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Released 1994

**Prepared for the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830**

**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
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By Authority of R M Otten
CG-NMP-1 8-3-94

By O E Savely 12-15-94

Verified By S B Roberts, 12-20-94

NOT UONI

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STATUS OF IRRADIATIONS PERFORMED BY
FUEL & TARGET IRRADIATION TECHNOLOGY FOR
BNW AS OF JANUARY 31, 1970

L. V. Barker

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This report itemizes the irradiations performed by Fuel and Target Irradiation Technology for BNW. It lists the material being irradiated, awaiting disposition and material shipped during the report period. An explanation of the various columns in the report follows:

Identification

- a. TISR No. - This is the official number assigned by Fuel and Target Irradiation Technology to an experiment for purposes of identification.
- b. Request Number - Customer experiment identification number, if any.
- c. Material - The principle target material, if known, abbreviated or its chemical symbol in capital letters.
- d. Piece Number - Individual sample or assembly identification.

Operating Time (Days) - The number of full-power operating days the sample has been exposed.

CMK Absorbed - The total cmk absorbed by the sample. Does not include the facility.

Charge Date - Date and time sample charged into reactor or date and time reactor reached one-half equilibrium level if sample was charged during a reactor outage.

Location


- a. Facility - Test facility or process tube and reactor containing the experiment.
- b. Test Hole Position - Sample position in-reactor relative to a process tube.
- c. Position Factor - Location of sample in relation to front-to-rear cosine flux distribution. (This factor only applies to front-to-rear irradiations.)

NOTE: The actual shape may deviate from a cosine curve due to local perturbations. The actual shape will be provided upon request.

Exposure to Date - NVT - The total thermal neutron exposure per square centimeter received to date. This number is calculated from facility unperturbed flux and reactor operating time.

Discharge, Date and Time - Date and time samples were removed from the active portion of the reactor or date and time reactor was down to one-half equilibrium level if sample was discharged during a reactor outage.

Shipping Date - Date samples were shipped to the customer or otherwise disposed of.


L. V. Barker, Supervisor
Irradiation Services Unit

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LVB:




IDENTIFICATION				OPERATING TIME (DAYS)	CMK ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TSR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS:														
177	BNW-177	GRAPH	00-6	256,9469		0856	4BTH-KE	0-4366	1,000		2,8+21			
177	BNW-177	GRAPH	0140	256,9469		0856	4BTH-KE	0-4379	1,000		2,8+21			
177	BNW-177	GRAPH	0143	256,9469		0856	4BTH-KE	0-4376	1,000		2,8+21			
177	BNW-177	GRAPH	0188	256,9469		0856	4BTH-KE	0-4363	1,000		2,8+21			
177	BNW-177	GRAPH	0109	256,9469		0856	4BTH-KE	0-4397	1,000		2,8+21			
177	BNW-177	GRAPH	0190	256,9469		0856	4BTH-KE	0-4373	1,000		2,8+21			
177	BNW-177	GRAPH	0191	256,9469		0856	4BTH-KE	0-4369	1,000		2,8+21			
177	BNW-177	GRAPH	0192	256,9469		0856	4BTH-KE	0-4354	1,000		2,8+21			
177	BNW-177	GRAPH	0193	256,9469		0856	4BTH-KE	0-4360	1,000		2,8+21			
236		SS	1V36	437,5237		1400	3CTH-KW		1,000		4,9+21			
236		ZIRC	4-30	558,6631		2019	3CTH-KW		1,000		6,4+21			
236	BNW-236	SS	4-40	115,4145		1740	2CTH-KW		1,000		1,3+21			
236	BNW-236	SS	4-41	97,3965		1200	3ATH-KW		1,000		5,5+20			
236	BNW-236	SS	4-42	57,3965		1200	3DTH-KW		1,000		5,5+20			
236	BNW-236-A	SS	4-38	174,4297		2312	3BTH-KW		1,000		1,9+21			
243	BNW-243	RE	0184	15,8027		0930	4CTH-KW		1,000		1,7+20			
243	BNW-243	RE	0185	15,8027		0930	4CTH-KW		1,000		1,7+20			
243	BNW-243	RE	0186	15,8027		0930	4CTH-KW		1,000		1,7+20			
243	BNW-243	RE	0190	15,8027		0930	4CTH-KW		1,000		1,7+20			
384	BNW-384	BORCAR	0005	194,5853		2312	3BTH-KW		1,000		2,1+21			
384	BNW-384	BORCAR	0006	194,5853		2312	3BTH-KW		1,000		2,1+21			
384	BNW-384	BORCAR	0003	201,1301		2113	3CTH-KE		1,000		2,2+21			

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IDENTIFICATION			CHARGE		LOCATION			EXPOSURE		DISCHARGE		SHIPPING		
TIR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.	OPERATING TIME (DAYS)	CMK ABSORBED	DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR	TO DATE NVT	DATE	TIME	DATE
177		GRAPH	ACA6	506, 4286		09-22-67	0608	3ATH-KE	0-2984	1.000	4.5+21	07-03-69	1353	
177		GRAPH	ACD2	508, 4286		09-22-67	0608	3ATH-KE	0-2977	1.000	4.5+21	07-03-69	1353	
177		GRAPH	ACD3	508, 4286		09-22-67	0608	3ATH-KE	0-2981	1.000	4.5+21	07-03-69	1353	
243		GRAPH	0178	205, 4133		10-24-68	1345	4CTH-KW		1.000	2.3+21	10-03-69	1020	
243	BNW-243	RE	0187	13, 7333		12-26-69	0930	4CTH-KW		1.000	1.5+20	01-16-70	1020	
243	BNW-243	RE	0188	13, 7333		12-26-69	0930	4CTH-KW		1.000	1.5+20	01-16-70	1020	
243	BNW-243	SS	0189	2, 0694		01-26-70	0920	4CTH-KW		1.000	2.3+19	01-28-70	1100	

THE FOLLOWING IDENTIFICATIONS ARE AWAITING DISPOSITION:

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IDENTIFICATION				OPERATING TIME (DAYS)	CMK ASSORBED	CHARGE			LOCATION			DISCHARGE		SHIPPING DATE
TSR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR	EXPOSURE TO DATE NVT	DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MON TH														
172	BNW-172	BIC	2304	0208		01-20-70	1050	2ATH-KW		1,000	1,8*17	01-20-70	1120	01-22-70
172	BNW-172	BIC	2305	0208		01-20-70	1050	2ATH-KW		1,000	1,8*17	01-20-70	1120	01-22-70
172	BNW-172	BIC	2306	0208		01-20-70	1050	2ATH-KW		1,000	1,8*17	01-20-70	1120	01-22-70
172	BNW-172	BIC	2307	0208		01-20-70	1050	2ATH-KW		1,000	1,8*17	01-20-70	1120	01-22-70
172	BNW-172	BIC	2308	0208		01-20-70	1050	2ATH-KW		1,000	1,8*17	01-20-70	1120	01-22-70
172	BNW-172	BIC	2309	0208		01-20-70	1125	2ATH-KW		1,000	1,8*17	01-20-70	1155	01-22-70
172	BNW-172	BIC	2310	0208		01-20-70	1125	2ATH-KW		1,000	1,8*17	01-20-70	1155	01-22-70
172	BNW-172	BIC	2311	0208		01-20-70	1125	2ATH-KW		1,000	1,8*17	01-20-70	1155	01-22-70
172	BNW-172	BIC	2312	0208		01-20-70	1125	2ATH-KW		1,000	1,8*17	01-20-70	1155	01-22-70
172	BNW-172	BIC	2313	0208		01-20-70	1125	2ATH-KW		1,000	1,8*17	01-20-70	1155	01-22-70
172	BNW-172	BIC	2314	0208		01-24-70	0905	2DTH-KE		1,000	1,8*17	01-24-70	0935	01-25-70
172	BNW-172	BIC	2315	0208		01-24-70	0905	2DTH-KE		1,000	1,8*17	01-24-70	0935	01-25-70
172	BNW-172	BIC	2316	0208		01-24-70	0905	2DTH-KE		1,000	1,8*17	01-24-70	0935	01-25-70
172	BNW-172	BIC	2317	0208		01-24-70	0905	2DTH-KE		1,000	1,8*17	01-24-70	0935	01-25-70
172	BNW-172	BIC	2318	0208		01-24-70	0905	2DTH-KE		1,000	1,8*17	01-24-70	0935	01-25-70
172	BNW-172	BIC	2319	0208		01-24-70	0905	2DTH-KE		1,000	1,8*17	01-24-70	0935	01-25-70
172	BNW-172	BIC	2320	0208		01-24-70	0905	2DTH-KE		1,000	1,8*17	01-24-70	0935	01-25-70
172	BNW-172	BIC	2321	0208		01-24-70	0953	2DTH-KE		1,000	1,8*17	01-24-70	1023	01-25-70
172	BNW-172	BIC	2322	0208		01-24-70	0953	2DTH-KE		1,000	1,8*17	01-24-70	1023	01-25-70
172	BNW-172	BIC	2323	0208		01-24-70	0953	2DTH-KE		1,000	1,8*17	01-24-70	1023	01-25-70
172	BNW-172	BIC	2324	0208		01-24-70	0953	2DTH-KE		1,000	1,8*17	01-24-70	1023	01-25-70
172	BNW-172	BIC	2325	0208		01-24-70	0953	2DTH-KE		1,000	1,8*17	01-24-70	1023	01-25-70
172	BNW-172	BIC	2326	0208		01-24-70	0953	2DTH-KE		1,000	1,8*17	01-24-70	1023	01-25-70
172	BNW-172	BIC	2327	0208		01-24-70	1045	2DTH-KE		1,000	1,8*17	01-24-70	1115	01-25-70
172	BNW-172	BIC	2328	0208		01-24-70	1045	2DTH-KE		1,000	1,8*17	01-24-70	1115	01-25-70
172	BNW-172	BIC	2329	0208		01-24-70	1045	2DTH-KE		1,000	1,8*17	01-24-70	1115	01-25-70
172	BNW-172	BIC	2330	0208		01-24-70	1045	2DTH-KE		1,000	1,8*17	01-24-70	1115	01-25-70
172	BNW-172	BIC	2331	0208		01-24-70	1045	2DTH-KE		1,000	1,8*17	01-24-70	1115	01-25-70
172	BNW-172	BIC	2332	0208		01-24-70	1045	2DTH-KE		1,000	1,8*17	01-24-70	1115	01-25-70
172	BNW-172	BIC	2333	0208		01-24-70	1135	2DTH-KE		1,000	1,8*17	01-24-70	1205	01-25-70
172	BNW-172	BIC	2334	0208		01-24-70	1135	2DTH-KE		1,000	1,8*17	01-24-70	1205	01-25-70
172	BNW-172	BIC	2335	0208		01-24-70	1135	2DTH-KE		1,000	1,8*17	01-24-70	1205	01-25-70
172	BNW-172	BIC	2336	0208		01-24-70	1135	2DTH-KE		1,000	1,8*17	01-24-70	1205	01-25-70
172	BNW-172	BIC	2337	0208		01-24-70	1135	2DTH-KE		1,000	1,8*17	01-24-70	1205	01-25-70
172	BNW-172	BIC	2338	0208		01-24-70	1135	2DTH-KE		1,000	1,8*17	01-24-70	1205	01-25-70
172	BNW-172	BIC	2341	0208		01-31-70	0935	2DTH-KE		1,000	1,8*17	01-31-70	1005	02-02-70
172	BNW-172	BIC	2342	0208		01-31-70	0935	2DTH-KE		1,000	1,8*17	01-31-70	1005	02-02-70
172	BNW-172	BIC	2343	0208		01-31-70	0935	2DTH-KE		1,000	1,8*17	01-31-70	1005	02-02-70

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IDENTIFICATION			OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION		EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TBR NO.	REQUEST NUMBER	MATERIAL			PIECE NO.	DATE	TIME	FACILITY		TEST HOLE POSITION	POSITION FACTOR	
THE FOLLOWING PREPARATIONS WERE SHIPPED DURING THE MDN TH												
172	BNN-172	BIC	2344	.0208	01-31-70	0935	2DTH-KE	1.000	1.8*17	01-31-70	1005	02-02-70
172	BNN-172	BIC	2345	.0208	01-31-70	0935	2DTH-KE	1.000	1.8*17	01-31-70	1005	02-02-70
172	BNN-172	BIC	2346	.0208	01-31-70	0905	2DTH-KE	1.000	1.8*17	01-31-70	1005	02-02-70
172	BNN-172	BIC	2347	.0208	01-31-70	1035	2DTH-KE	1.000	1.8*17	01-31-70	1105	02-02-70
172	BNN-172	BIC	2348	.0208	01-31-70	1035	2DTH-KE	1.000	1.8*17	01-31-70	1105	02-02-70
172	BNN-172	BIC	2349	.0208	01-31-70	1035	2DTH-KE	1.000	1.8*17	01-31-70	1105	02-02-70
172	BNN-172	BIC	2350	.0208	01-31-70	1035	2DTH-KE	1.000	1.8*17	01-31-70	1105	02-02-70
172	BNN-172	BIC	2351	.0208	01-31-70	1035	2DTH-KE	1.000	1.8*17	01-31-70	1105	02-02-70
172	BNN-172	BIC	2352	.0208	01-31-70	1035	2DTH-KE	1.000	1.8*17	01-31-70	1105	02-02-70
172	BNN-172	SEASLT	2296	1.0000	12-26-69	1330	4BTH-KW	1.000	7.8*17	12-27-69	1330	01-16-70
172	BNN-172	SEASLT	2297	1.0000	12-26-69	1330	4BTH-KW	1.000	1.1*18	12-27-69	1330	01-16-70
172	BNN-172	VAR	2298	1.0000	01-13-70	0935	4BTH-KW	1.000	7.8*17	01-14-70	0935	01-14-70
172	BNN-172	VAR	2299	1.0000	01-13-70	0935	4BTH-KW	1.000	1.1*18	01-14-70	0935	01-14-70
172	BNN-172	DUURSM	2300	.8437	01-14-70	1320	4BTH-KW	1.000	6.6*17	01-15-70	0935	01-19-70
172	BNN-172	GEQSEC	2301	.8437	01-14-70	1320	4BTH-KW	1.000	9.3*17	01-15-70	0935	01-19-70
172	BNN-172	VAR	2302	1.8333	01-15-70	1315	4BTH-KW	1.000	1.4*18	01-17-70	0915	01-20-70
172	BNN-172	VAR	2303	1.8333	01-15-70	1315	4BTH-KW	1.000	2.0*18	01-17-70	0915	01-20-70
172	BNN-172	PLASTC	2339	.7083	01-27-70	1530	4BTH-KW	1.000	5.5*17	01-28-70	0830	01-29-70
172	BNN-172	SEP	2340	.0868	01-29-70	0625	4BTH-KW	1.000	9.5*16	01-29-70	0830	01-30-70
184	BNN-184	VAR	3497	.8715	01-11-70	0950	2ATH-KW	1.000	7.4*18	01-12-70	0645	01-12-70
184	BNN-184	VAR	3498	.8715	01-11-70	0950	2ATH-KW	1.000	7.4*18	01-12-70	0645	01-12-70
184	BNN-184	VAR	3499	.8933	01-13-70	0910	2ATH-KW	1.000	1.5*18	01-14-70	0645	01-14-70
184	BNN-184	VAR	3500	.8933	01-13-70	0910	2ATH-KW	1.000	1.5*18	01-14-70	0645	01-14-70
184	BNN-184	VAR	3501	.8229	01-18-70	1100	2ATH-KW	1.000	7.0*18	01-19-70	0645	01-19-70
184	BNN-184	VAR	3502	.8229	01-18-70	1100	2ATH-KW	1.000	7.0*18	01-19-70	0645	01-19-70
184	BNN-184	VAR	3503	.8048	01-19-70	1100	2ATH-KW	1.000	6.8*18	01-20-70	0645	01-20-70
184	BNN-184	VAR	3504	.8048	01-19-70	1100	2ATH-KW	1.000	6.8*18	01-20-70	0645	01-20-70
184	BNN-184	VAR	3509	.8299	01-28-70	1050	2ATH-KW	1.000	1.4*18	01-29-70	0645	01-29-70
184	BNN-184	VAR	3492	.0007	01-02-70	0820	2DTH-KE	1.000	1.2*15	01-03-70	0821	01-02-70
184	BNN-184	VAR	3493	.9132	01-04-70	0850	2DTH-KE	1.000	7.7*18	01-05-70	0645	01-05-70
184	BNN-184	VAR	3495	.8933	01-06-70	0910	2DTH-KE	1.000	7.6*18	01-07-70	0645	01-08-70
184	BNN-184	VAR	3496	.8933	01-06-70	0910	2DTH-KE	1.000	7.6*18	01-07-70	0645	01-08-70
184	BNN-184	VAR	3505	.8507	01-25-70	1020	2DTH-KE	1.000	1.4*18	01-26-70	0645	01-26-70
184	BNN-184	VAR	3506	.8507	01-25-70	1020	2DTH-KE	1.000	1.4*18	01-26-70	0645	01-26-70
184	BNN-184	VAR	3507	.8646	01-27-70	1000	2DTH-KE	1.000	7.3*18	01-28-70	0645	01-28-70
184	BNN-184	VAR	3508	.8646	01-27-70	1000	2DTH-KE	1.000	7.3*18	01-28-70	0645	01-28-70
184	BNN-184	VAR	3510	.8264	01-27-70	1055	2DTH-KE	1.000	7.0*18	01-28-70	0645	01-30-70
184	BNN-184	VAR	3511	.8264	01-29-70	1055	2DTH-KE	1.000	7.0*18	01-30-70	0645	01-30-70

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IDENTIFICATION				CHARGE		LOCATION		DISCHARGE		SHIPPING				
TSR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.	OPERATING TIME (DAYS)	CMK ABSORBED	DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR	EXPOSURE TO DATE NVT	DATE	TIME	DATE
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MON TH														
184	BNN-184	PLASTIC	6730	0007		01-30-70	0934	2DTH-KE		1,000	5,3+14	01-30-70	0935	01-30-70
184	BNN-184	PLASTIC	6715	0014		01-14-70	1316	4BTH-KW		1,000	1,1+15	01-14-70	1318	01-14-70
184	BNN-184	PLASTIC	6716	0014		01-15-70	1313	4BTH-KW		1,000	1,1+15	01-15-70	1315	01-15-70
184	BNN-184	PLASTIC	6717	0014		01-20-70	1057	4BTH-KW		1,000	1,1+15	01-20-70	1059	01-20-70
184	BNN-184	PLASTIC	6718	0014		01-22-70	0857	4BTH-KW		1,000	1,1+15	01-22-70	0859	01-23-70
184	BNN-184	PLASTIC	6719	0014		01-22-70	0900	4BTH-KW		1,000	1,1+15	01-22-70	0902	01-23-70
184	BNN-184	PLASTIC	6720	0014		01-22-70	0903	4BTH-KW		1,000	1,1+15	01-22-70	0905	01-23-70
184	BNN-184	PLASTIC	6721	0014		01-22-70	0907	4BTH-KW		1,000	1,1+15	01-22-70	0909	01-23-70
184	BNN-184	PLASTIC	6722	0007		01-23-70	1021	4BTH-KW		1,000	5,4+14	01-23-70	1022	01-24-70
184	BNN-184	PLASTIC	6723	0007		01-23-70	1023	4BTH-KW		1,000	5,4+14	01-23-70	1024	01-24-70
184	BNN-184	PLASTIC	6724	0007		01-24-70	1150	4BTH-KW		1,000	7,7+14	01-24-70	1151	01-25-70
184	BNN-184	PLASTIC	6725	0007		01-26-70	1518	4BTH-KW		1,000	7,7+14	01-26-70	1519	01-26-70
184	BNN-184	PLASTIC	6726	0007		01-26-70	1520	4BTH-KW		1,000	7,7+14	01-26-70	1521	01-26-70
184	BNN-184	PLASTIC	6727	0007		01-27-70	1219	4BTH-KW		1,000	7,7+14	01-27-70	1220	01-28-70
184	BNN-184	PLASTIC	6728	0007		01-27-70	1230	4BTH-KW		1,000	7,7+14	01-27-70	1231	01-28-70
184	BNN-184	PLASTIC	6729	0007		01-29-70	0621	4BTH-KW		1,000	7,7+14	01-29-70	0622	01-29-70
184	BNN-184	PLASTIC	6731	0007		01-30-70	1257	4BTH-KW		1,000	7,7+14	01-30-70	1258	01-31-70
184	BNN-184	PLASTIC	6732	0007		01-30-70	1301	4BTH-KW		1,000	7,7+14	01-30-70	1302	01-31-70
184	BNN-184	PLASTIC	6733	0007		01-30-70	1304	4BTH-KW		1,000	7,7+14	01-30-70	1305	01-31-70
184	BNN-184	PLASTIC	6734	0007		01-31-70	1322	4BTH-KW		1,000	7,7+14	01-31-70	1323	01-31-70
184	BNN-184	PLASTIC	6735	0007		01-31-70	1325	4BTH-KW		1,000	7,7+14	01-31-70	1326	01-31-70
271	BNN-271	NA	0146	0417		01-19-70	0915	2ATH-KW		1,000	3,5+17	01-19-70	1015	01-23-70
271	BNN-271	DEPU	0147	2,8157		01-24-70	1059	2ATH-KW		1,000	2,4+19	01-27-70	0900	01-29-70
271	BNN-271	DEPU	0145	2,8090		01-02-70	1120	2DTH-KE		1,000	2,4+19	01-05-70	0645	01-12-70
391	BNN-391	UO-PL	0007	4,0177		01-14-70	0955	2BTH-KW		1,000	4,4+19	01-18-70	1620	01-20-70
394	BNN-394	PU-TIN	0002	3,3507		01-28-70	1520	2BTH-KW		1,000	3,7+19	01-31-70	2345	02-04-70
400	BNN-400	BIC	0062	0208		01-17-70	1217	2ATH-KW		1,000	1,8+17	01-17-70	1247	01-19-70
400	BNN-400	BIC	0063	0208		01-17-70	1301	2ATH-KW		1,000	1,8+17	01-17-70	1331	01-19-70
400	BNN-400	BIC	0064	0208		01-17-70	1301	2ATH-KW		1,000	1,8+17	01-17-70	1331	01-19-70
400	BNN-400	BIC	0065	0208		01-17-70	1301	2ATH-KW		1,000	1,8+17	01-17-70	1331	01-19-70
400	BNN-400	BIC	0066	0208		01-17-70	1301	2ATH-KW		1,000	1,8+17	01-17-70	1331	01-19-70
400	BNN-400	BIC	0067	0208		01-17-70	1301	2ATH-KW		1,000	1,8+17	01-17-70	1331	01-19-70
400	BNN-400	BIC	0068	0208		01-17-70	1301	2ATH-KW		1,000	1,8+17	01-17-70	1331	01-19-70
400	BNN-400	BIC	0073	0104		01-26-70	1303	2DTH-KE		1,000	8,8+16	01-26-70	1318	01-27-70
400	BNN-400	BIC	0074	0104		01-26-70	1303	2DTH-KE		1,000	8,8+16	01-26-70	1318	01-27-70
400	BNN-400	BIC	0075	0104		01-26-70	1303	2DTH-KE		1,000	8,8+16	01-26-70	1318	01-27-70
400	BNN-400	BIC	0076	0104		01-26-70	1303	2DTH-KE		1,000	8,8+16	01-26-70	1318	01-27-70
400	BNN-400	BIC	0077	0104		01-26-70	1303	2DTH-KE		1,000	8,8+16	01-26-70	1318	01-27-70

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IDENTIFICATION			CHARGE			LOCATION			DISCHARGE		SHIPPING			
TSR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.	OPERATING TIME (DAYS)	CMK ABSORBED	DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR	EXPOSURE TO DATE NVT	DATE	TIME	DATE
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
400	BNN-400	BIO	0078	0104		01-26-70	1303	2DTH-KE		1,000	8,8+16	01-26-70	1318	01-27-70
400	BNN-400	BIO	0079	0104		01-27-70	0837	2DTH-KE		1,000	8,8+16	01-27-70	0852	01-29-70
400	BNN-400	BIO	0080	0104		01-27-70	0837	2DTH-KE		1,000	8,8+16	01-27-70	0852	01-29-70
400	BNN-400	BIO	0081	0104		01-27-70	0837	2DTH-KE		1,000	8,8+16	01-27-70	0852	01-29-70
400	BNN-400	BIO	0082	0104		01-27-70	0837	2DTH-KE		1,000	8,8+16	01-27-70	0852	01-29-70
400	BNN-400	BIO	0083	0104		01-27-70	0837	2DTH-KE		1,000	8,8+16	01-27-70	0852	01-29-70
400	BNN-400	BIO	0084	0104		01-27-70	0837	2DTH-KE		1,000	8,8+16	01-27-70	0852	01-29-70
400	BNN-400	FILTER	0088	0104		01-28-70	0850	2DTH-KE		1,000	8,8+16	01-28-70	0905	01-30-70
400	BNN-400	FILTER	0089	0104		01-28-70	0850	2DTH-KE		1,000	8,8+16	01-28-70	0905	01-30-70
400	BNN-400	FILTER	0090	0104		01-28-70	0850	2DTH-KE		1,000	8,8+16	01-28-70	0905	01-30-70
400	BNN-400	FILTER	0091	0104		01-28-70	0850	2DTH-KE		1,000	8,8+16	01-28-70	0905	01-30-70
400	BNN-400	FILTER	0092	0104		01-28-70	0850	2DTH-KE		1,000	8,8+16	01-28-70	0905	01-30-70
400	BNN-400	FILTER	0093	0104		01-28-70	0850	2DTH-KE		1,000	8,8+16	01-28-70	0905	01-30-70
400	BNN-400	FILTER	0094	0104		01-28-70	0850	2DTH-KE		1,000	8,8+16	01-28-70	0905	01-30-70
400	BNN-400	TISSUE	0095	0208		01-31-70	1135	2DTH-KE		1,000	1,8+17	01-31-70	1205	02-02-70
400	BNN-400	TISSUE	0096	0208		01-31-70	1135	2DTH-KE		1,000	1,8+17	01-31-70	1205	02-02-70
400	BNN-400	TISSUE	0097	0208		01-31-70	1135	2DTH-KE		1,000	1,8+17	01-31-70	1205	02-02-70
400	BNN-400	TISSUE	0098	0208		01-31-70	1135	2DTH-KE		1,000	1,8+17	01-31-70	1205	02-02-70
400	BNN-400	TISSUE	0099	0208		01-31-70	1235	2DTH-KE		1,000	1,8+17	01-31-70	1305	02-02-70
400	BNN-400	TISSUE	0100	0208		01-31-70	1235	2DTH-KE		1,000	1,8+17	01-31-70	1305	02-02-70
400	BNN-400	TISSUE	0101	0208		01-31-70	1235	2DTH-KE		1,000	1,8+17	01-31-70	1305	02-02-70
400	BNN-400	TISSUE	0102	0208		01-31-70	1235	2DTH-KE		1,000	1,8+17	01-31-70	1305	02-02-70
400	BNN-400	TISSUE	0103	0208		01-31-70	1235	2DTH-KE		1,000	1,8+17	01-31-70	1305	02-02-70
400	BNN-400	WATER	0069	0208		01-19-70	0959	4BTH-KW		1,000	2,3+16	01-19-70	1029	01-21-70
400	BNN-400	WATER	0070	0208		01-19-70	1030	4BTH-KW		1,000	2,3+16	01-19-70	1100	01-21-70
400	BNN-400	WATER	0071	0208		01-19-70	1105	4BTH-KW		1,000	2,3+16	01-19-70	1135	01-21-70
400	BNN-400	SEA SALT	0072	0000		01-20-70	1100	4BTH-KW		1,000	7,8+17	01-21-70	1100	01-30-70
400	BNN-400	BIO	0085	0208		01-27-70	0904	4BTH-KW		1,000	1,6+16	01-27-70	0934	01-29-70
400	BNN-400	BIO	0086	0208		01-27-70	0934	4BTH-KW		1,000	1,6+16	01-27-70	1004	01-29-70
400	BNN-400	BIO	0087	0208		01-27-70	1005	4BTH-KW		1,000	1,6+17	01-27-70	1035	01-29-70
400	BNN-400	URINE	0104	0208		01-31-70	1328	4BTH-KW		1,000	9,7+15	01-31-70	1358	02-04-70
400	BNN-400	URINE	0105	0208		01-31-70	1359	4BTH-KW		1,000	9,7+15	01-31-70	1429	02-04-70
400	BNN-400	URINE	0106	0208		01-31-70	1430	4BTH-KW		1,000	9,7+15	01-31-70	1500	02-04-70
400	BNN-400	URINE	0107	0208		01-31-70	1504	4BTH-KW		1,000	9,7+15	01-31-70	1534	02-04-70
400	R00-400	BIO	0045	0208		01-17-70	1026	2ATH-KW		1,000	1,8+17	01-17-70	1056	01-19-70
400	R00-400	BIO	0046	0208		01-17-70	1026	2ATH-KW		1,000	1,8+17	01-17-70	1056	01-19-70
400	R00-400	BIO	0047	0208		01-17-70	1026	2ATH-KW		1,000	1,8+17	01-17-70	1056	01-19-70
400	R00-400	BIO	0048	0208		01-17-70	1026	2ATH-KW		1,000	1,8+17	01-17-70	1056	01-19-70

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IDENTIFICATION			CHARGE			LOCATION			DISCHARGE		SHIPPING			
TSR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.	OPERATING TIME (DAYS)	C M K ABSORBED	DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR	EXPOSURE TO DATE NVT	DATE	TIME	DATE
	THE FOLLOWING QUALIFICATIONS WERE SHIPPED DURING THE MON TH.													
400	R00-400	B10	0049	,0208		01-17-70	1026	2ATH-KW		1,000	1,8+17	01-17-70	1056	01-19-70
400	R00-400	B10	0050	,0208		01-17-70	1026	2ATH-KW		1,000	1,8+17	01-17-70	1056	01-19-70
400	R00-400	B10	0051	,0208		01-17-70	1130	2ATH-KW		1,000	1,8+17	01-17-70	1200	01-19-70
400	R00-400	B10	0052	,0208		01-17-70	1130	2ATH-KW		1,000	1,8+17	01-17-70	1200	01-19-70
400	R00-400	B10	0053	,0208		01-17-70	1130	2ATH-KW		1,000	1,8+17	01-17-70	1200	01-19-70
400	R00-400	B10	0054	,0208		01-17-70	1130	2ATH-KW		1,000	1,8+17	01-17-70	1200	01-19-70
400	R00-400	B10	0055	,0208		01-17-70	1130	2ATH-KW		1,000	1,8+17	01-17-70	1200	01-19-70
400	R00-400	B10	0056	,0208		01-17-70	1130	2ATH-KW		1,000	1,8+17	01-17-70	1200	01-19-70
400	R00-400	B10	0057	,0208		01-17-70	1217	2ATH-KW		1,000	1,8+17	01-17-70	1247	01-19-70
400	R00-400	B10	0058	,0208		01-17-70	1217	2ATH-KW		1,000	1,8+17	01-17-70	1247	01-19-70
400	R00-400	B10	0059	,0208		01-17-70	1217	2ATH-KW		1,000	1,8+17	01-17-70	1247	01-19-70
400	R00-400	B10	0060	,0208		01-17-70	1217	2ATH-KW		1,000	1,8+17	01-17-70	1247	01-19-70
400	R00-400	B10	0061	,0208		01-17-70	1217	2ATH-KW		1,000	1,8+17	01-17-70	1247	01-19-70
400	R00-400	WATER	0041	,0208		01-12-70	0941	4BTH-KW		1,000	2,3+16	01-12-70	1011	01-13-70
400	R00-400	WATER	0042	,0208		01-12-70	1012	4BTH-KW		1,000	2,3+16	01-12-70	1042	01-13-70
400	R00-400	B10	0043	,0208		01-12-70	1044	4BTH-KW		1,000	2,3+16	01-12-70	1114	01-14-70
400	R00-400	B10	0044	,0208		01-12-70	1044	4BTH-KW		1,000	1,6+16	01-12-70	1114	01-14-70

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