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

NOVEMBER 1-30, 1980

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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 MANAGEMENT

A draft of the revised program plan was completed on November 26.

The additional \$10 million 79-1-P appropriation was released to the program.

The Facility Value Study Report, which is being prepared as a guide for making economic evaluations of potential AFR facility candidates, will be drafted without the Fair Market Value section as was planned. The draft should be available by the end of December.

A letter contract authorizing work by Boeing through December 31 was executed on November 6.

The update and debugging of the DISFUL data base was completed. Incorporation of reactor discharges from uncommitted reactors and of the transportation network (rail and highway) into the DISFUL code is complete.

E. R. Johnson Associates personnel reviewed hearing transcripts of congressional committees, involved in developing bills relating to design and construction of AFR facilities, to further identify public concerns.

The preliminary draft of the spent fuel film was reviewed at DOE/HQ. Comments are being incorporated into the film, and a draft will be ready for review in mid-December.

Southern States Energy Board hosted a two-day workshop in Atlanta. The 60 participants from state and local governmental agencies in the southeast helped to identify impediments to radioactive material transportation.

12. FACILITY ACQUISITION

Preparation of the AGNS BNFP Safety Analysis and Environmental reports is continuing. The feasibility study for a universal movable rack design for assembled/disassembled fuel was completed; design of storage racks for the pool areas has been started. GE, NUS, AGNS, and DOE/Du Pont personnel met to agree on a common basis for rack designs for all three facilities.

DOE will prepare a Congressional Report which will address the proceedings of the acquisition negotiations with the owners of the commercial spent fuel storage facilities under consideration as AFR's.

An assessment of acquisition of selected portions of MO, BNFP, and WNYNSC confirmed the DOE assumption that virtually the entire site at each location should be acquired.

An acquisition project plan is being prepared.

Brief descriptions of the site and facilities at MO, BNFP, and WNYNSC were prepared for use by the Corps of Engineers in appraisals of these facilities.

Information on gallery storage was assembled for a DOE/HQ briefing for the U.S. House of Representatives Committee on Science and Technology.

13: LEGISLATIVE REQUIREMENTS

Initial printing of the Department of Energy Report on Fee for Spent Nuclear Fuel Storage and Disposal Services, October 1980, DOE/SR-006, was completed and copies were sent to specific members of Congress. DOE/HQ is making an additional printing for public distribution.

A preliminary working draft of the Near-Term AFR EIS was released to all contributors and operators of the three existing candidate AFR storage facilities on November 21. The EIS will be sent to DOE/HQ for initial review by December 16.

14: TECHNICAL SUPPORT

AGNS has completed construction work orders for approximately 20% of the disassembly and encapsulation equipment. Studies for alternate fuel handling operations were initiated to assess the practicality of the on-line examination of fuel pins.

Johns Hopkins University completed testing and integrating all software that compares parameters in the computer code for evaluating alternative locations for AFR's.

The BNFP physical protection plan, prepared by IEAL, is being reviewed by Sandia.

NRC confirmed that 10 CFR 100 applies to offsite dose rates as a result of radiological sabotage.

The first series of nondestructive analysis test measurements on spent fuel at Morris was completed on October 27.

De-bugging of the coupled neutronics and thermal hydraulics code associated with postulated criticality events of LWR fuel assemblies in racks should be completed in December.

15: TRANSPORTATION

Sandia's Transportation Technology Center has transmitted a draft copy of an appendix to ANL to be added to the AFR EIS.

Sandia's TTC is supporting DOE/HQ in formulating a policy position on H.M.-164. If the bill is enacted, all shipments of spent fuel would be subject to NRC's regulations.

16: INTERNATIONAL ACTIVITY

The U.S. and Japan signed an agreement to begin a two-year study of the feasibility of a Spent Fuel Storage Facility in the Pacific Basin on January 1, 1981.

The revised Plan for International Cooperation and a topical report, Spent Fuel Management Policy and Programs for Selected Countries, were transmitted to DOE for review and comments.

Support of the task coordinators for the International Spent Fuel Management Study continued. Comments on the draft task reports were provided to the U.S. coordinator.

Further development of and planning for foreign fuel transfer operations have been discontinued.

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CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION SPENT FUEL STORAGE		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1			
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE														5. CONTRACT START DATE 1 OCT 79			
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
B1 B AND R NUMBERS ITM 39-ASO	AI														G) COST PLAN DATE 16 DEC 60		
	9000														H) PLANNED COSTS PRIOR FYS		
	8500														I) ACTUAL COSTS PRIOR FYS		
	8000														N/A		
	7500														J) TOTAL ESTIMATE FY COSTS FOR CONTRACT		
	7000														9643		
	6500														K) TOTAL CONTRACT VALUE		
	6000														N/A		
	5500														L) UNFILLED ORDERS OUTSTANDING		
	5000														N/A		
	4500														M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
	4000														N/A		
	3500																
3000																	
2500																	
2000																	
1500																	
1000																	
500																	
0																	
ACCURED COSTS	L) PLANNED		629	636	535	1295	546	436	414	352	351	293	274	238	5999		
	D) ACTUAL		394	438											832		
	E) VARIANCE		235	198													
	F) CUM. VARIANCE		235	433													
REMARKS																	
CONFLICT - FINANCIAL PLAN IS 5999 FY ESTIMATE IS 9643																	
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	
9. COST STATUS																	
B1 B AND R NUMBERS DOM AS0505	AI														G) COST PLAN DATE 16 DEC 60		
	9000														H) PLANNED COSTS PRIOR FYS		
	8500														I) ACTUAL COSTS PRIOR FYS		
	8000														N/A		
	7500														J) TOTAL ESTIMATE FY COSTS FOR CONTRACT		
	7000														7885		
	6500														K) TOTAL CONTRACT VALUE		
	6000														N/A		
	5500														L) UNFILLED ORDERS OUTSTANDING		
	5000														N/A		
	4500														M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
	4000														N/A		
	3500																
3000																	
2500																	
2000																	
1500																	
1000																	
500																	
0																	
ACCURED COSTS	C) PLANNED		574	536	568	539	529	538	577	522	540	546	590	597	6656		
	D) ACTUAL		423	170											593		
	E) VARIANCE		151	366													
	F) CUM. VARIANCE		151	517													
REMARKS																	
CONFLICT - FINANCIAL PLAN IS 6656 FY ESTIMATE IS 7885																	
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		2. REPORTING PERIOD												3. CONTRACT NUMBER					
SPENT FUEL STORAGE		01 NOV 80 THROUGH 30 NOV 80												1					
4. CONTRACTOR NAME AND ADDRESS		5. CONTRACT START DATE												6. CONTRACT COMPLETION DATE					
UPPER LEVEL WORK BREAKDOWN STRUCTURE		INTERNATIONAL FUNDING												1 OCT 79					
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		B. FY	81		
8. COST STATUS																			
AI THOUSANDS BI B AND R NUMBERS FOR AS0510		2250												GI COST PLAN DATE		16 DEC 80			
		2125													HI PLANNED COSTS PRIOR FYS		N/A		
		2000													II ACTUAL COSTS PRIOR FYS		N/A		
		1875													JI TOTAL ESTIMATE FY COSTS FOR CONTRACT		2771		
		1750													KJ TOTAL CONTRACT VALUE		N/A		
		1625													LI UNFILLED ORDERS OUTSTANDING		N/A		
		1500													MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		N/A		
		1375													NI				
		1250													OJ				
		1125													PJ				
1000													QJ						
875													RJ						
750													SJ						
625													TJ						
500													UJ						
375													VJ						
250													WJ						
125													XJ						
0													YJ						
ACCURED COSTS		CI PLANNED	182	175	163	167	175	176	186	176	180	182	190	198	2150				
		DI ACTUAL	145	81											226				
		EI VARIANCE	37	94															
		FI CUM. VARIANCE	37	131															
REMARKS																			
CONFLICT - FINANCIAL PLAN IS 2150 FY ESTIMATE IS 2771																			
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		2. REPORTING PERIOD												3. CONTRACT NUMBER					
PLANNING & MANAGEMENT		01 NOV 80 THROUGH 30 NOV 80												11					
4. CONTRACTOR NAME AND ADDRESS		5. CONTRACT START DATE												6. CONTRACT COMPLETION DATE					
UPPER LEVEL WORK BREAKDOWN STRUCTURE														1 OCT 79					
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		B. FY	81		
8. COST STATUS																			
AI THOUSANDS BI B AND R NUMBERS ITM 39-AS0		450												GI COST PLAN DATE		16 DEC 80			
		425													HI PLANNED COSTS PRIOR FYS		N/A		
		400													II ACTUAL COSTS PRIOR FYS		N/A		
		375													JI TOTAL ESTIMATE FY COSTS FOR CONTRACT		800		
		350													KJ TOTAL CONTRACT VALUE		N/A		
		325													LI UNFILLED ORDERS OUTSTANDING		N/A		
		300													MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		N/A		
		275													NI				
		250													OJ				
		225													PJ				
200													QJ						
175													RJ						
150													SJ						
125													TJ						
100													UJ						
75													VJ						
50													WJ						
25													XJ						
0													YJ						
ACCURED COSTS		CI PLANNED	10	10	25	25	25	25	25	25	25	30	30	30	285				
		DI ACTUAL	9	29											38				
		EI VARIANCE	1	-19															
		FI CUM. VARIANCE	1	-18															
REMARKS																			
CONFLICT - FINANCIAL PLAN IS 285 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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1. CONTRACT IDENTIFICATION PLANNING & MANAGEMENT												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80	3. CONTRACT NUMBER 11	
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														
RI THOUSANDS DOM AS0505	4500												GI COST PLN DATE 16 DEC 80	
	4250												HI PLANNED COSTS PRIOR FYS	
	4000												N/A	
	3750												II ACTUAL COSTS PRIOR FYS	
	3500												N/A	
	3250												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT	
	3000												3713	
	2750												KJ TOTAL CONTRACT VALUE	
	2500												N/A	
	2250												LI UNFILLED ORDERS OUTSTANDING	
	2000												N/A	
	1750												MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
	1500												N/A	
1250														
1000														
750														
500														
250														
0														
ACCURED COSTS	CI PLANNED	355	309	344	314	286	295	302	268	283	284	294	300	3634
	DI ACTUAL	271	203											474
	EI VARIANCE	84	106											
	FI CUM. VARIANCE	84	190											
REMARKS														
CONFLICT - FINANCIAL PLAN IS 3634 FY ESTIMATE IS 3713														
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 FACILITY ACQUISITION		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 12	
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE														5. CONTRACT START DATE 1 OCT 79	
														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														9. COST PLAN DATE 16 DEC 80	
10. THOUSANDS		2250												10. PLANNED COSTS PRIOR FYS N/A	
		2125												11. ACTUAL COSTS PRIOR FYS N/A	
		2000												12. TOTAL ESTIMATE FY COSTS FOR CONTRACT 4850	
		1875												13. TOTAL CONTRACT VALUE N/A	
		1750												14. UNFILLED ORDERS OUTSTANDING N/A	
		1625												15. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
		1500													
		1375													
		1250													
		1125													
		1000													
		875													
		750													
		625													
		500													
		375													
		250													
		125													
		0													
16. B AND R NUMBERS ITM 39-AS0		CI PLANNED	216	220	133	850	72	69	49	18	32	18	15	0	17. 1692
		DI ACTUAL	102	218											18. 320
		EI VARIANCE	114	2											
		FI CUM. VARIANCE	114	116											
REMARKS		CONFLICT - FINANCIAL PLAN IS 1692 FY ESTIMATE IS 4850													
19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								20. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE														5. CONTRACT START DATE 1 OCT 79	
														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														9. COST PLAN DATE 16 DEC 80	
10. THOUSANDS		900												10. PLANNED COSTS PRIOR FYS N/A	
		850												11. ACTUAL COSTS PRIOR FYS N/A	
		800												12. TOTAL ESTIMATE FY COSTS FOR CONTRACT 720	
		750												13. TOTAL CONTRACT VALUE N/A	
		700												14. UNFILLED ORDERS OUTSTANDING N/A	
		650													
		600													
		550													
		500													
		450													
		400													
		350													
		300													
		250													
		200													
		150													
		100													
		50													
		0													
15. B AND R NUMBERS DOM AS0505		CI PLANNED	43	51	54	53	63	63	65	64	64	67	66	67	16. 720
		DI ACTUAL	37	62											17. 99
		EI VARIANCE	6	-11											
		FI CUM. VARIANCE	6	-5											
REMARKS															
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 LEGISLATIVE REQUIREMENTS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80	3. CONTRACT NUMBER 13
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE												5. CONTRACT START DATE 1 OCT 79	
7. MONTHS 0 N D J F M A M J J A S												6. CONTRACT COMPLETION DATE 30 APR 81	
8. COST STATUS													
A) THOUSANDS	900												GI COST PLAN DATE 16 DEC 80
	850												HI PLANNED COSTS PRIOR FY'S
	800												N/A
	750												II ACTUAL COSTS PRIOR FY'S
	700												N/A
	650												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT
	600												575
	550												KI TOTAL CONTRACT VALUE
	500												N/A
	450												LI UNFILLED ORDERS OUTSTANDING
400												N/A	
350												MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
300												N/A	
250												NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
200												N/A	
150												NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
100												N/A	
50												NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
0												N/A	
B) B AND R NUMBERS	ITM												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT
	39-ASO												575
													KI TOTAL CONTRACT VALUE
													N/A
ACCURED COSTS	CI PLANNED	54	54	54	54	54	54	54	54	59	60	55	660
	DI ACTUAL	15	-15										0
	EI VARIANCE	39	69										
	FI CUM. VARIANCE	39	108										
REMARKS													
CONFLICT - FINANCIAL PLAN IS 660 FY ESTIMATE IS 575													
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

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4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE												5. CONTRACT START DATE 1 OCT 79	
7. MONTHS 0 N D J F M A M J J A S												6. CONTRACT COMPLETION DATE 30 APR 81	
8. COST STATUS													
A) THOUSANDS	90												GI COST PLAN DATE 16 DEC 80
	85												HI PLANNED COSTS PRIOR FY'S
	80												N/A
	75												II ACTUAL COSTS PRIOR FY'S
	70												N/A
	65												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT
	60												150
	55												KI TOTAL CONTRACT VALUE
	50												N/A
	45												LI UNFILLED ORDERS OUTSTANDING
40												N/A	
35												MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
30												N/A	
25												NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
20												N/A	
15												NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
10												N/A	
5												NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
0												N/A	
B) B AND R NUMBERS	DOM												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT
	AS0505												150
													KI TOTAL CONTRACT VALUE
													N/A
ACCURED COSTS	CI PLANNED	4	4	6	9	9	9	9	10	10	11	10	100
	DI ACTUAL	3	4										7
	EI VARIANCE	1	0										
	FI CUM. VARIANCE	1	1										
REMARKS													
CONFLICT - FINANCIAL PLAN IS 100 FY ESTIMATE IS 150													
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 TECHNICAL SUPPORT		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		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 B. FY 81						
8. COST STATUS										
HI THOUSANDS M. B AND R NUMBERS ITM 39-AS0	GI COST PLAN DATE 16 DEC 80 HI PLANNED COSTS PRIOR FYS									
	N/A									
	II ACTUAL COSTS PRIOR FYS									
	N/A									
	III TOTAL ESTIMATE FY COSTS FOR CONTRACT 3418									
	IV TOTAL CONTRACT VALUE N/A									
	V UNFILLED ORDERS OUTSTANDING N/A									
	VI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A									
	REMARKS CONFLICT - FINANCIAL PLAN IS 3362 FY ESTIMATE IS 3418									
	13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE					14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE				

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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 B. FY 81						
8. COST STATUS										
HI THOUSANDS M. B AND R NUMBERS DOM AS0505	GI COST PLAN DATE 16 DEC 80 HI PLANNED COSTS PRIOR FYS									
	N/A									
	II ACTUAL COSTS PRIOR FYS									
	N/A									
	III TOTAL ESTIMATE FY COSTS FOR CONTRACT 2502									
	IV TOTAL CONTRACT VALUE N/A									
	V UNFILLED ORDERS OUTSTANDING N/A									
	VI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A									
	REMARKS CONFLICT - FINANCIAL PLAN IS 1402 FY ESTIMATE IS 2502									
	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

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

1. CONTRACT IDENTIFICATION TECHNICAL SUPPORT												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80	3. CONTRACT NUMBER 14	
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE												5. CONTRACT START DATE 1 OCT 79		
INTERNATIONAL FUNDING												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														
10. THOUSANDS B1. B AND R NUMBERS FOR AS0510	450												11. COST PLAN DATE 16 DEC 80	
	425												12. PLANNED COSTS PRIOR FYS	
	400												N/A	
	375												13. ACTUAL COSTS PRIOR FYS	
	350												N/A	
	325												14. TOTAL ESTIMATE FY COSTS FOR CONTRACT	
	300												970	
	275												15. TOTAL CONTRACT VALUE	
	250												N/A	
	225												16. UNFILLED ORDERS OUTSTANDING	
	200												N/A	
	175												17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
	150												N/A	
	125												18. TOTAL CONTRACT VALUE	
	100												N/A	
75												19. UNFILLED ORDERS OUTSTANDING		
50												N/A		
25												20. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
0												N/A		
ACCURED COSTS		CI. PLANNED	33	33	29	29	31	30	39	29	28	29	370	
		DI. ACTUAL	11	-11									0	
		EI. VARIANCE	22	44										
		FI. CUM. VARIANCE	22	66										
REMARKS														
CONFLICT - FINANCIAL PLAN IS 370 FY ESTIMATE IS 970														
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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

1. CONTRACT IDENTIFICATION TRANSPORTATION												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80	3. CONTRACT NUMBER 15	
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE												5. CONTRACT START DATE 1 OCT 79		
DOMESTIC FUNDING												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														
10. THOUSANDS B1. B AND R NUMBERS DOM AS0505	900												11. COST PLAN DATE 16 DEC 80	
	850												12. PLANNED COSTS PRIOR FYS	
	800												N/A	
	750												13. ACTUAL COSTS PRIOR FYS	
	700												N/A	
	650												14. TOTAL ESTIMATE FY COSTS FOR CONTRACT	
	600												800	
	550												15. TOTAL CONTRACT VALUE	
	500												N/A	
	450												16. UNFILLED ORDERS OUTSTANDING	
	400												N/A	
	350												17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
	300												N/A	
	250												18. TOTAL CONTRACT VALUE	
	200												N/A	
150												19. UNFILLED ORDERS OUTSTANDING		
100												N/A		
50												20. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
0												N/A		
ACCURED COSTS		CI. PLANNED	50	50	50	50	55	57	61	69	74	74	800	
		DI. ACTUAL	43	-43									0	
		EI. VARIANCE	7	93										
		FI. CUM. VARIANCE	7	100										
REMARKS														
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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

1. CONTRACT IDENTIFICATION TRANSPORTATION		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80											3. CONTRACT NUMBER 15			
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		B. FY 81
8. COST STATUS																
9. B AND R NUMBERS FOR AS0510															10. COST PLAN DATE 16 DEC 80	
															11. PLANNED COSTS PRIOR FYS	
															N/A	
															12. ACTUAL COSTS PRIOR FYS	
															N/A	
															13. TOTAL ESTIMATE FY COSTS FOR CONTRACT	
															200	
															14. TOTAL CONTRACT VALUE	
															N/A	
															15. UNFILLED ORDERS OUTSTANDING	
															N/A	
															16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
															N/A	
REMARKS																
17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							18. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

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

1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80											3. CONTRACT NUMBER 16			
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
8. COST STATUS																
9. B AND R NUMBERS FOR AS0510															10. COST PLAN DATE 16 DEC 80	
															11. PLANNED COSTS PRIOR FYS	
															N/A	
															12. ACTUAL COSTS PRIOR FYS	
															N/A	
															13. TOTAL ESTIMATE FY COSTS FOR CONTRACT	
															1601	
															14. TOTAL CONTRACT VALUE	
															N/A	
															15. UNFILLED ORDERS OUTSTANDING	
															N/A	
															16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
															N/A	
REMARKS																
CONFLICT - FINANCIAL PLAN IS 1580 FY ESTIMATE IS 1601																
17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							18. 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 OPERATIONAL TOOLS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80	3. CONTRACT NUMBER 19	
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 THOUSANDS B1 B AND R NUMBERS FOR AS0510	45												G1 COST PLAN DATE 16 DEC 80	
	43												H1 PLANNED COSTS PRIOR FYS N/A	
	40												I1 ACTUAL COSTS PRIOR FYS N/A	
	38												J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 0	
	35												K1 TOTAL CONTRACT VALUE N/A	
	33												L1 UNFILLED ORDERS OUTSTANDING N/A	
	30												M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
	28													
	25													
	23													
	20													
	18													
	15													
	13													
	10													
8														
5														
3														
0														
ACCURED COSTS														
(C) PLANNED 0 0 0 0 0 0 0 0 0 0 0 0 0														
(D) ACTUAL 0 0 0 0 0 0 0 0 0 0 0 0 0														
(E) VARIANCE 0 0 0 0 0 0 0 0 0 0 0 0 0														
(F) CUM. VARIANCE 0 0 0 0 0 0 0 0 0 0 0 0 0														
REMARKS														
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

SECTION 2
PROGRAM STATUS

II: PLANNING AND MANAGEMENT

III: PLANNING

III: 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. A coordination task was established to ensure that licensing of any of the three existing facilities was not delayed because of inconsistencies in licensing documentation, facility modification design, or operational planning.

Two meeting with contractors performing site-related studies were held to discuss design of high density storage baskets. Several differences in design criteria were noted. Contractors will be provided guidance on resolving these differences.

Only one significant issue developed. One design criterion was that the fuel positions in the baskets be able to accomodate cans of rods from two disassembled bundles (August report). The Barnwell basket design may meet this criteria. However, for the Morris basket design to accommodate the rods from two disassembled bundles, a substantial loss in storage space for fuel bundles would occur. (Size requirements were based on experimental data obtained at Barnwell.) General Electric will be instructed to design for maximum hole size that does not result in a loss of storage space.

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VPI FACSIMILE

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

PAGE 1 OF 1

1. CONTRACT IDENTIFICATION FACILITY PLANNING										2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80			3. CONTRACT NUMBER 1111					
4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA										5. CONTRACT START DATE 1 APRIL 79			6. CONTRACT COMPLETION DATE INDEFINITE					
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS				FY 1981				FY 1982				10. PERCENT COMPLETE				
		FY 1980				D	N	D	J	F	M	A	M	J	J	A	S	83
1	STORAGE REQUIREMENTS	1	2	3	4													0
2	FACILITY SELECTION	1	2	3	4													0
11. REMARKS																		
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

FORM DOE 536
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VPI MODIFICATION

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

1. CONTRACT IDENTIFICATION FACILITY PLANNING										2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80			3. CONTRACT NUMBER 1111					
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA										5. CONTRACT START DATE 1 APR 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																		
10. BUDGET NUMBERS ALL		11. ACTUAL COSTS PREDICTED												12. COST PLANNED PREDICTED				
		90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10
13. ACCURRED COSTS		CI PLANNED	8	8	8	8	8	8	8	9	9	9	9	100	14. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
		CI ACTUAL	10	7											17	N/A		
REMARKS		EI VARIANCE	-2	1											N/A			
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										16. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

III: PLANNING

III2: Program/Budget Planning and Management

OBJECTIVE

Provide a plan to:

- Implement the AFR Spent Fuel Storage Program
- Manage funding allocated to the program
- Direct technical effort to achieve the program goals

ACTIVITY STATUS

- .1 Program Plans. The revised version of the AFR program plan was submitted to DOE/SR on November 26.
- .2 Budget Reports. The additional \$10 million 79-1-P appropriations have been released; therefore, budget data included in the revised program plan are valid.

An AFR Program field summary budget estimate will be provided to support the FY 83 DOE Planning, Programming, and Budget System (PPBS) effort. The data, in final form, will be submitted to DOE/SR in December 10.

- .3 Steering. The AFR program monthly review meeting will be held at DOE/HQ on December 10 and 11.

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

PAGE 1 OF 1

1. CONTRACT IDENTIFICATION PROGRAM/BUDGET PLANNING & MANAGEMENT												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80			3. CONTRACT NUMBER 1112.			
4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA												5. CONTRACT START DATE 1 APRIL 79			6. CONT. COMPLETION DATE INDEFINITE			
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE				
		1	2	3	4	0	N	D	J	F	M	A	M		J	J	A	S
1	PROGRAM PLANS	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	0
2	BUDGET REPORTS	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	0
3	STEERING	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	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 PROGRAM/BUDGET PLANNING & MANAGEMENT												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80			3. CONTRACT NUMBER 1112.			
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER PLANT 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																		
10. BUDGET NUMBERS THOUSANDS	2250																	11. COST PLAN DATE 16 DEC 80
	2125																	12. PLANNED COSTS PRIOR FY'S
	2000																	N/A
	1875																	13. ACTUAL COSTS PRIOR FY'S
	1750																	N/A
	1625																	14. TOTAL ESTIMATE FY COSTS FOR CONTRACT
	1500																	3481
	1375																	KI TOTAL CONTRACT VALUE
	1250																	N/A
	1125																	15. UNFILLED ORDERS OUTSTANDING
1000																	N/A	
875																	16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
750																	N/A	
625																	17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE	
500																	18. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE	
375																		
250																		
125																		
0																		
19. REMARKS																		
CONFLICT - FINANCIAL PLAN IS 2391 FY ESTIMATE IS 3481																		

III: PLANNING

III.3: Business Services Support

OBJECTIVE

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

ACTIVITY STATUS

- .1 Facility Value. The study on facility value is to be issued as an individual report which does not include a section on Fair Market Values. A revised schedule and outline were issued. The draft of the study will be available for review by the end of December, as scheduled.
- .3 Business Operations Support. A revised date for congressional authorization to sign utility contracts, collect fees and take title to spent fuel has been established. Following revisions to and acceptance of the draft program plan, work will continue for the update of the Business Management Plan.

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

1. CONTRACT IDENTIFICATION BUSINESS SERVICES SUPPORT												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1113.																																
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA												5. CONTRACT START DATE 1 APR 79		6. CONTRACT COMPLETION DATE CONTINUING																																
7. MONTHS O N D J F M A M J J A S												ALL FUNDING																																		
												TOTALS		8. FY 81																																
9. COST STATUS																																														
<table border="1"> <tr> <td rowspan="10" style="vertical-align: middle; text-align: center;"> AI THOUSANDS BI: B AND R NUMBERS ALL </td> <td rowspan="10" style="vertical-align: middle; text-align: center;"> </td> <td colspan="12"> GI COST PLAN DATE 16 DEC 80 HI PLANNED COSTS PRIOR FY'S N/A II ACTUAL COSTS PRIOR FY'S N/A JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 75 KI TOTAL CONTRACT VALUE N/A LI UNFILLED ORDERS OUTSTANDING N/A </td> </tr> <tr><td>90</td></tr> <tr><td>85</td></tr> <tr><td>80</td></tr> <tr><td>75</td></tr> <tr><td>70</td></tr> <tr><td>65</td></tr> <tr><td>60</td></tr> <tr><td>55</td></tr> <tr><td>50</td></tr> <tr><td>45</td></tr> <tr><td>40</td></tr> <tr><td>35</td></tr> <tr><td>30</td></tr> <tr><td>25</td></tr> <tr><td>20</td></tr> <tr><td>15</td></tr> <tr><td>10</td></tr> <tr><td>5</td></tr> <tr><td>0</td></tr> </table>														AI THOUSANDS BI: B AND R NUMBERS ALL		GI COST PLAN DATE 16 DEC 80 HI PLANNED COSTS PRIOR FY'S N/A II ACTUAL COSTS PRIOR FY'S N/A JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 75 KI TOTAL CONTRACT VALUE N/A LI UNFILLED ORDERS OUTSTANDING N/A												90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0
AI THOUSANDS BI: B AND R NUMBERS ALL		GI COST PLAN DATE 16 DEC 80 HI PLANNED COSTS PRIOR FY'S N/A II ACTUAL COSTS PRIOR FY'S N/A JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 75 KI TOTAL CONTRACT VALUE N/A LI UNFILLED ORDERS OUTSTANDING N/A																																												
		90																																												
		85																																												
		80																																												
		75																																												
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35																																														
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25																																														
20																																														
15																																														
10																																														
5																																														
0																																														
ACCURRED COSTS		DI PLANNED 6 6 6 6 6 6 6 6 7 7 7 7 75 DI ACTUAL 10 8 18 EI VARIANCE -4 -2 FI CUM. VARIANCE -4 -6												MI 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																																					

III: PLANNING

1114: Contract Services Support

OBJECTIVE

Provide contract services for the AFR program.

ACTIVITY STATUS

.1 Contract Services. A letter contract with Boeing Engineering and Construction Company (BEC) was executed on November 6. The letter contract authorizes BEC work through December 31 with authorization for expenditures up to a maximum of \$400,000.

A Request for Proposal (RFP) has been sent to several firms for technical support service in developing Fuel Acceptance Criteria. A fixed price subcontract for under \$10,000 is planned for this work.

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SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION CONTRACT SERVICES SUPPORT												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1114.	
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA												5. CONTRACT START DATE 1 APR 79			
6. CONTRACT COMPLETION DATE CONTINUING															
7. MONTHS	O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	b. FY 81	
8. COST STATUS															
a) THOUSANDS	45												ci) COST PLAN DATE 16 DEC 80		
	43												hi) PLANNED COSTS PRIOR FY3		
	40												n/a		
	38												ii) ACTUAL COSTS PRIOR FY3		
	35												n/a		
	33												jj) TOTAL ESTIMATE FY COSTS FOR CONTRACT		
	30												kk) TOTAL CONTRACT VALUE		
	28												n/a		
	25												li) UNFILLED ORDERS OUTSTANDING		
	23												n/a		
b) B RAND R NUMBERS	20														
ALL	18														
15															
13															
10															
8															
5															
3															
0															
ACCURRED COSTS	ci) PLANNED	3	4	4	4	4	4	4	4	4	4	4	mm) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
	di) ACTUAL	0	0									0			
	ei) VARIANCE	3	4												
	fi) CUM. VARIANCE	3	7										n/a		
REMARKS															
CONFLICT - FINANCIAL PLAN IS 47 FY ESTIMATE IS 50															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

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.
- Determine the amount of fuel to be shipped to a potential AFR.
- 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.
- 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.
- Calculate the number of fuel casks needed in any given year to transport the spent fuel.

ACTIVITY STATUS

- .3.1 Incorporating Transportation Logistics Model. The transportation library was incorporated into DISFUL. Successful test runs have been made and this model will be used to determine cask requirements for the storage logistics report.
- .3.2 Uncommitted Reactor Discharges. Reactors not committed by utilities were incorporated into the DISFUL code 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, both nationwide and in each NERC region, were included. Initial discrepancies in the NERC region affiliation of reactors have been resolved.
- .3.13 Update Data Base. The DISFUL data base has been updated and debugged. Quality assurance checks are in progress. Preliminary DISFUL calculations have been made using the updated data base.

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SAVANNAH RIVER OPERATIONS OFFICE
MILESTONE SCHEDULE AND STATUS REPORT

1. CONTRACT IDENTIFICATION STORAGE LOGISTICS			2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 11212					
4. CONTRACTOR NAME, ADDRESS S. M. STOLLER CORP. NEW YORK NEW YORK															5. CONTRACT START DATE 20 JUNE 78					
7. IDENT NUMBER			8. REPORTING CATEGORY			9. FISCAL YEARS FY 1980			FY 1981						FY 1982			10. PERCENT COMPLETE 83 84 85		
						1 2 3 4			B N D J F M A M J J R S						1 2 3 4					
. 1 PROVIDE COMPUTER COD																		100		
. 2 PROVIDE STORAGE LOGI																		67		
. 3 EXPAND CODE AND UPDA																		55		
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 STORAGE LOGISTICS			2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 11212						
4. CONTRACTOR NAME AND ADDRESS S. M. STOLLER CORP. NEW YORK NEW YORK															5. CONTRACT START DATE 20 JUN 78						
6. CONTRACT COMPLETION DATE CONTINUING																					
7. MONTHS			O	N	D	J	F	M	A	M	J	J	R	S		TOTALS			8. FY 81		
9. COST STATUS																					
RI			10. COST PLAN DATE 16 DEC 80												11. ACTUAL COSTS PRIOR FTS N/A						
			12. PLANNED COSTS PRIOR FTS N/A																		
B1 B AND R NUMBERS			13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 233												14. TOTAL CONTRACT VALUE N/A						
			15. UNFILLED ORDERS OUTSTANDING N/A																		
ACCURED COSTS			16. PLANNED	43	25	20	0	0	0	0	0	0	0	0	0	88	17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A				
			17. ACTUAL	0	0															0	
			18. VARIANCE	43	25																
			19. CUM. VARIANCE	43	68																
REMARKS																					
CONFLICT - FINANCIAL PLAN IS 88 FY ESTIMATE IS 233																					
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE									14. 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 documenting the literature research on costs of alternative spent fuel storage techniques was transmitted to the facility acquisition task force. The report included a new cost estimate for a facility for storing casks containing spent fuel. The report concluded that, for up to 38,000 MTU of spent fuel, water basin storage is the most economical technique for a short time (approximately 20 years). Dry storage may be more economical for extended periods (50 to 100 years).

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1. CONTRACT IDENTIFICATION ECONOMIC ASSISTANCE		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1122 .												
4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA														5. CONTRACT START DATE 1 SEPTEMBER 79												
7. IDENT. NUMBER		8. REPORTING CATEGORY		9. FISCAL YEARS				FY 1981				FY 1982				10. PERCENT COMPLETE										
				FY 1980												83	84	85								
. 1	ESTIMATE RERACKING C			1	2	3	4	0	N	0	J	F	M	A	M	J	J	A	S	1	2	3	4		100	
. 2	DETERMINE RESIDUAL V																									10
. 3	CONDUCT STUDIES FOR																									0
. 4	SUPPORTING STUDIES F																									100
. 5	SUPP STUDIES FOR TTS																									50
				</td																						

U. S. DEPARTMENT OF ENERGY
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CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION ECONOMIC ASSISTANCE		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1122.												
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA		5. CONTRACT START DATE 1 SEP 79		6. CONTRACT COMPLETION DATE 31 OCT 82												
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY	19
9. COST STATUS																
10. THOUSANDS														11. COST PLAN DATE 16 DEC 80		
														12. PLANNED COSTS PRIOR FYS N/A		
13. B AND R NUMBERS														14. ACTUAL COSTS PRIOR FYS N/A		
														15. TOTAL ESTIMATE FY COSTS FOR CONTRACT 100		
16. ALL														17. TOTAL CONTRACT VALUE N/A		
														18. UNFILLED ORDERS OUTSTANDING N/A		
19. ACCURED COSTS		20. PLANNED	21. ACTUAL	22. VARIANCE	23. CUM. VARIANCE	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.
REMARKS																
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE																
16. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																

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

No activity to report.

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1. CONTRACT IDENTIFICATION LICENSING SUPPORT												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		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		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
RI THOUSANDS B1 B AND R NUMBERS ALL														10. COST PLAN DATE 16 DEC 80		11. PLANNED COSTS PRIOR FYS N/A	
														12. ACTUAL COSTS PRIOR FYS N/A		13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 50	
														14. TOTAL CONTRACT VALUE N/A		15. UNFILLED ORDERS OUTSTANDING N/A	
16. ACCURRED COSTS		CI PLANNED	4	4	4	4	4	4	4	4	4	5	5	17. ESTIMATE FOR SUBSEQUENT CONTRACTING PERIOD 0			
		DI ACTUAL	0	0										18. REMARKS N/A			
19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE														20. 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

- .2 Identification of Public Concerns. A review of hearing transcripts of Congressional committees involved in developing bills relating to the design and construction of AFR storage was continued to further identify public concerns. Preparation of a draft final report also continued.

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1. CONTRACT IDENTIFICATION GENERAL ASSISTANCE												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 11241.			
4. CONTRACTOR (NAME AND ADDRESS) E. R. JOHNSON ASSOCIATES, INC VIENNA VIRGINIA												5. CONTRACT START DATE 12 FEB 79					
6. CONTRACT COMPLETION DATE 15 NOV 80												7. MONTHS O N D J F M A M J J A S		8. FT 81			
												TOTALS					
9. COST STATUS																	
A) THOUSANDS														C) COST PLAN DATE 16 DEC 80			
45														D) PLANNED COSTS PRIOR FY'S N/A			
43														E) ACTUAL COSTS PRIOR FY'S N/A			
40														F) TOTAL ESTIMATE FY COSTS FOR CONTRACT 100			
38														G) TOTAL CONTRACT VALUE N/A			
35														H) UNFILLED ORDERS OUTSTANDING N/A			
33														I) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A			
30																	
28																	
25																	
23																	
20																	
18																	
15																	
13																	
10																	
8																	
5																	
3																	
0																	
B) B AND R NUMBERS																	
ALL																	
ACCURED COSTS														C) PLANNED 0 0 0 0 0 0 0 0 0 0 0 0		D) ACTUAL 0 0	
														E) VARIANCE 0 0		F) CUM. VARIANCE 0 0	
REMARKS																	
CONFICT - FINANCIAL PLAN IS 0 FY ESTIMATE IS 100																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE					

113: FEE

113l: 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. The Draft Topical Report will consist of a base fee calculation and various sensitivity cases with comments on the selected fee methodology. The report, originally due January 1981, has been rescheduled to June 1981 due to a change in updated storage requirements and the effect on the number of facilities, timing, and cost. Work continues on a draft of the methodology description section of the Topical Report.

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1. CONTRACT IDENTIFICATION		FEE METHODOLOGY		2. REPORTING PERIOD		3. CONTRACT NUMBER														
4. CONTRACTOR (NAME, ADDRESS)		BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON		01 NOV 80 THROUGH 30 NOV 80		1131														
7. IDENT. NUMBER		8. REPORTING CATEGORY		9. FISCAL YEARS		5. CONTRACT START DATE														
				FY 1980		15 FEBRUARY 80														
				FY 1981		6. CONT. COMPLETION DATE														
				FY 1982		INDEFINITE														
				83	84	85	10. PERCENT COMPLETE													
				1	2	3	4													
. 1		COMPUTER CODE: CASH		0	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4	100
. 2		PREPARE FINAL REPORT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 3		PREPARE FEE CALCULAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 4		SELECT NEW FEE METHO		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 5		CALCULATE FEE WITH V		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 6		DRAFT TOPICAL REPORT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 7		TOPICAL REPORT ON FE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 8		ANNUAL FEE CALCULATI		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		FEE METHODOLOGY		2. REPORTING PERIOD		3. CONTRACT NUMBER													
4. CONTRACTOR (NAME AND ADDRESS)		BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON		01 NOV 80 THROUGH 30 NOV 80		1131.													
5. CONTRACT START DATE		15 FEB 80		6. CONTRACT COMPLETION DATE		CONTINUING													
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS	B. FY	81			
8. COST STATUS																			
A1 THOUSANDS															G1 COST PLAN DATE				
															90	85	80	75	70
B1 B AND R NUMBERS															H1 PLANNED COSTS PRIOR FYS				
															90	85	80	75	70
ALL															I1 ACTUAL COSTS PRIOR FYS				
															90	85	80	75	70
C1 PLANNED															J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT				
															90	85	80	75	70
D1 ACTUAL															K1 TOTAL CONTRACT VALUE				
															90	85	80	75	70
E1 VARIANCE															L1 UNFULFILLED ORDERS OUTSTANDING				
															90	85	80	75	70
F1 CUM. VARIANCE															M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD				
															90	85	80	75	70
REMARKS															14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE				
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

II3: FEE

II32: 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 depends on obtaining revised AFR storage requirements and estimates of facility acquisition values.

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1. CONTRACT IDENTIFICATION FEE UPDATE				2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1132						
4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA																5. CONTRACT START DATE 1 OCTOBER 78						
																6. CONT. COMPLETION DATE INDEFINITE						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS				FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE				
		FY 1980	FY 1981	FY 1982	83	84	85															
1	PREP INPT ON FEE & M	1	2	3	4	0	N	0	J	F	M	A	M	J	J	A	S	1	2	3	4	
2	CONT 2ND CONG REPT S																					100
3	DRAFT FEE REPORT																					25
4	FINAL FEE REPORT																					0
5	FEE UPDATE - 1982																					0
6	ANNUAL FEE UPDATE																					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 FEE UPDATE				2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1132																		
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA				ALL FUNDING												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	B. FY	81																	
8. COST STATUS																																		
B1 B AND R NUMBERS																GI COST PLAN DATE 16 DEC 80																		
																HI PLANNED COSTS PRIOR FYS N/A																		
																II ACTUAL COSTS PRIOR FYS N/A																		
																JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 50																		
																K1 TOTAL CONTRACT VALUE N/A																		
																LI UNFILLED ORDERS OUTSTANDING N/A																		
																MI 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		

115: PROGRAM MANAGEMENT

115l: Information Services

OBJECTIVE

Provide information services for the AFR program.

ACTIVITY STATUS

.3 Information Services. The following documents were published:

- DPSP-AFR-80-1-10, AFR Program October Monthly Report, DOE/SRSF -- 2005-10.
- DPSP-AFR-80-8-18, Draft Spent Fuel Storage and Disposal Contract Between DOE and Fuel Owner, November 1980.

Assistance was given in coordinating, editing, and publishing a summary of public comments received for the draft environmental impact statement for AFR spent fuel program.

The draft version of the spent fuel film prepared by Sandia Laboratories was reviewed and edited in a group meeting with DOE. The Sandia film group will produce a revised version for another review.

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1. CONTRACT IDENTIFICATION INFORMATION SERVICES		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1151.												
4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA														5. CONTRACT START DATE 1 OCTOBER 79												
7. IDENT. NUMBER		8. REPORTING CATEGORY		9. FISCAL YEARS FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE										
				1	2	3	4	0	N	D	J	F	M	A	M	J	J	R	S	1	2	3	4	83	84	85
. 1 SPENT FUEL FILM REPO																										0
. 2 PUBLISH DOCUMENT PLA																										0
. 3 DEVELOP INFORMATION																										0
. 4 PROVIDE INFORMATION																										0

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. The work breakdown structure and the critical milestones for the program were modified.
- .4 Program Planning and Reporting. The Program Plan was revised; a complete draft was submitted to SR for approval.

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1. CONTRACT IDENTIFICATION MANAGEMENT SYSTEMS		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1152.					
4. CONTRACTOR (NAME AND ADDRESS) VIRGINIA POLYTECHNIC INSTITUTE AND S. U. AIKEN SOUTH CAROLINA		ALL FUNDING												5. CONTRACT START DATE 17 MAY 77					
7. MONTHS		G	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81			
9. COST STATUS																			
A) THOUSANDS														G) COST PLAN DATE 16 DEC 80		H) PLANNED COSTS PRIOR FYS			
450 425 400 375 350 325 300 275 250 225 200 175 150 125 100 75 50 25 0														I) ACTUAL COSTS PRIOR FYS		N/A			
B) B AND R NUMBERS ALL														J) TOTAL ESTIMATE FY COSTS FOR CONTRACT		N/A			
														K) TOTAL CONTRACT VALUE		245			
														L) UNFILLED ORDERS OUTSTANDING		N/A			
														M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		N/A			
ACCURED COSTS		CI) PLANNED 15	15	15	15	15	15	16	16	16	16	16	185	O) CUM. VARIANCE 15		P) CUM. VARIANCE 21			
		DI) ACTUAL 0	21											EI) VARIANCE 15		FI) CUM. VARIANCE 9			
REMARKS																			
CONFLICT - FINANCIAL PLAN IS 185 FY ESTIMATE IS 245																			
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE																14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

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 Du Pont responsible for handling and storage. Sandia will arrange production and filming.

ACTIVITY STATUS

- 4 Produce Film. The preliminary draft of the Spent Fuel Film was reviewed at DOE/HQ. Comments are being incorporated into the film, and a draft revision of the film will be ready for review in mid-December.

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1. CONTRACT IDENTIFICATION SPENT FUEL FILM		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1153						
4. CONTRACTOR (NAME, ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO														5. CONTRACT START DATE 1 OCTOBER 79						
														6. CONT. COMPLETION DATE 30 JANUARY 81						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE						
		1	2	3	4	D	N	D	J	F	M	A	M		J	J	A	S	83	84
1	PREPARE SCRIPT & INT																	100		
2	FINAL INTERLOCK VERS																	0		
3	COMPLETE FILM																	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 SPENT FUEL FILM		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1153				
4. CONTRACTOR (NAME AND ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO		ALL FUNDING												5. CONTRACT START DATE 1 OCT 79				
6. CONTRACT COMPLETION DATE 30 JAN 81																		
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81		
9. COST STATUS																		
A) THOUSANDS		45													G) COST PLAN DATE 16 DEC 80			
		43													H) PLANNED COSTS PRIOR FYS N/A			
B) B AND R NUMBERS		40													I) ACTUAL COSTS PRIOR FYS N/A			
		38													J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 20			
ALL		35													K) TOTAL CONTRACT VALUE N/A			
		33													L) UNFILLED ORDERS OUTSTANDING N/A			
ACCURED COSTS		30													M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD 0			
		28													N/A			
REMARKS		CL PLANNED	5	5	5	5	0	0	0	0	0	0	0	0	20			
		DI ACTUAL	5	-5											0			
		EI VARIANCE	0	10														
		FI CUM. VARIANCE	0	10														
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

116: QUALITY ASSURANCE

1163: DOE QA Program and Audits

OBJECTIVES

Assist DOE/SR in developing a QA program.

Provide support by preparing a documented QA program with procedures for implementation and assist in audits of programs and projects.

ACTIVITY STATUS

No activity to report.

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1. CONTRACT IDENTIFICATION DOE QA PROGRAM AND AUDIT		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1163.						
4. CONTRACTOR (NAME, ADDRESS) HANFORD ENGINEERING DEVELOPMENT LABORATORY RICHLAND WASHINGTON														5. CONTRACT START DATE 1 JUNE 80						
														6. CONT. COMPLETION DATE 30 SEPTEMBER 80						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE						
		1	2	3	4	0	N	D	J	F	M	A	M		J	J	R	S	1	2
. 1	PREP 1ST DRAFT DOE/S																			70
. 2	PREPARE OUTLINE OF 1																			30
. 3	COMPLETE QA PROGRAM																			30
. 4	COMPLETE IMPLEMENTIN																			0
. 5	ASSIST WITH QA AUDIT																			40
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 DOE QA PROGRAM AND AUDIT		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1163.						
4. CONTRACTOR (NAME AND ADDRESS) HANFORD ENGINEERING DEVELOPMENT LABORATO RICHLAND WASHINGTON		ALL FUNDING												5. CONTRACT START DATE 1 JUN 80						
														6. CONTRACT COMPLETION DATE 30 SEP 80						
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S		TOTALS		B. FY	81		
8. COST STATUS																				
90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0		10. COST PLAN DATE 16 DEC 80																		
		11. PLANNED COSTS PRIOR FYS N/A																		
100 90 80 70 60 50 40 30 20 10 0		12. ACTUAL COSTS PRIOR FYS N/A																		
		13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 100																		
100 90 80 70 60 50 40 30 20 10 0		14. TOTAL CONTRACT VALUE N/A																		
		15. UNFILLED ORDERS OUTSTANDING N/A																		
100 90 80 70 60 50 40 30 20 10 0		16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A																		
		17. CUM. VARIANCE 16																		
REMARKS																				
18. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										19. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE										

I17: PUBLIC AND GOVERNMENTAL RELATIONS

I172: 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

.4 Program Management and Workshops. The first of two scheduled workshops was held in Atlanta on November 5 and 6. Some 60 persons, representing state and local government agencies and organizations in the SSEB region, participated. Constructive input was obtained on each of the major elements of the project: (1) socio-economic and institutional barriers, (2) monitoring transport of radioactive materials, and (3) emergency response planning for radioactive materials transportation accidents. A Proceedings report will be sent to each participant.

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INSTITUTIONAL TRANSPORT IMPEDIMENTS										2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1172.			
4. CONTRACTOR (NAME AND ADDRESS) SOUTHERN STATES ENERGY BOARD ATLANTA GEORGIA										5. CONTRACT START DATE 26 SEP 79					
6. CONTRACT COMPLETION DATE 25 DEC 81															
7. MONTHS		G	N	D	J	F	M	A	M	J	J	A	S	ALL FUNDING	
8. COST STATUS		TOTALS S. FY 81													
9. A		GI COST PLANNED DATE 16 DEC 80													
THOUSANDS		HI PLANNED COSTS PRIOR FYS N/A													
10. B AND R NUMBERS		II ACTUAL COSTS PRIOR FYS N/A													
ALL		JI TOTAL ESTIMATE FOR COSTS FOR CONTRACT 163													
11. KI TOTAL CONTRACT VALUE N/A		KJ UNFILLED ORDERS OUTSTANDING N/A													
12. LI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		LJ CUM. VARIANCE 185													
13. ACCURED COSTS		10 10 15 15 15 15 15 15 15 20 20 20 185 9 29 1 -19 1 -18 38													
REMARKS															
CONFlict - FINANCIAL PLAN IS 185 FY ESTIMATE IS 163															
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							16. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

117: PUBLIC AND GOVERNMENTAL RELATIONS

1175: NRC Rulemaking

OBJECTIVES

Provide DOE with technical support services in the area of NRC rulemaking on storage/disposal of nuclear wastes by:

- Providing backup information
- Developing response to questions
- Developing testimony concerning the DOE position on confidence and waste disposal

ACTIVITY STATUS

No activity to report.

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1. CONTRACT IDENTIFICATION NRC RULEMAKING				2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1175							
4. CONTRACTOR (NAME, ADDRESS) E. R. JOHNSON ASSOCIATES, INC VIENNA VIRGINIA																5. CONTRACT START DATE 1 JUNE 80							
																6. CONT. COMPLETION DATE 31 DECEMBER 80							
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS FY 1980				FY 1981								FY 1982			83	84	85	10. PERCENT COMPLETE			
		1	2	3	4	0	N	D	J	F	M	A	M	J	J	A	S	1	2		3	4	
1	DEV INFO FOR DOE POS					V																	5
2	DEV RESP TO Q'S FOR					V																	0
3	DEV TEST FOR DOE POS					V																	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 NRC RULEMAKING				2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1175			
4. CONTRACTOR (NAME AND ADDRESS) E. R. JOHNSON ASSOCIATES, INC VIENNA VIRGINIA				ALL FUNDING												5. CONTRACT START DATE 1 JUN 80			
																6. CONTRACT COMPLETION DATE 31 DEC 80			
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S		TOTALS	8. FY 81			
9. COST STATUS																			
B) B AND R NUMBERS THOUSANDS		90														G) COST PLAN DATE 16 DEC 80			
		85															H) PLANNED COSTS PRIOR FYS N/A		
		80															I) ACTUAL COSTS PRIOR FYS N/A		
		75															J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 76		
		70															K) TOTAL CONTRACT VALUE N/A		
		65															L) UNFILLED ORDERS OUTSTANDING N/A		
		60															M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		55																	
		50																	
		45																	
ALL		40																	
		35																	
		30																	
		25																	
RECCURED COSTS		20																	
		15																	
		10																	
		5																	
		0																	
C) PLANNED		47	15	14	0	0	0	0	0	0	0	0	0	0	76				
D) ACTUAL		33	0												33				
E) VARIANCE		14	15																
F) CUM. VARIANCE		14	29																
REMARKS																			
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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. The new Independent Spent Fuel Storage Installation requirements, 10 CFR 72, were published on November 12. The new regulation was compared to the Morris Operation licensing documents to ensure that the SAR and other licensing documents conformed to all applicable new requirements. All questionable items were noted and plans for bringing them into conformance were presented to NRC licensing and legal representatives on November 30. The NRC indicated no problems with the plan as presented. Draft licensing documents will be produced when changes resulting from 10 CFR 72 and from ownership nomenclature changes have been integrated into the documents. Design familiarization is continuing as a prerequisite to preparation of a license amendment application for the high density storage system and the cask handling station.
- .2.1 High-Density Storage System. Effort continued to develop preliminary fabrication drawings for the corner-latched, 22-inch-square BWR/PWR fuel storage baskets, the supporting grid structures, and the slifer-pad assemblies.

Criticality calculations which indicate that a single PWR fuel bundle can be safely placed adjacent to a "most reactive" loaded PWR basket ($k_{eff} = 0.935$) have been made. Separate calculations to determine "criticality" potential in a basket tip accident have also been made. The calculations indicate that during the accident PWR fuel elements should not extend more than 12 inches beyond the Boral poison in the basket. Therefore, a basket cap will be included in the design to ensure safety in case of a tip-over accident during basket movement.

Stress analysis for the support grids was completed and an internal report which presents the engineering calculations was issued. A "watermass computer program" was run to determine the water forces generated on Basins 1 and 2 basket-grid systems during an earthquake. Similar studies are currently being made for the add-on basin system.

- .2.2 Cask Handling Station. Twelve drawings have been completed and will be informally reviewed during December. One of the drawings is for the top spray header of the cask decontamination station and the other 11 are plan, elevation, and section drawings for the modified cask receiving-handling structure. Plans for realignment of the railroad system to permit routing of a second track into the new cask unloading system were completed.

Work on equipment arrangement drawings for the cask decontamination station and on piping design for the cask preparation stations continued.

- .2.3 Radwaste Treatment Facility. A preliminary design for the LAW vault evaporator system has been prepared. This system would replace the current evaporator system if it were necessary to remove it from the Morris canyon to permit dry storage of fuel in the process cells. Estimates of replacement evaporator costs are to be made.
- .2.4 Cask Handling Interface. Work on the preparation of draft operating procedures for handling of the NLI-1/2 and TN-8/9 casks at Morris Operation (MO) continued. Hardware requirements have been identified, as have items requiring modification or redesign for use at MO. Similar work is in progress for the NLI-10/24 cask.

General Electric has registered as a user for the NLI-1/2 and has received a copy of the SAR.

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I22: BARNWELL ACQUISITION

I222: 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

- .1 Facility Modifications. Bechtel. The soils report was completed by Law Engineering and transmitted to AGNS on November 25. Bechtel will review the findings with their soils consultant before issuing their cover report to AGNS. The draft report to DOE is due in December.
- .2 Rack Design. The feasibility study for the universal movable rack design for assembled/disassembled fuel was completed. The concept was reviewed by DOE; the design will be proposed for all pool areas.

A meeting was held with GE, NUS, and DOE/Du Pont to agree upon a common basis for rack designs for all three facilities. Some differences in approach were noted, especially in assumed enrichment levels and design basis geometry of fuel elements. DOE will review the criteria and advise of any changes.

- .3 Security System. All security documents are still under internal review.
- .4 Licensing Documentation. The full internal review and revision of the AGNS Environmental Report was completed (excluding sections 8.0, 9.0, 10.0, and 11.0).

Six sections of the ASAR preliminary draft were circulated for internal review and comment.

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1. CONTRACT IDENTIFICATION PRELICENSING ACTIVITIES - BARNWELL		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1222																						
4. CONTRACTOR (NAME, ADDRESS) ALLIED GENERAL NUCLEAR SERVICES BARNWELL SOUTH CAROLINA				5. CONTRACT START DATE 28 SEPTEMBER 79																						
				6. CONT. COMPLETION DATE 30 JUNE 81																						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS FY 1980		FY 1981		FY 1982		10. PERCENT COMPLETE																		
		1	2	3	4	0	N	D	J	F	M	A	M	J	J	R	S	1	2	3	4	83	84	85		
1	LICENSING REPORT																							65		
2	ENGINEERING & DESIGN																							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 PRELICENSING ACTIVITIES - BARNWELL		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1222																			
4. CONTRACTOR (NAME AND ADDRESS) ALLIED GENERAL NUCLEAR SERVICES BARNWELL SOUTH CAROLINA				5. CONTRACT START DATE 28 SEP 79																			
				6. CONTRACT COMPLETION DATE 30 JUN 81																			
7. MONTHS	O	N	D	J	F	M	A	M	J	J	R	S	TOTALS	B. FY	81								
9. COST STATUS																							
A) THOUSANDS	450																					16 DEC 80	
	425																					N/A	
	400																					II ACTUAL COSTS PRIOR FYS	
	375																					N/A	
	350																					III TOTAL ESTIMATE FY COSTS FOR CONTRACT	
	325																					2233	
	300																					IV TOTAL CONTRACT VALUE	
	275																					N/A	
B) B AND R NUMBERS		250																				VI UNFILLED ORDERS OUTSTANDING	
ALL		225																				N/A	
		200																				VI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
		175																				N/A	
		150																				VI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
		125																				N/A	
		100																				VI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
		75																				N/A	
		50																				VI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
		25																				N/A	
		0																				VI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
ACCURED COSTS		CI PLANNED	100	100	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	233	
		DI ACTUAL	82	100																			182
		EI VARIANCE	18	0																			N/A
		FI CUM. VARIANCE	18	18																			N/A
REMARKS		CONFFLICT - FINANCIAL PLAN IS 233 FY ESTIMATE IS 2233																					
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE											

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. A Congressional Report requested by the Interstate and Foreign Commerce Committee of the U.S. House of Representatives was to address the economic evaluation and costs in the acquisition of three existing commercial spent fuel storage facilities (MO, BNFP, and WYNNSC). This report will now address only the initial acquisition discussions with the owners. The Government's involvement in the purchase of privately owned facilities for Amtrak and the strategic petroleum reserve was researched to obtain background information.

A venture analysis report is being prepared to aid in determining the fair market value of the three facilities. The economic evaluation study for this report includes an evaluation of several alternatives to acquiring AFR's such as the dry storage concept in casks, caissons, and galleries.

A preliminary assessment of the acquisition of selected portions of MO, MMFP, and WYNNSC for AFR spent fuel storage was made. This assessment confirmed DOE's assumption that virtually the entire site at each location should be acquired to avoid significant impediments to the licensing and operation of the spent fuel storage facilities as well as legal problems such as liability and indemnity.

An outline for the Acquisition Project Plan was prepared and drafting of the plan is in progress.

Brief descriptions of the site and facilities at MO, BNFP, and WYNNSC were prepared for the U.S. Corps of Engineers to use in discussions with appraisers.

Information on gallery storage of spent fuel was prepared for a briefing of the U.S. House of Representatives Committee on Science and Technology. The information included data on the dry storage concept and estimated costs for MO, availability of hot cell facilities at E-MAD for demonstration studies, and a description of spent fuel encapsulation development work at E-MAD being supported by ONWI.

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1. CONTRACT IDENTIFICATION ACQUISITION MANAGEMENT		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1291																						
4. CONTRACTOR NAME, ADDRESS E. I. DU PONT DE NEMOURS AND CO. (INC.) AIKEN SOUTH CAROLINA				5. CONTRACT START DATE 1 SEPTEMBER 80																						
				6. CONT. COMPLETION DATE INDEFINITE																						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS																								
		FY 1980		FY 1981		FY 1982																				
		1	2	3	4	0	N	D	J	F	M	A	M	J	J	R	S	1	2	3	4	83	84	85	10. PERCENT COMPLETE	
1	APPRAISER SELECTION																									0
2	NEGOTIATION																									0
3	CONDEMNATION PROCEED																									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 ACQUISITION MANAGEMENT		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1291																							
4. CONTRACTOR NAME AND ADDRESS E. I. DU PONT DE NEMOURS AND CO. (INC.) 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	R	S			TOTALS	8. FY 81											
9. COST STATUS																											
B1 THOUSANDS	B1 AND R NUMBERS	900																								61 COST PLAN DATE 16 DEC 80	
		850																									62 PLANNED COSTS PRIOR FYS N/A
		800																									63 ACTUAL COSTS PRIOR FYS N/A
		750																									64 TOTAL ESTIMATE FY COSTS FOR CONTRACT 720
		700																									65 TOTAL CONTRACT VALUE N/A
		650																									66 UNFILLED ORDERS OUTSTANDING N/A
		600																									67 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A
		550																									68
		500																									69
		450																									70
400																									71		
350																									72		
300																									73		
250																									74		
200																									75		
150																									76		
100																									77		
50																									78		
0																									79		
ACQUIRED COSTS		CI PLANNED	43	51	54	53	63	63	65	64	64	67	66	67	67	67	67	67	67	67	67	67	67	67	720		
		DI ACTUAL	35	48																						83	
		EI VARIANCE	8	9																							
		FI CUM. VARIANCE	8	11																							
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. A preliminary working draft was released on November 21 for review at ANL, by all contributing organizations and by the operators of the three existing candidate AFR storage facilities.

Comments on the scope of the EIS contained socio-economic questions which are not addressed in the current working draft. Efforts to incorporate these issues in a revised draft are underway, but this additional task will not be completed by December 16 when the DEIS will be sent to DOE/HQ for an initial review. Other substantive responses to the Notice of Intent are being evaluated and appropriate modifications in the form and content of the DEIS are planned.

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1. CONTRACT IDENTIFICATION AFR-EIS (ANL)		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												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 FY 1980				FY 1981				FY 1982				83	84	85	10. PERCENT COMPLETE			
		1	2	3	4	0	N	D	J	F	M	A	M					J	J	A
. 1	INITIATE AFR-EIS																	100		
. 2	INCLUDE FINAL SITE R																	100		
. 3	NOI - NEAR TERM																	100		
. 4	COMPLT DRAFT OF NR-TR					△				○				△				50		
. 5	NOTICE OF DEIS AND H									▽								0		
. 6	PUBLIC COMMENT									▽								0		
. 7	COR LST HRNG & CMPLT									△				△				0		
. 8	NOTICE OF AVAILABILITY													▽				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 AVAILABILITY													▽				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 AFR-EIS (ANL)		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1312			
4. CONTRACTOR (NAME AND ADDRESS) ARGONNE NATIONAL LABORATORY		ALL FUNDING												5. CONTRACT START DATE 1 OCT 79			
														6. CONTRACT COMPLETION DATE 1 MAY 84			
7. MONTHS		0	N	0	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
AI														G1 COST PLAN DATE 16 DEC 80			
														H1 PLANNED COSTS PRIOR FY'S			
THOUSANDS														N/A			
														II ACTUAL COSTS PRIOR FY'S			
BI B AND R NUMBERS														N/A			
														JI TOTAL ESTIMATE FY COSTS FOR CONTRACT			
ALL														370			
														K1 TOTAL CONTRACT VALUE			
C1 PLANNED														N/A			
														LI UNFILLED ORDERS OUTSTANDING			
ACCURED COSTS		30	30	30	30	30	30	30	30	35	35	30	30	370	N/A		
D1 ACTUAL		15	-15											0	M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
E1 VARIANCE		15	45												N/A		
F1 CUM. VARIANCE		15	60														
REMARKS																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. 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 WYNSE as an AFR.

ACTIVITY STATUS

.1 Inputs to ANL for the AFR EIS. Drafts of reports covering the Government Facilities have been received for internal ORNL review.

All sections of appendices of the Near Term AFR EIS have been forwarded to ANL.

Work on all phases of the engineering and licensing status of the West Valley facility is continuing. The draft report is scheduled for internal review during December. Required information for the Near Term AFR EIS has been forwarded to ANL.

Work is continuing on the Planning Guide for providing a detailed annotated schedule for use by DOE in determining the critical path of NEPA actions and NRC licensing requirements. A first draft is scheduled to be issued in November for DOE/SR comments.

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1. CONTRACT IDENTIFICATION AFR-EIS ASSISTANCE TO ANL (ORNL)										2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1313.					
4. CONTRACTOR (NAME AND ADDRESS) OAK RIDGE NATIONAL LABORATORY OAK RIDGE TENNESSEE 37830										ALL FUNDING		5. CONTRACT START DATE 1 OCT 79					
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
10. THOUSANDS B1 B AND R NUMBERS ALL		450												11. COST PLAN DATE 16 DEC 80			
		425													12. PLANNED COSTS PRIOR FYS N/A		
		400													13. ACTUAL COSTS PRIOR FYS N/A		
		375													14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 105		
		350													15. TOTAL CONTRACT VALUE N/A		
		325													16. UNFILLED ORDERS OUTSTANDING N/A		
		300													17. ESTIMATE FOR PERTURBED REPORTING PERIOD N/A		
		275															
		250															
		225															
200																	
175																	
150																	
125																	
100																	
75																	
50																	
25																	
0																	
18. ACCRUED COSTS		CI PLANNED	24	24	24	24	24	24	24	24	24	25	25	290			
		CI ACTUAL	0	0											0		
		EI VARIANCE	24	24											N/A		
		FI CUM. VARIANCE	24	48											N/A		
REMARKS																	
CONFLICT - FINANCIAL PLAN IS 290 FY ESTIMATE IS 105																	
19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										20. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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

.2 Fee Report. Initial printing of the Department of Energy Report on Fee for Spent Nuclear Fuel Storage and Disposal Services, October 1980, DOE/SR-006, was completed and copies were sent to 21 specific members of Congress on November 13. An additional printing for public distribution is in progress by DOE/SR. Work on this activity is 100% complete.

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1. CONTRACT IDENTIFICATION REPORTS TO CONGRESS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1321.			
4. CONTRACTOR NAME AND ADDRESS SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA												ALL FUNDING		5. CONTRACT START DATE 1 JUN 79			
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FT 81	
B. COST STATUS																	
THOUSANDS														9. COST PLAN DATE 16 DEC 80			
														10. PLANNED COSTS PRIOR FYS N/A			
														11. ACTUAL COSTS PRIOR FYS N/A			
														12. TOTAL ESTIMATE FY COSTS FOR CONTRACT 50			
														13. TOTAL CONTRACT VALUE N/A			
														14. UNFILLED ORDERS OUTSTANDING N/A			
														15. B AND R NUMBERS ALL			
														16. ACCRUED COSTS			
														17. REMARKS			
														18. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE			
19. 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

- .1 Develop Accident Scenarios. Verification of the coupled neutronics and thermal hydraulics code is continuing. Code checkout should be completed during December.

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1. CONTRACT IDENTIFICATION CRITICALITY ANALYSIS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1411.	
4. CONTRACTOR NAME AND ADDRESS BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON												5. CONTRACT START DATE 1 FEB 80			
6. CONTRACT COMPLETION DATE 31 MAR 81															
7. MONTHS		O	N	D	J	F	M	A	M	J	J	TOTALS		8. FY 81	
9. COST STATUS															
THOUSANDS		450											10. COST PLAN DATE 16 DEC 80		
		425												11. PLANNED COSTS PRIOR FY'S	
		400												12. ACTUAL COSTS PRIOR FY'S	
		375												13. TOTAL ESTIMATE FY COSTS FOR CONTRACT	
		350												14. TOTAL CONTRACT VALUE	
		325												15. UNFILLED BUDGETS OUTSTANDING	
		300												16. N/A	
		275												17. N/A	
		250												18. N/A	
		225												19. N/A	
ALL		200											20. N/A		
		175												21. N/A	
		150												22. N/A	
		125												23. N/A	
		100												24. N/A	
		75												25. N/A	
		50												26. N/A	
		25												27. N/A	
		0												28. N/A	
				CI PLANNED	11	11	11	11	11	11	11	11	12	12	12
ACCURRED COSTS		DI ACTUAL	11	-11									0	30. N/A	
		EI VARIANCE	0	22											
		FI CUM. VARIANCE	0	22											
REMARKS															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

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 required for test fuel storage at GE-Morris and include special design requirements, licensing and regulatory considerations, and costs.

ACTIVITY STATUS

- .1 Project Management. A revised Field Task Proposal for FY 82 and FY 83 was prepared and sent to the AFR Project Office at SR.

A paper, Significance of Shippingport and Connecticut Yankee Fuel Examinations to Extended Water Storage of LWR Fuel, was presented at an IAEA Specialists' Meeting on Spent Fuel Storage Alternatives in Las Vegas, November 17 through 20. This completes FY 80 Milestone No. 4, which was delayed due to cancellation of an ASTM symposium.

- .2 International Activities. The draft of the report World Survey of Spent Fuel Storage Experience was typed at PNL and provided to members of the IAEA/NEA Consultant Group for final comments before distribution to the contributing states for review.
- .3 Spent Fuel Acquisition and Examination. DOE/Chicago has invited PNL representative to attend a meeting in Chicago to discuss the status of spent fuel exams previously sponsored by DOE.

Work to complete the examination and reconstitution of the Connecticut Yankee assembly is continuing. Also, mechanical property specimens are being cut from some Shippingport rods, although the work was not part of the examination scoped for last fiscal year.

- .4 Spent Fuel Pool Component Exams. Specimens from LaCrosse, RBOF(SRP), and Zion spent fuel pools have been promised but have not yet been received at PNL. The Zion specimens are scheduled to arrive on December 9.

.5 Corrosion Mechanism Studies. Specimens from seven heats of type 304 stainless steel (0.02 to 0.08 carbon) have been heat treated to induce sensitization. Huey and modified Strauss tests will be conducted to characterize sensitization. The specimens will be used for static load, bend and crevice corrosion experiments in both deionized and borated spent fuel pool chemistries.

Constant extension rate tests on material from a TMI Unit 1 spent fuel pool system pipe are continuing. A sensitized specimen has been notched to provide crack initiation. It will be tested in a solution of 13,000 wt ppm H_3BO_3 , with 15 ppm chloride.

.6 Spent Fuel Storage Assessment. The contract with the General Electric Company Morris Operation is being evaluated at the San Jose office.

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1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1413								
4. CONTRACTOR (NAME, ADDRESS)		5. CONTRACT START DATE 1 OCTOBER 78												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					
		1	2	3	4	0	N	D	J	F	M	A	H	J	J	A		S	1	2	3	4
. 1	PROJECT MANAGEMENT																					0
. 2	INTERNATIONAL ACTIVI																					0
. 3	SPENT FUEL ACQUISITIO																					0
. 4	FUEL POOL COMPONENT																					0
. 5	CORROSION MECHANISM																					0
. 6	STORAGE ASSESSMENT																					0
. 7	SHIPPING ASSESSMENT																					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		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1413						
4. CONTRACTOR (NAME AND ADDRESS)		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																				
10. BUDGET AND R NUMBERS	ALL	900													GI COST PLAN DATE 16 DEC 80					
		850													HI PLANNED COSTS PRIOR FYS					
		800													N/A					
		750													II ACTUAL COSTS PRIOR FYS					
		700													N/A					
		650													JI TOTAL ESTIMATE FY COSTS FOR CONTRACT					
		600													740					
		550													KJ TOTAL CONTRACT VALUE					
		500													N/A					
		450													LI UNFILLED ORDERS OUTSTANDING					
400													N/A							
350													MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD							
300													N/A							
250																				
200																				
150																				
100																				
50																				
0																				
11. REMARKS																				
CONFLICT - FINANCIAL PLAN IS 700 FY ESTIMATE IS 740																				
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										13. 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 is to approve the purchase order. Modifications to the cut-off saw and shroud are being prepared to incorporate the new motor drive.
- .2 **Safety Evaluation Report.** DOE's review comments on the draft report are expected during December.
- .3 **Safeguards.** DOE's and AGNS' responses to our draft report and comments are expected in December.
- .4 **Environmental Report.** A draft is being reviewed.
- .5 **Fabrication.** Due to internal problems at Offshore Power Systems (OPS), the fabrication completion date for the fuel disassembly and rod storage equipment has been delayed to mid-January. Completion will be followed by a week or two of acceptance testing. OPS was visited for fabrication witness points, final subassembly inspections, resolution of Drawing Change Requests and Quality Deviation Reports, and resolution of schedule problems. NAC Corporate QA and OPS resolved the findings of the October QA audit. The winch vendor, Thern, Inc., will deliver the winch in January, one month behind schedule. It is planned to have both OPS and Thern expedite the delivery of this equipment to minimize the impact on the cold demonstration. Other system components and subassemblies are being obtained from various suppliers and fabricators. The initial cold demonstration will be delayed from January until February.
- .6 **Demonstration.** Facility preparation at AGNS' Barnwell Plant is on schedule. Various pool modification details and interface requirements are being resolved as required.

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4. CONTRACTOR (NAME, ADDRESS) NUCLEAR ASSURANCE CORP. ATLANTA GEORGIA														5. CONTRACT START DATE 1 MAY 79						
														6. CONT. COMPLETION DATE 30 SEPTEMBER 82						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS				FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE		
		1	2	3	4	B	N	D	J	F	M	A	M	J	J	A	S			
. 1	PROTOTYPE DESIGN																	90		
. 2	SAFETY ANALYSIS																	90		
. 3	SNM ACCOUNTING																	98		
. 4	ENVIRONMENTAL ANALYSIS																	15		
. 5	EQUIPMENT PROCUREMENT																	55		
. 6	DEMONSTRATION TESTS																	5		
. 7	ECONOMIC STUDIES																	0		
. 8	PROJECT REP DISASSEM																	0		
. 9	W/ COMM'T. PREP FOR H																	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 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1421					
4. CONTRACTOR (NAME AND ADDRESS) NUCLEAR ASSURANCE CORP. ATLANTA GEORGIA		ALL FUNDING												5. CONTRACT START DATE 1 MAY 79					
														6. CONTRACT COMPLETION DATE 30 SEP 82					
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS	B. FY	81			
8. COST STATUS																			
A1	THOUSANDS	900													GI COST PLAN DATE 16 DEC 80				
		850														HI PLANNED COSTS PRIOR FYS N/A			
B1 S AND R NUMBERS	ALL	700													JI ACTUAL COSTS PRIOR FYS N/A				
		650														KI TOTAL ESTIMATE FY COSTS FOR CONTRACT 506			
ACCURED COSTS		550													LI TOTAL CONTRACT VALUE N/A				
		500														MI UNFILLED ORDERS OUTSTANDING N/A			
REMARKS		CI PLANNED	83	86	67	129	71	28	24	9	9	0	0	0	506				
		DI ACTUAL	101	0											101				
		EI VARIANCE	-18	86											MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A				
		FI CUM. VARIANCE	-18	68															
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 logic sequence description was written from the sequence diagrams as a step in procedures preparation. Work orders for construction of approximately 20% of the mechanical equipment were completed.

A process review meeting was held to acquaint GE, Du Pont, and DOE personnel with the AGNS process and equipment.

- 3 Process Assessment Studies. The General Atomic consulting agreement is being used to define the physical state of spent fuel and its ability to safely undergo disassembly/encapsulation handling.

Studies on alternate handling operations were initiated to assess the practicality of on-line examination of fuel pins. The potential for nondestructive analysis of disassembled fuel pins to improve material accountability and fuel burnup data is being studied.

Failed fuel studies are focusing on disassembly of nonstandard fuel and are being directed at techniques of manipulating balky pins on line. Ridihalgh, Eggers, and Associates was enlisted in this effort.

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1. CONTRACT IDENTIFICATION DRY DISASSEMBLY				2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												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 FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE					
		1	2	3	4	0	N	D	J	F	M	A	M	J	J	A	S	83	84
. 1	EQUIPMENT PROCUREMENT													▼			37		
. 2	DISASSEMBLY PROCEDURE													▼			35		
. 3	DISASSEMBLY AND CANN.													▼ ▲			0		
. 4	PROCESS ASSESSMENT S													▼			30		
. 5	FINAL REPORT FOR COL													▼			0		
. 6	HOT DEMONSTRATIONS A													▼ □			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 DRY DISASSEMBLY				2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												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		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY	81		
9. COST STATUS																		
A) THOUSANDS		2250												G) COST PLAN DATE 16 DEC 80				
		2125													H) PLANNED COSTS PRIOR FYS N/A			
		2000													I) ACTUAL COSTS PRIOR FYS N/A			
		1875													J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 1488			
		1750													K) TOTAL CONTRACT VALUE N/A			
		1625													L) UNFILLED ORDERS OUTSTANDING N/A			
		1500													M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A			
		1375																
B) B AND R NUMBERS		1250																
		1125																
		1000																
		875																
		750																
ALL		625																
		500																
		375																
		250																
ACCURED COSTS		125																
		0																
		CI PLANNED	120	120	120	120	120	121	121	121	121	121	121	121	1447			
		DI ACTUAL	157	172											329			
EI VARIANCE	-37	-52																
FI CUM. VARIANCE	-37	-89																
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 November, Core III was brought critical and the moderator boron concentration required to give the just-critical condition was determined. The 25 modules made up of fuel rods touching on a triangular pitch have been disassembled, and preparations to load modules with the fuel rods on a square pitch and touching are being made.

A draft of the quarterly technical report, covering work done between July and September, has been submitted to DOE for review.

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1. CONTRACT IDENTIFICATION ROD CRITICALITY		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1423.								
4. CONTRACTOR (NAME, ADDRESS) BABCOCK AND WILCOX CO. LYNCHBURG VIRGINIA														5. CONTRACT START DATE 1 JUNE 77								
7. IDENT. NUMBER		8. REPORTING CATEGORY		9. FISCAL YEARS FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE						
				1	2	3	4	0	N	D	J	F	M	A	M	J	J	R	S	83	84	85
1. 1		TASK 1 PHASE 1 PRE-E																				100
2. 2		TASK 1 -PHASE 2 EXPE																				100
3. 3		TASK 1 PHASE 3--ANAL																				100
4. 4		TASK 2 PHASE 2 PREPA						▼	▼	▼												90
5. 5		TASK 2 PHASE 2 MER						▼	▼	▼												50
6. 6		TASK 2 PHASE 3 ANALY						▼	▼	▼												0
7. 7		PIN STOREE 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 NOV 80 THROUGH 30 NOV 80												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	B. FT	81	
8. COST STATUS																			
9.1																9.1	COST PLAN DATE 16 DEC 80		
9.2		450															9.2		
9.3		425															9.3		
9.4		400															9.4		
9.5		375															9.5		
9.6		350															9.6		
9.7		325															9.7		
9.8		300															9.8		
9.9		275															9.9		
9.10		250															9.10		
9.11		225															9.11		
9.12		200															9.12		
9.13		175															9.13		
9.14		150															9.14		
9.15		125															9.15		
9.16		100															9.16		
9.17		75															9.17		
9.18		50															9.18		
9.19		25															9.19		
9.20		0															9.20		
10.1		CI PLANNED	15	15	15	15	15	16	16	16	16	16	16	16	16	16	187	10.1	
10.2		DI ACTUAL	0	0													0	10.2	
10.3		EI VARIANCE	15	15													N/A	10.3	
10.4		FI CUM. VARIANCE	15	30													N/A	10.4	
11. REMARKS																			
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										13. 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. Discussions were held with AGNS engineers at Barnwell and the Nuclear Assurance Corporation engineers at Atlanta to obtain more detailed information on their spent fuel disassembly and rod consolidation systems and programs to determine the extent that the systems can be adapted for use in the Morris mechanical cell.
- .2 Fuel Storage Cells. Major emphasis continues to be placed upon thermal analyses of the various rod/bundle dry storage systems. Preliminary Battelle Pacific Northwest Laboratory (BNL) cladding temperature calculations for fuel bundles stored in air in square canisters have been received. They were in close agreement with previous GE calculations and tend to confirm GE's earlier estimates concerning bundle aging required before dry storage is practical.

The computer program for calculating the maximum rod temperatures for air-storage of spent fuel rods in canisters has been completed and preliminary results obtained. Then results indicate that the split canister approach for storing spent rods from two PWR bundles (one bundle in each of the two chambers of the split canister) is feasible.

- .3 Ventilation Cooling System. Ventilation alternatives for the Morris mechanical cell are being evaluated, particularly with respect to providing continued downflow ventilation within the mechanical cell while reversing the remaining canyon shielded area to an upflow system. Since the most effective method of attaining the general upflow pattern is to convert the former building exhaust duct to a supply duct, it becomes necessary to provide a new exhaust route from the heavily shielded mechanical cell without compromising cell shielding or reducing the affected cell area. Two solutions which appear feasible are being evaluated. Work on establishing methods for transferring storage caisters from the mechanical cell to the canyon storage cell area continues.

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CONCEPTUAL DRY STORAGE - MORRIS												01 NOV 80	THROUGH	30 NOV 80	1443.		
GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA												ALL FUNDING			5. CONTRACT START DATE 1 MAY 80		
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81		
9. COST STATUS																	
A) B AND R NUMBERS THOUSANDS		900												6) COST PLAN DATE 16 DEC 80			
		850													7) PLANNED COSTS PRIOR FYS		
		800													N/A		
		750														8) ACTUAL COSTS PRIOR FYS	
		700														N/A	
		650														9) TOTAL ESTIMATE FY COSTS FOR CONTRACT 670	
		600														N/A	
		550														N/A	
		500														N/A	
		450														N/A	
B) ALL		400												10) TOTAL CONTRACT VALUE 670			
		350													N/A		
		300													N/A		
		250														11) UNFILLED ORDERS OUTSTANDING N/A	
		200														N/A	
		150														N/A	
		100														N/A	
		50														N/A	
		0														N/A	
		ACCURED COSTS		CI) PLANNED	73	66	74	72	73	67	72	64	59	29	17	3	669
DI) ACTUAL	10			15											25		
EI) VARIANCE	63			51													
FI) CUM. VARIANCE	63			114													
REMARKS																	
CONFLICT - FINANCIAL PLAN IS 669 FY ESTIMATE IS 670												13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE			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

- .1 Morris Operation Capabilities. Copies of NEDG-24806, Concepts for Spent Fuel Storage Tests at Morris Operaton, have been shipped to SRP and the Technical Information Center at Oak Ridge. The technical acitivity for this subtask has been completed.
- .2 Gaseous Radionuclide Release. Evaluation and analysis of the tritium test data are about 90% complete. Two additional tritium condensate samples were taken and a previous anomaly in the data was resolved. After additional calculations, the report draft will be started.

The equipment for drying and collecting krypton gas was assembled and tested with acceptable results. The equipment was then hooked to cylinders and gas samples of the outside air (for background data) and of the basin exhaust air were taken. The cylinders are to be taken to Argonne National Laboratory where kryton analysis will be performed.

- .3 Radiation Levels. Several additional drawings on the lifting tools for handling the radiation measurement test chamber have been developed. Also, a schematic drawing showing the air pressure system and level instrumentation inthe diving bell is being developed.

Fabrication of most of the test chamber components is in progress. The lower support fixture major pieces, including the bundle tube, the bottom plate with legs, and the circular plate for positioning the radiation detector mast have been fabricated. Both radiation detector masts have been fabricated. The diving bell pieces have been cut out of raw stock and the ballast boxes for the diving bell have been fabricated.

In terms of software, the quality control and design package for the test chamber is the final review.

- .4 Heat Generation Rates. Design criteria have been further defined and several sketches on the test chamber have been developed.
- .5 Activity Transfer. The design criteria for the test chamber for quantitative sipping of individual bundles have been reviewed and further defined. Various design constraints have been identified and clarified so that movement from scope design to detailed design can proceed in December.

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1. CONTRACT IDENTIFICATION MORRIS TEST PROGRAM		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80										3. CONTRACT NUMBER 1453.			
4. CONTRACTOR (NAME AND ADDRESS) GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA		5. CONTRACT START DATE 1 FEB 79													
ALL FUNDING												6. CONTRACT COMPLETION DATE 31 DEC 81			
7. MONTHS	O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81	
9. COST STATUS															
AI THOUSANDS	450												9. COST PLAN DATE 16 DEC 80		
	425												10. PLANNED COSTS PRIOR FY'S		
	400												N/A		
	375												11. ACTUAL COSTS PRIOR FY'S		
	350												N/A		
	325												12. TOTAL ESTIMATE FY COSTS FOR CONTRACT		
	300												388		
	275												13. TOTAL CONTRACT VALUE		
	250												N/A		
	225												14. UNFILLED ORDERS OUTSTANDING		
B1 B AND R NUMBERS ALL	200											N/A			
	175											15. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
	150											N/A			
	125											16. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE			
	100											17. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			
	75														
	50														
	25														
	0														
	REMARKS		CI PLANNED	27	34	25	29	42	55	52	44	34	19	14	12
ACCURED COSTS		DI ACTUAL	0	19											19
		EJ VARIANCE	27	15											
		FI CUM. VARIANCE	27	42											
CONFLICT - FINANCIAL PLAN IS 387 FY ESTIMATE IS 388															

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. Model runs for sensitivity analyses were completed. The full software package was tested and integrated.

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1. CONTRACT IDENTIFICATION		SITE SELECTION METHOD												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1463				
4. CONTRACTOR (NAME, ADDRESS)		JOHNS HOPKINS UNIVERSITY BALTIMORE MARYLAND												5. CONTRACT START DATE 1 OCTOBER 79		6. CONT. COMPLETION DATE 31 DECEMBER 80				
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS		FY 1981										FY 1982		83	84	85	10. PERCENT COMPLETE	
		FY 1980		N	D	J	F	M	A	M	J	J	A	S	1	2	3	4		
1	DEVELOP SITE SELECTI																			0
2	SITE SELECTION REPOR																			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		SITE SELECTION METHOD												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1463			
4. CONTRACTOR (NAME AND ADDRESS)		JOHNS HOPKINS UNIVERSITY BALTIMORE MARYLAND												5. CONTRACT START DATE 1 OCT 79		6. CONTRACT COMPLETION DATE 31 DEC 80			
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81			
9. COST STATUS																			
10. B AND R NUMBERS		90																	11. COST PLAN DATE 16 DEC 80
10. B AND R NUMBERS		85																	12. PLANNED COSTS PRIOR FYS N/A
10. B AND R NUMBERS		80																	13. ACTUAL COSTS PRIOR FYS N/A
10. B AND R NUMBERS		75																	14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 74
10. B AND R NUMBERS		70																	15. TOTAL CONTRACT VALUE N/A
10. B AND R NUMBERS		65																	16. UNFILLED ORDERS OUTSTANDING N/A
10. B AND R NUMBERS		60																	17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A
10. B AND R NUMBERS		55																	
10. B AND R NUMBERS		50																	
10. B AND R NUMBERS		45																	
10. B AND R NUMBERS		40																	
10. B AND R NUMBERS		35																	
10. B AND R NUMBERS		30																	
10. B AND R NUMBERS		25																	
10. B AND R NUMBERS		20																	
10. B AND R NUMBERS		15																	
10. B AND R NUMBERS		10																	
10. B AND R NUMBERS		5																	
10. B AND R NUMBERS		0																	
18. ACCURRED COSTS		CI. PLANNED	30	30	21	0	0	0	0	0	0	0	0	0				81	19. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A
18. ACCURRED COSTS		DI. ACTUAL	0	0														0	20. UNFILLED ORDERS OUTSTANDING N/A
18. ACCURRED COSTS		EI. VARIANCE	30	30															21. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A
18. ACCURRED COSTS		FI. CUM. VARIANCE	30	60															22. UNFILLED ORDERS OUTSTANDING N/A
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

147I: 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 compatibility. 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 physical protection system report received initial Sandia classification approval. Copies of the final report will be sent to SRL this week.

Sandia has discussed the 5 rem/25 rem issue raised in 10 CFR 72 with the NRC. The conclusion is that 10 CFR 100 applies to offsite radiological sabotage and that the 25 rem criterion used in the physical protection studies is correct.

The Barnwell physical protection plan prepared by IEAL is being reviewed by Sandia.

A study of potential data communication links between Nuclear Materials Management Safeguards System (NMMSS) and an AFR is complete. The pros and cons of each link were evaluated. The actual link selected depends on system requirements.

The item accounting system design requirements were used to draft a request for design information and requirements for the system. The document will be sent to appropriate AFR program participants.

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1. CONTRACT IDENTIFICATION PHYSICAL PROTECTION REQUIREMENTS		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1471																								
4. CONTRACTOR (NAME, ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO				5. CONTRACT START DATE 1 MARCH 79																								
				6. CONT. COMPLETION DATE 30 SEPTEMBER 81																								
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS		10. PERCENT COMPLETE																								
		FY 1980		FY 1981		FY 1982																						
		1	2	3	4	D	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4	83	84	85				
1	SABOTAGE ANALYSIS AN																									75		
2	INTEGRATED CONTROL A																											40
3	PHYSICAL PROTECTION																											30

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. The first series of nondestructive analysis test measurements on spent fuel stored in the Morris facility was completed on October 27. For this series, gamma ray and passive neutron measurements were made on 16 PWR fuel assemblies and one BWR assembly. The objectives were:

- To determine the reproducibility of nondestructive measurements.
- To measure azimuthal variations.
- To measure the effect of different fuel assembly geometries such as 14 x 14 vs. 15 x 15 PWR arrays and 7 x 7 BWR arrays.
- To determine empirical correlations between nondestructive measurement signatures and burnups.

A preliminary evaluation of the data indicates that:

- Spent fuel assemblies can be positioned for nondestructive measurements to obtain reproducible results. For passive neutron measurements, the variability is 1 to 2%. For gamma ray measurements, the variability is approximately 1%. Most of the variabilities observed in the neutron measurements are due to counting statistics.
- The azimuthal orientation of spent fuel assemblies can significantly affect nondestructive measurements. Variations of 30 to 40% were observed for some fuel assemblies in both gamma ray and neutron measurements.

Additional experiments are planned at GE/Morris to establish mechanisms for the angular effects and to evaluate the empirical correlations with burnup.

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1. CONTRACT IDENTIFICATION ACCOUNTABILITY SYSTEMS		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80										3. CONTRACT NUMBER 1472.				
4. CONTRACTOR (NAME AND ADDRESS) LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS NEW MEXICO		ALL FUNDING										5. CONTRACT START DATE 1 OCT 78				
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS		6. FY 81
8. COST STATUS																
9.1														9.1 COST PLAN DATE 16 DEC 80		
9.2														9.2 PLANNED COSTS PRIOR FYS		
9.3														9.3 ACTUAL COSTS PRIOR FYS		
9.4														9.4 TOTAL ESTIMATE FY COSTS FOR CONTRACT		
9.5														9.5 TOTAL CONTRACT VALUE		
9.6														9.6 UNFULFILLED ORDERS OUTSTANDING		
9.7														9.7 N/A		
10.1		28	28	28	28	29	29	30	30	30	30	30	350	10.1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
10.2		30	-30										0	10.2 N/A		
10.3		-2	58											10.3 N/A		
10.4		-2	56											10.4 N/A		
REMARKS																
CONFLICT - FINANCIAL PLAN IS 350 FY ESTIMATE IS 650																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE														14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE		

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 review of programmatic details was completed and a program update was issued. The only major change was in the physical protection program element. This element was designed to produce site-specific safeguards plans on a schedule consistent with licensing activities. As part of an effort to increase AFR program participation by individual site staffs, this function will be assigned to sites and the program element modified to that of a review and oversight function. As presently defined, the physical protection element of the AFR safeguards program will (1) review the individual site plans to confirm compliance with regulations, (2) evaluate the significance of differences between site plans, and (3) provide a consultation service for physical protection questions during pre-operational phases of the AFR program.

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1. CONTRACT IDENTIFICATION SAFEGUARDS AND NONPROLIFERATION SUPPORT		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1473			
4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA				5. CONTRACT START DATE 1 MAY 79			
7. IDENT. NUMBER		8. REPORTING CATEGORY		9. FISCAL YEARS FY 1980 FY 1981 FY 1982		10. PERCENT COMPLETE	
				1 2 3 4	D N D J F M A M J J R S 1 2 3 4	83 84 85	
. 1 TECHNICAL SUPPORT						20	
. 2 SABOTAGE ANALYSIS						20	
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 SAFEGUARDS AND NONPROLIFERATION SUPPORT		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1473				
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA		ALL FUNDING		5. CONTRACT START DATE 1 MAY 79				
7. MONTHS		O N D J F M A M J J A S	TOTALS		6. FY 81			
8. COST STATUS								
A) THOUSANDS						G) COST PLAN DATE 16 DEC 80		
45 43 40 38 35 33 30 28						H) PLANNED COSTS PRIOR FY'S		
B) BUDGET NUMBERS						I) ACTUAL COSTS PRIOR FY'S N/A		
ALL						J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 50		
25 23 20 18 15 13 10 8 5 3 0						K) TOTAL CONTRACT VALUE N/A		
ACCURED COSTS		D) PLANNED 4 4 4 4 4 4 4 4 4 4 5 5 E) ACTUAL 6 7 F) VARIANCE -2 -3 G) CUM. VARIANCE -2 -5					L) UNFILLED ORDERS OUTSTANDING N/A	
M) 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				

15: TRANSPORTATION

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.** On November 5, a meeting was held with personnel of the American Association of Railroads to discuss the rail carrier workshop. It was recommended that the workshop be held at Albuquerque in the spring of 1981.

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1. CONTRACT IDENTIFICATION CARRIER WORKSHOPS		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1512								
4. CONTRACTOR (NAME, ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO														5. CONTRACT START DATE 1 OCTOBER 79								
														6. CONT. COMPLETION DATE 30 JUNE 81								
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS				FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE				
		1	2	3	4	0	N	D	J	F	M	A	M	J	J	R	S		1	2	3	4
1	CONDUCT CARRIER WORK																					0
2	PUBLISH TRANSCRIPTS																					0
3	WORKSHOP ANALYSIS																					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 CARRIER WORKSHOPS		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1512.				
4. CONTRACTOR (NAME AND ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO														5. CONTRACT START DATE 1 OCT 79				
														6. CONTRACT COMPLETION DATE 30 JUN 81				
7. MONTHS		0	N	D	J	F	M	A	M	J	J	R	S		TOTALS	8. FY	81	
9. COST STATUS																		
10.	THOUSANDS	45														11. COST PLAN DATE 16 DEC 80		
		43																
11. BUDGET NUMBERS	ALL	40														12. PLANNED COSTS PRIOR FYS N/A		
		38																
12. BUDGET NUMBERS	ALL	35														13. ACTUAL COSTS PRIOR FYS N/A		
		33																
13. BUDGET NUMBERS	ALL	30														14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 35		
		28																
14. BUDGET NUMBERS	ALL	25														15. TOTAL CONTRACT VALUE N/A		
		23																
15. BUDGET NUMBERS	ALL	20														16. UNFILLED ORDERS OUTSTANDING N/A		
		18																
16. BUDGET NUMBERS	ALL	15														17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		13																
17. BUDGET NUMBERS	ALL	10														18. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		8																
18. BUDGET NUMBERS	ALL	5														19. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		3																
19. BUDGET NUMBERS	ALL	0														20. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		2																
REMARKS																		
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE													14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE					

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

- .2 Develop Logistics Model. ORNL initiated an assessment of the effect that various reactor discharge assumptions can have on the ability to predict utility spent fuel shipments. This activity is part of a program to test and improve the operational sensitivity of the computer code.

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1. CONTRACT IDENTIFICATION LOGISTICS MODEL DEVELOPMENT												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1513.	
4. CONTRACTOR NAME AND ADDRESS SANDIA LABORATORIES AIKEN SOUTH CAROLINA												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		8. FY 81 TOTALS	
9. COST STATUS															
10 THOUSANDS		GI COST PLAN DATE 16 DEC 80													
		HJ PLANNED COSTS PRIOR FYS N/A													
11 S AND R NUMBERS ALL		HJ ACTUAL COSTS PRIOR FYS N/A													
		JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 100													
12 ACQUIRED COSTS		KJ TOTAL CONTRACT VALUE N/A													
		LJ UNFULFILLED ORDERS OUTSTANDING N/A													
REMARKS															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

151: TRANSPORT NEEDS AND CAPABILITY

1514: Domestic and Ad Hoc Transportation Analysis

OBJECTIVE

Provide transportation support for the AFR program as requested. Perform evaluation of spent fuel transportation technology and communicate with organizations engaged in domestic spent fuel activities.

ACTIVITY STATUS

- .1 Ad Hoc Studies. Maps which superimpose population density data over truck and rail spent fuel transport routes were prepared for SRL personnel.

No Milestone Schedule and Status Report (DOE 535) received

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1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1514.		
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
8. COST STATUS																
A1 THOUSANDS		90												G1 COST PLAN DATE 16 DEC 80		
		85													H1 PLANNED COSTS PRIOR FYS	
B1 B AND R INMERS		75												N/A		
		70													I1 ACTUAL COSTS PRIOR FYS	
ALL		65												N/A		
		60													J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT	
ACCURED COSTS		55												K1 TOTAL CONTRACT VALUE		
		50													L1 UNFILLED ORDERS OUTSTANDING	
REMARKS		0												N/A		
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE													14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

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

- .1 Standards. The progress and results obtained from the Transportation Systems Safety Evaluation Program were reported at a colloquium at SNL. Presentations were made on the NRC-sponsored cask sabotage source term investigation program and the DOE-sponsored intentional acts and extreme accidents programs.

No Milestone Schedule and Status Report (DOE 535) received

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1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS										2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80	3. CONTRACT NUMBER 1515.				
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED										5. CONTRACT START DATE 1 OCT 79					
6. CONTRACT COMPLETION DATE CONTINUING										7. MONTHS	8. FY				
										0 N D J F M A M J J A S	TOTALS 81				
9. COST STATUS										10. COST PLAN DATE 16 DEC 80					
										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. REMARKS		C1. PLANNED	12	12	12	12	12	12	13	13	13	13	13	13	150
ACCURED COSTS		C2. ACTUAL	0	0											0
		C3. VARIANCE	12	12											
		C4. CUM. VARIANCE	12	24											
17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										18. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE					

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.** Data received by ORNL from the TTC on nine Western states was analyzed and added to the nuclear legislative data base. The SUBJECT categories were revised to better reflect the scope. The federal level legislation was restructured.

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CONTRACT MANAGEMENT CONTRACT REPORT																									
1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS											2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80	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	O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81
9. COST STATUS																									
10. B AND R NUMBERS	ALL	11. ACTUAL COSTS PRIOR FYS												10. THOUSANDS	12. COST PLAN DATE 16 DEC 80										
		45																							
		43																							
		40																							
		38																							
		35																							
		33																							
		30																							
		28																							
		25																							
		23																							
		20																							
18																									
15																									
13																									
10																									
8																									
5																									
3																									
0																									
13. ACCRUED COSTS		14. PLANNED	2	2	2	2	2	2	2	2	2	2	3	25	15. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A										
		15. ACTUAL	0	0										0											
		16. VARIANCE	2	2																					
		17. CUM. VARIANCE	2	4																					
18. REMARKS															19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE	20. 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. A draft copy of appendix D for the AFR EIS was furnished to ANL.

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1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		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	
9. COST STATUS																	
RI THOUSANDS B1 B AND R NUMBERS ALL		45											1	GI COST PLAN DATE 16 DEC 80			
		43													HI PLANNED COSTS PRIOR FYS		
		40													N/A		
		38													II ACTUAL COSTS PRIOR FYS		
		35													N/A		
		33													JI TOTAL ESTIMATE FY COSTS FOR CONTRACT		
		30													50		
		28													KJ TOTAL CONTRACT VALUE		
		25													N/A		
		23													LJ UNFILLED ORDERS OUTSTANDING		
		20												N/A			
		18															
		15															
		13															
		10															
		8															
		5															
		3															
		0															
ACCURED COSTS		CI PLANNED	2	2	2	2	3	3	3	3	5	5	10	10	50		
		DI ACTUAL	0	0											0		
		EJ VARIANCE	2	2													
		FJ CUM. VARIANCE	2	4													
REMARKS																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

152: INSTITUTIONAL ISSUES

1523: Generic Institutional Issues

OBJECTIVE

Identify institutional issues related to transportation of spent fuel. Develop plans and actions to assess each issue, make recommendations to policymakers.

ACTIVITY STATUS

- .1 Identify Nuclear Material Transportation Issues. TTC personnel attended a workshop on RAM transportation held by the Southern States Energy Board (SSEB) on November 5 and 6. SSEB is evaluating and resolving institutional issues affecting RAM transport in the southeastern states.
- .2 Develop Plan to Address Issues. DOE's position on DOT's HM-164 routing rulemaking was adopted and coordination of new security requirements for DOE shipments of spent fuel were discussed at a meeting at DOE/HQ on November 6. The two issues are related through the HM-164 rulemaking which would require all shipments of spent fuel to be subject to NRC's regulations or their equivalent.

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1. CONTRACT IDENTIFICATION GENERIC INSTITUTIONAL ISSUES			2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1523										
4. CONTRACTOR (NAME, ADDRESS) SANDIA LABORATORIES PIKEN SOUTH CAROLINA															5. CONTRACT START DATE 1 OCTOBER 79										
7. IDENT. NUMBER			8. REPORTING CATEGORY		9. FISCAL YEARS FY 1980		FY 1981						FY 1982			83	84	85	10. PERCENT COMPLETE						
					1	2	3	4	0	N	D	J	F	M	A	M	J	J	R	S	1	2	3	4	
. 1 IDENT ISS CONCNG TRA																									0
. 2 DEVELOP PLAN TO ADDA																									0
. 3 ASSESS AND QUANTIFY																									0
. 4 APPLY RISK ASSESSMT																									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 DEVELOP OPERATIONAL TOOLS			2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80												3. CONTRACT NUMBER 1523																																																						
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED			5. CONTRACT START DATE 1 OCT 79												6. CONTRACT COMPLETION DATE CONTINUING																																																						
7. MONTHS			0	N	D	J	F	M	A	M	J	J	R	S		TOTALS	8. FY 81																																																				
9. COST STATUS																																																																					
A) THOUSANDS															G) COST PLAN DATE 16 DEC 80																																																						
															H) PLANNED COSTS PRIOR FY'S																																																						
B) B AND R NUMBERS															I) ACTUAL COSTS PRIOR FY'S																																																						
															N/A																																																						
ALL															J) TOTAL ESTIMATE FY COSTS FOR CONTRACT																																																						
															100																																																						
ACCURRED COSTS			<table border="1"> <tr> <td>CI) PLANNED</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>9</td> <td>100</td> </tr> <tr> <td>DI) ACTUAL</td> <td>0</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>EI) VARIANCE</td> <td>8</td> <td>8</td> <td></td> </tr> <tr> <td>FI) CUM. VARIANCE</td> <td>8</td> <td>16</td> <td></td> </tr> </table>												CI) PLANNED	8	8	8	8	8	8	8	9	9	9	9	100	DI) ACTUAL	0	0										0	EI) VARIANCE	8	8											FI) CUM. VARIANCE	8	16											K) TOTAL CONTRACT VALUE		
															CI) PLANNED	8	8	8	8	8	8	8	9	9	9	9	100																																										
DI) ACTUAL	0	0										0																																																									
EI) VARIANCE	8	8																																																																			
FI) CUM. VARIANCE	8	16																																																																			
			N/A																																																																		
															L) UNFILLED ORDERS OUTSTANDING																																																						
															N/A																																																						
M) 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																																																									

153: TRANSPORTATION INFORMATION

153I: Transportation Periodic Reports

OBJECTIVE

Prepare periodic reports on spent fuel investigative work. Prepare a Project Status Report of a highlighted nature to report monthly program progress. Issue quarterly a Technical Progress Report to summarize technical and scientific results. Supply a TTC annual report, and a Spent Fuel Storage Transportation Program management plan that describes methods and procedures to be used to complete transportation tasks.

ACTIVITY STATUS

- .4 Quarterly Reports. Information on cask requirements was presented by TTC personnel and information on logistics modeling was presented by ORNL personnel at the AFR program contractors review meeting in Augusta, GA in October.

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CONTRACT MANAGEMENT SUMMARY REPORT													
1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS 4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED											2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80	3. CONTRACT NUMBER 1531.	
											5. CONTRACT START DATE 1 OCT 79	6. CONTRACT COMPLETION DATE CONTINUING	
7. MONTHS 0 N D J F M A M J J A S											ALL FUNDING	TOTALS 8. FY 81	
9. COST STATUS													
RI	THOUSANDS	45										10. COST PLAN DATE 16 DEC 80	
		43											11. PLANNED COSTS PRIOR FYS
		40											
		38											
		35											
		33											
		30											
		28											
		25											
		23											
		20											
		18											
		15											
13													
10													
8													
5													
3													
0													
12. P AND R NUMBERS		13. PLANNED	2	2	2	2	2	2	3	3	3	30	14. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD
ACCURED COSTS		14. ACTUAL	0	0								0	
		15. VARIANCE	2	2									
		16. CUM. VARIANCE	2	4									N/A
REMARKS													
13. 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

Transportation Catalog. Revisions on the catalog were begun in accordance with direction received from DOE/SR and Du Pont at a working session held at SRP in October.

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1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1532.								
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																						
B1 B AND R NUMBERS ALL		10. BUDGETED COSTS												11. COST PLAN DATE 16 DEC 80								
		12. PLANNED COSTS												13. PLANNED COSTS PRIOR FYS								
		14. ACTUAL COSTS												15. ACTUAL COSTS PRIOR FYS								
		16. TOTAL ESTIMATE FY COSTS FOR CONTRACT												17. TOTAL CONTRACT VALUE 70								
		18. UNFILLED ORDERS OUTSTANDING												19. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A								
		B2		90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0
		B3		11. CUMULATIVE BUDGETED COSTS																		
		B4		12. CUMULATIVE PLANNED COSTS																		
		B5		13. CUMULATIVE ACTUAL COSTS																		
		B6		14. CUMULATIVE VARIANCE																		
B7		15. CUMULATIVE CUM. VARIANCE																				
B8		16. CUMULATIVE UNFILLED ORDERS OUTSTANDING																				
B9		17. CUMULATIVE ESTIMATE FOR SUBSEQUENT REPORTING PERIOD																				
B10		18. CUMULATIVE TOTAL CONTRACT VALUE																				
B11		19. CUMULATIVE UNFILLED ORDERS OUTSTANDING																				
REMARKS														13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE				14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE				

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. Personnel from SRL visited SNL/TTC to review activities and methods used to implement the TTC public information program, with particular emphasis on the information handling and institutional areas.

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CONTRACT MANAGEMENT SUMMARY SHEET														
1. CONTRACT IDENTIFICATION	DEVELOP OPERATIONAL TOOLS													
4. CONTRACTOR (NAME AND ADDRESS)	TO BE DETERMINED													
7. MONTHS	0	N	0	J	F	M	A	M	J	J	A	S	TOTALS	B. FY 81
9. COST STATUS														
10. BUDGET AND ACTUAL COSTS (IN THOUSANDS)														
11. BUDGET AND ACTUAL COSTS (IN THOUSANDS)	B1 BUDGET: 90 B2 ACTUAL: 45 B3 VARIANCE: -45 B4 CUM. VARIANCE: -45													
12. UNFILLED ORDERS OUTSTANDING	N/A													
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE														
14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE														
15. CONTRACT NUMBER	1533.													
16. CONTRACT START DATE	1 OCT 79													
17. CONTRACT COMPLETION DATE	CONTINUING													

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

.2 Prepare Draft Transportation Interface Data Report. Volume 1 of A Study of the Transportation and Handling of Spent Fuel was received by the TTC for review and approval. The complete document was due for release in November but was postponed until January to allow time for processing through the classification procedure.

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1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		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	TOTALS		8. FY 81			
9. COST STATUS																	
10. THOUSANDS 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0		11. ACTUAL COSTS PRIOR FYS										12. COST PLAN DATE 16 DEC 80					
		13. PLANNED COSTS PRIOR FYS										14. PLANNED COSTS FOR CONTRACT					
		15. TOTAL CONTRACT VALUE 75										16. UNFILLED ORDERS OUTSTANDING					
		17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A										18. REMARKS					
		19. ACCURED COSTS		21. PLANNED	22. ACTUAL	23. VARIANCE	24. CUM. VARIANCE	25.	26.	27.	28.	29.	30.	31.	32.		
		20. REMARKS		21. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												22. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE	

154: INTERNATIONAL PROGRAM SUPPORT

1542: International and Ad Hoc Transport Analysis

OBJECTIVE

Provide transportation support as requested by the AFR program. Evaluate international spent fuel transportation technology and communicate with organizations engaged in international spent fuel activities.

ACTIVITY STATUS

No activity to report.

No Milestone Schedule and Status Report (DOE 535) received

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1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS		2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80										3. CONTRACT NUMBER 1542.															
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED		ALL FUNDING										5. CONTRACT START DATE 1 OCT 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												9. COST PLAN DATE 16 DEC 80															
10. THOUSANDS		450	425	400	375	350	325	300	275	250	225	200	175	150	125	100	75	50	25	0	11. PLANNED COSTS PRIOR FYS N/A						
11. B AND R NUMBERS												12. ACTUAL COSTS PRIOR FYS N/A															
13. ALL												13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 125															
												14. TOTAL CONTRACT VALUE N/A															
15. ACCURED COSTS		CI PLANNED	5	5	5	5	10	10	12	12	16	15	15	15	15	15	125	15. UNFILLED ORDERS OUTSTANDING N/A									
		DI ACTUAL	0	0													0	16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A									
17. REMARKS																											
18. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												19. 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.

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1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		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																
ALL														G1 COST PLAN DATE		
														16 DEC 80		
THOUSANDS														H1 PLANNED COSTS		
														PRIOR FYS		
D1 B AND R NUMBERS														N/A		
														J1 ACTUAL COSTS PRIOR FYS		
ALL														N/A		
														J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT		
														52		
														K1 TOTAL CONTRACT VALUE		
														N/A		
														L1 UNFILLED ORDERS OUTSTANDING		
														N/A		
ACLURED COSTS		C1 PLANNED	22	15	15	0	0	52	M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD							
		D1 ACTUAL	40	5										45		
		E1 VARIANCE	-18	10												
		F1 CUM. VARIANCE	-18	-8											N/A	
REMARKS																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. 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 continued.
- .2 Pacific Basin Joint Feasibility Study. Officials of the Governments of the United States and Japan met in Washington, D.C. on November 13 and signed an agreement to begin the two-year Pacific Basin Joint Feasibility Study on January 1, 1981. The work plan developed at a meeting of experts in Tokyo on October 17, 20-21, was adopted. The Work Plan document, updated to incorporate comments provided by the Working Group meeting on November 13, will be distributed to both U.S. and Japanese representatives by December 8.

Work Guidance Documents that provide additional detailed descriptions and scheduling of the work to be performed are being prepared for tasks I-1.1, I-1.2, I-2.3 and T-1.1, T-1.3, T-1.4, and T-2.1 which are scheduled to start on or near January 1, 1981.

Support was provided to the steering committee in the definition of the types of generic island sites that will be considered in the Pacific Basin Study. The island types identified were: continental, volcanic, and coral atoll. The steering committee adopted this recommendation and recorded that these generic island site conditions would be used in the study. With most of these prestudy activities underway, it is anticipated that the Pacific Basin Joint Feasibility Study will start promptly as scheduled, and that coordination of the joint U.S.-Japanese work will go smoothly.

The agreed upon division of effort between the U.S. and the Japanese by task was used to formulate discrete task budgets for FY 81. Subsequently, work statements for subcontract activities were drafted. An operational procedure document for the Pacific Basin Joint Feasibility Study is being prepared. The document identifies joint responsibilities, schedules, documentation control, and presents operational procedures for organization and management of the study.

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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 was provided to Du Pont. The plan incorporated DOE/Du Pont comments. Further action is being held pending receipt of document release instructions.
- .2 Technology Transfer (Information Exchange). The first phase of activity covered by the International Cooperation Plan is the preparation for visitation to high priority countries. Preparation activities have included the following:
 - Submission of draft discussion papers for selected countries (October 3). These papers include reasons for desiring programs, rationale for other countries to participate, and descriptions of potential cooperative activities. These papers have been provided to Du Pont/DOE and await further instructions on release and distribution. One page briefs of these papers have also been prepared.
 - A draft topical report, International Organizations in Spent Fuel Management, has been forwarded to DuPont/DOE and awaits further instructions on release and distribution.
 - A draft topical report, Spent Fuel Management Policy and Programs for Selected Countries, has been prepared and shipped to Du Pont/DOE and awaits further instructions on release and distribution.
 - The program activity for FY 81 has been planned and includes a goal of establishing a minimum of one additional cooperative program.

Support to the International Atomic Energy Agency's (IAEA) Expert Group on International Spent Fuel Management has proceeded as follows:

- A basic volume on AFR cost analysis and two volumes containing detailed appendices prepared for term of reference 3 of the ISFM Subgroup A have been provided to IAEA. These volumes are being circulated to member states for comments which should be received at the next coordinators meeting in December.
- Reports have been received from the IAEA expert group on International Spent Fuel Management (ISFM Subgroup A) for tasks TR 1 (storage need), TR 2 (technology assembly), TR 4 (requirements standardization), and TR 5 (siting). Comments have been developed and provided for the U.S. expert.
- Preparation is underway to provide support to subgroup B of the ISFM.

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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 being worked on. 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 FY 81.
- .2 General Support. Fuel Movement - Support was provided on a request basis to assist in the planning process.
- .3 Program Management. The FY 81 cost proposal for BEC support was reviewed by DCAA and was modified to incorporate changes in overhead rates and forward costing on foreign travel.

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SAVANNAH RIVER OPERATIONS OFFICE
MILESTONE SCHEDULE AND STATUS REPORT

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

1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS												2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1641.																	
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																															
B1. B AND R NUMBERS		C1. COST PLAN DATE 16 DEC 80 C2. PLANNED COSTS PRIOR FY'S N/A C3. ACTUAL COSTS PRIOR FY'S N/A C4. TOTAL ESTIMATE FY COSTS FOR CONTRACT 241 C5. TOTAL CONTRACT VALUE N/A C6. UNFULLED ORDERS OUTSTANDING N/A												D1. COST PLAN DATE 16 DEC 80																	
														D2. PLANNED COSTS PRIOR FY'S N/A																	
														D3. ACTUAL COSTS PRIOR FY'S N/A																	
														D4. TOTAL ESTIMATE FY COSTS FOR CONTRACT 241																	
														D5. TOTAL CONTRACT VALUE N/A																	
														D6. UNFULLED ORDERS OUTSTANDING N/A																	
														E1. PLANNED 19		E2. ACTUAL 19		E3. VARIANCE 7		E4. CUM. VARIANCE 7		E5. PLANNED 19		E6. ACTUAL 15		E7. VARIANCE 4		E8. CUM. VARIANCE 11		E9. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD 27	
														F1. ACCURRED COSTS																	
														G1. REMARKS																	
														13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE										

164: ACTIVITIES INTEGRATION AND PLANNING

1643: General Support

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.

FORM 535
(1/1/78)
VPI FACSIMILE

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FORM DOE 536
(1/78)
VPI MODIFICATION

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

1. CONTRACT IDENTIFICATION DEVELOP OPERATIONAL TOOLS										2. REPORTING PERIOD 01 NOV 80 THROUGH 30 NOV 80		3. CONTRACT NUMBER 1643.														
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										9. COST PLAN DATE 16 DEC 80																
10. THOUSANDS										10. PLANNED COSTS PRIOR FTS																
11. ACTUAL COSTS PRIOR FTS										11. ACTUAL COSTS PRIOR FTS																
12. B AND R NUMBERS										12. TOTAL ESTIMATE FY COSTS FOR CONTRACT																
13. ALL										13. TOTAL CONTRACT VALUE																
14. UNFILLED ORDERS OUTSTANDING										14. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD																
15. REMARKS										16. N/A																
17. ACCRUED COSTS										17. N/A																
18. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										19. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																

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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 Management 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)