-06
      1   1.0    974.3   end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7433   .99424     585.2   end
arbm-bormod    .7433 1 0 0 0 5000 100 3 .00052   585.2 end
arbm-spacer    .7433 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
               26000 7.0 28000 73.0 3 .00576   585.2 end
'
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9398   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=20.003 ncycles=02 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=05 mxrepeats=1 mixmod=3 facmesh=.50 end
  3  .63246   2  .67310   3  .81397 500 2.97599   3 2.99939
'
'     assembly depletion/decay parameters
'
'   Cycle-1B, one-eighth core assembly number 03
power=.92563     burn=71.10     down=.00000E+00 bfrac=1.000     end
power=.92563     burn=71.10     down=14.792     bfrac=.4938     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 3: BOL Depletion Calculation for a B&W Fuel Assembly Top Axial Node Containing 208 Fuel Rods, 16 Guide Tubes with BPR's Inserted, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-02, Node-01 (Cyc-1A,     .0 to Cyc-1B,     .0 EFPD)
44group         latticecell
'
'   fuel density based on mass of uranium per assembly & total pellet stack
'   volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
uo2 1 den=10.121 1  820.6 92234  .021 92235 2.540 92236  .012 92238 97.427 end
kr-83         1   0   1-21    820.6   end
kr-85         1   0   1-21    820.6   end
sr-90         1   0   1-21    820.6   end
y-89          1   0   1-21    820.6   end
mo-95         1   0   1-21    820.6   end
zr-93         1   0   1-21    820.6   end
zr-94         1   0   1-21    820.6   end
```

```
zr-95          1    0    1-21     820.6    end
nb-94          1    0    1-21     820.6    end
tc-99          1    0    1-21     820.6    end
rh-103         1    0    1-21     820.6    end
rh-105         1    0    1-21     820.6    end
ru-101         1    0    1-21     820.6    end
ru-106         1    0    1-21     820.6    end
pd-105         1    0    1-21     820.6    end
pd-108         1    0    1-21     820.6    end
ag-109         1    0    1-21     820.6    end
sb-124         1    0    1-21     820.6    end
xe-131         1    0    1-21     820.6    end
xe-132         1    0    1-21     820.6    end
xe-135         1    0    1-21     820.6    end
xe-136         1    0    1-21     820.6    end
cs-134         1    0    1-21     820.6    end
cs-135         1    0    1-21     820.6    end
cs-137         1    0    1-21     820.6    end
ba-136         1    0    1-21     820.6    end
la-139         1    0    1-21     820.6    end
ce-144         1    0    1-21     820.6    end
nd-143         1    0    1-21     820.6    end
nd-145         1    0    1-21     820.6    end
pm-147         1    0    1-21     820.6    end
pm-148         1    0    1-21     820.6    end
nd-147         1    0    1-21     820.6    end
sm-147         1    0    1-21     820.6    end
sm-149         1    0    1-21     820.6    end
sm-150         1    0    1-21     820.6    end
sm-151         1    0    1-21     820.6    end
sm-152         1    0    1-21     820.6    end
gd-155         1    0    1-21     820.6    end
eu-153         1    0    1-21     820.6    end
eu-154         1    0    1-21     820.6    end
eu-155         1    0    1-21     820.6    end
arbm-zirc4  6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o    3   den=.7198    .99424      594.5    end
arbm-bormod     .7198 1 0 0 0 5000 100 3 .00092    594.5 end
arbm-spacer     .7198 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576    594.5 end
'
'
'     BPR above the BP absorber region
'
al      6   den=3.700   .52924    594.5 end
o       6   den=3.700   .47076    594.5 end
'
he      5   end
end comp
'
'     base reactor lattice specification
'
squarepitch    1.44272     .9398    1    3    1.0922    2     .9576    0    end
more data szf=0.50 end
'
'     assembly specification
```

```
'
npin/assembly=208 fuelngth=17.780 ncycles=04 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=08 mxrepeats=1 mixmod=3 facmesh=.50 end
  6  .43180   5  .45720   2  .54610   3  .63246   2  .67310
  3  .81397 500 2.91402   3 2.93693
'
'     assembly depletion/decay parameters
'
'   Cycle-1A, one-eighth core assembly number 02
power=.35463     burn=67.20     down=.00000E+00 bfrac=1.000     end
power=.35463     burn=67.20     down=.00000E+00 bfrac=.9470     end
power=.35463     burn=67.20     down=.00000E+00 bfrac=.8016     end
power=.35463     burn=67.20     down=195.29     bfrac=.6603     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 4: Continuation Depletion Calculation for a B&W Fuel Assembly Top Axial Node Containing 208 Fuel Rods, 16 Guide Tubes with BPR's Inserted, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-04, Node-01 (Cyc-04, 228.1 to Cyc-04, 253.0 EFPD)
44group         latticecell
'
'   fuel density based on mass of uranium per assembly & total pellet stack
'   volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
arbm-fuel   10.2     192 0 0 0 8016   11.9
      2004   .114E-06      90230   .327E-07
     92233   .309E-07      92234   .177E-01      92235   1.84
     92236   .977E-01      92237   .305E-04      92238   85.4
     93237   .311E-02      93238   .302E-07      94238   .184E-03
     94239   .216          94240   .243E-01      94241   .636E-02
     94242   .337E-03      95241   .915E-04      95601   .946E-06
     95243   .103E-04      96242   .563E-05      96243   .334E-07
     96244   .387E-06       1003   .678E-06       3006   .406E-08
     32072   .410E-07      32073   .142E-06      32074   .119E-06
     33075   .174E-05      32076   .555E-05      34076   .747E-08
     34077   .126E-04      34078   .354E-04      34080   .208E-03
     35081   .311E-03      34082   .521E-03      36082   .185E-05
     36083   .827E-03      36084   .177E-02      36085   .398E-03
     37085   .157E-02      36086   .319E-02      37086   .747E-07
     38086   .720E-06      37087   .417E-02      38087   .674E-08
     38088   .597E-02      38089   .140E-02      39089   .670E-02
     38090   .961E-02      39090   .250E-05      40090   .242E-03
     39091   .208E-02      40091   .816E-02      40092   .106E-01
     40093   .766E-02      40094   .119E-01      41094   .363E-08
     40095   .277E-02      41095   .162E-02      42095   .781E-02
     40096   .121E-01      42096   .659E-04      42097   .112E-01
     42098   .118E-01      42099   .346E-05      43099   .125E-01
     44099   .320E-06      42100   .131E-01      44100   .239E-03
     44101   .109E-01      44102   .973E-02      44103   .115E-02
     45103   .628E-02      44104   .540E-02      46104   .440E-03
     45105   .277E-07      46105   .353E-02      44106   .149E-02
```

```
      46106   .793E-03      46107   .129E-02      46108   .770E-03
      47109   .563E-03      46110   .236E-03      48110   .339E-04
      47111   .160E-05      48111   .129E-03      48112   .770E-04
      48113   .429E-05      49113   .123E-07      48114   .102E-03
      48601   .275E-06      49115   .299E-04      50115   .180E-05
      48116   .536E-04      50116   .597E-05      50117   .429E-04
      50118   .383E-04      50119   .414E-04      50120   .410E-04
      51121   .440E-04      50122   .525E-04      52122   .394E-06
      50123   .189E-05      51123   .502E-04      50124   .877E-04
      51124   .137E-06      52124   .245E-06      50125   .467E-06
      51125   .854E-04      52125   .169E-04      50126   .170E-03
      51126   .317E-07      52126   .185E-05      52601   .303E-04
      53127   .410E-03      52128   .107E-02      54128   .331E-05
      52611   .506E-04      53129   .221E-02      54129   .296E-08
      52130   .490E-02      54130   .155E-04      53131   .862E-04
      54131   .766E-02      52132   .735E-05      54132   .128E-01
      54133   .709E-04      55133   .183E-01      54134   .217E-01
      55134   .338E-03      56134   .483E-04      55135   .800E-02
      56135   .682E-07      54136   .287E-01      55136   .350E-05
      56136   .758E-04      55137   .175E-01      56137   .398E-03
      56138   .188E-01      57139   .180E-01      56140   .460E-03
      57140   .693E-04      58140   .182E-01      58141   .178E-02
      59141   .149E-01      58142   .168E-01      60142   .391E-04
      58143   .498E-07      59143   .509E-03      60143   .156E-01
      58144   .869E-02      60144   .770E-02      60145   .112E-01
      60146   .911E-02      60147   .131E-03      61147   .486E-02
      62147   .119E-02      60148   .521E-02      61148   .207E-05
      61601   .211E-04      62148   .421E-03      61149   .359E-06
      62149   .183E-03      60150   .225E-02      62150   .343E-02
      61151   .123E-08      62151   .601E-03      63151   .170E-05
      62152   .179E-02      63152   .229E-05      64152   .124E-05
      62153   .475E-07      63153   .804E-03      62154   .338E-03
      63154   .586E-04      64154   .206E-05      63155   .490E-04
      64155   .900E-06      63156   .119E-04      64156   .222E-03
      64157   .216E-05      64158   .827E-04      65159   .124E-04
      64160   .529E-05      65160   .124E-06      66160   .148E-06
      66161   .214E-05      66162   .108E-05      66163   .460E-06
      66164   .137E-06      67165   .835E-07      68166   .115E-07
     1   1.0    872.8   end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
          40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7198   .99424     594.5   end
arbm-bormod     .7198 1 0 0 0 5000 100 3 .00022   594.5 end
arbm-spacer     .7198 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576   594.5 end
'
'
'     BPR above the BP absorber region
'
al     6   den=3.700   .52924   594.5 end
o      6   den=3.700   .47076   594.5 end
'
he     5   end
end comp
'
'     base reactor lattice specification
'
```

```
squarepitch   1.44272    .9390   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=17.780 ncycles=01 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=08 mxrepeats=1 mixmod=3 facmesh=.50 end
  6  .43180   5  .45720   2  .54610   3  .63246   2  .67310
  3  .81397 500 2.91402   3 2.93693
'
'     assembly depletion/decay parameters
'
'   Cycle-04, one-eighth core assembly number 04
power=.45617     burn=24.90     down=24.000     bfrac=1.000     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 5: BOL Depletion Calculation for a B&W Fuel Assembly Axial Node (Other than Top Node) Containing 208 Fuel Rods, 16 Guide Tubes with BPR's Inserted, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-02, Node-02 {Cyc-1A,     .0 to Cyc-1B,     .0 EFPD}
44group         latticecell
'
'    fuel density based on mass of uranium per assembly & total pellet stack
'    volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
uo2 1 den=10.121 1  936.2 92234  .021 92235 2.540 92236  .012 92238 97.427 end
kr-83        1   0   1-21    936.2   end
kr-85        1   0   1-21    936.2   end
sr-90        1   0   1-21    936.2   end
y-89         1   0   1-21    936.2   end
mo-95        1   0   1-21    936.2   end
zr-93        1   0   1-21    936.2   end
zr-94        1   0   1-21    936.2   end
zr-95        1   0   1-21    936.2   end
nb-94        1   0   1-21    936.2   end
tc-99        1   0   1-21    936.2   end
rh-103       1   0   1-21    936.2   end
rh-105       1   0   1-21    936.2   end
ru-101       1   0   1-21    936.2   end
ru-106       1   0   1-21    936.2   end
pd-105       1   0   1-21    936.2   end
pd-108       1   0   1-21    936.2   end
ag-109       1   0   1-21    936.2   end
sb-124       1   0   1-21    936.2   end
xe-131       1   0   1-21    936.2   end
xe-132       1   0   1-21    936.2   end
xe-135       1   0   1-21    936.2   end
xe-136       1   0   1-21    936.2   end
cs-134       1   0   1-21    936.2   end
cs-135       1   0   1-21    936.2   end
cs-137       1   0   1-21    936.2   end
```

```
ba-136        1    0    1-21     936.2    end
la-139        1    0    1-21     936.2    end
ce-144        1    0    1-21     936.2    end
nd-143        1    0    1-21     936.2    end
nd-145        1    0    1-21     936.2    end
pm-147        1    0    1-21     936.2    end
pm-148        1    0    1-21     936.2    end
nd-147        1    0    1-21     936.2    end
sm-147        1    0    1-21     936.2    end
sm-149        1    0    1-21     936.2    end
sm-150        1    0    1-21     936.2    end
sm-151        1    0    1-21     936.2    end
sm-152        1    0    1-21     936.2    end
gd-155        1    0    1-21     936.2    end
eu-153        1    0    1-21     936.2    end
eu-154        1    0    1-21     936.2    end
eu-155        1    0    1-21     936.2    end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o    3   den=.7226    .99424      593.4    end
arbm-bormod     .7226 1 0 0 0 5000 100 3 .00092    593.4 end
arbm-spacer     .7226 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576    593.4 end
'
'
'     burnable absorber pellet specification
'
b4c    4    den=3.700   .01340    593.4 end
al     4    den=3.700   .52215    593.4 end
o      4    den=3.700   .46445    593.4 end
'
he     5    end
end comp
'
'     base reactor lattice specification
'
squarepitch    1.44272     .9398    1    3    1.0922    2     .9576    0    end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=20.003 ncycles=04 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=08 mxrepeats=1 mixmod=3 facmesh=.50 end
  4   .43180    5   .45720    2   .54610    3   .63246    2   .67310
  3   .81397 500 2.91402    3 2.93693
'
'     assembly depletion/decay parameters
'
'   Cycle-1A, one-eighth core assembly number 02
power=.63623      burn=67.20      down=.00000E+00 bfrac=1.000      end
power=.63623      burn=67.20      down=.00000E+00 bfrac=.9470      end
power=.63623      burn=67.20      down=.00000E+00 bfrac=.8016      end
power=.63623      burn=67.20      down=195.29     bfrac=.6603      end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 6: Continuation Depletion Calculation for a B&W Fuel Assembly Axial Node (Other than Top Node) Containing 208 Fuel Rods, 16 Guide Tubes with BPR's Inserted, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-04, Node-05 (Cyc-04, 228.1 to Cyc-04, 253.0 EFPD)
44group         latticecell
'
'    fuel density based on mass of uranium per assembly & total pellet stack
'    volume to account for fuel volume loss to pellet chamfers
'
'      material specification input
'
arbm-fuel   10.3     199 0 0 0 8016   11.8
      2004   .129E-05      90230   .284E-07
     90232   .273E-08      91231   .302E-08      92233   .657E-07
     92234   .154E-01      92235   1.30          92236   .192
     92237   .128E-03      92238   85.0          93237   .116E-01
     93238   .275E-06      94236   .657E-08      94237   .299E-08
     94238   .159E-02      94239   .388          94240   .873E-01
     94241   .408E-01      94242   .593E-02      95241   .637E-03
     95601   .995E-05      95243   .512E-03      96242   .118E-03
     96243   .189E-05      96244   .533E-04      96245   .860E-06
     96246   .401E-07       1003   .174E-05       3006   .833E-08
     32072   .123E-06      32073   .506E-06      32074   .311E-06
     33075   .425E-05      32076   .132E-04      34076   .472E-07
     34077   .302E-04      34078   .904E-04      34080   .502E-03
     35081   .752E-03      34082   .123E-02      36082   .105E-04
     36083   .182E-02      36084   .421E-02      36085   .914E-03
     37085   .361E-02      36086   .728E-02      37086   .452E-06
     38086   .482E-05      37087   .951E-02      38087   .229E-07
     38088   .136E-01      38089   .290E-02      39089   .154E-01
     38090   .218E-01      39090   .566E-05      40090   .614E-03
     39091   .442E-02      40091   .191E-01      40092   .246E-01
     40093   .180E-01      40094   .285E-01      41094   .116E-07
     40095   .630E-02      41095   .371E-02      42095   .190E-01
     40096   .295E-01      42096   .421E-03      42097   .275E-01
     42098   .293E-01      42099   .829E-05      43099   .302E-01
     44099   .112E-05      42100   .330E-01      44100   .151E-02
     44101   .274E-01      44102   .256E-01      44103   .322E-02
     45103   .160E-01      44104   .162E-01      46104   .279E-02
     45105   .914E-07      46105   .111E-01      44106   .560E-02
     46106   .337E-02      46107   .539E-02      46108   .341E-02
     47109   .242E-02      46110   .100E-02      48110   .381E-03
     47111   .671E-05      48111   .523E-03      48112   .285E-03
     48113   .634E-05      49113   .405E-07      48114   .332E-03
     48601   .860E-06      49115   .715E-04      50115   .536E-05
     48116   .155E-03      50116   .367E-04      50117   .137E-03
     50118   .114E-03      50119   .121E-03      50120   .119E-03
     51121   .125E-03      50122   .154E-03      52122   .312E-05
     50123   .496E-05      51123   .143E-03      52123   .131E-07
     50124   .260E-03      51124   .974E-06      52124   .170E-05
     50125   .138E-05      51125   .259E-03      52125   .509E-04
     50126   .560E-03      51126   .134E-06      52126   .786E-05
     52601   .934E-04      53127   .125E-02      52128   .295E-02
     54128   .275E-04      52611   .138E-03      53129   .597E-02
     54129   .644E-07      52130   .126E-01      54130   .991E-04
     53131   .217E-03      54131   .180E-01      52132   .182E-04
```

```
      54132   .344E-01      54133   .171E-03      55133   .442E-01
      54134   .539E-01      55134   .205E-02      56134   .313E-03
      55135   .113E-01      56135   .110E-05      54136   .813E-01
      55136   .130E-04      56136   .290E-03      55137   .438E-01
      56137   .106E-02      56138   .462E-01      57139   .438E-01
      56140   .108E-02      57140   .163E-03      58140   .448E-01
      58141   .418E-02      59141   .364E-01      58142   .411E-01
      60142   .245E-03      58143   .113E-06      59143   .115E-02
      60143   .347E-01      58144   .200E-01      60144   .221E-01
      60145   .264E-01      60146   .231E-01      60147   .310E-03
      61147   .101E-01      62147   .264E-02      60148   .130E-01
      61148   .900E-05      61601   .698E-04      62148   .203E-02
      61149   .108E-05      62149   .300E-03      60150   .593E-02
      62150   .957E-02      61151   .337E-08      62151   .880E-03
      63151   .107E-05      62152   .496E-02      63152   .273E-05
      64152   .246E-05      62153   .225E-06      63153   .297E-02
      62154   .106E-02      63154   .384E-03      64154   .137E-04
      63155   .133E-03      64155   .156E-05      63156   .624E-04
      64156   .988E-03      64157   .512E-05      64158   .364E-03
      65159   .526E-04      64160   .233E-04      65160   .126E-05
      66160   .141E-05      66161   .887E-05      66162   .580E-05
      66163   .317E-05      66164   .755E-06      67165   .627E-06
      68166   .860E-07
      1   1.0   1010.8   end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7343   .99424     588.9   end
arbm-bormod    .7343 1 0 0 0 5000 100 3 .00022   588.9 end
arbm-spacer    .7343 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576   588.9 end
'
'
'     burnable absorber pellet specification
'
arbm-bp   3.699 5 0 0 0
       5010   .225E-02
       5011   .140
      6012   .435E-01
     13027  52.827  8016  46.987
     4 1.0  588.9 end
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9390   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=20.003 ncycles=01 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=08 mxrepeats=1 mixmod=3 facmesh=.50 end
  4  .43180   5  .45720   2  .54610   3  .63246   2  .67310
  3  .81397 500 2.91402   3 2.93693
'
'     assembly depletion/decay parameters
```

```
'
'   Cycle-04, one-eighth core assembly number 04
power=1.0347     burn=24.90     down=24.000     bfrac=1.000     end
'
'     end of input
'
end
```

Attachment XLI (moved to reference 5.15) contains the CRAFT generated consolidated SAS2H output files for the depletion calculations documented in this analysis as identified in the attachment listing of Section 9. The consolidated output files contain the following information:

- time/date stamp for when the SAS2H depletion calculation was performed,
- echo of the SAS2H input deck generated by CRAFT,
- the output extraction of information pertinent to CRC evaluations from the final ORIGEN-S calculation of the SAS2H depletion calculation.

7.7 Isotopic Results

Isotopic results for the set of 29 principal isotopes listed in Table 7.7-1 are tabulated for each axial node of each fuel assembly at each CRC statepoint other than beginning of life (BOC of first reactor cycle of in which the assembly is inserted) statepoints. The program entitled "CRC_DATA_TABULIZER.exe" as described in Section 6.1, and Attachment V of reference 5.12, was used to create the principal isotope result tables included in this analysis. Attachments XXI through XL (moved to reference 5.14) contain the principal isotope tabulations for the assemblies documented in this analysis. The consolidated output files for the SAS2H depletion calculations contain isotopic concentrations for all isotopes included in the ORIGEN-S cross-section library. The ORIGEN-S cross-section library contains a considerably larger number of isotopes than the 29 isotopes included in the principal isotope set. Isotopic concentrations may be extracted from the consolidated SAS2H output files for subsequent evaluation and/or use in CRC reactivity analyses.

Table 7.7-1 Principal Isotopes

Mo-95	Tc-99	Ru-101	Rh-103	Ag-109
Nd-143	Nd-145	Sm-147	Sm-149	Sm-150
Sm-151	Sm-152	Eu-151	Eu-153	Gd-155
U-233	U-234	U-235	U-236	U-238
Np-237	Pu-238	Pu-239	Pu-240	Pu-241
Pu-242	Am-241	Am-242m	Am-243	---

Between CRC statepoints in the depletion sequence for a fuel assembly axial region, a new SAS2H input deck must be created using the fuel isotopic results from the previous calculation as the initial charge. Since the 44-group cross-section library utilized in the SAS2H depletion calculations of this analysis has a reduced isotopic inventory relative to the ORIGEN-S cross-section library, a number of isotopes present in the ORIGEN-S output cannot be transferred to the initial fuel charge of the subsequent SAS2H depletion calculation. The isotopic inventory in the ORIGEN-S output which cannot be propagated to the following SAS2H depletion calculation does not significantly affect integral reactivity or the energy dependent neutron spectrum as documented in Section 4.9.1 of Attachment I of reference 5.11. The non-propagated isotopic inventory is written to a file entitled "{depletion case identifier}.notes" to allow for subsequent analysis of the impact of excluding these isotopics in the initial charge to the subsequent SAS2H depletion calculation. The "*.notes" files are contained in Attachment XLII (moved to reference 5.15) as documented in Section 9.

8. Conclusions

The SAS2H depletion calculations of the non-rodded fuel assemblies from batches 8 and 9 of the Crystal River Unit 3 PWR that are required for CRC evaluations to support development of the disposal criticality methodology are fully documented in this analysis. The isotopic compositions of depleted fuel and depleted burnable poison for the various assemblies documented in this analysis are available in the consolidated SAS2H output files of Attachment XLI (moved to reference 5.15) for subsequent evaluation and/or use in CRC reactivity evaluations. The inputs for the depletion calculations are obtained from a qualified source (Ref. 5.3). The SAS2H modeling techniques employed in the depletion calculations within this analysis are dictated by the CRAFT Version 2.0 code which is fully documented in Attachment I of reference 5.11.

9. Attachments

The attachments referenced throughout this design analysis are listed in Table 9-1. Attachment XLI (moved to reference 5.15) contains the consolidated SAS2H output files for the assembly depletion calculations documented in this analysis. Attachment XLII (moved to reference 5.15) contains the "*.notes" files which are generated during the CRAFT calculations for each assembly documented in this analysis. Attachments XLI and XLII are written in ASCII format to three attachment tapes (Ref. 5.15). Detailed listings of the content of Attachments XLI and XLII on the attachment tapes of reference 5.15 are provided in a hard-copy format in their corresponding attachment locations in this analysis. The listing of the tape content for Attachments XLI and XLII contain the following information for each of the files that are written to the tapes:

- the directory and filename as taken from the HP workstation,
- the corresponding filename on the tape attachment,
- the number of text pages in the file on tape after the addition of page headers,
- the date that the file was created on the HP workstation,
- the size of the file on the HP workstation in bytes,
- the file type (ASCII or BINARY).

The three tapes of reference 5.15 for Attachments XLI and XLII contain text files only. These tapes are written using the Colorado Trakker Model 350 External Parallel Port Backup System for personal computers.

Table 9-1 Attachment Listing

Attachment #	Number of Pages	Generation Date	Description
I	16	3/17/97	CRAFT Input Deck for Fuel Assembly F12
II	21	3/17/97	CRAFT Input Deck for Fuel Assembly G12
III	28	3/17/97	CRAFT Input Deck for Fuel Assembly G14
IV	21	3/17/97	CRAFT Input Deck for Fuel Assembly G19
V	21	3/31/97	CRAFT Input Deck for Fuel Assembly G19a
VI	16	3/17/97	CRAFT Input Deck for Fuel Assembly F10
VII	16	3/17/97	CRAFT Input Deck for Fuel Assembly F14
VIII	16	3/17/97	CRAFT Input Deck for Fuel Assembly F17
IX	26	3/17/97	CRAFT Input Deck for Fuel Assembly F19
X	26	3/17/97	CRAFT Input Deck for Fuel Assembly F23
XI	26	3/17/97	CRAFT Input Deck for Fuel Assembly F27
XII	21	3/17/97	CRAFT Input Deck for Fuel Assembly G4
XIII	18	3/17/97	CRAFT Input Deck for Fuel Assembly G4a
XIV	21	3/17/97	CRAFT Input Deck for Fuel Assembly G6
XV	18	3/17/97	CRAFT Input Deck for Fuel Assembly G6a
XVI	17	3/17/97	CRAFT Input Deck for Fuel Assembly G8
XVII	21	3/17/97	CRAFT Input Deck for Fuel Assembly G10
XVIII	28	3/21/97	CRAFT Input Deck for Fuel Assembly G23
XIX	28	3/21/97	CRAFT Input Deck for Fuel Assembly G25
XX	21	3/21/97	CRAFT Input Deck for Fuel Assembly G27
XXI	107	3/21/97	Principal Isotope Results for Assembly F12 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.

Attachment #	Number of Pages	Generation Date	Description
XXII	147	3/21/97	Principal Isotope Results for Assembly G12 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXIII	200	3/21/97	Principal Isotope Results for Assembly G14 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXIV	147	3/21/97	Principal Isotope Results for Assembly G19 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXV	80	7/15/97	Principal Isotope Results for Assembly G19a This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVI	107	3/21/97	Principal Isotope Results for Assembly F10 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVII	107	3/21/97	Principal Isotope Results for Assembly F14 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVIII	107	3/21/97	Principal Isotope Results for Assembly F17 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXIX	186	3/21/97	Principal Isotope Results for Assembly F19 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXX	187	3/21/97	Principal Isotope Results for Assembly F23 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.

Attachment #	Number of Pages	Generation Date	Description
XXXI	186	3/21/97	Principal Isotope Results for Assembly F27 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXII	147	3/21/97	Principal Isotope Results for Assembly G4 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXIII	53	3/21/97	Principal Isotope Results for Assembly G4a This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXIV	147	3/21/97	Principal Isotope Results for Assembly G6 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXV	53	3/21/97	Principal Isotope Results for Assembly G6a This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXVI	120	3/21/97	Principal Isotope Results for Assembly G8 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXVII	147	3/21/97	Principal Isotope Results for Assembly G10 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXVIII	200	3/21/97	Principal Isotope Results for Assembly G23 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXIX	200	3/21/97	Principal Isotope Results for Assembly G25 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.

Attachment #	Number of Pages	Generation Date	Description
XL	147	3/21/97	Principal Isotope Results for Assembly G27 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XLI	Total Page Count for Hard-Copy Listing of Tape Content = 58	Two Copies with Production Dates of 3/18/97 and 3/19/97	3 Tapes Containing: CRAFT Generated Consolidated SAS2H Output Decks for Assemblies F12, G12, G14, G19, G19a, F10, F14, F17, F19, F23, F27, G4, G4a, G6, G6a, G8, G10, G23, G25, G27 and CRAFT Generated "*.notes" files for Assemblies F12, G12, G14, G19, G19a, F10, F14, F17, F19, F23, F27, G4, G4a, G6, G6a, G8, G10, G23, G25, G27 The files listed in these two attachments are contained on magnetic media identified by reference 5.15.
XLII	Total Page Count for Hard-Copy Listing of Tape Content = 53	Two Copies with Production Dates of 3/18/97 and 3/19/97	

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.49                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
```

```
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
12                      : Integer position of assembly in cycle
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
13                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
```

```
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1196.8
1418.2
1540.5
1589.4
1607.4
1613.5
1617.2
1620.5
1623.4
1624.8
1626.0
1628.8
1629.5
1624.1
1609.9
1575.7
1479.7
1251.1
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1204.0
1386.1
1465.2
1481.0
1476.1
1468.1
1461.2
1456.1
1452.7
1450.5
1450.5
1454.1
1459.4
1464.3
1467.8
1461.0
1409.4
1222.4
18                      : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1204.0
1386.1
1465.2
1481.0
1476.1
1468.1
1461.2
1456.1
1452.7
1450.5
1450.5
1454.1
1459.4
1464.3
1467.8
1461.0
1409.4
1222.4
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
```

```
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1004.9
1142.0
1195.7
1214.6
1217.0
1212.4
1205.6
1198.4
1191.9
1186.7
1182.6
1179.6
1177.8
1174.9
1166.5
1146.2
1098.2
962.1
18                      : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1008.2
1101.2
1120.7
1120.1
1113.1
1105.4
1099.9
1097.0
1096.2
1097.6
1100.8
1106.1
1114.2
1124.0
1133.0
```

```
1133.9
1114.8
1006.0
18                      : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1008.2
1101.2
1120.7
1120.1
1113.1
1105.4
1099.9
1097.0
1096.2
1097.6
1100.8
1106.1
1114.2
1124.0
1133.0
1133.9
1114.8
1006.0
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1019.3
1103.8
1121.3
1119.4
1109.3
1099.8
1092.9
1088.4
1085.7
1084.7
1085.1
```

```
1087.4
1092.4
1100.0
1108.6
1112.8
1091.5
998.8
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1019.3
1103.8
1121.3
1119.4
1109.3
1099.8
1092.9
1088.4
1085.7
1084.7
1085.1
1087.4
1092.4
1100.0
1108.6
1112.8
1091.5
998.8
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0238
0.0236
0.0235
0.0233
0.0231
```

```
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
```

```
0.0236
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0235
0.0234
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1.919
2.909
3.583
3.941
4.145
4.289
4.408
4.515
4.609
4.683
4.735
4.752
4.717
4.623
4.465
4.185
3.667
2.629
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.615
14.106
16.586
17.541
17.887
18.057
18.196
18.343
18.488
18.609
18.723
18.849
18.929
18.899
18.702
18.064
16.287
11.727
18                    : # of burnup axial nodes (BOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.966
14.619
17.172
18.145
18.491
18.655
18.786
18.924
19.057
19.164
19.260
19.365
19.427
19.384
19.179
18.531
16.720
12.044
18                    : # of burnup axial nodes (Stpt2-7)
1     17.7800         : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.698
22.066
26.133
27.844
28.537
28.858
29.058
29.220
29.358
29.464
29.556
29.653
29.688
29.552
29.107
27.937
24.993
17.443
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.338
23.020
27.224
28.975
29.670
29.983
30.173
30.328
30.462
30.567
30.661
30.764
30.810
30.685
30.244
29.054
```

```
26.017
18.145
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.958
23.934
28.255
30.032
30.720
31.018
31.193
31.336
31.460
31.559
31.650
31.755
31.806
31.688
31.250
30.044
26.928
18.776
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.164
28.512
33.329
35.183
35.825
36.061
36.191
36.308
36.423
36.528
36.640
36.783
```

```
36.899
36.863
36.503
35.304
31.892
22.337
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.558
29.056
33.920
35.775
36.408
36.636
36.761
36.876
36.990
37.096
37.210
37.358
37.480
37.455
37.106
35.914
32.478
22.770
```

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.84                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
ZIRC-4                     : Spacer grid material
0.008165257                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.8 0.5857538 16 2 4   : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
2                          : # of insertion reactor cycles
07                         : Insertion reactor cycle identifier
6                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
260.3                      : Stpt EFPD
275.0                      : Length to stpt in calendar days
18.875                     : Downtime at stpt
291.0                      : Stpt EFPD
```

```
319.175              : Length to stpt in calendar days
39.5                 : Downtime at stpt
319.0                : Stpt EFPD
414.375              : Length to stpt in calendar days
109.5                : Downtime at stpt
462.3                : Stpt EFPD
743.875              : Length to stpt in calendar days
2.229                : Downtime at stpt
479.0                : Stpt EFPD
765.104              : Length to stpt in calendar days
7.208                : Downtime at stpt
99.0                 : Days of downtime at EOC
497.9                : Total cycle EFPD
796                  : Total cycle length in calendar days
12                   : Integer position of assembly in cycle
08                   : Insertion reactor cycle identifier
6                    : # of stpts in cycle
0                    : Stpt EFPD
0                    : Length to stpt in calendar days
0                    : Downtime at stpt
97.6                 : Stpt EFPD
110.0                : Length to stpt in calendar days
15.5                 : Downtime at stpt
139.8                : Stpt EFPD
173.5                : Length to stpt in calendar days
6.2                  : Downtime at stpt
404.0                : Stpt EFPD
479.7                : Length to stpt in calendar days
44.4                 : Downtime at stpt
409.6                : Stpt EFPD
529.1                : Length to stpt in calendar days
4.9                  : Downtime at stpt
515.5                : Stpt EFPD
645.0                : Length to stpt in calendar days
7.6                  : Downtime at stpt
75                   : Days of downtime at EOC
535.9                : Total cycle EFPD
679                  : Total cycle length in calendar days
13                   : Integer position of assembly in cycle
N                    : Flag for variable or constant irradiation step specs
1                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
65.075               : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
1424.17              : ppmb
1300.75              : ppmb
1159.96              : ppmb
971.50               : ppmb
2                    : Relative stpt # in insertion cycle
30.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
856.06               : ppmb
3                    : Relative stpt # in insertion cycle
28.0                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
805.91               : ppmb
4                    : Relative stpt # in insertion cycle
71.65                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
565.35               : ppmb
356.75               : ppmb
5                    : Relative stpt # in insertion cycle
16.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
231.02               : ppmb
6                    : Relative stpt # in insertion cycle
18.9                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
183.83               : ppmb
2                    : Relative insertion cycle #
```

```
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1184.9
```

```
1420.6
1538.4
1579.3
1584.6
1580.4
1575.1
1570.5
1566.9
1564.0
1561.7
1560.9
1562.2
1560.1
1548.8
1511.3
1416.3
1186.3
18                      : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1166.2
1332.3
1390.1
1392.3
1380.8
1370.9
1365.8
1365.0
1367.5
1372.4
1379.6
1389.9
1404.3
1418.7
1432.3
1437.2
1402.6
1219.0
18                      : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
1166.2
1332.3
1390.1
1392.3
1380.8
1370.9
1365.8
1365.0
1367.5
1372.4
1379.6
1389.9
1404.3
1418.7
1432.3
1437.2
1402.6
1219.0
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1169.5
1327.7
1368.9
1362.4
1347.1
1335.1
1327.9
1324.5
1323.6
1324.5
1327.0
1332.0
1341.4
1353.7
1366.9
1376.3
1354.4
1194.2
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1169.5
1327.7
1368.9
1362.4
1347.1
1335.1
1327.9
1324.5
1323.6
1324.5
1327.0
1332.0
1341.4
1353.7
1366.9
1376.3
1354.4
1194.2
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1169.5
1327.7
1368.9
1362.4
1347.1
1335.1
1327.9
1324.5
1323.6
1324.5
1327.0
1332.0
1341.4
1353.7
1366.9
1376.3
1354.4
1194.2
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

```
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 989.7
1108.4
1160.3
1184.3
1195.9
1201.1
1202.6
1201.8
1199.6
1196.9
1193.7
1190.0
1184.3
1175.1
1160.6
1137.0
1092.5
 968.2
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 989.7
1108.4
1160.3
1184.3
1195.9
1201.1
1202.6
1201.8
1199.6
1196.9
1193.7
1190.0
1184.3
1175.1
1160.6
1137.0
1092.5
 968.2
18                    : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1002.8
1102.9
1137.7
1147.0
1148.4
1147.1
1144.5
1141.5
1138.7
1136.4
1134.9
1134.2
1133.4
1131.1
1124.9
1112.0
1083.4
 975.3
18                    : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1002.8
1102.9
1137.7
1147.0
1148.4
1147.1
1144.5
1141.5
1138.7
1136.4
1134.9
1134.2
1133.4
1131.1
1124.9
1112.0
1083.4
 975.3
```

```
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1014.9
1087.4
1119.1
1117.7
1109.1
1100.7
1094.0
1088.7
1084.6
1081.4
1079.3
1078.5
1079.6
1082.9
1088.5
1092.1
1074.4
 983.7
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
```

```
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
```

```
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
```

```
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
```

```
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0232
0.0231
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.146
 8.094
 9.964
10.862
11.251
11.434
11.540
11.616
11.672
11.709
11.731
11.750
11.751
11.650
11.361
10.720
 9.362
 6.389
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.860
 9.176
11.230
12.184
12.578
12.754
12.854
12.926
12.983
13.023
13.051
13.082
13.099
13.014
12.729
12.056
10.572
 7.236
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 6.557
10.219
12.432
13.425
13.812
13.972
14.058
14.120
14.171
14.208
14.236
14.271
14.300
14.225
13.941
13.243
11.652
 7.997
18                      : # of burnup axial nodes (Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
10.137
15.441
18.333
19.454
19.793
19.889
19.938
19.990
20.051
20.113
20.179
20.277
20.407
20.442
20.248
19.530
17.521
12.260
18                      : # of burnup axial nodes (Stpt6-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.579
16.062
19.018
20.144
20.473
20.560
20.605
20.657
20.719
20.784
20.854
20.959
21.099
21.148
20.967
20.255
18.210
12.775
18                     : # of burnup axial nodes (BOC-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.067
16.754
19.784
20.919
21.238
21.317
21.358
21.410
21.475
21.543
21.618
21.729
21.882
21.945
21.780
```

```
21.074
18.991
13.361
18                      : # of burnup axial nodes (Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.815
19.456
23.012
24.425
24.904
25.083
25.188
25.279
25.368
25.448
25.528
25.632
25.749
25.735
25.436
24.508
22.016
15.367
18                      : # of burnup axial nodes (Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.617
20.672
24.439
25.951
26.480
26.684
26.802
26.902
26.995
27.078
27.159
```

```
27.264
27.377
27.347
27.012
26.010
23.360
16.274
18                      : # of burnup axial nodes (Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.148
28.711
33.585
35.489
36.138
36.371
36.492
36.590
36.687
36.785
36.896
37.048
37.213
37.212
36.838
35.612
32.192
22.472
18                      : # of burnup axial nodes (Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.272
28.886
33.781
35.689
36.339
36.571
36.691
```

```
36.789
36.886
36.984
37.096
37.249
37.417
37.418
37.047
35.819
32.387
22.614
18                      : # of burnup axial nodes (Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
21.764
32.329
37.555
39.514
40.140
40.339
40.435
40.517
40.607
40.706
40.827
40.999
41.196
41.238
40.914
39.699
36.084
25.349
```

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.84                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
ZIRC-4                     : Spacer grid material
0.008165257                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.2 0.5857538 16 2 4   : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
3                          : # of insertion reactor cycles
07                         : Insertion reactor cycle identifier
6                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
260.3                      : Stpt EFPD
275.0                      : Length to stpt in calendar days
18.875                     : Downtime at stpt
291.0                      : Stpt EFPD
```

```
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
14                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
529.1                   : Length to stpt in calendar days
4.9                     : Downtime at stpt
515.5                   : Stpt EFPD
645.0                   : Length to stpt in calendar days
7.6                     : Downtime at stpt
75.0                    : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
20                      : Integer position of assembly in cycle
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
28                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
```

```
3                    : Relative stpt # in insertion cycle
28.0                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
805.91               : ppmb
4                    : Relative stpt # in insertion cycle
71.65                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
565.35               : ppmb
356.75               : ppmb
5                    : Relative stpt # in insertion cycle
16.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
231.02               : ppmb
6                    : Relative stpt # in insertion cycle
18.9                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
183.83               : ppmb
2                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
48.8                 : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
1510.73              : ppmb
1419.25              : ppmb
2                    : Relative stpt # in insertion cycle
42.2                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
1305.52              : ppmb
3                    : Relative stpt # in insertion cycle
66.05                : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
1142.75              : ppmb
985.95               : ppmb
793.58               : ppmb
588.91               : ppmb
4                    : Relative stpt # in insertion cycle
5.6                  : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
484.53               : ppmb
5                    : Relative stpt # in insertion cycle
52.95                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
416.34               : ppmb
274.55               : ppmb
6                    : Relative stpt # in insertion cycle
20.4                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
185.39               : ppmb
3                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
52.93                : Irradiation step length in EFPD
3                    : # of irradiation steps to next stpt
1599.85              : ppmb
1491.21              : ppmb
1361.78              : ppmb
2                    : Relative stpt # in insertion cycle
60.2                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
1211.60              : ppmb
3                    : Relative stpt # in insertion cycle
72.05                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
1016.51              : ppmb
802.70               : ppmb
4                    : Relative stpt # in insertion cycle
64.71                : Irradiation step length in EFPD
3                    : # of irradiation steps to next stpt
584.95               : ppmb
388.60               : ppmb
192.66               : ppmb
18                   : # of axial nodes in CRC format
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                     : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1084.1
1320.8
1432.6
1473.0
1482.8
1480.5
1474.5
1468.1
1462.8
1459.1
1457.2
1456.9
1457.2
1455.1
1444.2
1410.5
1321.7
1094.7
18                     : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1084.8
1239.9
1296.8
1303.1
1295.9
1288.2
1283.4
1281.9
1283.3
1287.1
1293.2
1301.8
1313.1
1326.7
1340.1
1343.4
1304.4
1140.7
18                      : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1084.8
1239.9
1296.8
1303.1
1295.9
1288.2
1283.4
1281.9
1283.3
1287.1
1293.2
1301.8
1313.1
1326.7
1340.1
1343.4
1304.4
1140.7
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1096.9
1242.6
1288.4
1287.3
1276.5
1266.8
1260.4
1257.0
1255.9
1256.5
1258.8
1263.1
1270.1
1280.3
1292.6
1300.1
1275.3
1128.2
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1096.9
1242.6
1288.4
1287.3
1276.5
1266.8
1260.4
1257.0
1255.9
1256.5
1258.8
1263.1
1270.1
1280.3
1292.6
1300.1
1275.3
1128.2
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1096.9
1242.6
1288.4
1287.3
1276.5
1266.8
1260.4
1257.0
1255.9
1256.5
1258.8
1263.1
1270.1
1280.3
1292.6
1300.1
1275.3
1128.2
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 886.6
 996.0
1038.3
1056.2
1064.3
1067.4
1068.1
1067.3
1065.6
1063.3
1060.4
1056.9
1052.3
1045.1
1033.8
1014.9
 978.6
 869.0
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 886.6
 996.0
1038.3
1056.2
1064.3
1067.4
1068.1
1067.3
1065.6
1063.3
1060.4
1056.9
1052.3
1045.1
1033.8
1014.9
 978.6
 869.0
18                     : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 903.9
 995.3
1024.0
1030.4
1029.6
1026.8
1023.7
1020.8
1018.1
1015.8
1013.9
1012.4
1011.2
1009.6
1006.6
```

```
 999.0
 975.7
 884.2
18                      : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 903.9
 995.3
1024.0
1030.4
1029.6
1026.8
1023.7
1020.8
1018.1
1015.8
1013.9
1012.4
1011.2
1009.6
1006.6
 999.0
 975.7
 884.2
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 942.3
1003.8
1012.8
1009.6
1001.5
 994.2
 988.6
 984.5
 981.3
 978.7
 976.9
```

```
 976.1
 976.8
 979.5
 984.2
 987.9
 979.3
 916.8
18                      : # of fuel temp axial nodes (Stpt6-8 to EOC-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 942.3
1003.8
1012.8
1009.6
1001.5
 994.2
 988.6
 984.5
 981.3
 978.7
 976.9
 976.1
 976.8
 979.5
 984.2
 987.9
 979.3
 916.8
18                      : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 669.8
 697.1
 710.2
 717.4
 720.2
 720.8
 720.4
```

```
 719.3
 718.0
 716.5
 714.8
 713.0
 710.8
 707.9
 703.6
 696.4
 683.3
 657.2
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 678.3
 703.6
 715.4
 720.0
 720.7
 719.8
 718.4
 716.9
 715.4
 713.9
 712.5
 711.2
 709.9
 708.3
 705.9
 701.0
 689.4
 664.9
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 692.3
 714.5
 725.1
```

```
 726.6
 725.0
 722.7
 720.5
 718.5
 716.9
 715.5
 714.4
 713.5
 712.8
 712.5
 711.9
 709.6
 700.6
 677.1
18                    : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                  : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0228
0.0227
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                  : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0228
0.0227
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0228
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
```

```
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-8 to EOC-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0228
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0220
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0218
```

```
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
```

```
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0217
0.0216
0.0216
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 4.498
 7.338
 9.057
 9.914
```

```
10.335
10.540
10.640
10.689
10.715
10.734
10.749
10.758
10.737
10.640
10.376
 9.760
 8.394
 5.416
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.101
 8.271
10.149
11.058
11.488
11.689
11.782
11.826
11.850
11.869
11.889
11.906
11.897
11.811
11.551
10.908
 9.430
 6.122
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
 5.685
 9.164
11.182
12.128
12.558
12.747
12.827
12.860
12.876
12.891
12.911
12.930
12.927
12.849
12.591
11.926
10.353
 6.757
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 8.736
13.684
16.309
17.388
17.802
17.948
17.995
18.013
18.031
18.062
18.114
18.183
18.250
18.258
18.077
17.393
15.439
10.389
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 9.113
14.225
16.911
17.998
18.407
18.547
18.591
18.608
18.626
18.660
18.716
18.790
18.865
18.883
18.715
18.035
16.047
10.837
18                    : # of burnup axial nodes (BOC-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 9.539
14.835
17.588
18.686
19.090
19.225
19.266
19.283
19.303
19.340
19.399
19.479
19.563
19.593
19.437
18.763
16.739
11.351
18                    : # of burnup axial nodes (Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.827
16.876
20.054
21.375
21.905
22.117
22.206
22.252
22.290
22.334
22.392
22.460
22.512
22.482
22.221
21.364
18.995
12.799
18                    : # of burnup axial nodes (Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.417
17.791
21.139
22.538
23.104
23.334
23.432
23.484
23.524
23.569
23.627
23.694
23.742
23.698
23.409
22.494
19.994
13.454
18                    : # of burnup axial nodes (Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.560
23.919
28.139
29.831
30.478
30.718
30.810
30.855
30.892
30.943
31.015
31.107
31.186
31.161
30.844
29.754
26.634
18.024
18                    : # of burnup axial nodes (Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.656
24.055
28.291
29.987
30.634
30.873
30.965
31.009
31.046
31.097
31.170
31.263
31.343
31.320
31.004
29.914
26.785
18.131
18                    : # of burnup axial nodes (Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
17.593
26.765
31.266
33.000
33.624
33.836
33.907
33.939
33.971
34.021
34.100
34.205
34.306
34.315
34.036
32.954
29.673
20.236
18                      : # of burnup axial nodes (BOC-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
18.003
27.328
31.878
33.616
34.235
34.441
34.506
34.533
34.558
34.599
34.667
34.760
34.850
34.852
34.572
33.487
30.182
```

```
20.612
18                      : # of burnup axial nodes (Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.811
28.589
33.389
35.250
35.932
36.169
36.248
36.279
36.302
36.336
36.394
36.473
36.542
36.511
36.175
34.994
31.498
21.478
18                      : # of burnup axial nodes (Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.161
29.115
33.998
35.890
36.582
36.821
36.899
36.926
36.946
36.979
37.034
37.111
37.178
```

```
37.142
36.797
35.593
32.037
21.845
18                    : # of burnup axial nodes (Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
20.100
30.485
35.545
37.485
38.180
38.408
38.475
38.494
38.506
38.534
38.586
38.664
38.734
38.701
38.352
37.119
33.444
22.833
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.84                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
ZIRC-4                  : Spacer grid material
0.008165257             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.8 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
```

```
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
19                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
529.1                   : Length to stpt in calendar days
4.9                     : Downtime at stpt
515.5                   : Stpt EFPD
645.0                   : Length to stpt in calendar days
7.6                     : Downtime at stpt
75                      : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
09                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
2                       : Relative insertion cycle #
```

```
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1153.1
```

```
1387.6
1508.4
1552.1
1559.8
1555.9
1549.7
1543.6
1538.6
1535.1
1533.4
1534.7
1538.9
1539.8
1530.0
1494.1
1399.8
1170.9
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1137.9
1300.9
1362.1
1366.4
1355.6
1345.9
1340.6
1339.2
1341.0
1345.3
1352.1
1362.3
1377.6
1394.0
1408.7
1414.5
1378.3
1199.7
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
1137.9
1300.9
1362.1
1366.4
1355.6
1345.9
1340.6
1339.2
1341.0
1345.3
1352.1
1362.3
1377.6
1394.0
1408.7
1414.5
1378.3
1199.7
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1144.1
1300.6
1345.8
1341.5
1326.9
1315.2
1308.1
1304.6
1303.4
1304.1
1306.5
1311.5
1321.1
1333.5
1347.7
1357.8
1336.1
1178.3
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1144.1
1300.6
1345.8
1341.5
1326.9
1315.2
1308.1
1304.6
1303.4
1304.1
1306.5
1311.5
1321.1
1333.5
1347.7
1357.8
1336.1
1178.3
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1144.1
1300.6
1345.8
1341.5
1326.9
1315.2
1308.1
1304.6
1303.4
1304.1
1306.5
1311.5
1321.1
1333.5
1347.7
1357.8
1336.1
1178.3
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

```
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1020.8
1143.5
1191.7
1210.1
1218.2
1221.0
1221.0
1219.6
1217.4
1214.7
1211.6
1206.3
1196.8
1184.0
1167.7
1144.5
1101.5
 976.9
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1020.8
1143.5
1191.7
1210.1
1218.2
1221.0
1221.0
1219.6
1217.4
1214.7
1211.6
1206.3
1196.8
1184.0
1167.7
1144.5
1101.5
 976.9
18                    : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1022.9
1123.6
1155.1
1160.3
1159.5
1156.8
1153.1
1149.5
1146.3
1143.6
1141.5
1139.1
1135.2
1130.3
1123.5
1111.6
1085.3
 979.1
18                    : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1022.9
1123.6
1155.1
1160.3
1159.5
1156.8
1153.1
1149.5
1146.3
1143.6
1141.5
1139.1
1135.2
1130.3
1123.5
1111.6
1085.3
 979.1
```

```
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1019.7
1086.3
1110.2
1104.2
1093.7
1084.2
1076.7
1070.8
1066.2
1062.5
1059.7
1057.9
1057.2
1059.0
1063.7
1067.7
1053.5
 972.4
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
```

```
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0238
0.0237
0.0235
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0238
0.0237
0.0235
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0226
```

```
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
```

```
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
```

```
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.077
 7.979
 9.816
10.735
11.157
11.359
11.465
11.525
11.561
11.591
11.625
11.677
11.727
11.674
11.413
10.761
 9.342
 6.298
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.761
 9.015
11.030
12.008
12.435
12.630
12.729
12.784
12.819
12.850
12.890
12.955
13.024
12.991
12.737
12.056
10.513
 7.114
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 6.424
10.011
12.183
13.200
13.623
13.802
13.888
13.931
13.958
13.985
14.025
14.095
14.179
14.158
13.908
13.204
11.558
 7.846
18                    : # of burnup axial nodes (Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 9.852
15.023
17.864
19.020
19.402
19.522
19.570
19.598
19.630
19.677
19.754
19.892
20.083
20.181
20.027
19.311
17.259
11.974
18                    : # of burnup axial nodes (Stpt6-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.273
15.620
18.526
19.690
20.063
20.175
20.218
20.246
20.279
20.328
20.410
20.554
20.757
20.869
20.729
20.019
17.932
12.475
18                     : # of burnup axial nodes (BOC-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.743
16.287
19.265
20.438
20.803
20.907
20.948
20.975
21.009
21.062
21.149
21.300
21.516
21.642
21.518
```

```
20.816
18.693
13.045
18                      : # of burnup axial nodes (Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.672
19.228
22.714
24.126
24.620
24.801
24.889
24.948
25.003
25.070
25.163
25.301
25.465
25.497
25.232
24.310
21.782
15.096
18                      : # of burnup axial nodes (Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.539
20.526
24.215
25.712
26.246
26.446
26.544
26.609
26.667
26.737
26.832
```

```
26.969
27.120
27.128
26.823
25.829
23.144
16.017
18                    : # of burnup axial nodes (Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.339
28.860
33.582
35.393
36.006
36.210
36.293
36.345
36.400
36.478
36.596
36.758
36.914
36.911
36.549
35.344
31.931
22.213
18                    : # of burnup axial nodes (Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.468
29.038
33.778
35.592
36.204
36.407
36.489
```

```
36.540
36.594
36.673
36.792
36.954
37.112
37.110
36.750
35.545
32.121
22.352
18                      : # of burnup axial nodes (Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
22.003
32.487
37.507
39.341
39.913
40.074
40.124
40.153
40.196
40.270
40.391
40.563
40.737
40.766
40.448
39.260
35.680
25.007
```

```
Y                       : This is a pick-up case
1                       : Relative pick-up cycle
6                       : Relative pick-up statepoint
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.84                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
ZIRC-4                  : Spacer grid material
0.008165257             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.8 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
```

```
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
19                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
529.1                   : Length to stpt in calendar days
4.9                     : Downtime at stpt
515.5                   : Stpt EFPD
645.0                   : Length to stpt in calendar days
7.6                     : Downtime at stpt
75                      : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
22                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
```

```
183.83                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
1153.1
1387.6
1508.4
1552.1
1559.8
1555.9
1549.7
1543.6
1538.6
1535.1
1533.4
1534.7
1538.9
1539.8
1530.0
1494.1
1399.8
1170.9
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1137.9
1300.9
1362.1
1366.4
1355.6
1345.9
1340.6
1339.2
1341.0
1345.3
1352.1
1362.3
1377.6
1394.0
1408.7
1414.5
1378.3
1199.7
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1137.9
1300.9
1362.1
1366.4
1355.6
1345.9
1340.6
1339.2
1341.0
1345.3
1352.1
1362.3
1377.6
1394.0
1408.7
1414.5
1378.3
1199.7
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1144.1
1300.6
1345.8
1341.5
1326.9
1315.2
1308.1
1304.6
1303.4
1304.1
1306.5
1311.5
1321.1
1333.5
1347.7
1357.8
1336.1
1178.3
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1144.1
1300.6
1345.8
1341.5
1326.9
1315.2
1308.1
1304.6
1303.4
1304.1
1306.5
1311.5
1321.1
1333.5
1347.7
1357.8
1336.1
1178.3
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1144.1
1300.6
1345.8
1341.5
1326.9
1315.2
1308.1
1304.6
1303.4
1304.1
1306.5
1311.5
1321.1
1333.5
1347.7
1357.8
1336.1
1178.3
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1031.5
1154.8
1208.9
1233.4
1244.4
1249.2
1250.9
1250.8
1249.4
1247.2
1244.5
1241.6
1236.9
1227.5
1211.8
1187.3
1143.5
1015.5
18                  : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1031.5
1154.8
1208.9
1233.4
1244.4
1249.2
1250.9
1250.8
1249.4
1247.2
1244.5
1241.6
1236.9
1227.5
1211.8
1187.3
1143.5
1015.5
18                  : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800       : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1040.3
1145.7
1184.5
1194.6
1196.5
1195.0
1192.5
1189.9
1187.4
1185.5
1184.4
1184.5
1184.6
1182.4
1175.4
1159.2
1128.8
1014.3
18                    : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1040.3
1145.7
1184.5
1194.6
1196.5
1195.0
1192.5
1189.9
1187.4
1185.5
1184.4
1184.5
1184.6
1182.4
1175.4
1159.2
```

```
1128.8
1014.3
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
1038.7
1118.9
1152.5
1150.2
1140.1
1130.5
1123.1
1117.4
1113.0
1109.5
1107.0
1106.0
1107.1
1110.3
1115.8
1119.5
1101.5
1004.2
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0226
0.0224
0.0223
```

```
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0235
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0235
0.0234
0.0233
0.0231
0.0230
0.0228
```

```
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0235
0.0234
```

```
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
0.0237
0.0236
0.0235
0.0233
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                  : # of burnup axial nodes (BOC-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                  : # of burnup axial nodes (Stpt2-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.077
 7.979
 9.816
10.735
11.157
11.359
11.465
11.525
11.561
11.591
11.625
11.677
11.727
11.674
11.413
10.761
 9.342
 6.298
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.761
 9.015
11.030
12.008
12.435
12.630
12.729
12.784
12.819
12.850
12.890
12.955
13.024
12.991
12.737
12.056
10.513
 7.114
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 6.424
10.011
12.183
13.200
13.623
13.802
13.888
13.931
13.958
13.985
14.025
14.095
14.179
14.158
13.908
13.204
11.558
 7.846
18                    : # of burnup axial nodes (Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 9.852
15.023
17.864
19.020
19.402
19.522
19.570
19.598
19.630
19.677
19.754
19.892
20.083
20.181
20.027
19.311
17.259
```

```
11.974
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.273
15.620
18.526
19.690
20.063
20.175
20.218
20.246
20.279
20.328
20.410
20.554
20.757
20.869
20.729
20.019
17.932
12.475
18                      : # of burnup axial nodes (BOC-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.746
16.290
19.269
20.442
20.807
20.912
20.952
20.979
21.014
21.066
21.153
21.304
21.521
```

```
21.647
21.523
20.821
18.697
13.048
18                      : # of burnup axial nodes (Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.668
19.213
22.730
24.181
24.703
24.907
25.014
25.085
25.149
25.221
25.322
25.480
25.673
25.725
25.464
24.538
22.015
15.302
18                      : # of burnup axial nodes (Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.548
20.530
24.267
25.821
26.392
26.622
26.743
26.825
26.895
```

```
26.971
27.076
27.240
27.434
27.472
27.173
26.171
23.488
16.316
18                      : # of burnup axial nodes (Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.550
29.190
34.114
36.088
36.780
37.036
37.163
37.249
37.331
37.430
37.575
37.805
38.076
38.153
37.810
36.565
33.079
23.118
18                      : # of burnup axial nodes (Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.683
29.377
34.323
36.302
36.994
```

```
37.249
37.375
37.462
37.543
37.642
37.788
38.020
38.294
38.373
38.032
36.786
33.288
23.271
18                    : # of burnup axial nodes (Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
22.337
33.032
38.332
40.363
41.023
41.240
41.339
41.409
41.483
41.582
41.737
41.989
42.295
42.417
42.124
40.890
37.199
26.180
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.49                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
```

```
732.917              : Length to stpt in calendar days
10.417               : Downtime at stpt
113.0                : Days of downtime at EOC
412.07               : Total cycle EFPD
761.0                : Total cycle length in calendar days
10                   : Integer position of assembly in cycle
07                   : Insertion reactor cycle identifier
6                    : # of stpts in cycle
0                    : Stpt EFPD
0                    : Length to stpt in calendar days
0                    : Downtime at stpt
260.3                : Stpt EFPD
275.0                : Length to stpt in calendar days
18.875               : Downtime at stpt
291.0                : Stpt EFPD
319.175              : Length to stpt in calendar days
39.5                 : Downtime at stpt
319.0                : Stpt EFPD
414.375              : Length to stpt in calendar days
109.5                : Downtime at stpt
462.3                : Stpt EFPD
743.875              : Length to stpt in calendar days
2.229                : Downtime at stpt
479.0                : Stpt EFPD
765.104              : Length to stpt in calendar days
7.208                : Downtime at stpt
99.0                 : Days of downtime at EOC
497.9                : Total cycle EFPD
796                  : Total cycle length in calendar days
15                   : Integer position of assembly in cycle
N                    : Flag for variable or constant irradiation step specs
1                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
48.0                 : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
1010.95              : ppmb
942.44               : ppmb
2                    : Relative stpt # in insertion cycle
76.0                 : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
751.31               : ppmb
547.28               : ppmb
341.80               : ppmb
152.42               : ppmb
3                    : Relative stpt # in insertion cycle
12.07                : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
121.71               : ppmb
2                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
65.075               : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
1424.17              : ppmb
1300.75              : ppmb
1159.96              : ppmb
971.50               : ppmb
2                    : Relative stpt # in insertion cycle
30.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
856.06               : ppmb
3                    : Relative stpt # in insertion cycle
28.0                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
805.91               : ppmb
4                    : Relative stpt # in insertion cycle
71.65                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
565.35               : ppmb
356.75               : ppmb
5                    : Relative stpt # in insertion cycle
```

```
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1205.0
1426.7
1546.9
1595.1
1610.9
1615.2
1616.2
1615.8
1614.8
1613.5
1612.3
1611.2
1609.4
1604.6
1592.3
1558.6
1466.0
1242.8
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1203.0
1384.5
1464.7
1481.4
1477.7
1469.9
1462.5
1456.5
1452.1
1449.4
1448.9
1450.6
1454.4
1459.5
1463.0
1455.7
1402.7
1218.2
18                  : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1203.0
1384.5
1464.7
1481.4
1477.7
1469.9
1462.5
1456.5
1452.1
1449.4
1448.9
1450.6
1454.4
1459.5
1463.0
1455.7
1402.7
1218.2
18                  : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
770.5
851.5
882.4
892.7
894.5
892.5
888.9
884.9
881.3
878.3
875.8
873.8
871.8
868.8
863.0
851.2
823.7
744.4
18                     : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
794.3
859.7
874.6
873.2
868.5
864.0
860.7
858.7
857.9
858.3
859.6
861.9
865.3
869.5
873.8
```

```
875.3
862.8
792.2
18                      : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
794.3
859.7
874.6
873.2
868.5
864.0
860.7
858.7
857.9
858.3
859.6
861.9
865.3
869.5
873.8
875.3
862.8
792.2
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
810.5
873.2
884.1
879.9
873.5
867.9
863.8
861.0
859.3
858.5
858.5
```

```
859.4
861.4
864.8
869.3
872.7
864.7
799.8
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
810.5
873.2
884.1
879.9
873.5
867.9
863.8
861.0
859.3
858.5
858.5
859.4
861.4
864.8
869.3
872.7
864.7
799.8
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
```

```
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
0.0236
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
```

```
0.0236
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0224
0.0224
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0225
0.0224
0.0224
0.0223
0.0223
0.0222
0.0222
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0225
0.0224
0.0224
0.0223
0.0223
0.0222
0.0222
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0225
0.0225
0.0224
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0225
0.0225
0.0224
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                      : # of burnup axial nodes (BOC-6)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
2.077
3.065
3.702
4.031
4.210
4.324
4.407
4.472
4.520
4.551
4.564
4.555
4.519
4.449
4.322
4.078
3.595
2.587
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
9.865
14.350
16.755
17.676
18.002
18.128
18.197
18.250
18.296
18.338
18.380
18.425
18.462
18.458
18.314
17.740
16.045
11.581
18                      : # of burnup axial nodes (BOC-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
10.228
14.866
17.331
18.263
18.584
18.703
18.762
18.805
18.839
18.867
18.894
18.924
18.948
18.934
18.784
18.201
16.472
11.895
18                      : # of burnup axial nodes (Stpt2-7)
1      17.7800          : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.487
18.510
21.739
23.036
23.532
23.727
23.813
23.856
23.880
23.895
23.907
23.917
23.907
23.826
23.537
22.669
20.326
14.309
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.797
18.986
22.287
23.606
24.105
24.296
24.377
24.416
24.437
24.450
24.462
24.474
24.467
24.389
24.100
23.218
```

```
20.821
14.636
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.097
19.441
22.807
24.142
24.639
24.823
24.896
24.928
24.943
24.953
24.963
24.975
24.969
24.893
24.603
23.709
21.266
14.932
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.724
21.839
25.495
26.886
27.367
27.523
27.571
27.587
27.595
27.606
27.625
27.654
```

```
27.675
27.632
27.372
26.463
23.822
16.693
18                    : # of burnup axial nodes (Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.931
22.137
25.823
27.216
27.694
27.846
27.891
27.906
27.914
27.924
27.945
27.975
28.000
27.962
27.707
26.799
24.140
16.917
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.49                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
N                       : Activate BPRA tracking
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
14                      : Integer position of assembly in cycle
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
24                      : Integer position of assembly in cycle
```

```
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1060.7
1297.9
1408.1
1450.4
1465.9
1471.9
1475.4
1478.8
1481.6
1482.9
1482.2
1479.7
1475.2
1467.7
1453.3
1419.1
1329.7
1077.9
18                    : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1096.2
1272.2
1334.3
1345.8
1340.7
1332.5
1325.4
1320.2
1316.7
1314.6
1313.7
1314.2
1316.5
1320.7
1324.7
1319.2
```

```
1273.5
1093.6
18                      : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1096.2
1272.2
1334.3
1345.8
1340.7
1332.5
1325.4
1320.2
1316.7
1314.6
1313.7
1314.2
1316.5
1320.7
1324.7
1319.2
1273.5
1093.6
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
983.6
1123.6
1176.1
1193.6
1195.2
1190.8
1184.3
1177.5
1171.4
1166.8
1164.1
1163.8
```

```
1165.0
1164.2
1157.1
1138.2
1093.8
961.0
18                      : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
994.4
1086.4
1109.9
1105.9
1096.2
1087.8
1082.2
1079.1
1078.3
1079.7
1083.4
1089.8
1099.2
1110.1
1120.4
1126.2
1110.5
1013.3
18                      : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
994.4
1086.4
1109.9
1105.9
1096.2
1087.8
1082.2
1079.1
```

```
1078.3
1079.7
1083.4
1089.8
1099.2
1110.1
1120.4
1126.2
1110.5
1013.3
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1009.4
1092.4
1108.0
1100.8
1090.0
1080.6
1073.9
1069.6
1067.1
1066.3
1067.3
1070.7
1076.9
1085.3
1094.8
1100.8
1092.2
1008.6
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1009.4
1092.4
1108.0
1100.8
```

```
1090.0
1080.6
1073.9
1069.6
1067.1
1066.3
1067.3
1070.7
1076.9
1085.3
1094.8
1100.8
1092.2
1008.6
18                    : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0235
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                  : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                  : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1.520
2.540
3.164
3.497
3.694
3.831
3.944
4.045
4.130
4.187
4.208
4.188
4.128
4.029
3.879
3.614
3.078
1.873
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
7.615
11.876
13.998
14.813
15.126
15.277
15.394
15.515
15.630
15.712
15.750
15.744
15.700
15.618
15.433
14.893
13.282
```

```
8.632
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
7.910
12.305
14.478
15.303
15.615
15.759
15.869
15.983
16.088
16.160
16.185
16.165
16.109
16.018
15.827
15.279
13.639
8.882
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.208
19.127
22.770
24.327
24.983
25.285
25.464
25.601
25.711
25.785
25.822
25.825
25.781
```

```
25.630
25.226
24.175
21.435
13.982
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.794
20.005
23.780
25.377
26.036
26.330
26.500
26.631
26.737
26.810
26.850
26.861
26.829
26.691
26.292
25.222
22.393
14.644
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.363
20.848
24.735
26.359
27.012
27.293
27.449
27.568
27.665
```

```
27.734
27.772
27.786
27.762
27.632
27.236
26.150
23.247
15.238
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.334
25.106
29.479
31.186
31.801
32.026
32.142
32.238
32.328
32.404
32.467
32.527
32.574
32.529
32.210
31.126
27.938
18.622
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.703
25.618
30.037
31.746
32.353
```

32.571
32.682
32.776
32.866
32.944
33.009
33.074
33.129
33.094
32.786
31.708
28.496
19.037

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.49                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
INCONEL                    : Spacer grid material
0.005757609                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4   : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
2                          : # of insertion reactor cycles
06                         : Insertion reactor cycle identifier
3                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
96.0                       : Stpt EFPD
136.0                      : Length to stpt in calendar days
168.917                    : Downtime at stpt
400.0                      : Stpt EFPD
```

```
732.917              : Length to stpt in calendar days
10.417               : Downtime at stpt
113.0                : Days of downtime at EOC
412.07               : Total cycle EFPD
761.0                : Total cycle length in calendar days
17                   : Integer position of assembly in cycle
07                   : Insertion reactor cycle identifier
6                    : # of stpts in cycle
0                    : Stpt EFPD
0                    : Length to stpt in calendar days
0                    : Downtime at stpt
260.3                : Stpt EFPD
275.0                : Length to stpt in calendar days
18.875               : Downtime at stpt
291.0                : Stpt EFPD
319.175              : Length to stpt in calendar days
39.5                 : Downtime at stpt
319.0                : Stpt EFPD
414.375              : Length to stpt in calendar days
109.5                : Downtime at stpt
462.3                : Stpt EFPD
743.875              : Length to stpt in calendar days
2.229                : Downtime at stpt
479.0                : Stpt EFPD
765.104              : Length to stpt in calendar days
7.208                : Downtime at stpt
99.0                 : Days of downtime at EOC
497.9                : Total cycle EFPD
796                  : Total cycle length in calendar days
22                   : Integer position of assembly in cycle
N                    : Flag for variable or constant irradiation step specs
1                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
48.0                 : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
1010.95              : ppmb
942.44               : ppmb
2                    : Relative stpt # in insertion cycle
76.0                 : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
751.31               : ppmb
547.28               : ppmb
341.80               : ppmb
152.42               : ppmb
3                    : Relative stpt # in insertion cycle
12.07                : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
121.71               : ppmb
2                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
65.075               : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
1424.17              : ppmb
1300.75              : ppmb
1159.96              : ppmb
971.50               : ppmb
2                    : Relative stpt # in insertion cycle
30.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
856.06               : ppmb
3                    : Relative stpt # in insertion cycle
28.0                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
805.91               : ppmb
4                    : Relative stpt # in insertion cycle
71.65                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
565.35               : ppmb
356.75               : ppmb
5                    : Relative stpt # in insertion cycle
```

```
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1203.1
1424.1
1546.4
1595.5
1612.6
1618.6
1621.9
1624.7
1626.9
1628.2
1629.9
1633.9
1636.0
1631.7
1618.0
1584.3
1491.0
1263.1
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1209.5
1395.1
1478.4
1494.4
1489.7
1482.4
1475.7
1470.6
1467.0
1464.8
1465.1
1469.4
1475.4
1480.8
1484.2
1476.5
1426.4
1234.7
18                    : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1209.5
1395.1
1478.4
1494.4
1489.7
1482.4
1475.7
1470.6
1467.0
1464.8
1465.1
1469.4
1475.4
1480.8
1484.2
1476.5
1426.4
1234.7
18                    : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1019.1
1154.9
1209.5
1228.4
1230.1
1225.2
1218.6
1211.9
1205.8
1200.7
1196.4
1193.5
1192.4
1189.9
1181.0
1160.2
1112.7
977.5
18                     : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1022.6
1118.3
1139.7
1141.3
1133.5
1125.2
1119.7
1117.0
1116.6
1118.3
1121.7
1127.6
1136.7
1147.6
1156.9
```

```
1157.5
1134.4
1021.0
18                      : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1022.6
1118.3
1139.7
1141.3
1133.5
1125.2
1119.7
1117.0
1116.6
1118.3
1121.7
1127.6
1136.7
1147.6
1156.9
1157.5
1134.4
1021.0
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1031.9
1119.4
1140.9
1138.9
1127.9
1117.7
1110.6
1106.2
1103.7
1102.7
1103.1
```

```
1105.7
1111.5
1119.8
1128.7
1132.7
1109.0
1011.5
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1031.9
1119.4
1140.9
1138.9
1127.9
1117.7
1110.6
1106.2
1103.7
1102.7
1103.1
1105.7
1111.5
1119.8
1128.7
1132.7
1109.0
1011.5
18                    : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0241
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
```

```
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0241
0.0240
0.0238
0.0236
0.0235
0.0233
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0241
0.0240
0.0238
```

```
0.0236
0.0235
0.0233
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0217
0.0216
18                    : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
2.007
2.956
3.581
3.916
4.107
4.240
4.348
4.444
4.526
4.594
4.648
4.674
4.653
4.572
4.427
4.164
3.675
2.664
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.827
14.305
16.759
17.705
18.042
18.202
18.326
18.452
18.576
18.691
18.816
18.971
19.090
19.095
18.920
18.295
16.537
11.960
18                    : # of burnup axial nodes (BOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.186
14.813
17.325
18.282
18.614
18.765
18.879
18.994
19.105
19.205
19.313
19.448
19.548
19.538
19.352
18.715
16.927
12.249
18                    : # of burnup axial nodes (Stpt2-7)
1     17.7800         : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.048
22.373
26.373
28.049
28.705
28.997
29.175
29.316
29.435
29.535
29.642
29.782
29.878
29.792
29.378
28.239
25.366
17.844
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.715
23.361
27.502
29.220
29.879
30.162
30.330
30.464
30.580
30.679
30.789
30.936
31.045
30.972
30.563
29.402
```

```
26.433
18.581
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.362
24.310
28.574
30.319
30.969
31.235
31.389
31.511
31.618
31.711
31.818
31.967
32.083
32.020
31.612
30.434
27.384
19.242
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.694
29.052
33.831
35.656
36.252
36.451
36.558
36.655
36.755
36.855
36.984
37.177
```

```
37.367
37.395
37.069
35.896
32.536
22.951
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
20.102
29.614
34.441
36.267
36.854
37.044
37.145
37.240
37.339
37.440
37.571
37.768
37.967
38.005
37.691
36.525
33.140
23.398
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.49                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.8 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
```

```
732.917              : Length to stpt in calendar days
10.417               : Downtime at stpt
113.0                : Days of downtime at EOC
412.07               : Total cycle EFPD
761.0                : Total cycle length in calendar days
19                   : Integer position of assembly in cycle
07                   : Insertion reactor cycle identifier
6                    : # of stpts in cycle
0                    : Stpt EFPD
0                    : Length to stpt in calendar days
0                    : Downtime at stpt
260.3                : Stpt EFPD
275.0                : Length to stpt in calendar days
18.875               : Downtime at stpt
291.0                : Stpt EFPD
319.175              : Length to stpt in calendar days
39.5                 : Downtime at stpt
319.0                : Stpt EFPD
414.375              : Length to stpt in calendar days
109.5                : Downtime at stpt
462.3                : Stpt EFPD
743.875              : Length to stpt in calendar days
2.229                : Downtime at stpt
479.0                : Stpt EFPD
765.104              : Length to stpt in calendar days
7.208                : Downtime at stpt
99.0                 : Days of downtime at EOC
497.9                : Total cycle EFPD
796                  : Total cycle length in calendar days
28                   : Integer position of assembly in cycle
08                   : Insertion reactor cycle identifier
6                    : # of stpts in cycle
0                    : Stpt EFPD
0                    : Length to stpt in oalendar days
0                    : Downtime at stpt
97.6                 : Stpt EFPD
110.0                : Length to stpt in calendar days
15.5                 : Downtime at stpt
139.8                : Stpt EFPD
173.5                : Length to stpt in calendar days
6.2                  : Downtime at stpt
404.0                : Stpt EFPD
479.7                : Length to stpt in calendar days
44.4                 : Downtime at stpt
409.6                : Stpt EFPD
529.1                : Length to stpt in calendar days
4.9                  : Downtime at stpt
515.5                : Stpt EFPD
645.0                : Length to stpt in calendar days
7.6                  : Downtime at stpt
75                   : Days of downtime at EOC
535.9                : Total cycle EFPD
679                  : Total cycle length in calendar days
08                   : Integer position of assembly in cycle
N                    : Flag for variable or constant irradiation step specs
1                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
48.0                 : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
1010.95              : ppmb
942.44               : ppmb
2                    : Relative stpt # in insertion cycle
76.0                 : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
751.31               : ppmb
547.28               : ppmb
341.80               : ppmb
152.42               : ppmb
3                    : Relative stpt # in insertion cycle
12.07                : Irradiation step length in EFPD
```

```
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
3                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                    : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1141.8
1372.1
1493.4
1540.6
1558.0
1566.2
1572.0
1578.0
1582.9
1585.7
1587.1
1589.5
1589.4
1583.4
1569.0
1532.5
1435.6
1198.9
18                    : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1161.9
1343.3
```

```
1416.3
1430.5
1425.4
1417.6
1411.1
1406.8
1404.2
1402.6
1403.2
1407.7
1413.5
1418.6
1422.7
1416.2
1363.8
1184.0
18                    : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1161.9
1343.3
1416.3
1430.5
1425.4
1417.6
1411.1
1406.8
1404.2
1402.6
1403.2
1407.7
1413.5
1418.6
1422.7
1416.2
1363.8
1184.0
18                    : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
734.8
805.5
833.3
842.0
843.2
840.8
836.9
832.5
828.4
825.1
822.6
820.6
819.0
817.0
812.6
802.5
779.0
711.9
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
757.0
816.4
830.4
829.4
825.2
820.8
817.2
814.6
813.0
812.5
813.0
814.5
817.1
820.9
824.5
825.3
814.2
753.0
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
757.0
816.4
830.4
829.4
825.2
820.8
817.2
814.6
813.0
812.5
813.0
814.5
817.1
820.9
824.5
825.3
814.2
753.0
18                  : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
771.5
829.3
840.1
836.8
831.1
825.8
821.5
818.1
815.7
814.2
813.6
813.9
815.4
818.4
822.2
824.5
816.8
760.2
18                  : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
771.5
829.3
840.1
836.8
831.1
825.8
821.5
818.1
815.7
814.2
813.6
813.9
815.4
818.4
822.2
824.5
816.8
760.2
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
771.5
829.3
840.1
836.8
831.1
825.8
821.5
818.1
815.7
814.2
813.6
813.9
815.4
818.4
822.2
824.5
816.8
760.2
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
713.1
757.9
772.4
777.1
778.8
778.8
777.6
775.5
773.1
770.6
768.1
765.4
762.4
759.0
754.4
747.8
734.7
691.7
18                  : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
713.1
757.9
772.4
777.1
778.8
778.8
777.6
775.5
773.1
770.6
768.1
765.4
762.4
759.0
754.4
747.8
734.7
691.7
18                  : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
729.0
770.2
778.3
777.8
775.8
773.3
770.6
767.7
765.0
762.7
760.8
759.1
757.7
756.7
755.6
753.6
746.2
707.0
18                     : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
729.0
770.2
778.3
777.8
775.8
773.3
770.6
767.7
765.0
762.7
760.8
759.1
757.7
756.7
755.6
```

```
753.6
746.2
707.0
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
770.3
802.4
798.6
794.6
789.8
785.4
781.6
778.5
775.8
773.7
772.1
771.0
770.9
771.9
773.8
775.3
775.4
745.6
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
```

```
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
```

```
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0222
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
```

```
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0223
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of burnup axial nodes (BOC-6)
1      17.7800          : Node #, node height (cm)
```

```
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-6)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
1.776
2.760
3.407
3.760
3.969
4.120
4.249
4.371
4.480
4.563
4.618
4.631
4.587
4.485
4.322
4.038
```

```
3.495
2.389
18                      : # of burnup axial nodes (Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
8.818
13.244
15.612
16.521
16.857
17.034
17.194
17.371
17.546
17.684
17.795
17.901
17.951
17.898
17.703
17.095
15.346
10.757
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.155
13.731
16.163
17.088
17.426
17.598
17.750
17.920
18.084
18.208
18.302
18.388
```

```
18.420
18.355
18.153
17.535
15.755
11.055
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.932
16.654
19.749
21.003
21.495
21.732
21.902
22.067
22.217
22.327
22.407
22.478
22.485
22.370
22.056
21.199
18.904
13.017
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.182
17.042
20.201
21.474
21.968
22.201
22.367
22.527
```

```
22.674
22.781
22.861
22.933
22.944
22.831
22.516
21.647
19.307
13.282
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.425
17.415
20.629
21.916
22.409
22.636
22.795
22.948
23.090
23.194
23.272
23.344
23.355
23.244
22.929
22.049
19.670
13.523
18                    : # of burnup axial nodes (Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.747
19.388
22.855
24.192
```

```
24.671
24.872
25.007
25.144
25.276
25.378
25.461
25.545
25.577
25.495
25.203
24.306
21.759
14.953
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.917
19.635
23.128
24.468
24.944
25.141
25.273
25.408
25.540
25.642
25.725
25.810
25.845
25.767
25.478
24.582
22.019
15.136
18                      : # of burnup axial nodes (BOC-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
13.110
19.914
23.437
24.781
25.254
25.447
25.577
25.711
25.841
25.943
26.028
26.114
26.152
26.078
25.794
24.899
22.318
15.348
18                    : # of burnup axial nodes (Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.738
20.891
24.593
26.025
26.547
26.769
26.913
27.051
27.182
27.279
27.355
27.428
27.444
27.339
27.008
26.036
23.309
15.991
18                    : # of burnup axial nodes (Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.031
21.337
25.111
26.574
27.109
27.336
27.482
27.620
27.748
27.843
27.916
27.985
27.996
27.883
27.539
26.542
23.759
16.289
18                    : # of burnup axial nodes (Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.177
24.470
28.624
30.191
30.744
30.959
31.083
31.199
31.308
31.389
31.454
31.518
31.530
31.417
31.058
29.987
26.926
18.484
18                    : # of burnup axial nodes (Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
16.229
24.543
28.704
30.272
30.824
31.038
31.162
31.277
31.386
31.467
31.532
31.597
31.609
31.497
31.138
30.067
27.002
18.538
18                      : # of burnup axial nodes (Stpt6-8)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
17.297
26.024
30.304
31.876
32.408
32.601
32.708
32.810
32.908
32.983
33.046
33.112
33.131
33.034
32.693
31.630
28.493
19.627
```

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.49                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
INCONEL                    : Spacer grid material
0.005757609                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4   : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
3                          : # of insertion reactor cycles
06                         : Insertion reactor cycle identifier
3                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
96.0                       : Stpt EFPD
136.0                      : Length to stpt in calendar days
168.917                    : Downtime at stpt
400.0                      : Stpt EFPD
```

```
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
23                      : Integer position of assembly in cycle
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
21                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
529.1                   : Length to stpt in calendar days
4.9                     : Downtime at stpt
515.5                   : Stpt EFPD
645.0                   : Length to stpt in calendar days
7.6                     : Downtime at stpt
75                      : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
21                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
```

```
1                    : # of irradiation steps to next stpt
121.71               : ppmb
2                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
65.075               : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
1424.17              : ppmb
1300.75              : ppmb
1159.96              : ppmb
971.50               : ppmb
2                    : Relative stpt # in insertion cycle
30.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
856.06               : ppmb
3                    : Relative stpt # in insertion cycle
28.0                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
805.91               : ppmb
4                    : Relative stpt # in insertion cycle
71.65                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
565.35               : ppmb
356.75               : ppmb
5                    : Relative stpt # in insertion cycle
16.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
231.02               : ppmb
6                    : Relative stpt # in insertion cycle
18.9                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
183.83               : ppmb
3                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
48.8                 : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
1510.73              : ppmb
1419.25              : ppmb
2                    : Relative stpt # in insertion cycle
42.2                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
1305.52              : ppmb
3                    : Relative stpt # in insertion cycle
66.05                : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
1142.75              : ppmb
985.95               : ppmb
793.58               : ppmb
588.91               : ppmb
4                    : Relative stpt # in insertion cycle
5.6                  : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
484.53               : ppmb
5                    : Relative stpt # in insertion cycle
52.95                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
416.34               : ppmb
274.55               : ppmb
6                    : Relative stpt # in insertion cycle
20.4                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
185.39               : ppmb
18                   : # of axial nodes in CRC format
1     17.7800        : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                    : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1168.1
1384.5
1505.4
1554.2
1572.4
1581.0
1587.5
1593.0
1597.4
1599.8
1601.6
1605.1
1606.3
1601.2
1587.2
1549.9
1453.6
1230.2
18                    : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1187.7
1368.1
```

```
1445.8
1463.2
1459.2
1451.8
1445.5
1441.3
1438.7
1437.4
1438.4
1443.3
1449.2
1454.4
1457.9
1450.4
1395.2
1211.2
18                      : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1187.7
1368.1
1445.8
1463.2
1459.2
1451.8
1445.5
1441.3
1438.7
1437.4
1438.4
1443.3
1449.2
1454.4
1457.9
1450.4
1395.2
1211.2
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
713.2
774.2
796.8
803.7
804.5
802.4
799.0
795.1
791.4
788.3
785.8
783.6
781.7
779.4
775.4
766.9
747.6
690.2
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
736.6
790.3
802.2
801.1
797.3
793.3
790.0
787.6
786.0
785.4
785.6
786.6
788.5
791.5
794.6
795.4
785.4
729.9
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
736.6
790.3
802.2
801.1
797.3
793.3
790.0
787.6
786.0
785.4
785.6
786.6
788.5
791.5
794.6
795.4
785.4
729.9
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
751.3
804.0
813.4
810.2
805.0
800.2
796.2
793.1
790.7
789.3
788.5
788.4
789.4
791.8
795.1
797.4
790.3
737.8
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
751.3
804.0
813.4
810.2
805.0
800.2
796.2
793.1
790.7
789.3
788.5
788.4
789.4
791.8
795.1
797.4
790.3
737.8
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
751.3
804.0
813.4
810.2
805.0
800.2
796.2
793.1
790.7
789.3
788.5
788.4
789.4
791.8
795.1
797.4
790.3
737.8
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
675.9
713.6
726.6
731.4
733.2
733.5
732.7
731.2
729.4
727.5
725.4
723.1
720.5
717.7
713.8
708.0
696.2
659.7
18                      : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
675.9
713.6
726.6
731.4
733.2
733.5
732.7
731.2
729.4
727.5
725.4
723.1
720.5
717.7
713.8
708.0
696.2
659.7
18                      : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
689.0
724.8
733.5
734.2
733.1
731.3
729.2
727.0
724.9
723.1
721.5
720.0
718.7
717.7
716.5
714.2
706.5
672.0
18                     : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
689.0
724.8
733.5
734.2
733.1
731.3
729.2
727.0
724.9
723.1
721.5
720.0
718.7
717.7
716.5
```

```
714.2
706.5
672.0
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
724.6
755.9
756.0
750.4
745.6
741.7
738.6
735.9
733.6
731.8
730.4
729.3
729.0
729.6
731.3
734.0
734.4
704.6
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
```

```
0.0224
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
```

```
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0221
```

```
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0220
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0220
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0220
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0220
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1.792
2.733
3.387
3.743
3.950
4.097
4.220
4.334
4.435
4.515
4.575
4.598
4.566
4.474
4.319
4.042
```

```
3.531
2.521
18                      : # of burnup axial nodes (Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.179
13.522
15.964
16.923
17.276
17.456
17.610
17.775
17.939
18.076
18.204
18.342
18.431
18.406
18.216
17.585
15.828
11.368
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.520
14.024
16.541
17.520
17.876
18.052
18.199
18.356
18.508
18.630
18.739
18.857
```

```
18.926
18.887
18.689
18.047
16.256
11.681
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.141
16.630
19.677
20.906
21.378
21.600
21.757
21.904
22.039
22.144
22.235
22.332
22.374
22.288
21.993
21.157
18.944
13.371
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.367
16.977
20.077
21.321
21.794
22.013
22.165
22.308
```

```
22.440
22.542
22.633
22.731
22.774
22.689
22.395
21.548
19.297
13.603
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.586
17.311
20.457
21.712
22.183
22.396
22.542
22.679
22.806
22.905
22.993
23.090
23.134
23.051
22.755
21.900
19.616
13.815
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.791
19.097
22.458
23.752
```

```
24.208
24.396
24.519
24.639
24.756
24.851
24.942
25.048
25.109
25.049
24.775
23.907
21.475
15.087
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.947
19.322
22.705
24.001
24.455
24.639
24.759
24.878
24.994
25.089
25.180
25.287
25.350
25.293
25.023
24.156
21.709
15.252
18                      : # of burnup axial nodes (BOC-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
13.125
19.578
22.988
24.286
24.737
24.917
25.035
25.152
25.267
25.362
25.453
25.561
25.626
25.574
25.307
24.442
21.979
15.442
18                      : # of burnup axial nodes (Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.599
20.326
23.879
25.250
25.740
25.944
26.073
26.196
26.311
26.402
26.488
26.585
26.634
26.556
26.252
25.325
22.745
15.931
18                      : # of burnup axial nodes (Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.820
20.668
24.280
25.676
26.178
26.386
26.517
26.638
26.752
26.842
26.925
27.020
27.064
26.981
26.666
25.718
23.091
16.157
18                    : # of burnup axial nodes (Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.452
23.092
27.020
28.509
29.029
29.229
29.345
29.450
29.549
29.628
29.704
29.794
29.836
29.751
29.421
28.407
25.547
17.829
18                    : # of burnup axial nodes (Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.491
23.149
27.083
28.573
29.092
29.293
29.408
29.512
29.611
29.690
29.766
29.855
29.898
29.814
29.484
28.470
25.606
17.871
18                    : # of burnup axial nodes (Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.313
24.311
28.349
29.847
30.353
30.536
30.638
30.732
30.823
30.897
30.971
31.060
31.108
31.033
30.716
29.705
26.775
18.707
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.49                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
N                       : Activate BPRA tracking
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
27                      : Integer position of assembly in cycle
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
20                      : Integer position of assembly in cycle
```

```
08                    : Insertion reactor cycle identifier
6                     : # of stpts in cycle
0                     : Stpt EFPD
0                     : Length to stpt in calendar days
0                     : Downtime at stpt
97.6                  : Stpt EFPD
110.0                 : Length to stpt in calendar days
15.5                  : Downtime at stpt
139.8                 : Stpt EFPD
173.5                 : Length to stpt in calendar days
6.2                   : Downtime at stpt
404.0                 : Stpt EFPD
479.7                 : Length to stpt in calendar days
44.4                  : Downtime at stpt
409.6                 : Stpt EFPD
529.1                 : Length to stpt in calendar days
4.9                   : Downtime at stpt
515.5                 : Stpt EFPD
645.0                 : Length to stpt in calendar days
7.6                   : Downtime at stpt
75                    : Days of downtime at EOC
535.9                 : Total cycle EFPD
679                   : Total cycle length in calendar days
15                    : Integer position of assembly in cycle
N                     : Flag for variable or constant irradiation step specs
1                     : Relative insertion cycle #
1                     : Relative stpt # in insertion cycle
48.0                  : Irradiation step length in EFPD
2                     : # of irradiation steps to next stpt
1010.95               : ppmb
942.44                : ppmb
2                     : Relative stpt # in insertion cycle
76.0                  : Irradiation step length in EFPD
4                     : # of irradiation steps to next stpt
751.31                : ppmb
547.28                : ppmb
341.80                : ppmb
152.42                : ppmb
3                     : Relative stpt # in insertion cycle
12.07                 : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
121.71                : ppmb
2                     : Relative insertion cycle #
1                     : Relative stpt # in insertion cycle
65.075                : Irradiation step length in EFPD
4                     : # of irradiation steps to next stpt
1424.17               : ppmb
1300.75               : ppmb
1159.96               : ppmb
971.50                : ppmb
2                     : Relative stpt # in insertion cycle
30.7                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
856.06                : ppmb
3                     : Relative stpt # in insertion cycle
28.0                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
805.91                : ppmb
4                     : Relative stpt # in insertion cycle
71.65                 : Irradiation step length in EFPD
2                     : # of irradiation steps to next stpt
565.35                : ppmb
356.75                : ppmb
5                     : Relative stpt # in insertion cycle
16.7                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
231.02                : ppmb
6                     : Relative stpt # in insertion cycle
18.9                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
```

```
183.83                  : ppmb
3                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
1018.2
1247.0
1352.9
1393.3
1407.9
1413.3
1416.1
1418.4
1420.3
1421.2
1421.2
1420.4
1418.2
1412.8
1399.7
1366.5
1280.2
1036.9
18                    : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1060.9
1234.9
1293.9
1304.4
1299.8
1292.3
1285.5
1280.4
1276.8
1274.5
1273.8
1275.0
1278.1
1282.5
1286.0
1279.1
1234.7
1058.1
18                    : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

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14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1060.9
1234.9
1293.9
1304.4
1299.8
1292.3
1285.5
1280.4
1276.8
1274.5
1273.8
1275.0
1278.1
1282.5
1286.0
1279.1
1234.7
1058.1
18                    : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
922.6
1050.1
1100.1
1115.9
1118.3
1114.7
1109.0
1102.9
1097.4
1093.1
1090.3
1088.9
1088.2
1086.1
1079.4
1062.3
1022.4
897.5
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
938.4
1030.2
1051.5
1049.4
1041.7
1034.7
1029.7
1026.9
1026.1
1027.1
1030.0
1034.8
1041.8
1050.3
1059.1
1063.4
1048.1
955.1
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
938.4
1030.2
1051.5
1049.4
1041.7
1034.7
1029.7
1026.9
1026.1
1027.1
1030.0
1034.8
1041.8
1050.3
1059.1
1063.4
1048.1
955.1
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
956.1
1039.0
1054.9
1048.5
1038.4
1029.9
1023.8
1019.8
1017.4
1016.5
1017.1
1019.4
1023.8
1030.6
1039.1
1046.3
1037.8
957.2
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
956.1
1039.0
1054.9
1048.5
1038.4
1029.9
1023.8
1019.8
1017.4
1016.5
1017.1
1019.4
1023.8
1030.6
1039.1
1046.3
1037.8
957.2
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
956.1
1039.0
1054.9
1048.5
1038.4
1029.9
1023.8
1019.8
1017.4
1016.5
1017.1
1019.4
1023.8
1030.6
1039.1
1046.3
1037.8
957.2
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
700.8
735.7
745.6
750.5
752.3
752.5
751.8
750.4
748.6
746.7
744.7
742.4
739.8
736.4
731.9
725.2
```

```
714.1
682.5
18                      : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
700.8
735.7
745.6
750.5
752.3
752.5
751.8
750.4
748.6
746.7
744.7
742.4
739.8
736.4
731.9
725.2
714.1
682.5
18                      : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
715.2
746.2
752.0
752.7
752.1
750.5
748.5
746.5
744.6
742.8
741.3
740.0
```

```
738.8
737.4
735.3
731.6
723.6
696.4
18                      : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
715.2
746.2
752.0
752.7
752.1
750.5
748.5
746.5
744.6
742.8
741.3
740.0
738.8
737.4
735.3
731.6
723.6
696.4
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
753.2
774.9
777.7
774.7
770.1
766.0
762.7
759.9
```

```
757.7
755.8
754.4
753.5
753.2
754.0
755.7
757.1
752.7
732.2
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
```

```
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
```

```
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                    : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

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7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
```

```
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of burnup axial nodes (BOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
```

```
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1.291
2.251
2.873
3.205
3.395
3.525
3.627
3.716
3.789
3.842
3.868
3.863
3.823
3.744
3.609
3.359
2.848
1.720
18                      : # of burnup axial nodes (Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
6.866
10.875
12.921
13.714
14.017
14.156
14.255
14.350
14.440
```

```
14.510
14.557
14.582
14.581
14.536
14.374
13.850
12.302
7.932
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
7.120
11.262
13.367
14.174
14.477
14.611
14.704
14.792
14.872
14.932
14.966
14.978
14.964
14.911
14.743
14.210
12.635
8.162
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.806
17.114
20.435
21.839
22.430
```

```
22.696
22.842
22.945
23.023
23.078
23.110
23.119
23.087
22.959
22.597
21.631
19.105
12.341
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.304
17.863
21.297
22.735
23.329
23.589
23.728
23.825
23.899
23.953
23.987
24.002
23.978
23.859
23.499
22.515
19.911
12.890
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.785
```

```
18.581
22.113
23.574
24.164
24.413
24.540
24.627
24.694
24.742
24.775
24.791
24.771
24.658
24.300
23.302
20.631
13.385
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.333
22.258
26.215
27.753
28.316
28.520
28.612
28.678
28.738
28.793
28.844
28.895
28.927
28.879
28.582
27.580
24.648
16.246
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

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16    20.0025
17    20.0025
18    22.3520
14.651
22.704
26.702
28.244
28.801
28.999
29.087
29.152
29.211
29.267
29.320
29.375
29.413
29.373
29.086
28.088
25.133
16.602
18                    : # of burnup axial nodes (BOC-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.011
23.206
27.252
28.798
29.349
29.542
29.627
29.690
29.750
29.806
29.862
29.921
29.966
29.935
29.658
28.666
25.687
17.011
18                    : # of burnup axial nodes (Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.609
24.127
28.339
29.969
30.566
30.785
30.884
30.953
31.014
31.067
31.115
31.162
31.187
31.126
30.804
29.740
26.625
17.631
18                    : # of burnup axial nodes (Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.888
24.547
28.826
30.484
31.093
31.318
31.419
31.487
31.546
31.597
31.643
31.686
31.707
31.639
31.305
30.217
27.050
17.918
18                    : # of burnup axial nodes (Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

```
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.930
27.490
32.116
33.868
34.493
34.706
34.789
34.839
34.882
34.922
34.961
35.002
35.023
34.953
34.603
33.447
30.029
20.025
18                    : # of burnup axial nodes (Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.979
27.559
32.191
33.944
34.568
34.781
34.863
34.913
34.955
34.995
35.034
35.075
35.096
35.027
34.678
33.522
30.100
20.077
18                    : # of burnup axial nodes (Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
18.995
28.948
33.687
35.443
36.047
36.240
36.307
36.345
36.380
36.414
36.452
36.494
36.522
36.466
36.133
34.984
31.499
21.120
```

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.84                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
ZIRC-4                     : Spacer grid material
0.008165257                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.8 0.5857538 16 2 4   : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
2                          : # of insertion reactor cycles
07                         : Insertion reactor cycle identifier
6                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
260.3                      : Stpt EFPD
275.0                      : Length to stpt in calendar days
18.875                     : Downtime at stpt
291.0                      : Stpt EFPD
```

```
319.175              : Length to stpt in calendar days
39.5                 : Downtime at stpt
319.0                : Stpt EFPD
414.375              : Length to stpt in calendar days
109.5                : Downtime at stpt
462.3                : Stpt EFPD
743.875              : Length to stpt in calendar days
2.229                : Downtime at stpt
479.0                : Stpt EFPD
765.104              : Length to stpt in calendar days
7.208                : Downtime at stpt
99.0                 : Days of downtime at EOC
497.9                : Total cycle EFPD
796                  : Total cycle length in calendar days
04                   : Integer position of assembly in cycle
08                   : Insertion reactor cycle identifier
6                    : # of stpts in cycle
0                    : Stpt EFPD
0                    : Length to stpt in calendar days
0                    : Downtime at stpt
97.6                 : Stpt EFPD
110.0                : Length to stpt in calendar days
15.5                 : Downtime at stpt
139.8                : Stpt EFPD
173.5                : Length to stpt in calendar days
6.2                  : Downtime at stpt
404.0                : Stpt EFPD
479.7                : Length to stpt in calendar days
44.4                 : Downtime at stpt
409.6                : Stpt EFPD
529.1                : Length to stpt in calendar days
4.9                  : Downtime at stpt
515.5                : Stpt EFPD
645.0                : Length to stpt in calendar days
7.6                  : Downtime at stpt
75                   : Days of downtime at EOC
535.9                : Total cycle EFPD
679                  : Total cycle length in calendar days
03                   : Integer position of assembly in cycle
N                    : Flag for variable or constant irradiation step specs
1                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
65.075               : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
1424.17              : ppmb
1300.75              : ppmb
1159.96              : ppmb
971.50               : ppmb
2                    : Relative stpt # in insertion cycle
30.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
856.06               : ppmb
3                    : Relative stpt # in insertion cycle
28.0                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
805.91               : ppmb
4                    : Relative stpt # in insertion cycle
71.65                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
565.35               : ppmb
356.75               : ppmb
5                    : Relative stpt # in insertion cycle
16.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
231.02               : ppmb
6                    : Relative stpt # in insertion cycle
18.9                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
183.83               : ppmb
2                    : Relative insertion cycle #
```

```
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1179.2
```

```
1411.1
1525.9
1567.1
1577.5
1576.4
1572.7
1569.2
1566.5
1563.9
1561.3
1558.6
1555.2
1548.8
1533.0
1494.2
1401.5
1176.5
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1165.7
1330.6
1389.1
1393.1
1384.5
1376.4
1372.1
1371.8
1374.8
1380.2
1387.7
1397.6
1409.7
1422.5
1435.2
1439.1
1401.9
1218.7
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
1165.7
1330.6
1389.1
1393.1
1384.5
1376.4
1372.1
1371.8
1374.8
1380.2
1387.7
1397.6
1409.7
1422.5
1435.2
1439.1
1401.9
1218.7
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1168.8
1326.2
1368.4
1363.7
1351.0
1340.3
1333.7
1330.6
1330.0
1331.1
1333.9
1338.7
1346.4
1357.4
1370.3
1378.6
1354.0
1192.0
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1168.8
1326.2
1368.4
1363.7
1351.0
1340.3
1333.7
1330.6
1330.0
1331.1
1333.9
1338.7
1346.4
1357.4
1370.3
1378.6
1354.0
1192.0
18                      : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1168.8
1326.2
1368.4
1363.7
1351.0
1340.3
1333.7
1330.6
1330.0
1331.1
1333.9
1338.7
1346.4
1357.4
1370.3
1378.6
1354.0
1192.0
18                      : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
```

```
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1033.7
1156.7
1209.0
1231.0
1241.0
1245.0
1245.7
1244.4
1242.0
1239.0
1235.4
1230.5
1223.1
1212.4
1196.9
1173.4
1129.1
 999.3
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1033.7
1156.7
1209.0
1231.0
1241.0
1245.0
1245.7
1244.4
1242.0
1239.0
1235.4
1230.5
1223.1
1212.4
1196.9
1173.4
1129.1
 999.3
18                    : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1036.6
1140.5
1175.3
1183.8
1186.4
1185.0
1182.0
1178.6
1175.4
1172.8
1170.7
1168.9
1166.7
1163.2
1156.4
1142.2
1113.4
 999.7
18                    : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1036.6
1140.5
1175.3
1183.8
1186.4
1185.0
1182.0
1178.6
1175.4
1172.8
1170.7
1168.9
1166.7
1163.2
1156.4
1142.2
1113.4
 999.7
```

```
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1030.3
1104.7
1131.8
1127.5
1117.2
1107.6
1100.0
1093.9
1089.0
1085.1
1082.3
1080.8
1081.3
1084.5
1090.1
1094.4
1078.5
 987.7
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
```

```
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
```

```
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
```

```
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
```

```
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.063
 7.919
 9.697
10.545
10.935
11.127
11.241
11.325
11.388
11.421
11.421
11.385
11.302
11.145
10.849
10.252
 8.988
 6.168
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.775
 8.996
10.953
11.859
12.259
12.447
12.556
12.639
12.703
12.740
12.746
12.718
12.645
12.497
12.202
11.572
10.185
 7.008
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 6.470
10.032
12.146
13.091
13.489
13.664
13.761
13.836
13.895
13.930
13.935
13.909
13.840
13.698
13.403
12.748
11.255
 7.762
18                      : # of burnup axial nodes (Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
10.040
15.227
18.010
19.088
19.460
19.586
19.653
19.722
19.796
19.858
19.901
19.928
19.929
19.874
19.660
18.982
17.074
11.993
18                      : # of burnup axial nodes (Stpt6-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.479
15.843
18.689
19.774
20.139
20.259
20.321
20.390
20.467
20.531
20.579
20.610
20.620
20.576
20.374
19.700
17.757
12.503
18                     : # of burnup axial nodes (BOC-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.984
16.579
19.605
20.776
21.175
21.302
21.356
21.408
21.468
21.532
21.597
21.663
21.718
21.713
21.523
```

```
20.808
18.723
13.198
18                      : # of burnup axial nodes (Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.960
19.582
23.137
24.571
25.115
25.329
25.439
25.525
25.606
25.682
25.748
25.796
25.803
25.710
25.383
24.450
21.960
15.368
18                      : # of burnup axial nodes (Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.853
20.917
24.686
26.216
26.807
27.044
27.166
27.259
27.345
27.423
27.490
```

```
27.536
27.532
27.418
27.052
26.045
23.396
16.346
18                      : # of burnup axial nodes (Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.854
29.545
34.427
36.333
37.034
37.293
37.410
37.495
37.580
37.668
37.757
37.832
37.855
37.751
37.337
36.108
32.689
22.908
18                      : # of burnup axial nodes (Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.986
29.730
34.631
36.541
37.242
37.499
37.616
```

```
37.700
37.785
37.874
37.963
38.039
38.064
37.962
37.551
36.321
32.890
23.055
18                      : # of burnup axial nodes (Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
22.605
33.305
38.517
40.462
41.129
41.346
41.431
41.495
41.567
41.650
41.743
41.831
41.879
41.816
41.453
40.241
36.638
25.845
```

```
Y                       : This is a pick-up case from Stpt6-7 of Assy G4
1                       : Relative pick-up cycle
6                       : Relative pick-up statepoint
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.84                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
ZIRC-4                  : Spacer grid material
0.008165257             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.8 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
```

```
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
853.0                   : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
04                      : Integer position of assembly in cycle
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
09                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
```

```
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1179.2
1411.1
1525.9
1567.1
1577.5
1576.4
1572.7
1569.2
1566.5
1563.9
1561.3
1558.6
1555.2
```

```
1548.8
1533.0
1494.2
1401.5
1176.5
18                      : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1165.7
1330.6
1389.1
1393.1
1384.5
1376.4
1372.1
1371.8
1374.8
1380.2
1387.7
1397.6
1409.7
1422.5
1435.2
1439.1
1401.9
1218.7
18                      : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1165.7
1330.6
1389.1
1393.1
1384.5
1376.4
1372.1
1371.8
1374.8
```

```
1380.2
1387.7
1397.6
1409.7
1422.5
1435.2
1439.1
1401.9
1218.7
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1168.8
1326.2
1368.4
1363.7
1351.0
1340.3
1333.7
1330.6
1330.0
1331.1
1333.9
1338.7
1346.4
1357.4
1370.3
1378.6
1354.0
1192.0
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1168.8
1326.2
1368.4
1363.7
1351.0
```

```
1340.3
1333.7
1330.6
1330.0
1331.1
1333.9
1338.7
1346.4
1357.4
1370.3
1378.6
1354.0
1192.0
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1168.8
1326.2
1368.4
1363.7
1351.0
1340.3
1333.7
1330.6
1330.0
1331.1
1333.9
1338.7
1346.4
1357.4
1370.3
1378.6
1354.0
1192.0
18                    : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1021.8
```

```
1148.0
1204.6
1229.1
1239.8
1243.5
1242.9
1239.9
1235.8
1231.9
1228.9
1225.9
1220.6
1211.5
1196.8
1172.7
1126.0
 994.1
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1027.8
1139.3
1182.9
1196.5
1199.5
1197.9
1194.1
1189.3
1184.7
1180.9
1178.4
1176.8
1174.7
1171.1
1164.3
1150.6
1116.1
 996.7
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
1033.9
1127.6
1156.3
1166.6
1164.5
1159.0
1153.1
1147.7
1143.3
1140.2
1138.7
1138.6
1139.2
1139.8
1138.7
1130.2
1100.4
 998.0
18                    : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

```
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                  : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                  : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0236
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
```

```
18                      : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
```

```
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.063
 7.919
 9.697
10.545
10.935
11.127
11.241
11.325
11.388
11.421
```

```
11.421
11.385
11.302
11.145
10.849
10.252
 8.988
 6.168
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.775
 8.996
10.953
11.859
12.259
12.447
12.556
12.639
12.703
12.740
12.746
12.718
12.645
12.497
12.202
11.572
10.185
 7.008
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 6.470
10.032
12.146
13.091
13.489
13.664
```

```
13.761
13.836
13.895
13.930
13.935
13.909
13.840
13.698
13.403
12.748
11.255
 7.762
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.040
15.227
18.010
19.088
19.460
19.586
19.653
19.722
19.796
19.858
19.901
19.928
19.929
19.874
19.660
18.982
17.074
11.993
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.479
15.843
```

```
18.689
19.774
20.139
20.259
20.321
20.390
20.467
20.531
20.579
20.610
20.620
20.576
20.374
19.700
17.757
12.503
18                      : # of burnup axial nodes (BOC-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.966
16.532
19.451
20.545
20.903
21.016
21.076
21.146
21.224
21.293
21.344
21.382
21.400
21.368
21.180
20.512
18.530
13.083
18                      : # of burnup axial nodes (Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
14.156
21.398
25.195
26.714
27.295
27.526
27.647
27.743
27.831
27.905
27.965
28.002
27.979
27.844
27.469
26.468
23.821
16.618
18                    : # of burnup axial nodes (Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.452
23.313
27.402
29.036
29.660
29.906
30.029
30.122
30.206
30.279
30.343
30.386
30.364
30.220
29.814
28.735
25.882
18.035
18                    : # of burnup axial nodes (Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

13 20.0025
14 20.0025
15 20.0025
16 20.0025
17 20.0025
18 22.3520
18.731
28.017
32.705
34.525
35.189
35.427
35.531
35.607
35.681
35.755
35.835
35.906
35.914
35.794
35.384
34.206
30.951
21.625

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.84                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
ZIRC-4                     : Spacer grid material
0.008165257                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.18 0.5857538 16 2 4    : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
2                          : # of insertion reactor cycles
07                         : Insertion reactor cycle identifier
6                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
260.3                      : Stpt EFPD
275.0                      : Length to stpt in calendar days
18.875                     : Downtime at stpt
291.0                      : Stpt EFPD
```

```
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
06                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
529.1                   : Length to stpt in calendar days
4.9                     : Downtime at stpt
515.5                   : Stpt EFPD
645.0                   : Length to stpt in calendar days
7.6                     : Downtime at stpt
75                      : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
03                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
2                       : Relative insertion cycle #
```

```
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1179.9
```

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1409.8
1530.3
1574.9
1583.8
1580.8
1575.1
1569.3
1564.7
1561.3
1559.3
1558.5
1557.9
1554.7
1543.4
1504.2
1406.7
1181.9
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1159.8
1324.3
1384.7
1388.5
1379.1
1370.1
1364.8
1363.5
1365.5
1370.2
1377.4
1387.3
1399.7
1413.3
1426.8
1431.7
1394.8
1211.8
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
1159.8
1324.3
1384.7
1388.5
1379.1
1370.1
1364.8
1363.5
1365.5
1370.2
1377.4
1387.3
1399.7
1413.3
1426.8
1431.7
1394.8
1211.8
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1164.5
1323.1
1366.3
1360.7
1347.0
1335.7
1328.6
1324.9
1323.8
1324.6
1327.2
1332.0
1339.8
1351.1
1364.5
1374.3
1351.8
1189.8
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

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12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1164.5
1323.1
1366.3
1360.7
1347.0
1335.7
1328.6
1324.9
1323.8
1324.6
1327.2
1332.0
1339.8
1351.1
1364.5
1374.3
1351.8
1189.8
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1164.5
1323.1
1366.3
1360.7
1347.0
1335.7
1328.6
1324.9
1323.8
1324.6
1327.2
1332.0
1339.8
1351.1
1364.5
1374.3
1351.8
1189.8
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

```
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1033.7
1156.7
1209.0
1231.0
1241.0
1245.0
1245.7
1244.4
1242.0
1239.0
1235.4
1230.5
1223.1
1212.4
1196.9
1173.4
1129.1
 999.3
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1033.7
1156.7
1209.0
1231.0
1241.0
1245.0
1245.7
1244.4
1242.0
1239.0
1235.4
1230.5
1223.1
1212.4
1196.9
1173.4
1129.1
 999.3
18                    : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
```

```
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1036.6
1140.5
1175.3
1183.8
1186.4
1185.0
1182.0
1178.6
1175.4
1172.8
1170.7
1168.9
1166.7
1163.2
1156.4
1142.2
1113.4
 999.7
18                    : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1036.6
1140.5
1175.3
1183.8
1186.4
1185.0
1182.0
1178.6
1175.4
1172.8
1170.7
1168.9
1166.7
1163.2
1156.4
1142.2
1113.4
 999.7
```

```
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1030.3
1104.7
1131.8
1127.5
1117.2
1107.6
1100.0
1093.9
1089.0
1085.1
1082.3
1080.8
1081.3
1084.5
1090.1
1094.4
1078.5
 987.7
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
```

```
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
```

```
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
```

```
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0237
0.0236
```

```
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.147
 8.057
 9.996
10.972
11.436
11.660
11.774
11.839
11.880
11.912
11.935
11.944
11.914
11.793
11.484
10.795
 9.358
 6.405
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.851
 9.122
11.248
12.287
12.762
12.982
13.089
13.149
13.189
13.223
13.253
13.272
13.256
13.147
12.840
12.117
10.551
 7.241
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 6.538
10.149
12.439
13.521
13.996
14.202
14.295
14.343
14.376
14.406
14.436
14.459
14.450
14.349
14.044
13.293
11.616
 7.991
18                      : # of burnup axial nodes (Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
10.078
15.318
18.311
19.541
19.992
20.147
20.203
20.237
20.276
20.329
20.398
20.480
20.552
20.550
20.331
19.556
17.445
12.216
18                      : # of burnup axial nodes (Stpt6-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.516
15.936
18.994
20.232
20.677
20.824
20.876
20.909
20.949
21.005
21.079
21.167
21.248
21.258
21.052
20.282
18.134
12.728
18                     : # of burnup axial nodes (BOC-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.984
16.579
19.605
20.776
21.175
21.302
21.356
21.408
21.468
21.532
21.597
21.663
21.718
21.713
21.523
```

```
20.808
18.723
13.198
18                      : # of burnup axial nodes (Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.960
19.582
23.137
24.571
25.115
25.329
25.439
25.525
25.606
25.682
25.748
25.796
25.803
25.710
25.383
24.450
21.960
15.368
18                      : # of burnup axial nodes (Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.853
20.917
24.686
26.216
26.807
27.044
27.166
27.259
27.345
27.423
27.490
```

```
27.536
27.532
27.418
27.052
26.045
23.396
16.346
18                      : # of burnup axial nodes (Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.854
29.545
34.427
36.333
37.034
37.293
37.410
37.495
37.580
37.668
37.757
37.832
37.855
37.751
37.337
36.108
32.689
22.908
18                      : # of burnup axial nodes (Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.986
29.730
34.631
36.541
37.242
37.499
37.616
```

```
37.700
37.785
37.874
37.963
38.039
38.064
37.962
37.551
36.321
32.890
23.055
18                      : # of burnup axial nodes (Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
22.605
33.305
38.517
40.462
41.129
41.346
41.431
41.495
41.567
41.650
41.743
41.831
41.879
41.816
41.453
40.241
36.638
25.845
```

```
Y                       : This is a pick-up case from Stpt6-7 of Assy G4
1                       : Relative pick-up cycle
6                       : Relative pick-up statepoint
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.84                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
ZIRC-4                  : Spacer grid material
0.008165257             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.18 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
```

```
18.875                : Downtime at stpt
291.0                 : Stpt EFPD
319.175               : Length to stpt in calendar days
39.5                  : Downtime at stpt
319.0                 : Stpt EFPD
414.375               : Length to stpt in calendar days
109.5                 : Downtime at stpt
462.3                 : Stpt EFPD
743.875               : Length to stpt in calendar days
2.229                 : Downtime at stpt
479.0                 : Stpt EFPD
765.104               : Length to stpt in calendar days
7.208                 : Downtime at stpt
853.0                 : Days of downtime at EOC
497.9                 : Total cycle EFPD
796                   : Total cycle length in calendar days
06                    : Integer position of assembly in cycle
09                    : Insertion reactor cycle identifier
4                     : # of stpts in cycle
0                     : Stpt EFPD
0                     : Length to stpt in calendar days
0                     : Downtime at stpt
158.8                 : Stpt EFPD
168.0                 : Length to stpt in calendar days
2.146                 : Downtime at stpt
219.0                 : Stpt EFPD
233.146               : Length to stpt in calendar days
53.125                : Downtime at stpt
363.1                 : Stpt EFPD
431.271               : Length to stpt in calendar days
1.625                 : Downtime at stpt
55.0                  : Days of downtime at EOC
557.23                : Total cycle EFPD
632.0                 : Total cycle length in calendar days
09                    : Integer position of assembly in cycle
N                     : Flag for variable or constant irradiation step specs
1                     : Relative insertion cycle #
1                     : Relative stpt # in insertion cycle
65.075                : Irradiation step length in EFPD
4                     : # of irradiation steps to next stpt
1424.17               : ppmb
1300.75               : ppmb
1159.96               : ppmb
971.50                : ppmb
2                     : Relative stpt # in insertion cycle
30.7                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
856.06                : ppmb
3                     : Relative stpt # in insertion cycle
28.0                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
805.91                : ppmb
4                     : Relative stpt # in insertion cycle
71.65                 : Irradiation step length in EFPD
2                     : # of irradiation steps to next stpt
565.35                : ppmb
356.75                : ppmb
5                     : Relative stpt # in insertion cycle
16.7                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
231.02                : ppmb
6                     : Relative stpt # in insertion cycle
18.9                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
183.83                : ppmb
2                     : Relative insertion cycle #
1                     : Relative stpt # in insertion cycle
52.93                 : Irradiation step length in EFPD
3                     : # of irradiation steps to next stpt
1599.85               : ppmb
```

```
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1179.9
1409.8
1530.3
1574.9
1583.8
1580.8
1575.1
1569.3
1564.7
1561.3
1559.3
1558.5
1557.9
```

```
1554.7
1543.4
1504.2
1406.7
1181.9
18                      : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1159.8
1324.3
1384.7
1388.5
1379.1
1370.1
1364.8
1363.5
1365.5
1370.2
1377.4
1387.3
1399.7
1413.3
1426.8
1431.7
1394.8
1211.8
18                      : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1159.8
1324.3
1384.7
1388.5
1379.1
1370.1
1364.8
1363.5
1365.5
```

```
1370.2
1377.4
1387.3
1399.7
1413.3
1426.8
1431.7
1394.8
1211.8
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1164.5
1323.1
1366.3
1360.7
1347.0
1335.7
1328.6
1324.9
1323.8
1324.6
1327.2
1332.0
1339.8
1351.1
1364.5
1374.3
1351.8
1189.8
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1164.5
1323.1
1366.3
1360.7
1347.0
```

```
1335.7
1328.6
1324.9
1323.8
1324.6
1327.2
1332.0
1339.8
1351.1
1364.5
1374.3
1351.8
1189.8
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1164.5
1323.1
1366.3
1360.7
1347.0
1335.7
1328.6
1324.9
1323.8
1324.6
1327.2
1332.0
1339.8
1351.1
1364.5
1374.3
1351.8
1189.8
18                    : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1021.8
```

```
1148.0
1204.6
1229.1
1239.8
1243.5
1242.9
1239.9
1235.8
1231.9
1228.9
1225.9
1220.6
1211.5
1196.8
1172.7
1126.0
 994.1
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1027.8
1139.3
1182.9
1196.5
1199.5
1197.9
1194.1
1189.3
1184.7
1180.9
1178.4
1176.8
1174.7
1171.1
1164.3
1150.6
1116.1
 996.7
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
1033.9
1127.6
1156.3
1166.6
1164.5
1159.0
1153.1
1147.7
1143.3
1140.2
1138.7
1138.6
1139.2
1139.8
1138.7
1130.2
1100.4
 998.0
18                    : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
```

```
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                  : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                  : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
0.0236
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
```

```
18                      : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
```

```
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.147
 8.057
 9.996
10.972
11.436
11.660
11.774
11.839
11.880
11.912
```

```
11.935
11.944
11.914
11.793
11.484
10.795
 9.358
 6.405
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.851
 9.122
11.248
12.287
12.762
12.982
13.089
13.149
13.189
13.223
13.253
13.272
13.256
13.147
12.840
12.117
10.551
 7.241
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 6.538
10.149
12.439
13.521
13.996
14.202
```

```
14.295
14.343
14.376
14.406
14.436
14.459
14.450
14.349
14.044
13.293
11.616
 7.991
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.078
15.318
18.311
19.541
19.992
20.147
20.203
20.237
20.276
20.329
20.398
20.480
20.552
20.550
20.331
19.556
17.445
12.216
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.516
15.936
```

```
18.994
20.232
20.677
20.824
20.876
20.909
20.949
21.005
21.079
21.167
21.248
21.258
21.052
20.282
18.134
12.728
18                      : # of burnup axial nodes (BOC-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.966
16.532
19.451
20.545
20.903
21.016
21.076
21.146
21.224
21.293
21.344
21.382
21.400
21.368
21.180
20.512
18.530
13.083
18                      : # of burnup axial nodes (Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
14.156
21.398
25.195
26.714
27.295
27.526
27.647
27.743
27.831
27.905
27.965
28.002
27.979
27.844
27.469
26.468
23.821
16.618
18                    : # of burnup axial nodes (Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.452
23.313
27.402
29.036
29.660
29.906
30.029
30.122
30.206
30.279
30.343
30.386
30.364
30.220
29.814
28.735
25.882
18.035
18                    : # of burnup axial nodes (Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

13 20.0025
14 20.0025
15 20.0025
16 20.0025
17 20.0025
18 22.3520
18.731
28.017
32.705
34.525
35.189
35.427
35.531
35.607
35.681
35.755
35.835
35.906
35.914
35.794
35.384
34.206
30.951
21.625

```
N                       : This is not pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.84                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
ZIRC-4                  : Spacer grid material
0.008165257             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
N                       : Activate BPRA tracking
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
853.0                   : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
08                      : Integer position of assembly in cycle
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
```

```
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
02                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : ppmb
18                      : # of axial nodes in CRC format
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
```

```
15     20.0025
16     20.0025
17     20.0025
18     22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 899.3
1086.0
1175.8
1209.6
1218.9
1218.1
1213.7
1208.7
1204.1
1200.7
1198.5
1197.2
1195.9
1192.3
1181.6
1152.6
1079.4
 886.3
18                      : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 928.0
1070.9
1118.7
1127.5
1123.9
1118.6
1115.0
1113.7
```

```
1114.6
1117.3
1121.8
1128.2
1136.3
1145.9
1154.1
1152.0
1115.1
 957.1
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 928.0
1070.9
1118.7
1127.5
1123.9
1118.6
1115.0
1113.7
1114.6
1117.3
1121.8
1128.2
1136.3
1145.9
1154.1
1152.0
1115.1
 957.1
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 948.8
1081.5
1125.6
1129.4
```

```
1122.8
1115.9
1111.0
1108.3
1107.4
1107.9
1109.8
1113.3
1118.7
1126.3
1134.4
1136.2
1105.5
 963.8
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 948.8
1081.5
1125.6
1129.4
1122.8
1115.9
1111.0
1108.3
1107.4
1107.9
1109.8
1113.3
1118.7
1126.3
1134.4
1136.2
1105.5
 963.8
18                      : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
 948.8
1081.5
1125.6
1129.4
1122.8
1115.9
1111.0
1108.3
1107.4
1107.9
1109.8
1113.3
1118.7
1126.3
1134.4
1136.2
1105.5
 963.8
18                    : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1079.7
1248.1
1318.4
1343.5
1353.9
1357.4
1357.3
1355.4
1352.9
1350.8
1350.6
1350.7
1346.8
1337.8
1321.6
1293.9
1238.3
1066.7
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1078.7
1225.6
1276.7
1291.1
1292.9
1290.4
1286.6
1282.7
1279.2
1276.8
1276.1
1276.5
1275.6
1272.4
1266.0
1251.1
1209.9
1062.8
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1081.5
1198.7
1232.1
1235.1
1229.2
1222.0
1215.6
1210.4
1206.6
1204.1
1203.5
1204.5
1205.9
1207.5
1208.6
1204.6
1179.4
1065.0
18                    : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0228
0.0228
0.0227
0.0226
0.0225
0.0224
0.0224
0.0223
0.0222
0.0221
0.0220
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0228
0.0228
0.0227
0.0226
0.0225
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0228
0.0228
0.0227
0.0226
0.0225
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0229
0.0228
0.0227
0.0226
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0229
0.0228
0.0227
0.0226
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0229
0.0228
0.0227
0.0226
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
```

```
0.0216
18                      : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
```

```
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
```

```
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 2.877
 4.848
 6.025
 6.604
 6.883
 7.014
 7.070
 7.090
 7.094
 7.092
 7.087
 7.076
 7.043
 6.959
 6.763
 6.324
 5.359
 3.219
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.270
 5.475
 6.766
 7.383
 7.669
```

```
 7.797
 7.847
 7.863
 7.864
 7.862
 7.859
 7.852
 7.826
 7.747
 7.551
 7.090
 6.039
 3.652
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.650
 6.076
 7.468
 8.113
 8.400
 8.520
 8.562
 8.569
 8.565
 8.559
 8.555
 8.549
 8.526
 8.451
 8.253
 7.773
 6.650
 4.044
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.697
```

```
 9.207
11.057
11.811
12.094
12.185
12.203
12.198
12.192
12.195
12.211
12.236
12.257
12.235
12.081
11.566
10.124
 6.356
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.957
 9.592
11.490
12.253
12.533
12.620
12.635
12.629
12.623
12.628
12.646
12.675
12.701
12.686
12.540
12.025
10.552
 6.650
18                      : # of burnup axial nodes (BOC-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
 6.252
10.028
11.980
12.753
13.031
13.114
13.127
13.120
13.115
13.122
13.143
13.176
13.208
13.201
13.063
12.549
11.043
 6.988
18                    : # of burnup axial nodes (Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 9.527
15.134
18.042
19.255
19.753
19.956
20.034
20.063
20.080
20.110
20.172
20.246
20.258
20.150
19.808
18.915
16.643
10.655
18                    : # of burnup axial nodes (Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.850
17.123
20.340
21.668
22.208
22.422
22.502
22.530
22.546
22.580
22.654
22.744
22.763
22.648
22.275
21.297
18.796
12.118
18                    : # of burnup axial nodes (Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.189
21.979
25.823
27.330
27.899
28.101
28.161
28.174
28.185
28.229
28.333
28.469
28.529
28.442
28.067
26.984
24.054
15.815
```

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.84                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
ZIRC-4                     : Spacer grid material
0.008165257                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.8 0.5857538 16 2 4   : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
2                          : # of insertion reactor cycles
07                         : Insertion reactor cycle identifier
6                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
260.3                      : Stpt EFPD
275.0                      : Length to stpt in calendar days
18.875                     : Downtime at stpt
291.0                      : Stpt EFPD
```

```
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
10                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
529.1                   : Length to stpt in calendar days
4.9                     : Downtime at stpt
515.5                   : Stpt EFPD
645.0                   : Length to stpt in calendar days
7.6                     : Downtime at stpt
75                      : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
11                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
2                       : Relative insertion cycle #
```

```
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1175.0
```

```
1406.4
1524.5
1568.6
1580.9
1580.6
1577.0
1573.2
1570.0
1567.0
1564.3
1561.7
1558.6
1552.6
1537.1
1498.4
1406.2
1180.9
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1160.2
1327.7
1390.4
1397.2
1390.0
1382.5
1378.5
1378.2
1381.0
1386.5
1394.3
1404.6
1416.4
1429.6
1442.4
1446.0
1409.8
1225.1
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

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16     20.0025
17     20.0025
18     22.3520
1160.2
1327.7
1390.4
1397.2
1390.0
1382.5
1378.5
1378.2
1381.0
1386.5
1394.3
1404.6
1416.4
1429.6
1442.4
1446.0
1409.8
1225.1
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1163.2
1323.1
1369.4
1367.2
1355.5
1345.4
1338.9
1335.7
1335.0
1336.2
1339.2
1344.4
1352.4
1363.7
1376.1
1384.0
1360.0
1197.2
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
```

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12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1163.2
1323.1
1369.4
1367.2
1355.5
1345.4
1338.9
1335.7
1335.0
1336.2
1339.2
1344.4
1352.4
1363.7
1376.1
1384.0
1360.0
1197.2
18                  : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1163.2
1323.1
1369.4
1367.2
1355.5
1345.4
1338.9
1335.7
1335.0
1336.2
1339.2
1344.4
1352.4
1363.7
1376.1
1384.0
1360.0
1197.2
18                  : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

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8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1028.9
1150.6
1206.8
1232.3
1243.7
1248.4
1249.7
1249.1
1247.3
1244.9
1242.1
1239.0
1234.3
1225.0
1209.1
1183.8
1138.4
1009.5
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1028.9
1150.6
1206.8
1232.3
1243.7
1248.4
1249.7
1249.1
1247.3
1244.9
1242.1
1239.0
1234.3
1225.0
1209.1
1183.8
1138.4
1009.5
18                    : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1037.9
1143.8
1184.5
1196.6
1199.6
1198.8
1196.4
1193.5
1191.0
1189.0
1187.8
1187.6
1187.5
1185.0
1177.6
1161.8
1129.3
1012.1
18                    : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1037.9
1143.8
1184.5
1196.6
1199.6
1198.8
1196.4
1193.5
1191.0
1189.0
1187.8
1187.6
1187.5
1185.0
1177.6
1161.8
1129.3
1012.1
```

```
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1034.4
1116.3
1150.5
1149.1
1139.3
1129.8
1122.3
1116.3
1111.7
1108.2
1105.8
1105.2
1107.0
1110.9
1116.6
1119.6
1100.0
1001.5
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
```

```
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
```

```
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0234
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0234
0.0233
0.0232
```

```
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0234
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
```

```
0.0235
0.0233
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

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17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.245
 8.060
 9.728
10.524
10.900
11.089
11.196
11.267
11.313
11.333
11.326
11.290
11.213
11.066
10.784
10.204
 8.969
 6.174
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.971
 9.146
10.991
11.845
12.233
12.418
12.521
12.590
12.637
12.661
12.660
12.632
12.565
12.429
12.148
11.537
10.179
 7.024
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 6.672
10.188
12.189
13.084
13.472
13.646
13.736
13.796
13.837
13.858
13.857
13.831
13.771
13.641
13.361
12.724
11.260
 7.788
18                      : # of burnup axial nodes (Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
10.277
15.406
18.076
19.113
19.481
19.610
19.670
19.722
19.775
19.821
19.859
19.890
19.904
19.866
19.668
19.009
17.130
12.060
18                      : # of burnup axial nodes (Stpt6-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.714
16.021
18.756
19.802
20.164
20.286
20.343
20.394
20.449
20.498
20.540
20.576
20.599
20.572
20.387
19.732
17.817
12.574
18                     : # of burnup axial nodes (BOC-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.207
16.714
19.521
20.576
20.932
21.048
21.102
21.154
21.210
21.263
21.309
21.352
21.384
21.369
21.198
```

```
20.549
18.595
13.159
18                          : # of burnup axial nodes (Stpt2-8)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
13.133
19.633
22.970
24.297
24.805
25.012
25.126
25.216
25.297
25.365
25.419
25.456
25.455
25.362
25.055
24.188
21.844
15.366
18                          : # of burnup axial nodes (Stpt3-8)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
14.016
20.951
24.507
25.938
26.495
26.727
26.855
26.954
27.041
27.113
27.170
```

```
27.209
27.205
27.094
26.747
25.804
23.301
16.367
18                    : # of burnup axial nodes (Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
20.034
29.628
34.379
36.243
36.931
37.195
37.328
37.430
37.527
37.620
37.714
37.809
37.868
37.788
37.388
36.190
32.867
23.138
18                    : # of burnup axial nodes (Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
20.167
29.816
34.589
36.458
37.146
37.409
37.541
```

```
37.643
37.739
37.834
37.928
38.025
38.086
38.008
37.611
36.412
33.076
23.291
18                    : # of burnup axial nodes (Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
22.817
33.463
38.592
40.517
41.176
41.401
41.504
41.587
41.675
41.768
41.870
41.987
42.082
42.049
41.701
40.510
36.975
26.184
```

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.84                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
ZIRC-4                     : Spacer grid material
0.008165257                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.19 0.5857538 16 2 4    : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
3                          : # of insertion reactor cycles
07                         : Insertion reactor cycle identifier
6                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
260.3                      : Stpt EFPD
275.0                      : Length to stpt in calendar days
18.875                     : Downtime at stpt
291.0                      : Stpt EFPD
```

```
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
23                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
529.1                   : Length to stpt in calendar days
4.9                     : Downtime at stpt
515.5                   : Stpt EFPD
645.0                   : Length to stpt in calendar days
7.6                     : Downtime at stpt
75.0                    : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
28                      : Integer position of assembly in cycle
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
11                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
```

```
3                   : Relative stpt # in insertion cycle
28.0                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
805.91              : ppmb
4                   : Relative stpt # in insertion cycle
71.65               : Irradiation step length in EFPD
2                   : # of irradiation steps to next stpt
565.35              : ppmb
356.75              : ppmb
5                   : Relative stpt # in insertion cycle
16.7                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
231.02              : ppmb
6                   : Relative stpt # in insertion cycle
18.9                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
183.83              : ppmb
2                   : Relative insertion cycle #
1                   : Relative stpt # in insertion cycle
48.8                : Irradiation step length in EFPD
2                   : # of irradiation steps to next stpt
1510.73             : ppmb
1419.25             : ppmb
2                   : Relative stpt # in insertion cycle
42.2                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
1305.52             : ppmb
3                   : Relative stpt # in insertion cycle
66.05               : Irradiation step length in EFPD
4                   : # of irradiation steps to next stpt
1142.75             : ppmb
985.95              : ppmb
793.58              : ppmb
588.91              : ppmb
4                   : Relative stpt # in insertion cycle
5.6                 : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
484.53              : ppmb
5                   : Relative stpt # in insertion cycle
52.95               : Irradiation step length in EFPD
2                   : # of irradiation steps to next stpt
416.34              : ppmb
274.55              : ppmb
6                   : Relative stpt # in insertion cycle
20.4                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
185.39              : ppmb
3                   : Relative insertion cycle #
1                   : Relative stpt # in insertion cycle
52.93               : Irradiation step length in EFPD
3                   : # of irradiation steps to next stpt
1599.85             : ppmb
1491.21             : ppmb
1361.78             : ppmb
2                   : Relative stpt # in insertion cycle
60.2                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
1211.60             : ppmb
3                   : Relative stpt # in insertion cycle
72.05               : Irradiation step length in EFPD
2                   : # of irradiation steps to next stpt
1016.51             : ppmb
802.70              : ppmb
4                   : Relative stpt # in insertion cycle
64.71               : Irradiation step length in EFPD
3                   : # of irradiation steps to next stpt
584.95              : ppmb
388.60              : ppmb
192.66              : ppmb
18                  : # of axial nodes in CRC format
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                     : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1181.4
1410.7
1531.1
1574.9
1581.4
1577.1
1571.0
1565.1
1560.2
1556.6
1554.7
1555.3
1559.1
1559.7
1550.4
1515.0
1419.4
1194.3
18                     : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1162.3
1327.5
1388.6
1391.9
1380.4
1370.3
1364.8
1363.5
1365.4
1370.0
1377.1
1387.7
1402.4
1417.7
1432.0
1437.5
1403.3
1219.4
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1162.3
1327.5
1388.6
1391.9
1380.4
1370.3
1364.8
1363.5
1365.4
1370.0
1377.1
1387.7
1402.4
1417.7
1432.0
1437.5
1403.3
1219.4
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1166.7
1326.0
1369.7
1363.5
1348.0
1335.7
1328.3
1324.7
1323.6
1324.3
1326.6
1331.7
1341.4
1353.7
1367.3
1377.6
1356.9
1196.4
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1166.7
1326.0
1369.7
1363.5
1348.0
1335.7
1328.3
1324.7
1323.6
1324.3
1326.6
1331.7
1341.4
1353.7
1367.3
1377.6
1356.9
1196.4
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1166.7
1326.0
1369.7
1363.5
1348.0
1335.7
1328.3
1324.7
1323.6
1324.3
1326.6
1331.7
1341.4
1353.7
1367.3
1377.6
1356.9
1196.4
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height.(cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 726.6
 789.6
 813.7
 823.4
 827.8
 829.6
 829.7
 828.9
 827.5
 825.7
 823.3
 820.1
 815.7
 810.3
 803.3
 792.4
 770.0
 707.8
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 726.6
 789.6
 813.7
 823.4
 827.8
 829.6
 829.7
 828.9
 827.5
 825.7
 823.3
 820.1
 815.7
 810.3
 803.3
 792.4
 770.0
 707.8
18                    : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 740.1
 796.9
 812.9
 815.5
 815.0
 813.3
 811.3
 809.3
 807.4
 805.6
 803.8
 801.8
 799.3
 797.0
 794.5
```

```
 789.8
 775.5
 719.8
18                      : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 740.1
 796.9
 812.9
 815.5
 815.0
 813.3
 811.3
 809.3
 807.4
 805.6
 803.8
 801.8
 799.3
 797.0
 794.5
 789.8
 775.5
 719.8
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 774.1
 820.1
 823.7
 819.8
 814.8
 810.5
 807.0
 804.3
 802.2
 800.2
 798.5
```

```
 796.9
 795.6
 795.8
 797.7
 799.9
 795.8
 752.4
18                      : # of fuel temp axial nodes (Stpt6-8 to EOC-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 774.1
 820.1
 823.7
 819.8
 814.8
 810.5
 807.0
 804.3
 802.2
 800.2
 798.5
 796.9
 795.6
 795.8
 797.7
 799.9
 795.8
 752.4
18                      : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 965.4
1053.8
1099.5
1125.1
1137.1
1142.0
1142.7
```

```
1141.0
1138.0
1134.2
1129.9
1125.1
1118.8
1109.1
1094.3
1071.5
1034.5
 943.4
18                      : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 976.6
1058.7
1104.2
1124.3
1130.3
1130.4
1128.0
1124.7
1121.2
1117.8
1114.7
1111.8
1108.5
1103.7
1095.3
1079.2
1043.1
 950.2
18                      : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 989.0
1066.9
1109.2
```

```
1118.6
1116.7
1111.7
1106.5
1102.0
1098.3
1095.4
1093.3
1092.1
1091.7
1091.7
1090.5
1083.3
1054.9
 956.7
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                  : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800       : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                  : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800       : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
```

```
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-8 to EOC-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
```

```
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0234
0.0232
0.0231
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0232
0.0231
0.0230
0.0229
0.0228
0.0226
```

```
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.120
 7.997
 9.932
10.910
```

```
11.351
11.558
11.667
11.729
11.767
11.797
11.833
11.889
11.943
11.893
11.629
10.969
 9.554
 6.581
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.825
 9.062
11.187
12.228
12.676
12.877
12.978
13.035
13.072
13.104
13.146
13.215
13.291
13.261
13.003
12.310
10.768
 7.435
18                      : # of burnup axial nodes (Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
 6.515
10.092
12.382
13.466
13.910
14.095
14.183
14.228
14.257
14.285
14.327
14.402
14.492
14.475
14.221
13.503
11.852
 8.201
18                      : # of burnup axial nodes (Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.065
15.274
18.271
19.502
19.904
20.027
20.076
20.107
20.141
20.190
20.272
20.416
20.619
20.725
20.570
19.836
17.757
12.494
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.504
15.893
18.957
20.194
20.587
20.702
20.747
20.776
20.811
20.863
20.949
21.100
21.315
21.435
21.295
20.567
18.452
13.013
18                    : # of burnup axial nodes (BOC-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.990
16.583
19.724
20.971
21.356
21.463
21.503
21.533
21.569
21.625
21.715
21.875
22.102
22.238
22.114
21.394
19.241
13.604
18                    : # of burnup axial nodes (Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.648
17.664
21.049
22.423
22.879
23.028
23.095
23.139
23.183
23.241
23.327
23.474
23.677
23.774
23.588
22.762
20.405
14.320
18                    : # of burnup axial nodes (Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.952
18.153
21.634
23.052
23.528
23.688
23.758
23.805
23.849
23.906
23.991
24.135
24.332
24.420
24.216
23.356
20.921
14.645
18                    : # of burnup axial nodes (Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.134
21.485
25.468
27.049
27.570
27.732
27.794
27.830
27.868
27.920
28.003
28.146
28.342
28.424
28.192
27.221
24.410
16.958
18                    : # of burnup axial nodes (Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.185
21.560
25.553
27.136
27.657
27.818
27.880
27.916
27.954
28.006
28.089
28.232
28.428
28.511
28.280
27.308
24.490
17.014
18                    : # of burnup axial nodes (Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.239
23.084
27.238
28.845
29.354
29.499
29.547
29.574
29.607
29.656
29.739
29.883
30.084
30.177
29.961
28.985
26.066
18.120
18                    : # of burnup axial nodes (BOC-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
15.465
23.404
27.588
29.198
29.704
29.846
29.890
29.914
29.942
29.986
30.062
30.200
30.393
30.482
30.264
29.286
26.348
```

```
18.322
18                      : # of burnup axial nodes (Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.446
27.819
32.776
34.783
35.501
35.758
35.865
35.918
35.954
35.991
36.049
36.159
36.302
36.293
35.907
34.654
31.211
21.734
18                      : # of burnup axial nodes (Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.688
29.614
34.838
36.959
37.722
37.996
38.107
38.159
38.192
38.228
38.285
38.395
38.536
```

```
38.516
38.101
36.778
33.162
23.126
18                      : # of burnup axial nodes (Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
22.867
34.093
39.892
42.207
43.015
43.284
43.381
43.421
43.448
43.484
43.551
43.680
43.847
43.848
43.426
42.008
38.037
26.669
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.84                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
ZIRC-4                  : Spacer grid material
0.008165257             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
N                       : Activate BPRA tracking
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
25                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
```

```
529.1                 : Length to stpt in calendar days
4.9                   : Downtime at stpt
515.5                 : Stpt EFPD
645.0                 : Length to stpt in calendar days
7.6                   : Downtime at stpt
75.0                  : Days of downtime at EOC
535.9                 : Total cycle EFPD
679                   : Total cycle length in calendar days
24                    : Integer position of assembly in cycle
09                    : Insertion reactor cycle identifier
4                     : # of stpts in cycle
0                     : Stpt EFPD
0                     : Length to stpt in calendar days
0                     : Downtime at stpt
158.8                 : Stpt EFPD
168.0                 : Length to stpt in calendar days
2.146                 : Downtime at stpt
219.0                 : Stpt EFPD
233.146               : Length to stpt in calendar days
53.125                : Downtime at stpt
363.1                 : Stpt EFPD
431.271               : Length to stpt in calendar days
1.625                 : Downtime at stpt
55.0                  : Days of downtime at EOC
557.23                : Total cycle EFPD
632.0                 : Total cycle length in calendar days
21                    : Integer position of assembly in cycle
N                     : Flag for variable or constant irradiation step specs
1                     : Relative insertion cycle #
1                     : Relative stpt # in insertion cycle
65.075                : Irradiation step length in EFPD
4                     : # of irradiation steps to next stpt
1424.17               : ppmb
1300.75               : ppmb
1159.96               : ppmb
971.50                : ppmb
2                     : Relative stpt # in insertion cycle
30.7                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
856.06                : ppmb
3                     : Relative stpt # in insertion cycle
28.0                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
805.91                : ppmb
4                     : Relative stpt # in insertion cycle
71.65                 : Irradiation step length in EFPD
2                     : # of irradiation steps to next stpt
565.35                : ppmb
356.75                : ppmb
5                     : Relative stpt # in insertion cycle
16.7                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
231.02                : ppmb
6                     : Relative stpt # in insertion cycle
18.9                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
183.83                : ppmb
2                     : Relative insertion cycle #
1                     : Relative stpt # in insertion cycle
48.8                  : Irradiation step length in EFPD
2                     : # of irradiation steps to next stpt
1510.73               : ppmb
1419.25               : ppmb
2                     : Relative stpt # in insertion cycle
42.2                  : Irradiation step length in EFPD
1                     : # of irradiation steps to next stpt
1305.52               : ppmb
3                     : Relative stpt # in insertion cycle
66.05                 : Irradiation step length in EFPD
4                     : # of irradiation steps to next stpt
```

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1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
3                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 945.9
1150.5
1246.9
1281.4
1289.4
1287.3
1282.1
1276.5
1271.7
1268.2
1266.2
1265.7
1265.8
1263.6
1253.7
1224.4
1147.4
 937.4
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 970.9
1119.9
1169.0
1175.8
1170.2
1163.7
1159.4
1157.9
1158.8
1161.7
1166.6
1173.4
1182.5
1193.2
1202.9
1203.0
1166.4
1003.9
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 970.9
1119.9
1169.0
1175.8
1170.2
1163.7
1159.4
1157.9
1158.8
1161.7
1166.6
1173.4
1182.5
1193.2
1202.9
1203.0
1166.4
1003.9
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 990.1
1127.8
1170.5
1171.9
1163.8
1155.8
1150.3
1147.3
1146.2
1146.6
1148.5
1152.0
1157.8
1166.0
1175.1
1178.0
1151.1
1005.2
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 990.1
1127.8
1170.5
1171.9
1163.8
1155.8
1150.3
1147.3
1146.2
1146.6
1148.5
1152.0
1157.8
1166.0
1175.1
1178.0
1151.1
1005.2
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 990.1
1127.8
1170.5
1171.9
1163.8
1155.8
1150.3
1147.3
1146.2
1146.6
1148.5
1152.0
1157.8
1166.0
1175.1
1178.0
```

```
1151.1
1005.2
18                      : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
1009.9
1159.0
1224.0
1252.3
1265.2
1271.0
1273.7
1274.5
1274.0
1272.7
1271.0
1269.3
1266.4
1259.2
1245.0
1218.4
1166.4
1013.0
18                      : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1       17.7800         : Node #, node height (cm)
2       20.0025
3       20.0025
4       20.0025
5       20.0025
6       20.0025
7       20.0025
8       20.0025
9       20.0025
10      20.0025
11      20.0025
12      20.0025
13      20.0025
14      20.0025
15      20.0025
16      20.0025
17      20.0025
18      22.3520
1009.9
1159.0
1224.0
1252.3
1265.2
1271.0
1273.7
1274.5
1274.0
1272.7
1271.0
1269.3
```

```
1266.4
1259.2
1245.0
1218.4
1166.4
1013.0
18                      : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1016.3
1140.3
1182.9
1194.1
1194.9
1192.6
1189.8
1187.1
1184.9
1183.2
1182.2
1182.4
1183.3
1183.0
1179.6
1168.4
1136.4
1013.6
18                      : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1016.3
1140.3
1182.9
1194.1
1194.9
1192.6
1189.8
1187.1
```

```
1184.9
1183.2
1182.2
1182.4
1183.3
1183.0
1179.6
1168.4
1136.4
1013.6
18                    : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1033.6
1114.2
1134.2
1130.4
1120.4
1111.5
1105.0
1100.4
1096.9
1094.2
1092.4
1092.2
1094.3
1098.5
1105.0
1111.0
1099.0
1020.3
18                    : # of fuel temp axial nodes (Stpt6-8 to EOC-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1033.6
1114.2
1134.2
1130.4
```

```
1120.4
1111.5
1105.0
1100.4
1096.9
1094.2
1092.4
1092.2
1094.3
1098.5
1105.0
1111.0
1099.0
1020.3
18                    : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 654.8
 676.8
 685.8
 690.9
 692.7
 692.8
 692.1
 690.9
 689.5
 687.8
 686.0
 684.0
 681.6
 678.8
 675.1
 669.4
 659.3
 640.0
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
 662.8
 683.5
 691.4
 694.3
 694.3
 693.3
 691.8
 690.2
 688.6
 687.1
 685.6
 684.0
 682.3
 680.7
 678.5
 674.6
 665.5
 647.4
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 675.9
 694.7
 701.2
 701.5
 699.7
 697.4
 695.2
 693.3
 691.6
 690.1
 688.8
 687.6
 686.6
 685.9
 685.3
 683.6
 676.4
 659.1
18                    : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0235
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0235
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
```

```
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
```

```
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-8 to EOC-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
```

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0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0220
0.0220
0.0219
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0220
0.0220
0.0219
0.0219
0.0219
```

```
0.0219
0.0218
0.0218
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
```

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0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.230
 5.438
 6.770
 7.434
 7.754
 7.903
 7.968
 7.994
 8.002
 8.007
 8.013
 8.018
 8.004
 7.932
 7.728
 7.250
 6.182
 3.751
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

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16    20.0025
17    20.0025
18    22.3520
 3.673
 6.142
 7.601
 8.307
 8.634
 8.779
 8.838
 8.858
 8.864
 8.869
 8.878
 8.889
 8.883
 8.819
 8.616
 8.115
 6.956
 4.249
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 4.103
 6.818
 8.388
 9.125
 9.452
 9.587
 9.636
 9.648
 9.647
 9.648
 9.656
 9.668
 9.667
 9.608
 9.406
 8.886
 7.648
 4.699
18                    : # of burnup axial nodes (Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

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12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 6.399
10.308
12.377
13.228
13.545
13.645
13.665
13.662
13.660
13.671
13.702
13.751
13.803
13.808
13.660
13.109
11.540
 7.319
18                    : # of burnup axial nodes (Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 6.689
10.735
12.855
13.714
14.027
14.122
14.139
14.135
14.133
14.146
14.179
14.232
14.290
14.303
14.163
13.615
12.014
 7.648
18                    : # of burnup axial nodes (BOC-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

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8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 7.017
11.217
13.394
14.263
14.573
14.663
14.678
14.673
14.672
14.687
14.723
14.781
14.846
14.868
14.737
14.191
12.556
 8.026
18                    : # of burnup axial nodes (Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 8.704
13.901
16.661
17.840
18.327
18.529
18.619
18.665
18.699
18.737
18.787
18.850
18.893
18.846
18.580
17.788
15.686
10.056
18                    : # of burnup axial nodes (Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 9.474
15.098
18.087
19.375
19.913
20.142
20.248
20.305
20.346
20.389
20.445
20.513
20.558
20.500
20.200
19.330
17.053
10.962
18                      : # of burnup axial nodes (Stpt4-8)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
14.771
22.940
27.096
28.794
29.452
29.710
29.825
29.892
29.948
30.017
30.114
30.245
30.368
30.363
30.040
28.944
25.860
17.079
```

```
18                      : # of burnup axial nodes (Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.890
23.111
27.287
28.991
29.649
29.906
30.021
30.087
30.144
30.213
30.311
30.444
30.570
30.567
30.246
29.150
26.054
17.218
18                      : # of burnup axial nodes (Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.283
26.463
30.988
32.749
33.384
33.611
33.705
33.761
33.815
33.889
33.998
34.154
34.314
34.356
```

```
34.086
33.003
29.720
19.917
18                      : # of burnup axial nodes (BOC-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.789
27.158
31.747
33.518
34.149
34.371
34.459
34.508
34.555
34.617
34.713
34.852
34.996
35.029
34.756
33.669
30.356
20.392
18                      : # of burnup axial nodes (Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.488
28.230
33.010
34.871
35.548
35.791
35.886
35.935
35.976
36.028
```

```
36.110
36.231
36.351
36.352
36.033
34.871
31.410
21.098
18                      : # of burnup axial nodes (Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.791
28.680
33.525
35.408
36.091
36.333
36.426
36.472
36.509
36.558
36.636
36.753
36.869
36.865
36.538
35.358
31.849
21.402
18                      : # of burnup axial nodes (Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.612
29.864
34.845
36.758
37.438
37.669
```

37.750
37.784
37.812
37.854
37.927
38.039
38.153
38.148
37.817
36.614
33.010
22.228

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.84                       : U-235 wt% enrichment in U of UO2
463630                     : Grams of U per assembly
208                        : Number of fuel rods in assembly
1.44272                    : Pin-pitch in assembly (cm)
0.936244                   : Fuel pellet diameter (cm)
0.95758                    : Fuel rod cladding ID (cm)
1.0922                     : Fuel rod cladding OD (cm)
360.172                    : Fuel stack height (cm)
N                          : No axial blanket fuel
ZIRC-4                     : Spacer grid material
0.008165257                : Vol. frac. of mod. displaced by grids
ZIRC-4                     : Fuel rod cladding material
640.0                      : Avg. fuel rod cladding temp. (K)
N                          : No cladding materials other than ZIRC-4
2200.0                     : System pressure (psi)
Y                          : Activate BPRA tracking
1                          : Number of reactor cycles with BPRA
1 0                        : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.0 0.5857538 16 2 4   : Input Card 18C
8                          : # of radial zones in BPRA Path B model
4 0.43180                  : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                  : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                  : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                    : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                   : BPRA insertion history (Input Card 18N)
5                          : # of radial zones in the standard Path B model
3 0.63246                  : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                          : # of cross-section libraries per irradiation step
5                          : SAS2H output print level
0.5                        : Zone mesh factor for XSDRNPM
NO SPECIAL                 : No special XSDRNPM control parameter specs.
2                          : # of insertion reactor cycles
07                         : Insertion reactor cycle identifier
6                          : # of stpts in cycle
0                          : Stpt EFPD
0                          : Length to stpt in calendar days
0                          : Downtime at stpt
260.3                      : Stpt EFPD
275.0                      : Length to stpt in calendar days
18.875                     : Downtime at stpt
291.0                      : Stpt EFPD
```

```
319.175              : Length to stpt in calendar days
39.5                 : Downtime at stpt
319.0                : Stpt EFPD
414.375              : Length to stpt in calendar days
109.5                : Downtime at stpt
462.3                : Stpt EFPD
743.875              : Length to stpt in calendar days
2.229                : Downtime at stpt
479.0                : Stpt EFPD
765.104              : Length to stpt in calendar days
7.208                : Downtime at stpt
99.0                 : Days of downtime at EOC
497.9                : Total cycle EFPD
796                  : Total cycle length in calendar days
27                   : Integer position of assembly in cycle
08                   : Insertion reactor cycle identifier
6                    : # of stpts in cycle
0                    : Stpt EFPD
0                    : Length to stpt in calendar days
0                    : Downtime at stpt
97.6                 : Stpt EFPD
110.0                : Length to stpt in calendar days
15.5                 : Downtime at stpt
139.8                : Stpt EFPD
173.5                : Length to stpt in calendar days
6.2                  : Downtime at stpt
404.0                : Stpt EFPD
479.7                : Length to stpt in calendar days
44.4                 : Downtime at stpt
409.6                : Stpt EFPD
529.1                : Length to stpt in calendar days
4.9                  : Downtime at stpt
515.5                : Stpt EFPD
645.0                : Length to stpt in calendar days
7.6                  : Downtime at stpt
75                   : Days of downtime at EOC
535.9                : Total cycle EFPD
679                  : Total cycle length in calendar days
02                   : Integer position of assembly in cycle
N                    : Flag for variable or constant irradiation step specs
1                    : Relative insertion cycle #
1                    : Relative stpt # in insertion cycle
65.075               : Irradiation step length in EFPD
4                    : # of irradiation steps to next stpt
1424.17              : ppmb
1300.75              : ppmb
1159.96              : ppmb
971.50               : ppmb
2                    : Relative stpt # in insertion cycle
30.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
856.06               : ppmb
3                    : Relative stpt # in insertion cycle
28.0                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
805.91               : ppmb
4                    : Relative stpt # in insertion cycle
71.65                : Irradiation step length in EFPD
2                    : # of irradiation steps to next stpt
565.35               : ppmb
356.75               : ppmb
5                    : Relative stpt # in insertion cycle
16.7                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
231.02               : ppmb
6                    : Relative stpt # in insertion cycle
18.9                 : Irradiation step length in EFPD
1                    : # of irradiation steps to next stpt
183.83               : ppmb
2                    : Relative insertion cycle #
```

```
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1023.6
```

```
1253.1
1353.1
1386.5
1393.3
1390.2
1384.1
1377.9
1372.7
1369.1
1367.1
1366.8
1367.1
1365.0
1354.5
1323.2
1242.0
1025.2
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1039.4
1191.1
1238.3
1242.0
1234.3
1226.7
1222.1
1220.5
1221.6
1224.9
1230.3
1237.9
1248.0
1259.8
1270.9
1272.1
1234.8
1082.7
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
1039.4
1191.1
1238.3
1242.0
1234.3
1226.7
1222.1
1220.5
1221.6
1224.9
1230.3
1237.9
1248.0
1259.8
1270.9
1272.1
1234.8
1082.7
18                    : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1055.1
1193.3
1234.0
1232.7
1222.4
1213.2
1207.1
1203.9
1202.8
1203.3
1205.3
1209.1
1215.3
1224.1
1234.2
1238.5
1211.8
1076.4
18                    : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

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12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1055.1
1193.3
1234.0
1232.7
1222.4
1213.2
1207.1
1203.9
1202.8
1203.3
1205.3
1209.1
1215.3
1224.1
1234.2
1238.5
1211.8
1076.4
18                    : # of fuel temp axial nodes (Stpt6-7 to EOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1055.1
1193.3
1234.0
1232.7
1222.4
1213.2
1207.1
1203.9
1202.8
1203.3
1205.3
1209.1
1215.3
1224.1
1234.2
1238.5
1211.8
1076.4
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

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8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1044.0
1185.7
1231.3
1246.7
1251.8
1253.4
1252.9
1251.3
1249.2
1247.3
1246.2
1244.6
1238.4
1227.4
1211.2
1187.5
1141.6
 998.6
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1044.0
1185.7
1231.3
1246.7
1251.8
1253.4
1252.9
1251.3
1249.2
1247.3
1246.2
1244.6
1238.4
1227.4
1211.2
1187.5
1141.6
 998.6
18                    : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1043.9
1151.4
1184.0
1188.5
1185.6
1181.1
1176.6
1172.5
1169.0
1166.5
1165.2
1164.6
1162.8
1159.8
1155.2
1145.1
1114.4
1001.9
18                    : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1043.9
1151.4
1184.0
1188.5
1185.6
1181.1
1176.6
1172.5
1169.0
1166.5
1165.2
1164.6
1162.8
1159.8
1155.2
1145.1
1114.4
1001.9
```

```
18                      : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1041.4
1105.2
1117.0
1109.9
1098.3
1088.3
1080.6
1074.7
1070.1
1066.7
1064.6
1064.1
1064.7
1067.5
1072.7
1076.8
1064.9
 994.3
18                      : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
```

```
0.0218
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
```

```
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
```

```
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt6-7 to EOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
```

```
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.680
 6.285
 7.944
 8.773
 9.167
 9.352
 9.439
 9.480
 9.500
 9.514
 9.528
 9.539
 9.525
 9.439
 9.198
 8.635
 7.393
 4.679
18                    : # of burnup axial nodes (Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 4.195
 7.105
 8.912
 9.787
10.189
10.370
10.450
10.485
10.503
10.518
10.536
10.553
10.549
10.473
10.233
 9.644
 8.301
 5.291
18                    : # of burnup axial nodes (Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 4.700
 7.894
 9.829
10.737
11.137
11.307
11.376
11.401
11.412
11.423
11.439
11.459
11.460
11.390
11.151
10.540
 9.111
 5.842
18                      : # of burnup axial nodes (Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 7.360
11.912
14.408
15.435
15.819
15.948
15.985
15.996
16.007
16.031
16.075
16.137
16.198
16.201
16.022
15.382
13.599
 9.018
18                      : # of burnup axial nodes (Stpt6-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 7.698
12.401
14.950
15.985
16.363
16.486
16.520
16.530
16.542
16.568
16.614
16.681
16.749
16.760
16.591
15.954
14.139
 9.413
18                     : # of burnup axial nodes (BOC-8)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 8.071
12.945
15.559
16.604
16.978
17.096
17.127
17.137
17.150
17.178
17.228
17.300
17.375
17.396
17.238
```

```
16.603
14.754
 9.865
18                      : # of burnup axial nodes (Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.019
15.939
19.072
20.347
20.840
21.028
21.104
21.144
21.178
21.226
21.298
21.382
21.423
21.357
21.053
20.182
17.887
11.908
18                      : # of burnup axial nodes (Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.890
17.249
20.587
21.943
22.470
22.674
22.758
22.803
22.840
22.892
22.972
```

```
23.062
23.097
23.009
22.666
21.720
19.258
12.823
18                      : # of burnup axial nodes (Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.698
25.600
29.943
31.576
32.153
32.344
32.405
32.431
32.463
32.527
32.647
32.794
32.862
32.779
32.388
31.228
28.020
18.963
18                      : # of burnup axial nodes (Stpt5-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.827
25.778
30.138
31.773
32.349
32.539
32.598
```

```
32.623
32.655
32.719
32.840
32.989
33.059
32.977
32.588
31.428
28.209
19.101
18                    : # of burnup axial nodes (Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.365
29.219
33.846
35.488
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G14/CR3A14N04DC07T291AC07T319.notes	aXLIIf2.231	8	Mar 17 1997	9498	ASCII
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G14/CR3A14N05DC07T260AC07T291.notes	aXLIIf2.235	8	Mar 17 1997	10284	ASCII

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G14/CR3A14N10DC07T291AC07T319.notes	aXLIIf2.261	8	Mar 17 1997	9567	ASCII
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G14/CR3A14N13DC07T291AC07T319.notes	aXLIIf2.276	8	Mar 17 1997	9561	ASCII
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G14/CR3A14N13DC07T462AC07T479.notes	aXLIIf2.278	10	Mar 17 1997	12038	ASCII
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G14/CR3A14N14DC07T291AC07T319.notes	aXLIIf2.281	8	Mar 17 1997	9499	ASCII
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G14/CR3A14N14DC07T462AC07T479.notes	aXLIIf2.283	10	Mar 17 1997	12070	ASCII
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G14/CR3A20N11DC08T515AC09T000.notes	aXLIIf2.370	9	Mar 17 1997	11081	ASCII
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G14/CR3A20N12DC08T097AC08T139.notes	aXLIIf2.372	8	Mar 17 1997	10380	ASCII
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G14/CR3A20N13DC08T097AC08T139.notes	aXLIIf2.378	8	Mar 17 1997	10382	ASCII
G14/CR3A20N13DC08T139AC08T404.notes	aXLIIf2.379	9	Mar 17 1997	11081	ASCII
G14/CR3A20N13DC08T404AC08T409.notes	aXLIIf2.380	8	Mar 17 1997	10111	ASCII
G14/CR3A20N13DC08T409AC08T515.notes	aXLIIf2.381	9	Mar 17 1997	10656	ASCII
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G14/CR3A20N14DC08T139AC08T404.notes	aXLIIf2.385	9	Mar 17 1997	11065	ASCII
G14/CR3A20N14DC08T404AC08T409.notes	aXLIIf2.386	8	Mar 17 1997	10115	ASCII
G14/CR3A20N14DC08T409AC08T515.notes	aXLIIf2.387	9	Mar 17 1997	10658	ASCII
G14/CR3A20N14DC08T515AC09T000.notes	aXLIIf2.388	9	Mar 17 1997	11045	ASCII
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G14/CR3A20N15DC08T404AC08T409.notes	aXLIIf2.392	8	Mar 17 1997	10065	ASCII
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G14/CR3A20N16DC08T404AC08T409.notes	aXLIIf2.398	8	Mar 17 1997	10073	ASCII
G14/CR3A20N16DC08T409AC08T515.notes	aXLIIf2.399	9	Mar 17 1997	10617	ASCII
G14/CR3A20N16DC08T515AC09T000.notes	aXLIIf2.400	9	Mar 17 1997	11039	ASCII
G14/CR3A20N17DC08T000AC08T097.notes	aXLIIf2.401	7	Mar 17 1997	8998	ASCII
G14/CR3A20N17DC08T097AC08T139.notes	aXLIIf2.402	8	Mar 17 1997	10288	ASCII
G14/CR3A20N17DC08T139AC08T404.notes	aXLIIf2.403	9	Mar 17 1997	10835	ASCII
G14/CR3A20N17DC08T404AC08T409.notes	aXLIIf2.404	8	Mar 17 1997	9972	ASCII
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G14/CR3A20N18DC08T097AC08T139.notes	aXLIIf2.408	8	Mar 17 1997	9956	ASCII
G14/CR3A20N18DC08T139AC08T404.notes	aXLIIf2.409	8	Mar 17 1997	10312	ASCII
G14/CR3A20N18DC08T404AC08T409.notes	aXLIIf2.410	8	Mar 17 1997	9804	ASCII
G14/CR3A20N18DC08T409AC08T515.notes	aXLIIf2.411	8	Mar 17 1997	10316	ASCII
G14/CR3A20N18DC08T515AC09T000.notes	aXLIIf2.412	9	Mar 17 1997	10864	ASCII
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