

MONTHLY AWAY-FROM-REACTOR SPENT FUEL STORAGE REPORT AFR PROGRAM

DECEMBER 1-31, 1980

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**U. S. Department of Energy
Savannah River Operations Office
Aiken, South Carolina 29801**

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ABSTRACT

The work breakdown structure (WBS) of the Away-From-Reactor spent fuel storage program (AFR) has the following major tasks:

- 11: Planning and Management
- 12: Facility Acquisition
- 13: Legislative Requirements
- 14: Technical Support
- 15: Transportation
- 16: International Activities

Each task has several subtasks or activities which are covered in this report. Section 1 is a summary of monthly activities and section 2 gives the objective and status of each active subtask and includes work and milestone charts.

A glossary of AFR acronyms is included.

SECTION I
SUMMARY OF MONTHLY ACTIVITIES

11: PLANNING AND MANGEMENT

The Facility Value Report, which is being prepared as a guide for making economic evaluations of potential AFR facility candidates, has been expanded to include a more comprehensive approach to the study. The draft is being prepared for interim review starting January 5.

In January, the Southern States Energy Board plans to issue the final draft of a report analyzing the socio-economic and institutional barriers to radioactive material transportation. Recommendations from a recent workshop attended by 60 government officials have been incorporated into the draft.

The FY 83 DOE Planning, Programming, and Budget System exercise was submitted on December 11.

A DOE briefing has been prepared for the South Carolina Committee for the Purpose of Official Consultation with the Federal Government Concerning the AFR Storage Facility for Spent Nuclear Fuel. A slide presentation has been compiled and an information booklet providing AFR background information will be distributed.

Sandia is preparing a second draft of the spent fuel film for DOE/HQ review at SNL in January. Videotape review versions have been sent to the five locations where filming was done.

12: FACILITY ACQUISITION

Meetings were held with General Electric and the Allied Chemical Corporation - General Atomic Company to discuss the availability of the Morris Operation (MO) and the Barnwell Nuclear Fuel Plant (BNFP) facilities for potential interim AFR spent fuel storage. A draft report of the meetings has been prepared.

Thermal hydraulic and seismic analyses were started for the newly designed high density storage system for Morris Operation.

13: LEGISLATIVE REQUIREMENTS

The preliminary working draft of the Near-Term AFR EIS has been completed. A meeting with representatives from all contributing organizations was held on December 1 through 3 to review the draft; substantial revisions of the draft were proposed, including the incorporation of the new AFR storage requirements.

The new AFR Near-Term EIS schedule calls for a draft to be made available to DOE/NE/SR on February 17, 1981, for review.

14: TECHNICAL SUPPORT

Equipment to be used in the cold demonstration of underwater disassembly is being received at Barnwell. The five dummy assemblies to be used in the demonstration have already been received.

A computer program to calculate distribution of temperature in cans containing compact arrays of fuel cooled by air has been developed by GE.

The Sandia report on generic physical protection requirements has been received.

Johns Hopkins University has completed sensitivity analyses of AFR locales, transportation route bandwidths, and DISFUL computer code cases.

Testing of a coupled neutronics thermal hydraulic code system for evaluating mechanisms for postulated criticality events involving LWR fuel assemblies is underway. Minor modifications to the code systems are being implemented.

15: TRANSPORTATION

The rail carrier workshop on radioactive material transportation has been rescheduled from February to May 12 and 13, 1981, in Columbus, Ohio.

The first issue of the TTC Newsletter has been delayed until DOE/HQ approval is obtained.

16: INTERNATIONAL ACTIVITY

The \$1.5 million FY 81 contract with Boeing Engineering Co. for support to Du Pont in the international program has been signed by both parties. Final approval by the DOE contract review panel is expected in January.

The Final Work Plan Document for the Pacific Basin Joint Feasibility Study has been submitted to the Japanese by the U.S. Both sides have agreed that a Work Guidance Document (WGD) containing work details should be prepared by the lead country for each individual task. Accordingly, the U.S. has submitted initial WGD's to Japan for comment. Both parties have also agreed to quarterly joint working group meetings beginning in February and alternating between Tokyo and Seattle/Washington, DC.

A coordinators' meeting of the Expert Group on International Spent Fuel Management (ISFM) was held in Vienna. The spent fuel cost evaluation report has been reviewed, and comments will be incorporated into the report. The U.S. has also agreed to prepare five papers on international cooperation and roles for Subgroup B of the ISFM.

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION SPENT FUEL STORAGE												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 1		
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE												5. CONTRACT START DATE 1 OCT 79				6. CONTRACT COMPLETION DATE 30 SEP 85		
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81		
9. COST STATUS																		
THOUSANDS 9000 8500 8000 7500 7000 6500 6000 5500 5000 4500 4000 3500 3000 2500 2000 1500 1000 500 0														10. COST PLAN DATE 14 JAN 81				
														11. PLANNED COSTS PRIOR FYS N/A				
12. B AND R NUMBERS ITM 39-RS0														12. ACTUAL COSTS PRIOR FYS N/A				
														13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 8266				
ACCURED COSTS		C) PLANNED		572	584	486	1273	529	432	411	342	346	306	291	228	5800		
		D) ACTUAL		570	428	685											1683	
		E) VARIANCE		2	156	-199												
		F) CUM. VARIANCE		2	158	-41												
REMARKS CONFLICT - FINANCIAL PLAN IS 5800 FY ESTIMATE IS 8266																		
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

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9. COST STATUS																		
THOUSANDS 9000 8500 8000 7500 7000 6500 6000 5500 5000 4500 4000 3500 3000 2500 2000 1500 1000 500 0														10. COST PLAN DATE 14 JAN 81				
														11. PLANNED COSTS PRIOR FYS N/A				
12. B AND R NUMBERS DOM AS0505														12. ACTUAL COSTS PRIOR FYS N/A				
														13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 7788				
ACCURED COSTS		C) PLANNED		572	534	573	544	533	541	580	522	539	551	590	597	6676		
		D) ACTUAL		464	523	557											1544	
		E) VARIANCE		108	11	16												
		F) CUM. VARIANCE		108	119	135												
REMARKS CONFLICT - FINANCIAL PLAN IS 6676 FY ESTIMATE IS 7788																		
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

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9. COST STATUS															
THOUSANDS 2250 2125 2000 1875 1750 1625 1500 1375 1250 1125 1000 875 750 625 500 375 250 125 0						10. COST PLAN DATE 13 JAN 81 11. PLANNED COSTS PRIOR FYS N/A 12. ACTUAL COSTS PRIOR FYS N/A 13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 2900 14. TOTAL CONTRACT VALUE N/A 15. UNFULFILLED ORDERS OUTSTANDING N/A 16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A									
17. ACCRUED COSTS C) PLANNED D) ACTUAL E) VARIANCE F) CUM. VARIANCE		177	170	263	165	169	170	177	167	169	170	175	178	2150	425
REMARKS CONFLICT - FINANCIAL PLAN IS 2150 FY ESTIMATE IS 2900															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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THOUSANDS 450 425 400 375 350 325 300 275 250 225 200 175 150 125 100 75 50 25 0						10. COST PLAN DATE 14 JAN 81 11. PLANNED COSTS PRIOR FYS N/A 12. ACTUAL COSTS PRIOR FYS N/A 13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 822 14. TOTAL CONTRACT VALUE N/A 15. UNFULFILLED ORDERS OUTSTANDING N/A 16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A										
17. ACCRUED COSTS C) PLANNED D) ACTUAL E) VARIANCE F) CUM. VARIANCE		10	10	25	25	25	25	25	25	25	25	30	30	30	285	51
REMARKS CONFLICT - FINANCIAL PLAN IS 285 FY ESTIMATE IS 822																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

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C1 PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0																																																										
D1 ACTUAL	1	-1	4										4																																																										
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F1 CUM. VARIANCE	-1	0	-4																																																																				
REMARKS																																																																							
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																																																													

FORM DOE 536
(1/78)
VPI MODIFICATION

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				6. CONTRACT COMPLETION DATE 30 SEP 89											
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81
9. COST STATUS															
THOUSANDS														G1 COST PLAN DATE 14 JAN 81	
														H1 PLANNED COSTS PRIOR FIS N/A	
B1 B AND R NUMBERS 1TM 39-ASO														I1 ACTUAL COSTS PRIOR FIS N/A	
														J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 3250	
														K1 TOTAL CONTRACT VALUE N/A	
														L1 UNFILLED ORDERS OUTSTANDING N/A	
														M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
ACCURED COSTS		C1 PLANNED	216	220	133	850	72	69	49	18	32	18	15	0	1692
		D1 ACTUAL	193	189	171										553
		E1 VARIANCE	23	31	-38										
		F1 CUM. VARIANCE	23	54	16										
REMARKS CONFLICT - FINANCIAL PLAN IS 1692 FY ESTIMATE IS 3250															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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9. COST STATUS															
THOUSANDS														G1 COST PLAN DATE 14 JAN 81	
														H1 PLANNED COSTS PRIOR FIS N/A	
B1 B AND R NUMBERS DOM AS0505														I1 ACTUAL COSTS PRIOR FIS N/A	
														J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 743	
														K1 TOTAL CONTRACT VALUE N/A	
														L1 UNFILLED ORDERS OUTSTANDING N/A	
														M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
ACCURED COSTS		C1 PLANNED	43	51	54	53	63	63	65	64	64	67	66	67	720
		D1 ACTUAL	37	62	49										148
		E1 VARIANCE	6	-11	5										
		F1 CUM. VARIANCE	6	-5	0										
REMARKS CONFLICT - FINANCIAL PLAN IS 720 FY ESTIMATE IS 743															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
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THOUSANDS 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0														10. COST PLAN DATE 14 JAN 81			
														11. PLANNED COSTS PRIOR FYS N/A			
														12. ACTUAL COSTS PRIOR FYS N/A			
														13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 767			
														14. TOTAL CONTRACT VALUE N/A			
15. UNFILLED ORDERS OUTSTANDING N/A		16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A															
17. ACCURED COSTS		C1 PLANNED		54	54	54	54	54	54	54	54	59	60	55	660	18. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
		D1 ACTUAL		39	40	28									107		
		E1 VARIANCE		15	14	26											
		F1 CUM. VARIANCE		15	29	55											
REMARKS CONFLICT - FINANCIAL PLAN IS 660 FY ESTIMATE IS 767																	
19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										20. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION LEGISLATIVE REQUIREMENTS										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 13				
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE										5. CONTRACT START DATE 1 OCT 79				6. CONTRACT COMPLETION DATE 30 APR 81				
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81		
9. COST STATUS																		
THOUSANDS 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0														10. COST PLAN DATE 14 JAN 81				
														11. PLANNED COSTS PRIOR FYS N/A				
														12. ACTUAL COSTS PRIOR FYS N/A				
														13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 150				
														14. TOTAL CONTRACT VALUE N/A				
15. UNFILLED ORDERS OUTSTANDING N/A		16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A																
17. ACCURED COSTS		C1 PLANNED		4	4	6	9	9	9	9	9	10	10	11	10	100	18. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
		D1 ACTUAL		3	4	8										15		
		E1 VARIANCE		1	0	-2												
		F1 CUM. VARIANCE		1	1	-1												
REMARKS CONFLICT - FINANCIAL PLAN IS 100 FY ESTIMATE IS 150																		
19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										20. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

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1. CONTRACT IDENTIFICATION TECHNICAL SUPPORT												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 14			
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE																5. CONTRACT START DATE 1 OCT 79			
																6. CONTRACT COMPLETION DATE 30 SEP 85			
7. MONTHS		O N D J F M A M J J A S														TOTALS		8. FY 81	
9. COST STATUS																			
A) THOUSANDS																G) COST PLAN DATE 14 JAN 81			
																H) PLANNED COSTS PRIOR FYS N/A			
B) B AND R NUMBERS ITM 39-ASO																I) ACTUAL COSTS PRIOR FYS N/A			
																J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 3427			
ACCURED COSTS		C) PLANNED														K) TOTAL CONTRACT VALUE N/A			
		D) ACTUAL														L) UNFILLED ORDERS OUTSTANDING N/A			
		E) VARIANCE														M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A			
		F) CUM. VARIANCE																	
REMARKS CONFLICT - FINANCIAL PLAN IS 3163 FY ESTIMATE IS 3427																			
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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9. COST STATUS																			
A) THOUSANDS																G) COST PLAN DATE 14 JAN 81			
																H) PLANNED COSTS PRIOR FYS N/A			
B) B AND R NUMBERS DOM ASO505																I) ACTUAL COSTS PRIOR FYS N/A			
																J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 2302			
ACCURED COSTS		C) PLANNED														K) TOTAL CONTRACT VALUE N/A			
		D) ACTUAL														L) UNFILLED ORDERS OUTSTANDING N/A			
		E) VARIANCE														M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A			
		F) CUM. VARIANCE																	
REMARKS CONFLICT - FINANCIAL PLAN IS 1402 FY ESTIMATE IS 2302																			
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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<table border="1"> <tr> <td rowspan="10"> THOUSANDS 450 425 400 375 350 325 300 275 250 225 200 175 150 125 100 75 50 25 0 </td> <td colspan="13"> </td> <td colspan="2"> G1 COST PLAN DATE 13 JAN 81 H1 PLANNED COSTS PRIOR FYS N/A I1 ACTUAL COSTS PRIOR FYS N/A J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 1120 K1 TOTAL CONTRACT VALUE N/A L1 UNFILLED ORDERS OUTSTANDING N/A M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A </td> </tr> <tr> <td colspan="14"> ACCURED COSTS C1 PLANNED 33 33 29 29 31 30 39 29 28 29 31 29 370 D1 ACTUAL 11 36 3 E1 VARIANCE 22 -3 26 F1 CUM. VARIANCE 22 19 45 </td> </tr> </table>														THOUSANDS 450 425 400 375 350 325 300 275 250 225 200 175 150 125 100 75 50 25 0														G1 COST PLAN DATE 13 JAN 81 H1 PLANNED COSTS PRIOR FYS N/A I1 ACTUAL COSTS PRIOR FYS N/A J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 1120 K1 TOTAL CONTRACT VALUE N/A L1 UNFILLED ORDERS OUTSTANDING N/A M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		ACCURED COSTS C1 PLANNED 33 33 29 29 31 30 39 29 28 29 31 29 370 D1 ACTUAL 11 36 3 E1 VARIANCE 22 -3 26 F1 CUM. VARIANCE 22 19 45													
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9. COST STATUS																																											
<table border="1"> <tr> <td rowspan="10"> THOUSANDS 45 43 40 38 35 33 30 28 25 23 20 18 15 13 10 8 5 3 0 </td> <td colspan="13"> </td> <td colspan="2"> G1 COST PLAN DATE 14 JAN 81 H1 PLANNED COSTS PRIOR FYS N/A I1 ACTUAL COSTS PRIOR FYS N/A J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 0 K1 TOTAL CONTRACT VALUE N/A L1 UNFILLED ORDERS OUTSTANDING N/A M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A </td> </tr> <tr> <td colspan="14"> ACCURED COSTS C1 PLANNED 0 0 0 0 0 0 0 0 0 0 0 0 0 D1 ACTUAL 0 0 0 E1 VARIANCE 0 0 0 F1 CUM. VARIANCE 0 0 0 </td> </tr> </table>														THOUSANDS 45 43 40 38 35 33 30 28 25 23 20 18 15 13 10 8 5 3 0														G1 COST PLAN DATE 14 JAN 81 H1 PLANNED COSTS PRIOR FYS N/A I1 ACTUAL COSTS PRIOR FYS N/A J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 0 K1 TOTAL CONTRACT VALUE N/A L1 UNFILLED ORDERS OUTSTANDING N/A M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		ACCURED COSTS C1 PLANNED 0 0 0 0 0 0 0 0 0 0 0 0 0 D1 ACTUAL 0 0 0 E1 VARIANCE 0 0 0 F1 CUM. VARIANCE 0 0 0													
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9. COST STATUS																		
THOUSANDS BI B AND R NUMBERS DOM AS0505														GI COST PLAN DATE 14 JAN 81				
														HI PLANNED COSTS PRIOR FYS N/A				
														IJ ACTUAL COSTS PRIOR FYS N/A				
														JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 800				
														KI TOTAL CONTRACT VALUE N/A				
ACCURED COSTS		CI PLANNED	48	48	55	55	59	60	64	69	73	79	101	109		820	LI UNFILLED ORDERS OUTSTANDING N/A	
		DI ACTUAL	43	34	103											180	MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
		EI VARIANCE	5	14	-48													
		FI CUM. VARIANCE	5	19	-29													
REMARKS CONFLICT - FINANCIAL PLAN IS 820 FY ESTIMATE IS 800																		
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

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9. COST STATUS																		
THOUSANDS BI B AND R NUMBERS FOR AS0510														GI COST PLAN DATE 13 JAN 81				
														HI PLANNED COSTS PRIOR FYS N/A				
														IJ ACTUAL COSTS PRIOR FYS N/A				
														JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 200				
														KI TOTAL CONTRACT VALUE N/A				
ACCURED COSTS		CI PLANNED	2	2	107	7	8	8	8	8	10	10	15	15		200	LI UNFILLED ORDERS OUTSTANDING N/A	
		DI ACTUAL	7	6	58											71	MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
		EI VARIANCE	-5	-4	49													
		FI CUM. VARIANCE	-5	-9	40													
REMARKS																		
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

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1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 16																																																																																																																																																																																																																																																																							
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED												5. CONTRACT START DATE 1 OCT 79				6. CONTRACT COMPLETION DATE CONTINUING																																																																																																																																																																																																																																																																							
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SECTION 2
PROGRAM STATUS

II: PLANNING AND MANAGEMENT

III: PLANNING

IIII: Facility Planning

OBJECTIVE

Provide planning required for evaluation and timely acquisition of spent fuel storage facilities (both existing and new) to meet the anticipated requirements for AFR spent fuel storage.

ACTIVITY STATUS

- .1 Storage Requirements. The draft annual report for update of the storage requirements was received for review (see 11212). Substantial revision of the document will be required before it is suitable for publication. As indicated earlier (July report), the storage requirements are lower than those previously estimated (DOE/NE-002). The reduced requirements are being incorporated into the draft near-term AFR EIS (see 1312).
- .2 Facility Evaluation and Selection. Unexpected delays in obtaining a contract with NUS Corp. will delay start of evaluation studies for the West Valley facility beyond January 1, 1981. The effect of this delay on the West Valley startup schedule will be determined.

[illegible]

1. MODIFICATION	2. REPORTING PERIOD	3. CONTRACT NUMBER
FACILITY PLANNING	01 DEC 81 THROUGH 31 DEC 81	1111.
4. CONTRACTOR (NAME AND ADDRESS)	5. CONTRACT START DATE	6. CONTRACT COMPLETION DATE
SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA	1 APR 79	CONTINUING
7. MONTHS	8. FY	9. COST STATUS
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10. GRAPH	11. COST PLAN DATE	12. COST PLAN VALUE
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13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE	14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE	

III: PLANNING

III.2: Program/Budget Planning and Management

OBJECTIVE

Provide a plan to: implement the AFR Spent Fuel Storage Program, manage funding allocated to the program, and direct technical effort to achieve the program goals.

ACTIVITY STATUS

- .2 Budget Reports. Field summary estimates in support of the Spent Fuel FY 83 DOE Planning, Programming and Budget System (PPBS) exercise were submitted on December 11. These estimates were based on existing funding levels for FY 81 and FY 82 and current program assumptions for outyears FY 83-87.
- .3 Steering. The Draft Spent Fuel Storage and Disposal Contract between DOE and Fuel Owner (DPSP-AFR-80-8-18) is circulating for internal review.

The monthly AFR Program Review was held in Germantown, MD on December 10 and 11. The next review is scheduled for the second week in February at Germantown.

A DOE briefing has been prepared for a South Carolina committee for the purpose of official consultation with the Federal Government concerning an AFR storage facility for spent nuclear fuel. The briefing, to be held on January 22, 1981, will be in the form of a slide presentation. An information booklet will also be provided for background material.

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III: PLANNING

1113: Business Services

OBJECTIVE

Develop economic criteria and determine economic value of potential acquisition candidates. Provide planning and services required for commercial business office aspects of the AFR program.

ACTIVITY STATUS

- .1 Facility Value. The preliminary draft of the Facility Value Report was reviewed by the internal task force assigned to assist with specific aspects of the study. Several meetings with financial consultants resulted in a more comprehensive approach to the study. The draft report was expanded and is being typed for internal review.

[illegible]

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

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111: PLANNING

1114: Contract Services Support

OBJECTIVE

Provide contract services for the AFR program.

ACTIVITY STATUS

- .1 Contract Services. Supplement agreement No. 2 for subcontract AX-493592R for Technical Support Services by Boeing Engineering and Construction Company (BEC) for FY 1981 was signed by BEC on December 19, 1980. The subcontract was transmitted to DOE-SR on December 23, 1980 for execution.

A new subcontract AX-522031 with NUS Corporation was submitted for approval on December 23, 1980. This subcontract is for Technical Support Services by NUS for a twelve (12) month period from contract award date at a cost of approximately \$225,000. The subcontract will provide Technical Support Services related to the potential acquisition and use of the Western New York Nuclear Service Center (WNYNSC) at West Valley, NY.

General Electric (GE) submitted a proposal for Technical Support Services for a proposed task entitled, "Operations Systems Analysis". The AFR Spent Fuel Storage Program is expected to involve the integrated operation of a number of licensed storage facilities. Development of an integrated operations system is planned to assure efficient management of information, material and monies during implementation of the AFR Storage Program. The system will utilize a "Central Business Office" (CBO) to handle agreement between DOE, the utilities, manage the flow of funds and coordinate the operation of the storage facilities. In this GE will review the applicable practices and procedure systems now used at the GE Morris Operation and will provide the basis for defining the interface activities required for the integrated system under development. This new task will be authorized by a supplement to the current GE subcontract AX-511721R.

A proposed agreement was submitted to DOE-SR stipulating that all existing subcontracts executed by Du Pont in support of the AFR Program be transferred to DOE-SR. Subcontracts still in the negotiation phase will be executed by Du Pont and then transferred to DOE for administration and management. The AFR Group will provide technical support and assistance to DOE in the management of the subcontracts.

FORM DOE 536
(1/78)
VPI MODIFICATION

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

23

112: PLANNING SUPPORT

1121: Storage Studies

11212: Storage Logistics

OBJECTIVE

Develop and maintain a computer code which will calculate AFR storage requirements. This code should calculate spent fuel discharges, analyze onsite storage capacities, and determine the amount of fuel to be shipped to a potential AFR. It should calculate storage requirements for a wide range of scenarios and parameters, such as operating efficiency, pool expansions, and utility plans for maintaining full core reserve, etc. The code should contain a data base with reactor and pool data for all operating and planned domestic power reactors. Update this data base periodically with information obtained from utilities. The code should calculate the number of fuel casks needed in any given year to transport the spent fuel.

ACTIVITY STATUS

- .2.3 Revised Logistics Report. A draft of a spent fuel storage requirements and logistics report based on the updated 1980 data base has been delivered to DOE/SR for review.
- .3.1 Incorporating Transportation Logistics Mode. A complete transportation library for incorporation into the DISFUL computer code has been generated and DISFUL runs for the storage logistics report utilized this capability. Work in editing and displaying the transportation routes and in documenting the model. is proceeding.
- .3.2 Uncommitted Reactor Discharges. Work on including currently uncommitted reactors in the DISFUL code has been completed. The uncommitted reactors were included to account for the difference between the nuclear capacity of existing and planned reactors and EIA projected future nuclear capacity. EIA projections for low, mid, and high nuclear growth are available nationwide and by NERC region. On option, either of these projections can be included in the DISFUL code.
- .3.10 Provide AFR/EIS Drafts. Drafts for the AFR/EIS sections on AFR storage requirements have been developed and submitted to Argonne for review.

On the basis of the new 1980 data base, it has been decided to develop revised AFR/EIS drafts using the updated storage requirements. To expedite this effort, the transportation unit risk factors are being programmed into DISFUL to provide transportation impacts on an automated basis.
- .3.13 Update Data Base. The DISFUL data base has been updated and made available to DOE/SR. All runs and analyses are currently being conducted using the updated data base.

[illegible]

1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD		3. CONTRACT NUMBER	
STORAGE LOGISTICS		01 DEC 81 THROUGH 31 DEC 81		11212.	
4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE		6. CONTRACT COMPLETION DATE	
S. M. STOLLER CORP. NEW YORK NEW YORK		20 JUN 78		CONTINUING	
7. MONTHS		8. FY		9. COST STATUS	
O N D J F M A M J J A S		TOTALS		81	
10. COST PLAN DATE		11. PLANNED COSTS PRIOR FY'S		12. ACTUAL COSTS PRIOR FY'S	
14 JAN 81		N/A		N/A	
13. TOTAL ESTIMATE FY COSTS FOR CONTRACT		14. TOTAL CONTRACT VALUE		15. UNFILLED ORDERS OUTSTANDING	
313		N/A		N/A	
16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		17. REMARKS		18. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE	
N/A		CONFLICT - FINANCIAL PLAN IS 88 FY ESTIMATE IS 313		19. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE	

112: PLANNING SUPPORT

1122: Economic Assistance

OBJECTIVE

Perform economic studies to assist in program planning.

ACTIVITY STATUS

- .4 Facility Value. The report of the task force on facility evaluation was reviewed and changes to the economic section were suggested. Revisions were completed for the December 30 publication date. A supplementary report, to include information on appraised facility values and value to rate payers which was not available for the December report, may be required.

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
MILESTONE SCHEDULE AND STATUS REPORT

PAGE 1 OF 1

1. CONTRACT IDENTIFICATION		ECONOMIC ASSISTANCE		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1122.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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112: PLANNING SUPPORT

1123: Licensing Studies

11231: Licensing Support

OBJECTIVE

Provide assistance by preparing components required for operating licenses for AFR facilities on a schedule consistent with the overall program schedule.

ACTIVITY STATUS

- .1 AFR Licensing Studies. A second meeting was held with NRC to discuss remaining questions from the list previously transmitted to NRC [September report].
- .2 AFR Licensing Schedules. The Savannah River Laboratory Editing Group is processing the licensing schedule report into a final DP report.
- .4 Review of Regulations. The 10 CFR 72 companion report, Analysis of Comments on 10 CFR 72 (NUREG-0587) was received. Review of 10 CFR 72 was started.

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1. CONTRACT IDENTIFICATION		LICENSING SUPPORT		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 11231														
4. CONTRACTOR (NAME, ADDRESS)		SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA		5. CONTRACT START DATE 1 APRIL 79		6. CONT. COMPLETION DATE INDEFINITE														
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												10. PERCENT COMPLETE						
		FY 1980												FY 1981						
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11. REMARKS																				
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE										

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CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION		LICENSING SUPPORT		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 11231											
4. CONTRACTOR (NAME AND ADDRESS)		SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA		5. CONTRACT START DATE 1 APR 79		6. CONTRACT COMPLETION DATE CONTINUING											
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY	81
9. COST STATUS																	
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														H1 PLANNED COSTS PRIOR FY5 N/A			
ALL														I1 ACTUAL COSTS PRIOR FY5 N/A			
														J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 50			
ACCURED COSTS														K1 TOTAL CONTRACT VALUE N/A			
														L1 UNFILLED ORDERS OUTSTANDING N/A			
		C1 PLANNED	4	4	4	4	4	4	4	4	4	5	5	50		M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
		D1 ACTUAL	3	3	0									6			
		E1 VARIANCE	1	1	4												
		F1 CUM. VARIANCE	1	2	6												
REMARKS																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

112: PLANNING SUPPORT

1124: General Support

11241: General Assistance

OBJECTIVE

The first major effort is to provide general technical assistance to DOE, including:

- Economic and technical reviews of facility design, operating, and decommissioning plans
- General assistance with physical security system design, nuclear material control and accountability systems, structural analysis, criticality, and shielding
- Identification of potential licensing questions pertaining to safety, safeguards, environmental effects, and economic issues
- Assistance with licensing matters as requested by DOE.

The second major effort is the identification of public concerns relating to construction and operation of AFR storage facilities.

ACTIVITY STATUS

- .1 General Assistance. All work is complete.
- .2 Identification of Public Concerns. Preparation of a draft final report continued.

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31

113: FEE

1131: Fee Methodology

OBJECTIVE

Evaluate current fee collection mechanisms for economic feasibility; revise them if necessary. Review current methodology used to calculate cash flow. Also, provide a computer program to give projected annual and cumulative cash flow data for various input parameters and guidelines. Periodically update the fee calculations.

ACTIVITY STATUS

- .6 Draft Topical Report. Work on a draft of the methodology description section of the Topical Report continues.

1. CONTRACT IDENTIFICATION		PML-FEE METHOD												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 1131 .																	
4. CONTRACTOR (NAME, ADDRESS)		BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON												5. CONTRACT START DATE 15 FEBRUARY 80				6. CONT. COMPLETION DATE INDEFINITE																	
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												FY 1980			FY 1981												FY 1982			83	84	85	10. PERCENT COMPLETE
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2	PREPARE FINAL REPORT																								0										
3	PREPARE FEE CALCULAT																								100										
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8	ANNUAL FEE CALCULATI																								0										
11. REMARKS																																			
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																							

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1. CONTRACT IDENTIFICATION				PNL-FEE METHOD										2. REPORTING PERIOD				01 DEC 81				THROUGH				31 DEC 81				3. CONTRACT NUMBER				1131.																																																					
4. CONTRACTOR NAME AND ADDRESS																		BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON																		ALL FUNDING																		5. CONTRACT START DATE				15 FEB 80																													
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113: FEE

1132: Fee Update

OBJECTIVE

Continue development and revision of a spent fuel storage and disposal fee. The update is necessary due to changes in timing and in the research and development program. Update the fee annually.

ACTIVITY STATUS

- .2 Draft Fee Report. No change in status. Further work awaits the revised storage requirements, the effect on the number of facilities, facility acquisition values, timing, and updated costs.

115: PROGRAM MANAGEMENT

115l: Information Systems

OBJECTIVE

Provide information services for the AFR program.

ACTIVITY STATUS

- .3 Information Services. The following documents were published.
- DPSP-AFR-80-1-11, Monthly Away-From-Reactor Spent Fuel Storage Report, DOE/SR-SF-2005-11.
 - DPSP-AFR-80-3-113, Memo on Distribution of Reports and Contract Deliverables.
 - DPSP-AFR-80-3-114, Memo updating Monthly Report Schedule and Procedure for the AFR Spent Fuel Program.

Assistance was given in the preparation of an information booklet to be distributed at the Briefing for the South Carolina Committee for the Purpose of Official Consultation with the Federal Government Concerning an Away-From-Reactor Storage Facility for Spent Nuclear Fuel to be given by the SR Operation Office on January 22. A slide presentation was also prepared for the briefing.

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1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1151																				
4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA		5. CONTRACT START DATE 1 OCTOBER 79		6. CONT. COMPLETION DATE INDEFINITE																				
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												10. PERCENT COMPLETE										
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1	SPENT FUEL FILM INTE																							
2	PUBLISH DOCUMENT PLA																							
3	DEVELOP INFORMATION																							
4	PROVIDE INFORMATION																							
11. REMARKS																								
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE												

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115: PROGRAM MANAGEMENT

1152: Management Systems

OBJECTIVE

Develop and maintain a computer based management system for the AFR program. Provide Uniform Contractor Reporting System (UCRS) forms, and customized monthly reports. Remote access to the data base system will allow management personnel realtime access to the available information.

ACTIVITY STATUS

- .2 Develop and Operate Management Information System. The monthly reporting cycle using contractor's input was accomplished. A computer program to generate work breakdown structure graphics was completed.
- .4 Program Planning and Reporting. SR approval of the draft program plan is still required.

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115: PROGRAM MANAGEMENT

1153: Spent Fuel Film

OBJECTIVE

Produce a public information film which describes commercial reactor spent fuel. Explain how spent fuel is handled, transported, and stored, and what safety, security, regulatory, and licensing procedures are followed. Include footage of actual spent fuel shipments, handling, and storage. Prepare the script jointly with Sandia responsible for transportation aspects and DuPont responsible for handling and storage. Sandia will arrange production and filming.

ACTIVITY STATUS

- .2 Final Interlock Version. A second draft of the spent fuel film (interlock version) will be ready for review by DOE/HQ personnel at SNL in January. Videotape review copies were sent to the following locations where filming was done: GE, Morris, IL; Commonwealth Edison, Zion, IL; CP&L, Brunswick, NC; FP&L, Turkey Point, FL; PSC of CO, Ft. St. Vrain, CO.

A videotape version will also be sent to SR for review.

Aerial views of the 3 AFR's will be incorporated into the film. A search for historical footage of spent fuel handling is underway.

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1. CONTRACT IDENTIFICATION SANDIA FILM										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										3. CONTRACT NUMBER 1153.																					
4. CONTRACTOR (NAME AND ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO																				5. CONTRACT START DATE 1 OCT 79																					
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117: PUBLIC AND GOVERNMENTAL RELATIONS

1172: Institutional Transport Impediments

OBJECTIVES

Evaluate and resolve institutional impediments to radioactive materials transportation in the southeastern states. Tasks include:

- Review and analysis of state and regional radioactive materials transportation plans to identify and resolve socio-economic and institutional barriers.
- Evaluation and development of regional methodologies for reporting and monitoring transport of radioactive materials.
- Evaluation and promotion of compatible state plans for dealing with transportation accidents involving radioactive materials in the southeastern States.

Because of national impact, each task will be coordinated by DOE/SR and TTC at Sandia Laboratories.

ACTIVITY STATUS

- .1 Barriers to Radioactive Material Transport. The preliminary draft report of Project 1 - Socioeconomic and Institutional Barriers - has been revised to incorporate workshop recommendations and it will be ready for distribution as a final draft report in January 1981.
- .4 Program Management and Workshops. The Proceedings report of the RMT Workshop held last month in Atlanta was completed and distributed to workshop participants and DOE project management.

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MILESTONE SCHEDULE AND STATUS REPORT

1. CONTRACT IDENTIFICATION		INSTITUTIONAL TRANSPORT IMPEDIMENTS												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 1172																															
4. CONTRACTOR (NAME, ADDRESS)		SOUTHERN STATES ENERGY BOARD ATLANTA GEORGIA												5. CONTRACT START DATE 26 SEPTEMBER 79				6. CONTRACT COMPLETION DATE 25 DECEMBER 81																															
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12: FACILITY ACQUISITION

121: MORRIS ACQUISITION

1212: Prelicensing Activities -- Morris

OBJECTIVE

Ensure timely completion of work related to Morris operation and necessary for submittal of a license application for DOE ownership and operation as an AFR spent fuel facility. Provide licensing and design effort for expansion of storage capability by construction of new pools.

ACTIVITY STATUS

- .1 License Application. Changes to the Morris licensing documentation necessitated by 10 CFR 72 (effective December 12 1980) have been prepared in draft form and are being reviewed within GE. Redrafting and final changing are in progress. In addition to incorporating new requirements in the licensing documentation, certain other areas (e.g., design criteria) were augmented to clarify compliance with 10 CFR 72.
- .2.1 Design High Density Storage System. Preliminary designs for the basin 1, basin 2, and add-on basin high density basket-grid systems are nearing completion. Seismic stress analyses are in progress and thermal hydraulic analyses are being initiated for the various basket-grid systems. With the completion of these studies, the preliminary designs will be modified as required.
- .2.2 Design Cask Handling Station. Design of the cask handling station is approximately 70% completed. It includes a total of 48 drawings (30 of the cask decontamination and preparation areas, 14 structural, 2 piping, and 2 heating-ventilation). Of these, 20 have been revised after internal review, 21 are undergoing internal review, 4 are in preparation and 3 are not yet started.
- .2.3 Basin Wall Support Studies. Independent verification analyses are being made to determine that the basin wall support design is capable of withstanding design basis seismic events.
- .2.4 Design Wet Storage Radwaste Treatment Facility. An internal review of the new LAW vault evaporator design has been completed and the drawings are being revised.

Discussions will be held with Hitman Associates personnel during January on the methods they would propose for "service contract" solidification and removal of the waste stored in the LAW vault from the site.

.2.5 Evaluate Cask Handling. Preparation of procedures for the handling of the NLI-1/2, TN-8/TN-9, and NLI-10/24 casks at Morris Operation continued. The NLI-1/2 and TN-8/TN-9 procedures will be completed early in January 1981 with the NLI-10/24 procedures lagging slightly behind due to a later start and identification of a MO facility space limitation. It has been determined that the NLI 10/24 cask and transport vehicle will physically fit into the cask receiving area, however, space is extremely tight when the vehicle personnel barrier (clamshell) is in the open position.

Equipment requirements for the smaller truck casks have been identified and are considered to be minimal with the exception of the lifting yokes. Some redesign and modification of existing yokes is required to simplify operation and to adapt them to the MO crane system.

Preparation of the topical report covering this task has been initiated.

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122: BARNWELL ACQUISITION

1222: Prelicensing Activities -- Barnwell

OBJECTIVE

Furnish design and licensing information for converting a nuclear fuel reprocessing plant's fuel receiving and storage facility to an AFR spent fuel storage facility using the BNFP as a model.

ACTIVITY STATUS

- .01 Licensing Documentation. Draft Environmental Report was forwarded to DOE for review. Work continues on the preparation of the Safety Analysis Report.
- .02 Facility Modification. Draft of final report was submitted to DOE this period. Final soils report due from Bechtel Corporation in early January. Approval to proceed with additional seismic work for the movable racks was granted by DOE.
- .03 High-Density Fuel Storage Rack. Work is proceeding on the movable rack design and floor mounting details. Completion of this effort is anticipated toward the end of February. Approval of funding for completion of the movable rack/disassembled fuel storage concept was received from DOE this period.
- .04 Security System. All documents under review by AGNS and DOE. Final report for this sub-task is being drafted.

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1. CONTRACT IDENTIFICATION		PRELICENSING ACTIVITIES - BARNWELL												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 1222.	
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129: ACQUISITION SUPPORT

1291: Acquisition Management

OBJECTIVE

Provide the coordination and management necessary for the acquisition of existing and proposed storage facilities by DOE.

ACTIVITY STATUS

- .1 Acquisition Management. An interagency agreement has been executed between the department of Energy (DOE) and the U. S. Army Corps of Engineers whereby the Corps of Engineers will obtain independent appraisals of three separate properties (Allied General Nuclear Services, Barnwell Nuclear Fuel Plant (BNFP), Barnwell, S. C.; General Electric, Midwest Fuel Recovery Plant - Morris Operation (MO), Morris, Il.; and Nuclear Fuels Services, Western New York Nuclear Service Center (WNYNSC), West Valley, N.Y.). The appraisals will include mapping, legal description and title evidence together with a current appraisal monetary value. Facility and site descriptions, slides and site maps of BNFP, MO and WNYNSC were prepared for DOE-SFPO as part of a briefing information package for the Corps of Engineers. Meetings were conducted with owners representatives of the BNFP and MO on December 3 and 4, respectively. The objectives of the meetings were - 1) to commence discussions regarding the availability of the facilities for purchase, lease or otherwise, and 2) to obtain from the facility owners information necessary to prepare a report to Congress. During the discussions the owners of the BNFP and MO facilities indicated a willingness to sell their facilities to the Government. A draft report on the meetings has been prepared.

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1. CONTRACT IDENTIFICATION		ACQUISITION MANAGEMENT		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1291.	
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CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION		ACQUISITION MANAGEMENT		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1291.	
4. CONTRACTOR (NAME AND ADDRESS)		SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA		5. CONTRACT START DATE 1 SEP 80		6. CONTRACT COMPLETION DATE CONTINUING	
7. MONTHS		0 N D J F M A M J J A S		TOTALS		8. FY 81	
9. COST STATUS							
A) THOUSANDS		900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0		B) B AND R NUMBERS		C) COST PLAN DATE 13 JAN 81	
ALL						D) PLANNED COSTS PRIOR FYS N/A	
						E) ACTUAL COSTS PRIOR FYS N/A	
						F) TOTAL ESTIMATE FY COSTS FOR CONTRACT 720	
						G) TOTAL CONTRACT VALUE N/A	
						H) UNFULFILLED ORDERS OUTSTANDING N/A	
						I) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
ACCURED COSTS		C) PLANNED D) ACTUAL E) VARIANCE F) CUM. VARIANCE		43 51 54 53 63 63 65 64 64 67 66 67 720 35 48 49 8 3 5 8 11 16		132	
REMARKS							
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE				14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

13: LEGISLATIVE REQUIREMENTS

131: NEPA ACTIVITIES

1312: AFR Environmental Impact Statement (ANL)

OBJECTIVE

Assume overall responsibility for preparing and issuing the AFR-EIS. Include studies on the environmental impacts of wet storage of spent fuel in new and existing facilities, and studies on the institutional and socio-economic aspects of spent fuel storage.

ACTIVITY STATUS

- .4 Complete Draft of Near-Term AFR EIS. Internal ANL review of the preliminary working draft was completed. A meeting with representatives of all contributing organizations was held on December 1-3 to review the draft. Subsequently, it was concluded that substantial revisions should be made, including incorporation of new information concerning AFR storage requirements. Responses to the Notice of Intent may be the basis for some modifications to the draft. A new schedule for preparation of a draft for DOE/HQ review has not yet been agreed upon.

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
MILESTONE SCHEDULE AND STATUS REPORT

1. CONTRACT IDENTIFICATION ANL - EIS		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1312																			
4. CONTRACTOR (NAME, ADDRESS) ARGONNE NATIONAL LABORATORY				5. CONTRACT START DATE 1 OCTOBER 79																			
				6. CONT. COMPLETION DATE 1 MAY 84																			
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												10. PERCENT COMPLETE									
		FY 1980				FY 1981				FY 1982													
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
1	INITIATE AFR-EIS																						100
2	INCLUDE FINAL SITE R																						100
3	NOI - NEAR TERM																						100
4	COMPLT DRAFT OF NR-TA																						50
5	NOTICE OF DEIS AND M																						0
6	PUBLIC COMMENT																						0
7	CDR LST HANG & CMPLT																						0
8	NOTICE OF AVAILABILI																						0
9	NOTICE OF INTENT - L																						0
10	RECORD OF DECISION -																						0
11	DRAFT - LT FEIS																						0
12	PRINT DRAFT LT FEIS																						0
13	PRINT FINAL LT FEIS																						0
14	NOTICE OF AVAILABILI																						0
11. REMARKS																							
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE											

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION ANL - EIS		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1312													
4. CONTRACTOR (NAME AND ADDRESS) ARGONNE NATIONAL LABORATORY				5. CONTRACT START DATE 1 OCT 79													
				6. CONTRACT COMPLETION DATE 1 MAY 84													
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY	81
9. COST STATUS																	
THOUSANDS														10. COST PLAN DATE 13 JAN 81			
														11. PLANNED COSTS PRIOR FTS N/A			
ALL														12. ACTUAL COSTS PRIOR FTS N/A			
														13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 370			
														14. TOTAL CONTRACT VALUE N/A			
														15. UNFILLED ORDERS OUTSTANDING N/A			
ACCURED COSTS		C1 PLANNED	30	30	30	30	30	30	30	30	35	35	30	370			
		D1 ACTUAL	19	20	20									59			
		E1 VARIANCE	11	10	10												
		F1 CUR. VARIANCE	11	21	31												
16. REMARKS																	
17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE																	
18. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																	

131: NEPA ACTIVITIES

1313: AFR-EIS Assistance to ANL (ORNL)

OBJECTIVE

Perform the following support tasks:

- Study and develop dry storage for spent fuel stored in new facilities.
- Develop technical criteria for new facility siting study.
- Study existing government facilities to determine their potential as spent fuel storage sites.
- Determine the capacity and licensability of WNYNSE as an AFR.

ACTIVITY STATUS

- .1 Inputs to ANL for the AFR EIS. A preliminary draft of the Near Term AFR EIS was reviewed and comments were submitted at meetings at ANL, at DOE/SR. The engineering effort on the technical feasibility study for NFS was completed. The study on the licensing requirements for NFS was delayed due to the inclusion of the implications of the final version of 10 CFR 72. A report on the licensing requirements for the West Valley facility will be completed in January 1981.
- .2 Provide Additional Input and Revisions. Work on the Planning Guide for the NEPA process has been delayed due to the late issuance of the final version of the 10 CFR 72. The effects of the latest regulations on the licensing process was examined and a new schedule was developed. Consideration is being given to shortening the schedule. The report will be sent to ORNL in January 1981.

ORNL has submitted plans for conducting public hearings in connection with the AFR program. Further development of these plans, as requested by DOE/SR, is underway.

[illegible]

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

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132: CONGRESSIONAL ACTIVITIES

1321: Reports to Congress

OBJECTIVE

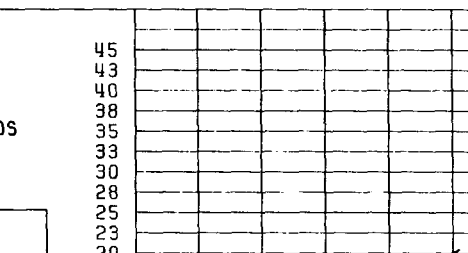
Conduct studies and provide three reports on spent fuel storage suitable for submission to Congress, elected officials, and the public:

- Identify potential spent fuel storage sites and needs in the first report.
- Report on storage fee and calculation method in the second report.
- Finally, identify potential sites after taking into account comments from public hearings, discuss spent fuel ownership, and recommend methods and costs of acquisition.

ACTIVITY STATUS

.3 Final Report. No activity required.

[illegible]

1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD		3. CONTRACT NUMBER	
REPORTS TO CONGRESS		01 DEC 81 THROUGH 31 DEC 81		1321.	
4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE		6. CONTRACT COMPLETION DATE	
SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA		1 JUN 79		31 JAN 82	
7. MONTHS		ALL FUNDING		TOTALS	
0 N O J F M A M J J A S				8. FY 81	
9. COST STATUS					
A) 					
G) COST PLAN DATE					
13 JAN 81					
H) PLANNED COSTS PRIOR FY5					
N/A					
I) ACTUAL COSTS PRIOR FY5					
N/A					
J) TOTAL ESTIMATE FY COSTS FOR CONTRACT					
50					
K) TOTAL CONTRACT VALUE					
N/A					
L) UNFILLED ORDER OUTSTANDING					
N/A					
M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD					
N/A					
10. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE					
11. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE					

14: TECHNICAL SUPPORT

141: SAFETY AND ENVIRONMENTAL TECHNOLOGY

1411: Criticality Analysis in a Storage Array

OBJECTIVE

Evaluate the progression, consequences, and eventual shutdown mechanism for postulated criticality events involving spent LWR fuel assemblies constrained in storage racks. Analyze criticality events including neutronics, heat transfer, and hydraulics, and predict conditions which stabilize or disassemble fuel configurations.

ACTIVITY STATUS

- .2 Develop Computational Models. Testing of the coupled neutronics thermal hydraulics code system for evaluating mechanisms for postulated criticality events is underway. Minor modifications are being implemented.

Testing and debugging of the coupled codes is to be completed. Maximum reactivity increases associated with hypothesized accidents will be calculated for the new AFR fuel storage rack designs. Transient analysis of postulated accidents will then commence.

The underspent condition is due to unscheduled vacation time and diversion of effort to another task. The underspending will be corrected in January.

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

59

141: SAFETY AND ENVIRONMENTAL TECHNOLOGY

1413: Spent Fuel and Pool Component Integrity

OBJECTIVE

Establish corrosion and metallurgical condition of nuclear fuel and fuel components after extended underwater storage. Results will provide insights to fuel and pool equipment behavior and will benefit licensing and operating fuel storage pools. Develop information for test fuel storage at GE-Morris, including special design requirements, licensing and regulatory considerations, and costs.

ACTIVITY STATUS

- .1 Project Management. Three papers for the NACE Symposium, "Materials Behavior in Spent Fuel Pools," were cleared and sent to NACE.
- .2 International Activities. An update to the International Program Plan is being supplied to the Boeing Company

Revisions to the World Survey of Spent Fuel Storage Experience report are being incorporated into the report based on comments from a review at the November Las Vegas Spent Fuel Storage Meeting.

- .3 Spent Fuel Acquisition and Examination. The FY 80 Shippingport fuel examination was completed on schedule. Additional tensile tests on Zircaloy cladding will establish a baseline for possible future tests on the Shippingport fuel. The D-ring tensile test device has been prepared and is being checked out on unirradiated Zircaloy tubing prior to the tests on irradiated cladding. Plans are underway to select rods from Connecticut Yankee assemblies HO7 and G11 for insertion into DOE surveillance assembly S004.
- .4 Spent Fuel Pool Component Exams. Specimens from a Zion reactor (PWR) stainless steel spent fuel storage rack arrived at PNL for examination. Specimens from the RBOF (Savannah River) and LaCrosse (BWR) pools are expected in the near future.
- .5 Corrosion Mechanism Studies. Static load stress corrosion cracking (SCC) experiments on furnace sensitized type 304 SS have been started. Initial tests will establish appropriate stress levels for determining SCC susceptibility. An environment of air-saturated water with 13,000 wt ppm H_3BO_4 + 15 ppm Cl^- was selected to coincide with experimental results on samples removed from a welded pipe-elbow section of the Three Mile Island Unit No 1 Spent Fuel Pool system. The presence of 15 ppm

Cl⁻ was found to be necessary to induce intergranular SCC under constant extension rate test conditions. These results have also indicated that crack initiation may be a major limiting step in reproducing the service failure in the laboratory. Therefore, compact tension specimens with a fatigue precrack to bypass crack initiation will also be tested.

Experiments to correlate heat treatment and bulk carbon composition to the degree of sensitization are continuing. Final surface cleaning treatments are complete for the furnace-sensitized type 304 SS bend and crevice corrosion specimens. These specimens will be tested in both deionized water and boric acid solutions, several with chloride additions.

The simulated pool chambers have been assembled and are at operating temperature. The majority of the test coupons are scheduled to be installed by the end of January. The remaining coupons, Al, zircaloy, and welded specimens are scheduled for February installation.

- .6 Spent Fuel Storage Assessment. Contract negotiations with the General Electric Company continued.
- .7 Spent Fuel Shipping Assessment. Battelle Columbus Laboratories has prepared a Phase I proposal which is being sent to Savannah River for evaluation. Funding transfer to BCL has been initiated so that work can begin as soon as concurrence on the work scope is reached.

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U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
MILESTONE SCHEDULE AND STATUS REPORT

1. CONTRACT IDENTIFICATION		SPENT FUEL & POOL COMPONENT INTEGRITY												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 1413	
4. CONTRACTOR (NAME, ADDRESS)		BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON												5. CONTRACT START DATE 1 OCTOBER 78				6. CONT. COMPLETION DATE INDEFINITE	
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												10. PERCENT COMPLETE					
		FY 1980: 1 2 3 4 0 N D J F M A M J J A S FY 1981: 1 2 3 4 FY 1982: 1 2 3 4 83 84 85																	
1	PROJECT MANAGEMENT	[REDACTED]												0					
2	INTERNATIONAL ACTIVI	[REDACTED]												0					
3	SPENT FUEL ACQUISTIO	[REDACTED]												0					
4	FUEL POOL COMPONENT	[REDACTED]												0					
5	CORROSION MECHANISM	[REDACTED]												0					
6	STORAGE ASSESSMENT	[REDACTED]												0					
7	SHIPPING ASSESSMENT	[REDACTED]												0					
11. REMARKS																			
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION		SPENT FUEL & POOL COMPONENT INTEGRITY												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 1413	
4. CONTRACTOR (NAME AND ADDRESS)		BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON												5. CONTRACT START DATE 1 OCT 78				6. CONTRACT COMPLETION DATE CONTINUING	
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81			
9. COST STATUS																			
THOUSANDS ALL	900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0	[COST STATUS GRAPH]												10. COST PLAN DATE 13 JAN 81					
														11. PLANNED COSTS PRIOR FYS N/A					
														12. ACTUAL COSTS PRIOR FYS N/A					
														13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 740					
														14. TOTAL CONTRACT VALUE N/A					
														15. UNFULFILLED ORDERS OUTSTANDING N/A					
														16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A					
ACCURED COSTS		C1 PLANNED	69	69	56	55	59	55	89	51	46	48	56	47	700				
		D1 ACTUAL	81	15	85										181				
		E1 VARIANCE	-12	54	-29														
		F1 CUM. VARIANCE	-12	42	13														
17. REMARKS CONFLICT - FINANCIAL PLAN IS 700 FY ESTIMATE IS 740																			
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

142: DISASSEMBLY AND ROD STORAGE

1421: Underwater Disassembly

OBJECTIVE

Develop equipment for underwater disassembly of fuel rod bundles. Evaluate related safety, environmental, safeguard, and accountability issues. Perform all steps necessary prior to demonstrating the disassembly of irradiated fuel assemblies.

ACTIVITY STATUS

- .1 Prototype System Design. Advanced Fluid Systems has been selected as the vendor for the hydraulic motor system. DOE approved the purchase order and delivery is expected in January. The cutoff saw and shroud are being modified to incorporate the new motor drive.
- .2 Safety Evaluation Report. DOE's response to the draft report is expected during January.
- .3 Safeguards. AGNS' response to the draft report is expected in January.
- .4 Environmental Report. A draft was prepared and internally reviewed. The draft will be transmitted to DOE for review in January.
- .5 Fabrication. Fabrication of the fuel disassembly and rod storage equipment is in progress at Offshore Power Systems (OPS). The fabrication completion date for all of the equipment is mid-January. Some equipment has already been shipped to AGNS for use in the cold demonstration. Visits to OPS continue for fabrication witness points, final subassembly inspections, resolution of Drawing Change Requests and Quality Deviation Reports, and resolution of schedule problems. Other system components and subassemblies are being obtained from various suppliers and fabricators.
- .6 Demonstration. Facility preparation at the AGNS Barnwell Facility is on schedule. The false flooring in the fuel receiving and storage station pool is ready for installation. Various pool modification details and interface requirements are being resolved as required. Five dummy fuel assemblies from Babcock and Wilcox were received at Barnwell. All of the dummy fuel assemblies have now been received. The fuel disassembly and rod storage equipment fabricated by Offshore Power Systems under Task 5 of this program is starting to arrive at Barnwell; delivery should continue through January. AGNS estimates that visitors and observers for the cold demonstration should be limited to groups of about 10 people.

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1. CONTRACT IDENTIFICATION UNDERWATER DISASSEMBLY		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1421.																					
4. CONTRACTOR (NAME, ADDRESS) NUCLEAR ASSURANCE CORP. ATLANTA GEORGIA				5. CONTRACT START DATE 1 MAY 79																					
				6. CONTRACT COMPLETION DATE 30 SEPTEMBER 82																					
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												10. PERCENT COMPLETE											
		FY 1980				FY 1981				FY 1982															
		1	2	3	4	O	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4	83	84	85	
1	PROTOTYPE DESIGN																								90
2	SAFETY ANALYSIS																								90
3	SNM ACCOUNTING																								98
4	ENVIRONMENTAL ANALYSIS																								50
5	EQUIPMENT PROCUREMENT																								65
6	DEMONSTRATION TESTS																								10
7	ECONOMIC STUDIES																								0
8	PROJECT REP DISASSEM																								0
9	W/ COMMT, PREP FOR M																								0
10	HOT DEMONSTRATION																								0
11. REMARKS																									
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE													13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE												

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1. CONTRACT IDENTIFICATION UNDERWATER DISASSEMBLY		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1421.											
4. CONTRACTOR (NAME AND ADDRESS) NUCLEAR ASSURANCE CORP. ATLANTA GEORGIA				5. CONTRACT START DATE 1 MAY 79											
				6. CONTRACT COMPLETION DATE 30 SEP 82											
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81
9. COST STATUS															
THOUSANDS		G1 COST PLAN DATE 13 JAN 81												H1 PLANNED COSTS PRIOR FYS N/A	
		I1 ACTUAL COSTS PRIOR FYS N/A												J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 506	
ALL		K1 TOTAL CONTRACT VALUE N/A												L1 UNFULFILLED ORDERS OUTSTANDING N/A	
		M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A													
ACCURED COSTS		C1 PLANNED	83	86	67	129	71	28	24	9	9	0	0	0	506
		D1 ACTUAL	80	37	64										181
		E1 VARIANCE	3	49	3										
		F1 CUM. VARIANCE	3	52	55										
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE															
14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE															

142: DISASSEMBLY AND ROD STORAGE

1422: Dry Disassembly

OBJECTIVE

Install, remotely test, and demonstrate equipment for dry cell disassembly of fuel bundles and transfer of reconfigured compact array of rods. Prototypic equipment will be available for disassembly of irradiated fuel bundles at the conclusion of the program.

ACTIVITY STATUS

- .1 Equipment/Procedure Preparation. A review of control system cost based on detailed design indicated a cost increase of almost 10% over the preliminary estimate. The cost increase is being processed as an addendum to the existing procurement contract for the control system with Ridihaigh, Eggers and Associates, Inc. (REA). Control panel layout and initial programming and terminal assignments for the programmable controller are in progress.

A procedure program has been outlined and the equipment list has been revised. A fabrication of approximately 35% of the mechanical equipment is complete. Fabrication of the remaining mechanical equipment is progressing satisfactorily with no change in schedule.

- .3 Process Assessment Studies. General Atomic continued with work to define the physical state of spent fuel and its ability to safely undergo disassembly/encapsulation handling. Preliminary results are expected within the next two months. The work is being performed under a consulting agreement and will be used for the final process assessment report.

Studies to assess the practicality of alternate handling operations for in-line examination of fuel pins are continuing. Studies of nondestructive analysis disassembled fuel pins to improve material accountancy and fuel burnup data are progressing satisfactorily.

The original studies on disassembly of nonstandard fuel have been completed. However, selected methods are being developed further to support the final process assessment report. REA is assisting in this effort.

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1. CONTRACT IDENTIFICATION DRY DISASSEMBLY		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1422																				
4. CONTRACTOR (NAME, ADDRESS) ALLIED GENERAL NUCLEAR SERVICES BARNWELL SOUTH CAROLINA		5. CONTRACT START DATE 17 APRIL 80		6. CONTRACT COMPLETION DATE 31 DECEMBER 83																				
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												10. PERCENT COMPLETE										
		FY 1980				FY 1981								FY 1982		83	84	85						
		1	2	3	4	O	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4			
1	EQUIPMENT PROCUREMENT																							
2	DISASSEMBLY PROCEDUR																							
3	DISASSEMBLY AND CRAN																							
4	PROCESS ASSESSMENT S																							
5	FINAL REPORT FOR COL																							
6	HOT DEMONSTRATIONS A																							
11. REMARKS																								
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE												

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1. CONTRACT IDENTIFICATION DRY DISASSEMBLY		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1422												
4. CONTRACTOR (NAME AND ADDRESS) ALLIED GENERAL NUCLEAR SERVICES BARNWELL SOUTH CAROLINA		5. CONTRACT START DATE 17 APR 80		6. CONTRACT COMPLETION DATE 31 DEC 83												
7. MONTHS	O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY	81	
9. COST STATUS																
A1														G1 COST PLAN DATE 13 JAN 81		
THOUSANDS														H1 PLANNED COSTS PRIOR FY5 N/A		
B1 B AND A NUMBERS														I1 ACTUAL COSTS PRIOR FY5 N/A		
ALL														J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 1488		
														K1 TOTAL CONTRACT VALUE N/A		
														L1 UNFILLED ORDERS OUTSTANDING N/A		
														M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
ACCURED COSTS		C1 PLANNED	120	120	120	120	120	121	121	121	121	121	121	1447		
		D1 ACTUAL	157	172	215									544		
		E1 VARIANCE	-37	-52	-95											
		F1 CUM. VARIANCE	-37	-89	-184											
REMARKS																
CONFLICT - FINANCIAL PLAN IS 1447 FY ESTIMATE IS 1488																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE				

142: DISASSEMBLY AND ROD STORAGE

1423: Fuel Rod Criticality

OBJECTIVE

Establish critical configurations of fuel rod clusters to simulate LWR-type fuel elements in close proximity water storage. Report data from these configurations in sufficient detail to benchmark analytical techniques for design of spent fuel storage racks.

ACTIVITY STATUS

- .5 Measurements. During December the fourth of five experimental cores was assembled and loaded into the critical facility. Core IV contains a 5 x 5 array of modules with intermodule spacing of 0.7 in. Each module contains a 15 x 15 in. array of touching fuel pins on a square pitch.

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1. CONTRACT IDENTIFICATION ROD CRITICALITY		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1423.													
4. CONTRACTOR (NAME, ADDRESS) BABCOCK AND WILCOX CO. LYNCHBURG VIRGINIA		5. CONTRACT START DATE 1 JUNE 77		6. CONTRACT COMPLETION DATE 30 SEPTEMBER 81													
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												10. PERCENT COMPLETE			
		<div style="display: flex; justify-content: space-between;"> FY 1980 FY 1981 FY 1982 </div> <div style="display: flex; justify-content: space-between;"> 83 84 85 </div>															
1	TASK 1 PHASE 1 PRE-E																100
2	TASK 1 -PHASE 2 EXPE																100
3	TASK 1 PHASE 3--ANAL																100
4	TASK 2 PHASE 2 PREPA																90
5	TASK 2 PHASE 2 MEA																70
6	TASK 2 PHASE 3 ANALY																0
7	PIN STORATE CRITICAL																0
11. REMARKS																	
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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1. CONTRACT IDENTIFICATION ROD CRITICALITY		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1423.													
4. CONTRACTOR (NAME AND ADDRESS) BABCOCK AND WILCOX CO. LYNCHBURG VIRGINIA		5. CONTRACT START DATE 1 JUN 77		6. CONTRACT COMPLETION DATE 30 SEP 81													
7. MONTHS		O N D J F M A M J J A S												TOTALS	8. FY	81	
9. COST STATUS																	
A. THOUSANDS														G. COST PLAN DATE 14 JAN 81			
B. ALL														H. PLANNED COSTS PRIOR FY'S N/A			
														I. ACTUAL COSTS PRIOR FY'S N/A			
														J. TOTAL ESTIMATE FY COSTS FOR CONTRACT 187			
														K. TOTAL CONTRACT VALUE N/A			
														L. UNFILLED ORDERS OUTSTANDING N/A			
C. PLANNED		15	15	15	15	15	16	16	16	16	16	16	16	187	M. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD 72		
D. ACTUAL		31	23	18													
E. VARIANCE		-16	-8	-3													
F. CUM. VARIANCE		-16	-24	-27													
REMARKS																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

144: STORAGE ALTERNATIVES

1443: Conceptual Dry Storage -- Morris

OBJECTIVE

Develop the conceptual design of an integrated system for dry storage of spent fuel in the Morris Canyon.

ACTIVITY STATUS

- .1 Fuel Preparation Cell. Additional cell arrangement information on the AGNS fuel disassembly system is being evaluated for application to the Morris cells. More detailed information on individual system components is required and has been requested.

The Morris facility was visited to determine the present status of various mechanical equipment and to verify that some of the approaches being studied are compatible with the actual physical system.

- .2 Fuel Storage Cells. Additional preliminary information has been received from PNL on calculated fuel cladding temperatures of whole fuel bundles stored in air. The data on a 17 x 17 in. PWR bundle are being compared to earlier GE calculations.

The recently developed computer program for calculating fuel cladding temperatures reached in air storage of spent fuel rods is now in use. Parametric studies involving various canister spacing, fuel burnup, and decay times are being initiated.

Alternative fuel support systems are being studied for use in the storage cell. Primary considerations are fuel handling ease, seismic support, and minimum airflow restriction. A secondary consideration is the flexibility to support various canister types in any location.

- .3 Ventilation Cooling System. Development of the basic ventilation concept continues. Much of the work is dependent on results of the storage cell parametric heat transfer studies and therefore cannot proceed at full speed until the parametric studies are completed.

[illegible]

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1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD										3. CONTRACT NUMBER																																																																																																		
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4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE										6. CONTRACT COMPLETION DATE																																																																																																		
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9. COST STATUS																																																																																																														
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CI PLANNED	32	30	41	66	73	80	86	71	71	59	51	10		670																																																																																																
CI ACTUAL	0	0	66											66																																																																																																
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14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																																																																																																														

145: OPERATIONS DATA AND ASSESSMENT

1453: Morris Test Program

OBJECTIVE

Conduct tests at GE-Morris to characterize the behavior of spent LWR fuel in water pools.

ACTIVITY STATUS

- .2 Gaseous Radionuclide Release. The draft report on the tests performed to determine tritium released to the environment in exhaust gases from the Morris basin is approximately 80% completed.

Samples of Morris off-gas are currently being analyzed for krypton content at Argonne National Laboratory.

- .3 Radiation Levels. Fabrication of the test chamber continued. The lower support fixture, diving bell, and lifting tools are about 90% complete. The radiation detection mast is finished. The level detection and air pressure system drawings were developed and assembly has been initiated.

The detailed procedures for checkout, calibration, and other dry functional testing are being drafted.

The radiation detection probe was found to be incompatible with existing plant instrumentation planned for use in the tests. Efforts to expedite delivery of a replacement instrument in time for use during initial tests (planned for February) are underway.

- .4 Heat Generation Rates. Detailed design of the test chamber for the measurement of spent fuel decay heat has been initiated.

[illegible]

1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD		3. CONTRACT NUMBER	
MORRIS TEST PROGRAM		01 DEC 81 THROUGH 31 DEC 81		1453.	
4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE		6. CONTRACT COMPLETION DATE	
GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA		1 FEB 79		31 JAN 82	
7. MONTHS		8. FY		9. TOTALS	
O N D J F M A M J J A S		81			
10. COST STATUS		11. ALL FUNDING			
12. THOUSANDS		13. B AND A NUMBERS		14. ALL	
15. ACCUMULATED COSTS		16. CONTRACT IDENTIFICATION		17. REPORTING PERIOD	
18. CONTRACTOR'S PROJECT MANAGER AND DATE		19. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

146: GENERIC STUDIES

1463: Site Selection Method

OBJECTIVE

Develop a method for selection of AFR sites for the eastern U.S. using the following basic criteria:

- Minimization of ton-miles for lowest costs and
- Minimization of people-ton-miles for lowest exposure.

ACTIVITY STATUS

- .1 Develop Site Selection Method. The site selection model is fully integrated and tested. Sensitivity analyses of AFR locales, transportation environment zones, and DISFUL outputs were completed.

[illegible]

1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD		3. CONTRACT NUMBER	
SITE SELECTION METHOD		01 DEC 81 THROUGH 31 DEC 81		1463.	
4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE		6. CONTRACT COMPLETION DATE	
JOHNS HOPKINS UNIVERSITY BALTIMORE MARYLAND		1 OCT 79		28 FEB 81	
7. MONTHS		ALL FUNDING		TOTALS	
0 N D J F M A M J J A S				8. FY 81	
8. COST STATUS					
<div> <div> <div>THOUSANDS</div> <div>ALL</div> </div> <div> <div>90</div> <div>85</div> <div>80</div> <div>75</div> <div>70</div> <div>65</div> <div>60</div> <div>55</div> <div>50</div> <div>45</div> <div>40</div> <div>35</div> <div>30</div> <div>25</div> <div>20</div> <div>15</div> <div>10</div> <div>5</div> <div>0</div> </div> <div> </div> </div>					
<div> <div>9. COST PLAN DATE</div> <div>13 JAN 81</div> </div> <div> <div>10. PLANNED COSTS PRIOR FY</div> <div>N/A</div> </div> <div> <div>11. ACTUAL COSTS PRIOR FY</div> <div>N/A</div> </div> <div> <div>12. TOTAL ESTIMATE FY COSTS FOR CONTRACT</div> <div>74</div> </div> <div> <div>13. TOTAL CONTRACT VALUE</div> <div>N/A</div> </div> <div> <div>14. UNFILLED ORDERS OUTSTANDING</div> <div>N/A</div> </div> <div> <div>15. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD</div> <div>N/A</div> </div>					
ACCURED COSTS		C/ PLANNED		81	
		D/ ACTUAL		0	
		E/ VARIANCE			
		F/ CUM. VARIANCE			
REMARKS					
CONFLICT - FINANCIAL PLAN IS 81 FY ESTIMATE IS 74					
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE			14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE		

147: SAFEGUARDS

1471: Physical Protection Requirements

OBJECTIVE

Address major technical problems related to the protection and monitoring of spent fuel storage facilities. Design and analytically evaluate integrated safeguards systems and related test equipment in laboratory and operational environments to ensure adequate performance and compatability. Perform an analysis to determine possible sabotage events in spent fuel pools; verify results with a series of tests. Design an integrated control and safeguards system to perform the following tasks:

- Confirm reported movements and operations.
- Detect unreported movements and operations.
- Provide continuous record of status, location, and inventory.
- Maintain tamper-indicating and self-checking ability.
- Provide technical assistance during the construction and checkout of selected spent fuel storage facilities.
- Transfer this technology by appropriate reports and consultations.

ACTIVITY STATUS

- .1 Sabotage Analysis. The Sandia report on generic physical protection requirements and systems has been received.

As part of their program to evaluate physical protection systems at specific AFR sites, Sandia is developing a highway interdiction code. This code will model highway routes around an AFR with surveillance and checkpoint designation, deployment times for a number of law enforcement agencies, and the optimum blockade and interdiction tactics. A measure of effectiveness will be identified to evaluate alternate response tactics.

FORM DOE 536
(1/78)
VPI MODIFICATION

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147: SAFEGUARDS

1472: Accountability Systems

OBJECTIVE

Define specific materials management control problems and identify possible solutions for an AFR facility.

ACTIVITY STATUS

- .2 Inventory and Control Systems. A second series of NDA measurements on spent fuel stored at the Morris facility has been planned in conjunction with GE personnel. The measurements are tentatively scheduled to start in February and continue for about two weeks.

The analysis of plutonium content as calculated from power reactor data vs. values measured during reprocessing continues to show a 2-5% high bias and a 1σ uncertainty of $\pm 5\%$ for PWR data and $\pm 10\%$ for BWR data. These calculations will be incorporated in a cost-benefit study of various NDA options.

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147: SAFEGUARDS

1473: Safeguards and Nonproliferation Support

OBJECTIVE

Provide safeguards and nonproliferation information in support of the AFR program.
Include the following:

- Safeguard analysis of AFR facilities.
- Identification of safeguard-related modifications to existing AFR facilities.
- Development, testing, and evaluation of nonproliferation procedures and equipment.
- Development of a generic hierarchy of theft and sabotage incident/risk relationships.
- Provide relevant information as required for authorization of AFR operation.

ACTIVITY STATUS

- .1 Technical Support. The generic physical protection report from Sandia has been reviewed. A review of safeguards programs at the GE Morris facility, with special emphasis on the relicensing program, is underway.

[illegible]

1. CONTRACT IDENTIFICATION	2. REPORTING PERIOD	3. CONTRACT NUMBER													
SAFEGUARDS AND NONPROLIFERATION SUPPORT	01 DEC 81 THROUGH 31 DEC 81	1473.													
4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE													
SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA		1 MAY 79													
ALL FUNDING		6. CONTRACT COMPLETION DATE													
		30 SEP 81													
7. MONTHS	0 N D J F M A M J J A S												TOTALS	8. FY	81
9. COST STATUS															
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<div> <div>13 JAN 81</div> <div>N/A</div> <div>N/A</div> <div>50</div> <div>N/A</div> <div>N/A</div> </div>															
<div> <div>ACCURED COSTS</div> <div> <div>C1 PLANNED</div> <div>D1 ACTUAL</div> <div>E1 VARIANCE</div> <div>F1 CUM. VARIANCE</div> </div> <div> <div>4</div> <div>7</div> <div>-2</div> <div>-2</div> </div> <div> <div>4</div> <div>0</div> <div>-3</div> <div>-5</div> </div> <div> <div>4</div> <div>4</div> <div>4</div> <div>4</div> </div> <div> <div>4</div> <div>4</div> <div>4</div> <div>4</div> </div> <div> <div>4</div> <div>4</div> <div>4</div> <div>4</div> </div> <div> <div>5</div> <div>5</div> <div>5</div> <div>5</div> </div> <div> <div>50</div> <div>13</div> </div> </div>															
17. REMARKS															
18. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE															
19. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE															

15: TRANSPORTATION

151: TRANSPORT INDUSTRY PROGRAMS

1511: Industry Survey

OBJECTIVE

Determine and document private industry's willingness and capability to provide the requisite design, manufacture, testing, licensing operation, and maintenance services for spent fuel transportation systems.

ACTIVITY STATUS

- .3 Information Assessment and Documentation. The support data generated by Teledyne Energy Systems during the industry survey were examined during an informal audit on December 2, and it was determined that the data would support TES in their survey findings. These findings will be presented in a draft report due at the TTC in December but delayed to January 15, 1981 because of holiday manpower shortages at Teledyne.

FORM DOE 536
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VPI MODIFICATION

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

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151: TRANSPORT NEEDS AND CAPABILITY

1512: Carrier Workshops

OBJECTIVE

Conduct workshops to convey directly to prospective highway, rail, and water carriers the nature, volume, and timing of projected spent fuel shipments. Obtain from carriers their technical, operational, and logistics requirements, and input to program planning and systems design. Establish communications procedures and focal points to facilitate dialogue that maintains up-to-date information.

ACTIVITY STATUS

- .1 Conduct Carrier Workshops. Representatives of the TTC, DOE/ALO, DOE/HQ, BCL, American Association of Railroads, Southern Railroad, and Conrail attended a meeting on December 11 to plan for the Railroad Carrier Workshop which has been rescheduled from February 1981 to May 12 through 13, 1981, at the request of the AAR.
- .2 Publish Transcripts. A draft of the water carrier workshop transcrip which was due in December was delayed until January due to holiday manpower shortages at Battelle Columbus Labs.

[illegible]

1. CONTRACT IDENTIFICATION	2. REPORTING PERIOD	3. CONTRACT NUMBER
CARRIER WORKSHOPS	01 DEC 81 THROUGH 31 DEC 81	1512.
4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE
SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO		1 OCT 79
ALL FUNDING		6. CONTRACT COMPLETION DATE
		30 JUN 81
7. MONTHS	0 N D J F M A M J J A S	TOTALS
8. COST STATUS		9. FT 81
10. GRAPH OF COSTS THOUSANDS ALL 45 43 40 38 35 33 30 28 25 23 20 18 15 13 10 8 5 3 0		11. COST PLAN DATE 13 JAN 81 12. PLANNED COSTS PRIOR FY5 N/A 13. ACTUAL COSTS PRIOR FY5 N/A 14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 35 15. TOTAL CONTRACT VALUE N/A 16. UNFILLED ORDERS OUTSTANDING N/A 17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A
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151: TRANSPORT NEEDS AND CAPABILITY

1513: Logistics Model Development

OBJECTIVE

Develop necessary computer codes and methodology to describe logistics of transporting nuclear fuels from generation sites to spent fuel storage and disposal sites. First, determine the proper methodology and scope of the logistics model for each waste type; then include program development and subsequent validations. Finally, include development of operational tools for use at disposal facilities.

ACTIVITY STATUS

- .3 Develop Operational Tools. The highway and rail routing models were tested for accuracy of results. Investigations to improve the capability to determine transportation effects on population along routes were initiated.

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
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151: TRANSPORT NEEDS AND CAPABILITY

1515: Generic Technology

OBJECTIVE

Address questions representing generic technical needs of transport systems.

Activities include:

- Studies of unifying methodology, benchmark methods and development of consensus standards in transport systems or subsystems that enhance acceptability to regulatory bodies.
- Development of material property data, calculations, and test techniques that are acceptable to regulatory bodies.
- Development of test methods and data bases for subscale and fullscale components.
- Investigation of radioactive material source terms for the support of risk analysis techniques.

ACTIVITY STATUS

TTC staff attended the recent ANS/ENS International Conference at Washington, D.C., and a paper on Subjecting Spent Fuel Shipments to Extreme Environments was presented at the Nuclear Fuel and Waste Product Transportation Session.

At the recent ANS/AIF meeting held in Washington, D.C., TTC staff made a presentation on the status of the Systems Safety Evaluation Program and the preliminary results coming from that program as they impact the outcome of the Urban Study. This presentation was made to the Transportation Subcommittee of the Atomic Industrial Forum.

FORM DOE 536
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VPI MODIFICATION

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1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81				3. CONTRACT NUMBER 1515.																																																																																																																																																																																																																																																								
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152: INSTITUTIONAL ISSUES

1521: Regulatory and Legislative Summaries

OBJECTIVE

Provide a current listing of legislative and regulatory information pertaining to spent fuel. Include a highlighted summary of information available.

ACTIVITY STATUS

- .1 Legislative Summary. The National Conference of State Legislatures was assigned the task of summarizing for all states all legislation related to the transportation of radioactive material.

[illegible]

1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										3. CONTRACT NUMBER 1521.									
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED										5. CONTRACT START DATE 1 OCT 79										6. CONTRACT COMPLETION DATE CONTINUING									
7. MONTHS										ALL FUNDING										8. TOTALS									
																				B. FY 81									
9. COST STATUS																													
A) THOUSANDS																				D) COST PLAN DATE 13 JAN 81									
B) B AND A NUMBERS																				E) PLANNED COSTS PRIOR FY5 N/A									
ALL																				F) ACTUAL COSTS PRIOR FY5 N/A									
																				G) TOTAL ESTIMATE FY COSTS FOR CONTRACT 25									
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REMARKS																													
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																			

152: INSTITUTIONAL ISSUES

1522: EIS Transportation Support

OBJECTIVE

Provide transportation appendices for the AFR-EIS. Tailor generic transportation EIS models, scenarios, and documents to the specific application.

ACTIVITY STATUS

- .1 AFR EIS Appendix. The task group writing the AFR EIS met at Argonne National Laboratory on December 1 and 2 to review the draft EIS. Copies of the draft were forwarded to DOE/HQ, although revisions to text and impact calculations were being made at the time of transmittal. Revisions to the AFR EIS calendar will be negotiated.

[illegible]

1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1522.												
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED		5. CONTRACT START DATE 1 OCT 79		6. CONTRACT COMPLETION DATE CONTINUING												
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81	
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		D1 ACTUAL	0	0	12									12		
		E1 VARIANCE	2	2	-10											
		F1 CUM. VARIANCE	2	4	-6											
REMARKS																
SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

153: TRANSPORTATION INFORMATION

1532: Transportation Information Catalog

OBJECTIVE

Provide a summary document of nuclear materials transportation information. It should contain information on materials, criteria for acceptance, modes of transportation, and supportive requirements.

ACTIVITY STATUS

- .1 First Draft of System Design Description. Tables have been prepared listing highway weight limits, overweight permit requirements, permit costs, and nuclear emergency response agencies for all states. Tabular data for all power reactors have been assembled including type, location, transport service, crane capacity, and pool depth.

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VPI MODIFICATION

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
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153: TRANSPORTATION INFORMATION

1533: Transportation Information Center

OBJECTIVE

Collect and disseminate data on radioactive material transportation to the major user segments (public, policy, and technical areas) from which data requests are most likely to come.

ACTIVITY STATUS

- .2 Disseminate Transportation Information. The first issue of the TTC Newsletter was cancelled because of a delay in approval from DOE/HQ. The next issue is expected to be submitted for approval during January.

[illegible]

U. S. DEPARTMENT OF ENERGY
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1. CONTRACT IDENTIFICATION	2. REPORTING PERIOD	3. CONTRACT NUMBER																																																								
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ACCURED COSTS	<table border="1"> <tr> <td>G) PLANNED</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>9</td> <td>9</td> <td>9</td> <td>39</td> <td>130</td> </tr> <tr> <td>H) ACTUAL</td> <td>25</td> <td>2</td> <td>22</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>49</td> </tr> <tr> <td>I) VARIANCE</td> <td>-17</td> <td>6</td> <td>-14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>J) CUM. VARIANCE</td> <td>-17</td> <td>-11</td> <td>-25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	G) PLANNED	8	8	8	8	8	8	8	8	9	9	9	39	130	H) ACTUAL	25	2	22										49	I) VARIANCE	-17	6	-14											J) CUM. VARIANCE	-17	-11	-25											E) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A
G) PLANNED	8	8	8	8	8	8	8	8	9	9	9	39	130																																													
H) ACTUAL	25	2	22										49																																													
I) VARIANCE	-17	6	-14																																																							
J) CUM. VARIANCE	-17	-11	-25																																																							
REMARKS																																																										
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE	14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																																																									

154: INTERNATIONAL PROGRAM SUPPORT

1541: Transportation Interface Data

OBJECTIVE

Assemble data on spent fuel shipping cask interfaces at foreign reactor locations. Assemble in a standardized format and make available for use in the development of international transport plans.

ACTIVITY STATUS

- .3 Prepare Final Report. All volumes of data are compiled and will be classified Confidential National Security Information. Distribution is expected to start in January.

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
MILESTONE SCHEDULE AND STATUS REPORT

1. CONTRACT IDENTIFICATION		TRANSPORTATION INTERFACE DATA												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1541.									
4. CONTRACTOR (NAME, ADDRESS)		SANDIA LABORATORIES AIKEN SOUTH CAROLINA												5. CONTRACT START DATE 1 OCTOBER 79		6. CONTRACT COMPLETION DATE 31 NOVEMBER 80									
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS												10. PERCENT COMPLETE											
		FY 1980				FY 1981								FY 1982		83	84	85							
		1	2	3	4	O	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4				
1	ASSEMBLE TRANSPORTAT																								
2	PREPARE DRAFT TRANS																								
3	PREPARE FINAL TRANS																								
11. REMARKS																									
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE													

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION		DEVELOP LOGISTICS MODEL												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1541.	
4. CONTRACTOR (NAME AND ADDRESS)		TO BE DETERMINED												5. CONTRACT START DATE 1 OCT 79		6. CONTRACT COMPLETION DATE CONTINUING	
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
A1																A1 COST PLAN DATE	
THOUSANDS																13 JAN 81	
B1 B AND A NUMBERS																H1 PLANNED COSTS PRIOR FYS	
ALL																N/A	
																I1 ACTUAL COSTS PRIOR FYS	
																N/A	
																J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT	
																100	
																K1 TOTAL CONTRACT VALUE	
																N/A	
																L1 UNFILLED ORDERS OUTSTANDING	
																N/A	
ACCURED COSTS																M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
																N/A	
REMARKS																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE					

16: INTERNATIONAL ACTIVITIES

161: FUEL TRANSFER PROGRAMS

1611: Transfer Plans

OBJECTIVE

Provide planning and support activities for routine and non-routine transfer of foreign spent nuclear fuel. Emergency transfer feasibility studies and contingency transfer capability planning are initial elements of non-routine transfer activity. Determine requirements and costs for each area, to form a basis for transfer system acquisition. Compare existing and planned fuel transfer capabilities with the quantity and nature of foreign spent fuel discharges for routine transfer planning; identify shortfalls. Monitor and integrate international developments in routine fuel transfer into non-routine transfer capabilities developed by the U.S.

ACTIVITY STATUS

No activity to report.

[illegible]

1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL						2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81						3. CONTRACT NUMBER 1611.			
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED												5. CONTRACT START DATE 1 OCT 79			
												6. CONTRACT COMPLETION DATE CONTINUING			
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81
9. COST STATUS															
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>THOUSANDS</p> <p>ALL</p> </div> <div style="width: 70%; position: relative;"> </div> <div style="width: 10%;"> <p>G) COST PLAN DATE 13 JAN 81</p> <p>H) PLANNED COSTS PRIOR FYS N/A</p> <p>I) ACTUAL COSTS PRIOR FYS N/A</p> <p>J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 52</p> <p>K) TOTAL CONTRACT VALUE N/A</p> <p>L) UNFILLED ORDER OUTSTANDING N/A</p> <p>M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A</p> </div> </div>															
ACCURED COSTS		C) PLANNED	22	15	15	0	0	0	0	0	0	0	0	52	
		D) ACTUAL	40	5	0									45	
		E) VARIANCE	-18	10	15										
		F) CUM. VARIANCE	-18	-8	7										
10. REMARKS															
11. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE															
12. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE															

162: STORAGE PROGRAM

1621: Multinational Storage Facility

OBJECTIVE

Assist U.S. Government in planning and arrangements for a multinational storage facility in support of U.S. nonproliferation objectives. Activities will include:

- Technical and design studies for U.S. Government agencies planning for international storage facilities
- Develop plans required for U.S. participation in international storage facilities
- Manage implementation plans for the international storage facility to the extent required by the U.S. Government

ACTIVITY STATUS

- .1 Multinational Study Assistance. Liaison with DOE personnel has continued.
- .2 Pacific Basin Joint Feasibility Study. As agreed to at the Program Directors' meeting between officials of the Governments of the United States and Japan in Washington, DC, on November 13, 1980, 30 copies of the final Work Plan document were submitted to the Japanese team through the Japanese embassy on November 26. At the same meeting both sides agreed on a procedure for clarification and elaboration of the tasks as stated in the approved Work Plan. They agreed that a Work Guidance Document (WGD), containing more detailed work specifications, schedules, and milestones shall be prepared for each task in advance of the start of the task. The lead country will prepare the WGD and submit it to the other side for review, comment and concurrence. The WGD's will adhere to the approved Work Plan. In accordance with this agreement, 10 copies of the following WGD's were submitted to the Japanese on December 5:

WGD I-1.1, I-1.2, I-1.3, I-2.1, I-2.2, I-2.3

WGD T-1.1, T-1.3, T-1.4, T-2.1

It is expected the Japanese comments on these WGD's will be received prior to the start of the tasks January 1, 1981.

There are three separate phases of each task that require joint action: (1) the joint agreement on the Work Guidance Document prior to the start of the task, (2) a midterm progress review for the extended tasks, and (3) a joint review and approval of the joint Task Report prior to issuing the report to the Program Directors for review. Another important milestone which requires a joint working meeting is the preparation of the semiannual Progress Report to the Steering Committee. A schedule of joint working group meetings was proposed to the Japanese in a letter December 5 where the agenda for the meetings is divided into review and action on the items just discussed. It was also proposed that meetings should be held quarterly and be rotated between Tokyo and Seattle (and Washington, DC, as appropriate). The first quarterly meeting would be held the latter part of February 1981. The Japanese accepted the U.S. proposal for these meetings in a letter dated December 26.

[illegible]

1. CONTRACT IDENTIFICATION	2. REPORTING PERIOD	3. CONTRACT NUMBER																																																																											
DEVELOP LOGISTICS MODEL	01 DEC 81 THROUGH 31 DEC 81	1621.																																																																											
4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE																																																																											
TO BE DETERMINED		1 OCT 79																																																																											
ALL FUNDING		6. CONTRACT COMPLETION DATE																																																																											
		CONTINUING																																																																											
7. MONTHS	O N D J F M A M J J A S	TOTALS																																																																											
		B. FY 81																																																																											
9. COST STATUS																																																																													
A) THOUSANDS B) B AND R NUMBERS ALL		G) COST PLAN DATE 13 JAN 81 H) PLANNED COSTS PRIOR FYs N/A I) ACTUAL COSTS PRIOR FYs N/A J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 679 K) TOTAL CONTRACT VALUE N/A L) UNFILLED ORDERS OUTSTANDING N/A M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A																																																																											
<table border="1"> <thead> <tr> <th></th> <th>38</th> <th>39</th> <th>46</th> <th>59</th> <th>59</th> <th>60</th> <th>60</th> <th>60</th> <th>60</th> <th>61</th> <th>68</th> <th>69</th> <th></th> <th>679</th> </tr> </thead> <tbody> <tr> <td>C) PLANNED</td> <td>38</td> <td>39</td> <td>46</td> <td>59</td> <td>59</td> <td>60</td> <td>60</td> <td>60</td> <td>60</td> <td>61</td> <td>68</td> <td>69</td> <td></td> <td>679</td> </tr> <tr> <td>D) ACTUAL</td> <td>20</td> <td>31</td> <td>21</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>72</td> </tr> <tr> <td>E) VARIANCE</td> <td>18</td> <td>8</td> <td>25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>F) CUM. VARIANCE</td> <td>18</td> <td>26</td> <td>51</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			38	39	46	59	59	60	60	60	60	61	68	69		679	C) PLANNED	38	39	46	59	59	60	60	60	60	61	68	69		679	D) ACTUAL	20	31	21											72	E) VARIANCE	18	8	25												F) CUM. VARIANCE	18	26	51												
	38	39	46	59	59	60	60	60	60	61	68	69		679																																																															
C) PLANNED	38	39	46	59	59	60	60	60	60	61	68	69		679																																																															
D) ACTUAL	20	31	21											72																																																															
E) VARIANCE	18	8	25																																																																										
F) CUM. VARIANCE	18	26	51																																																																										
REMARKS																																																																													
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																																																																											

163: INTERNATIONAL COOPERATION

1631: International Programs

OBJECTIVE

Provide support to international organizations in the development of added storage capacity for spent fuel. Prepare a cooperation plan and develop a data base to be shared with international organizations and candidate nations who are pursuing increased storage capacity. Perform supporting technical studies for selected projects.

ACTIVITY STATUS

- .1 International Cooperation Plan. A revised plan for international cooperation (dated October 3) has been prepared. The first phase of activity covered by this plan is the preparation for visitation to high priority countries. Work accomplished as preparation includes draft discussion papers for high priority countries, a topical report on international organizations in spent fuel management, and a topical report on spent fuel management policy and programs for selected programs. The plan and documents noted have been forwarded to Du Pont and await release instructions. Further activity is being held pending review of total international program priorities and commitments.
- .2 Technology Transfer (information Exchange). A basic volume on cost evaluation and two volumes containing detailed appendices have been prepared for the Expert Group on International Spent Fuel Management (ISFM) of the International Atomic Energy Agency (IAEA). These volumes have been circulated to member states of the IAEA. A coordinators' review meeting was held in Vienna the week of December 1. During this meeting the cost report was discussed in great detail and general comments were received. As a result, additional work will be done to modify the cost impact shown in the draft report of Western Europe licensing requirements. Also to be added to the report is a comparison of vault storage based on the GEC design being proposed for TVA and the block storage system proposed by Electrowatt.

Subgroup B of the ISFM concerns institutional aspects of spent fuel management. Up to this time no support has been given to this activity. However, at the Vienna meeting the week of December 1, the U.S. delegation committed to prepare several papers related to bilateral cooperation and multinational roles. This work will be done as part of this task.

[illegible]

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL						2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81						3. CONTRACT NUMBER 1631.											
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED																		5. CONTRACT START DATE 1 OCT 79					
																		6. CONTRACT COMPLETION DATE CONTINUING					
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		B. FY	81						
9. COST STATUS																							
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>THOUSANDS</p> <p>ALL</p> </div> <div style="width: 70%; text-align: center;"> </div> <div style="width: 10%;"> <p>G1 COST PLAN DATE 13 JAN 81</p> <p>H1 PLANNED COSTS PRIOR FYS N/A</p> <p>I1 ACTUAL COSTS PRIOR FYS N/A</p> <p>J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 528</p> <p>K1 TOTAL CONTRACT VALUE N/A</p> <p>L1 UNFULFILLED ORDER OUTSTANDING N/A</p> </div> </div>																							
ACCUMULATED COSTS		C1 PLANNED	57	56	41	44	44	44	43	43	43	34	36		528	M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A							
		D1 ACTUAL	53	43	43										139								
		E1 VARIANCE	4	13	-2																		
		F1 CUM. VARIANCE	4	17	15																		
REMARKS																							
SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE													

164: PROGRAM INTEGRATION

1641: Program Management and Planning

OBJECTIVE

Integrate management and support services for the international activities program. This includes:

- Management and allocation of program resources
- Accounting for program progress and scheduled activities
- Business and administrative services
- Development and maintenance of the international activities program plan.

In addition, provide technical studies, topical reports, and informational briefings as required to support overall international activities.

ACTIVITY STATUS

- .1 Program Planning. The 1981 Program Development Plan document is currently in preparation. All contributing sources have been notified and have agreed to submit their respective parts to the document. The Program Development Plan incorporates all sections of the Program Plan but expands on the scope of work for the FY 81.
- .2 General Support. No activity to report.
- .3 Program Management. The FY 81 contract with Du Pont was signed by both parties. Work statements for IEAL and E. R. Johnson to cover the FY 81 activities in the Pacific Basin Joint Feasibility Study are in preparation. Agreements on task effort distributions have been obtained.

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

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164: ACTIVITIES INTEGRATION AND PLANNING

1643: Program Management

OBJECTIVE

Provide program management activities necessary to: accomplish international program objectives, allocate program resources, measure program progress, account for cost, and operate data resource library.

ACTIVITY STATUS

No activity to report.

[illegible]

1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD		3. CONTRACT NUMBER	
GENERAL SUPPORT		01 DEC 81 THROUGH 31 DEC 81		1643.	
4. CONTRACTOR (NAME AND ADDRESS)		5. CONTRACT START DATE		6. CONTRACT COMPLETION DATE	
TO BE DETERMINED		1 OCT 79		CONTINUING	
7. MONTHS		TOTALS		8. FY	
O N D J F M A M J J A S				81	
8. COST STATUS					
9. GRAPH					
<p>THOUSANDS</p> <p>ALL</p> <p>90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0</p> <p>10. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD</p>		<p>11. ACTUAL COSTS PRIOR FY</p> <p>12. TOTAL ESTIMATE FY COSTS FOR CONTRACT</p> <p>13. TOTAL CONTRACT VALUE</p> <p>14. UNFILLED ORDERS OUTSTANDING</p> <p>15. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD</p>		<p>16. COST PLAN DATE</p> <p>17 JAN 81</p> <p>N/A</p> <p>N/A</p> <p>80</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>	
11. ACCRUED COSTS		12. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		13. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
<p>C) PLANNED</p> <p>D) ACTUAL</p> <p>E) VARIANCE</p> <p>F) CUM. VARIANCE</p>		<p>80</p> <p>11</p>		<p>11</p>	
14. REMARKS					
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		16. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

AFR GLOSSARY

AFR -- Away From Reactor
AFR-EIS -- Away-From-Reactor Environmental Impact Statement
AGNS -- Allied General Nuclear Services
ANL -- Argonne National Laboratory
ARB -- at-reactor basin
ASAR -- AFR Safety Analysis Report (conceptual)

BCL -- Battelle Columbus Laboratories
BEC -- Boeing Engineering and Construction Company
BEFAST -- Behavior of Fuel Assemblies during long-term Storage
BNFP -- Barnwell Nuclear Fuel Plant
BWR -- boiling water reactor

CERT -- constant extension rate test
COBRA-N -- thermal hydraulics computer program
COMPU.MAP -- computer mapping program
CRP -- Center for Radiological Protection

DISFUL -- computer code (Stoller Corp.)
DOE -- Department of Energy
DOE/ER -- Department of Energy/Energy Research
DOE/EV -- Department of Energy/Environment
DOE/HQ -- Department of Energy/Headquarters
DOE/NE -- Department of Energy/Nuclear Energy
DOE/SR -- Department of Energy/Savannah River
DOS -- Department of State

EIS -- Environmental Impact Statement
ENC -- Exxon Nuclear Corp.
ER -- Environmental Report (conceptual)

FEMA -- Federal Emergency Management Agency
FRG -- Federal Republic of Germany
FRSS -- Fuel Receiving and Storage Station (AGNS-Barnwell)
FSF -- Fleet Servicing Facility

GE -- General Electric
GEIS -- Generic Environmental Impact Statement
GPSS -- General Purpose Simulation System
GWe -- gigawatts electric

HEDL -- Hanford Engineering Development Laboratory

IAEA -- International Atomic Energy Agency
IEAL -- International Energy Associates Limited
ISFM -- International Spent Fuel Management
ISFP -- International Spent Fuel Program

kWh -- kilowatt hour

LASL -- Los Alamos Scientific Laboratory

LWR --light water reactor

MISTIC -- Model Interstate Scientific and Technical Information Clearinghouse

ml -- milliliter

MT -- metric ton

MTU -- metric ton of uranium

MW -- megawatt

MWD -- megawatt day

NAC -- Nuclear Assurance Corporation

NCSL -- National Conference of State Legislatures

NEPA -- National Environmental Protection Agency

NES -- Nuclear Energy Services

NFS -- Nuclear Fuel Services

NMMSS -- Nuclear Material Mngement Safeguard System at Oak Ridge

NM/TTC -- Nuclear Materials Transportation Technology Center

NRC -- National Regulatory Commission

NSF -- National Science Foundation

NUS -- corporate name (formerly Nuclear Utility Service)

OMB -- Office of Management and Budget

ONWI -- Office of Nuclear Waste Isolation

ORNL -- Oak Ridge National Laboratories

PNL -- Pacific Northwest Laboratories

ppb -- parts per billion

PWR -- pressurized water reactor

RAM -- radioactive material

RBOF -- Receiving Basin Offsite Fuel (Du Pont-SRP)

RHO -- Rockwell Hanford Operations

RMT -- Radioactive Material Transport

SFPO -- Spent Fuel Project Office (DOE/SR)

SNL -- Sandia National Laboratories

SNL/TCC -- Sandia National Laboratories/Transportation Technology Center

SRL -- Savannah River Laboratory

SRP -- Savannah River Plant

SSEB --Southern States Energy Board

TES -- Teledyne Energy Systems

TSSE -- Transportation System Safety Evaluation

TTC -- Transportation Technology Center (SNL)

TWIGL -- neutronics computer program - two dimensional

UCRS -- Uniform Contractor Reporting System
UK -- United Kingdom
U.S. -- United States

VPI -- Virginia Polytechnic Institute (and State University)

WBS -- Work Breakdown Structure
WEN -- Work Element Numbers
WIGL -- neutronics computer program
WNYNS -- Western New York Nuclear Service (West Valley)