

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

DECEMBER 1-31, 1980

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**U. S. Department of Energy
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ABSTRACT

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

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

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

A glossary of AFR acronyms is included.

SECTION I
SUMMARY OF MONTHLY ACTIVITIES

11: PLANNING AND MANGEMENT

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

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

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

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

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

12: FACILITY ACQUISITION

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

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

13: LEGISLATIVE REQUIREMENTS

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

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

14: TECHNICAL SUPPORT

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

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

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

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

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

15: TRANSPORTATION

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

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

16: INTERNATIONAL ACTIVITY

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

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

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

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SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION SPENT FUEL STORAGE										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1					
4. CONTRACTOR NAME AND ADDRESS UPPER LEVEL WORK BREAKDOWN STRUCTURE										5. CONTRACT START DATE 1 OCT 79							
6. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	7. TOTALS		8. FY 81	
9. COST STATUS																	
A1 THOUSANDS B1 B AND R NUMBERS ITM 39-AS0		9000												G1 COST PLAN DATE 14 JAN 81			
		8500													H1 PLANNED COSTS PRIOR FYS		
		8000													N/A		
		7500													I1 ACTUAL COSTS PRIOR FYS		
		7000													N/A		
		6500													J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 8266		
		6000													K1 TOTAL CONTRACT VALUE		
		5500													L1 UNFILLED ORDERS OUTSTANDING N/A		
		5000													M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		4500													N/A		
4000													O1 ACTUAL				
3500													P1 CUM. VARIANCE				
3000													Q1 PLANNED				
2500													R1 ACTUAL				
2000													S1 VARIANCE				
1500													T1 CUM. VARIANCE				
1000													U1 PLANNED				
500													V1 ACTUAL				
0													W1 VARIANCE				
REMARKS																	
CONFLICT - FINANCIAL PLAN IS 5800 FY ESTIMATE IS 8266																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE										

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A1 THOUSANDS B1 B AND R NUMBERS DOM AS0505		9000											G1 COST PLAN DATE 14 JAN 81			
		8500												H1 PLANNED COSTS PRIOR FYS		
		8000												N/A		
		7500													I1 ACTUAL COSTS PRIOR FYS	
		7000													J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 7788	
		6500													K1 TOTAL CONTRACT VALUE	
		6000													L1 UNFILLED ORDERS OUTSTANDING N/A	
		5500													M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
		5000													N1 ACTUAL	
		4500													O1 CUM. VARIANCE	
4000													P1 PLANNED			
3500													Q1 ACTUAL			
3000													R1 VARIANCE			
2500													S1 CUM. VARIANCE			
2000													T1 PLANNED			
1500													U1 ACTUAL			
1000													V1 VARIANCE			
500													W1 CUM. VARIANCE			
0													X1 PLANNED			
REMARKS																
CONFLICT - FINANCIAL PLAN IS 6676 FY ESTIMATE IS 7788																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

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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																
B) B AND R NUMBERS FOR AS0510		A) COST PLAN DATE 13 JAN 81 H) PLANNED COSTS PRIOR FYS												G) COST PLAN DATE 13 JAN 81 H) PLANNED COSTS PRIOR FYS		
		I) ACTUAL COSTS PRIOR FYS												I) ACTUAL COSTS PRIOR FYS		
		J) TOTAL ESTIMATE FY COSTS FOR CONTRACT												J) TOTAL ESTIMATE FY COSTS FOR CONTRACT		
		K) TOTAL CONTRACT VALUE												K) TOTAL CONTRACT VALUE		
		L) UNFILLED ORDERS OUTSTANDING												L) UNFILLED ORDERS OUTSTANDING		
		M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD												M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
		N/A												N/A		
		N/A												N/A		
		N/A												N/A		
		N/A												N/A		
ACCURED COSTS		C) PLANNED	177	170	263	165	169	170	177	167	169	170	175	178	2150	
		D) ACTUAL	145	141	139										425	
		E) VARIANCE	32	29	124											
		F) CUM. VARIANCE	32	61	185										N/A	
REMARKS																
CONFLICT - FINANCIAL PLAN IS 2150 FY ESTIMATE IS 2900																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

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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																
B) B AND R NUMBERS ITM 39-AS0		A) COST PLAN DATE 14 JAN 81 H) PLANNED COSTS PRIOR FYS												G) COST PLAN DATE 14 JAN 81 H) PLANNED COSTS PRIOR FYS		
		I) ACTUAL COSTS PRIOR FYS												I) ACTUAL COSTS PRIOR FYS		
		J) TOTAL ESTIMATE FY COSTS FOR CONTRACT												J) TOTAL ESTIMATE FY COSTS FOR CONTRACT		
		K) TOTAL CONTRACT VALUE												K) TOTAL CONTRACT VALUE		
		L) UNFILLED ORDERS OUTSTANDING												L) UNFILLED ORDERS OUTSTANDING		
		M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD												M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
		N/A												N/A		
		N/A												N/A		
		N/A												N/A		
		N/A												N/A		
ACCURED COSTS		C) PLANNED	10	10	25	25	25	25	25	25	30	30	30	285		
		D) ACTUAL	9	29	13									51		
		E) VARIANCE	1	-19	12											
		F) CUM. VARIANCE	1	-18	-6									N/A		
REMARKS																
CONFLICT - FINANCIAL PLAN IS 285 FY ESTIMATE IS 822																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

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6. CONTRACT COMPLETION DATE 30 SEP 85											7. MONTHS O N D J F M A M J J A S	DOMESTIC FUNDING		
											TOTALS	B. FY 81		
8. COST STATUS														
RI THOUSANDS SI B AND R NUMBERS DOM AS0505	4500												GI COST PLAN DATE 14 JAN 81	
	4250												HI PLANNED COSTS PRIOR FYS N/A	
	4000												II ACTUAL COSTS PRIOR FYS N/A	
	3750												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 3793	
	3500												KI TOTAL CONTRACT VALUE N/A	
	3250												LI UNFILLED ORDERS OUTSTANDING N/A	
	3000												MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
	2750													
	2500													
	2250													
	2000													
	1750													
	1500													
	1250													
	1000													
750														
500														
250														
0														
ACCURRED COSTS	CI PLANNED	355	309	344	314	286	295	302	268	283	284	294	300	3634
	DI ACTUAL	281	259	244										784
	EI VARIANCE	74	50	100										
	FI CUM. VARIANCE	74	124	224										
REMARKS														
CONFlict - FINANCIAL PLAN IS 3634 FY ESTIMATE IS 3793														
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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6. CONTRACT COMPLETION DATE 30 SEP 85											7. MONTHS O N D J F M A M J J A S	INTERNATIONAL FUNDING	
											TOTALS	B. FY 81	
8. COST STATUS													
RI THOUSANDS SI B AND R NUMBERS FOR AS0510	45												GI COST PLAN DATE 13 JAN 81
	43												HI PLANNED COSTS PRIOR FYS N/A
	40												II ACTUAL COSTS PRIOR FYS N/A
	38												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 0
	35												KI TOTAL CONTRACT VALUE N/A
	33												LI UNFILLED ORDERS OUTSTANDING N/A
	30												MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A
	28												
	25												
	23												
	20												
	18												
	15												
	13												
	10												
8													
5													
3													
0													
ACCURRED COSTS	CI PLANNED	0	0	0	0	0	0	0	0	0	0	0	0
	DI ACTUAL	1	-1	4									4
	EI VARIANCE	-1	1	-4									
	FI CUM. VARIANCE	-1	0	-4									
REMARKS													
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

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1. CONTRACT IDENTIFICATION FACILITY ACQUISITION		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										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														
B1 B AND R NUMBERS ITM 39-ASO	AI	2250											GI COST PLAN DATE 14 JAN 81	
	2125												HI PLANNED COSTS PRIOR FYS	
	2000												N/A	
	1875												JI ACTUAL COSTS PRIOR FYS	
	1750												N/A	
	1625												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT	
	1500												3250	
	1375												KI TOTAL CONTRACT VALUE	
	1250												N/A	
	1125												LI UNFILLED ORDERS OUTSTANDING	
1000												N/A		
875												NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
750												N/A		
625												REMARKS		
CONFLICT - FINANCIAL PLAN IS 1692 FY ESTIMATE IS 3250														
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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												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														
B1 B AND R NUMBERS DOM AS0505	AI	900											GI COST PLAN DATE 14 JAN 81	
	850												HI PLANNED COSTS PRIOR FYS	
	800												N/A	
	750												JI ACTUAL COSTS PRIOR FYS	
	700												N/A	
	650												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT	
	600												743	
	550												KI TOTAL CONTRACT VALUE	
	500												N/A	
	450												LI UNFILLED ORDERS OUTSTANDING	
400												N/A		
350												REMARKS		
CONFLICT - FINANCIAL PLAN IS 720 FY ESTIMATE IS 743														
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

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1. CONTRACT IDENTIFICATION		2. REPORTING PERIOD										3. CONTRACT NUMBER					
LEGISLATIVE REQUIREMENTS		01 DEC 81 THROUGH 31 DEC 81										13					
4. CONTRACTOR (NAME AND ADDRESS)												5. CONTRACT START 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	900													G1 COST PLAN DATE			
	850													14 JAN 81			
	800													H1 PLANNED COSTS PRIOR FYS			
	750													N/A			
	700													I1 ACTUAL COSTS PRIOR FYS			
	650													N/A			
	600													J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT			
	550													767			
	500													K1 TOTAL CONTRACT VALUE			
	450													N/A			
ACCURRED COSTS		C1 PLANNED	54	54	54	54	54	54	54	54	59	60	55	L1 UNFILLED ORDERS OUTSTANDING			
		D1 ACTUAL	39	40	28									N/A			
		E1 VARIANCE	15	14	26									M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
		F1 CUM. VARIANCE	15	29	55									N/A			
REMARKS																	
CONFLICT - FINANCIAL PLAN IS 660 FY ESTIMATE IS 767																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

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LEGISLATIVE REQUIREMENTS		01 DEC 81 THROUGH 31 DEC 81										13					
4. CONTRACTOR (NAME AND ADDRESS)												5. CONTRACT START 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 DOM AS0505	90													G1 COST PLAN DATE			
	85													14 JAN 81			
	80													H1 PLANNED COSTS PRIOR FYS			
	75													N/A			
	70													I1 ACTUAL COSTS PRIOR FYS			
	65													N/A			
	60													J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT			
	55													150			
	50													K1 TOTAL CONTRACT VALUE			
	45													N/A			
ACCURRED COSTS		C1 PLANNED	4	4	6	9	9	9	9	10	10	11	10	L1 UNFILLED ORDERS OUTSTANDING			
		D1 ACTUAL	3	4	8									N/A			
		E1 VARIANCE	1	0	-2									M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
		F1 CUM. VARIANCE	1	1	-1									N/A			
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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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		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
BI B AND R NUMBERS ITM 39-ASO												GI COST PLAN DATE 14 JAN 81					
												HI PLANNED COSTS PRIOR FYS					
												N/A					
												II ACTUAL COSTS PRIOR FYS					
												N/A					
												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT					
												3427					
												KJ TOTAL CONTRACT VALUE					
												N/A					
												LI UNFILLED ORDERS OUTSTANDING					
N/A																	
ACCURED COSTS		CI PLANNED	292	300	274	344	378	284	283	245	235	199	186	143	3163		
		DI ACTUAL	329	170	473										972		
		EI VARIANCE	-37	130	-199												
		FI CUM. VARIANCE	-37	93	-106												
REMARKS CONFLICT - FINANCIAL PLAN IS 3163 FY ESTIMATE IS 3427																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

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7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
BI B AND R NUMBERS DOM AS0505												GI COST PLAN DATE 14 JAN 81					
												HI PLANNED COSTS PRIOR FYS					
												N/A					
												II ACTUAL COSTS PRIOR FYS					
												N/A					
												JI TOTAL ESTIMATE FY COSTS FOR CONTRACT					
												2302					
												KJ TOTAL CONTRACT VALUE					
												N/A					
												LI UNFILLED ORDERS OUTSTANDING					
N/A																	
ACCURED COSTS		CI PLANNED	122	122	114	113	116	114	140	112	109	111	118	111	1402		
		DI ACTUAL	100	164	153										417		
		EI VARIANCE	22	-42	-39												
		FI CUM. VARIANCE	22	-20	-59												
REMARKS CONFLICT - FINANCIAL PLAN IS 1402 FY ESTIMATE IS 2302																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

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VPI MODIFICATION

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

1. CONTRACT IDENTIFICATION TECHNICAL SUPPORT		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										3. CONTRACT NUMBER 14			
4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE		5. CONTRACT START DATE 1 OCT 79													
INTERNATIONAL FUNDING												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															
B1 B AND R NUMBERS FOR AS0510	A1												G1 COST PLAN DATE 13 JAN 81		
	450												H1 PLANNED COSTS PRIOR FYS		
	425												N/A		
	400												I1 ACTUAL COSTS PRIOR FYS		
	375												N/A		
	350												J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT		
	325												1120		
	300												K1 TOTAL CONTRACT VALUE		
	275												N/A		
	250												L1 UNFILLED ORDERS OUTSTANDING		
	225												N/A		
	200												M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
	175												N/A		
	150												REMARKS		
125												CONFlict - FINANCIAL PLAN IS 370 FY ESTIMATE IS 1120			
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 DEC 81 THROUGH 31 DEC 81										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														
B1 B AND R NUMBERS ITM 39-AS0	A1												G1 COST PLAN DATE 14 JAN 81	
	45												H1 PLANNED COSTS PRIOR FYS	
	43												N/A	
	40												I1 ACTUAL COSTS PRIOR FYS	
	38												N/A	
	35												J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT	
	33												0	
	30												K1 TOTAL CONTRACT VALUE	
	28												N/A	
	25												L1 UNFILLED ORDERS OUTSTANDING	
	23												N/A	
	20												M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
	18												N/A	
	15												REMARKS	
13												13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		
10												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE		
8														
5														
3														
0														
ACCURED COSTS	C1 PLANNED	0	0	0	0	0	0	0	0	0	0	0	N/A	
	D1 ACTUAL	0	0	0									0	
	E1 VARIANCE	0	0	0									0	
	F1 CUM. VARIANCE	0	0	0									N/A	

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1. CONTRACT IDENTIFICATION TRANSPORTATION												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81	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	TOTALS	8. FY 81		
9. COST STATUS															
BI B AND R NUMBERS DOM AS0505		10. THOUSANDS	900									11. COST PLAN DATE 14 JAN 81			
		850											12. PLANNED COSTS PRIOR FYS N/A		
		800											13. ACTUAL COSTS PRIOR FYS N/A		
		750											14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 800		
		700											15. TOTAL CONTRACT VALUE N/A		
		650											16. UNFILLED ORDERS OUTSTANDING N/A		
		600											17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		550													
		500													
		450													
400															
350															
300															
250															
200															
150															
100															
50															
0															
ACCURED COSTS		18. CI PLANNED	48	48	55	55	59	60	64	69	73	79	101	109	820
		19. DI ACTUAL	43	34	103										180
		20. EI VARIANCE	5	14	-48										
		21. FI CUM. VARIANCE	5	19	-29										
		REMARKS													
CONFLICT - FINANCIAL PLAN IS 820 FY ESTIMATE IS 800															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

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CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION TRANSPORTATION												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81	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	TOTALS	8. FY 81		
9. COST STATUS															
BI B AND R NUMBERS FOR AS0510		10. THOUSANDS	450									11. COST PLAN DATE 13 JAN 81			
		425											12. PLANNED COSTS PRIOR FYS N/A		
		400											13. ACTUAL COSTS PRIOR FYS N/A		
		375											14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 200		
		350											15. TOTAL CONTRACT VALUE N/A		
		325											16. UNFILLED ORDERS OUTSTANDING N/A		
		300											17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		275													
		250													
		225													
200															
175															
150															
125															
100															
75															
50															
25															
0															
ACCURED COSTS		22. CI PLANNED	2	2	107	7	8	8	8	8	10	10	15	15	200
		23. DI ACTUAL	7	6	58										71
		24. EI VARIANCE	-5	-4	49										
		25. FI CUM. VARIANCE	-5	-9	40										
		REMARKS													
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

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SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										3. CONTRACT NUMBER 16				
4. CONTRACTOR NAME AND ADDRESS: TO BE DETERMINED		INTERNATIONAL FUNDING										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		S. FY 81
8. COST STATUS																
9. THOUSANDS														10. GI COST PLAN DATE 13 JAN 81		
11. B AND R NUMBERS FOR AS0510														12. HI PLANNED COSTS PRIOR FYS N/A		
13. ACCURED COSTS														14. II ACTUAL COSTS PRIOR FYS N/A		
15. REMARKS														16. JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 1580		
17. KI TOTAL CONTRACT VALUE N/A														18. LI UNFILLED ORDERS OUTSTANDING N/A		
19. M. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A																
20. 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 DEVELOP LOGISTICS MODEL		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										3. CONTRACT NUMBER 19				
4. CONTRACTOR NAME AND ADDRESS: TO BE DETERMINED		INTERNATIONAL FUNDING										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		S. FY 81
8. COST STATUS														9. GI COST PLAN DATE 13 JAN 81		
10. THOUSANDS														11. HI PLANNED COSTS PRIOR FYS N/A		
12. B AND R NUMBERS FOR AS0510														13. II ACTUAL COSTS PRIOR FYS N/A		
14. ACCURED COSTS														15. JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 0		
16. REMARKS														17. KI TOTAL CONTRACT VALUE 0		
18. M. UNFILLED ORDERS OUTSTANDING N/A														19. N. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
20. 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. The draft annual report for update of the storage requirements was received for review (see 11212). Substantial revision of the document will be required before it is suitable for publication. As indicated earlier (July report), the storage requirements are lower than those previously estimated (DOE/NE-002). The reduced requirements are being incorporated into the draft near-term AFR EIS (see 1312).
- .2 Facility Evaluation and Selection. Unexpected delays in obtaining a contract with NUS Corp. will delay start of evaluation studies for the West Valley facility beyond January 1, 1981. The effect of this delay on the West Valley startup schedule will be determined.

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MILESTONE SCHEDULE AND STATUS REPORT

1. CONTRACT IDENTIFICATION FACILITY PLANNING				2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81												3. CONTRACT NUMBER 1111 .																		
4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA																5. CONTRACT START DATE 1 APRIL 79																		
7. IDENT. NUMBER				8. REPORTING CATEGORY				9. FISCAL YEARS				FT 1980				FT 1981				FT 1982				83 84 85			10. PERCENT COMPLETE							
												1	2	3	4	Q	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4			
1. 1 STORAGE REQUIREMENTS																											0							
1. 2 FACILITY SELECTION																											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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SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION FACILITY PLANNING												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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		8. FY 81	
9. COST STATUS																	
10. B AND R NUMBERS														11. COST PLAN DATE 13 JAN 81			
														12. PLANNED COSTS PRIOR FYS N/A			
13. ACTUAL COSTS PRIOR FYS N/A		14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 100															
		15. TOTAL CONTRACT VALUE N/A															
16. UNFULFILLED ORDERS OUTSTANDING N/A		17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A															
		18. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		19. 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, and direct technical effort to achieve the program goals.

ACTIVITY STATUS

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

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

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

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SAVANNAH RIVER OPERATIONS OFFICE
MILESTONE SCHEDULE AND STATUS REPORT

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1. CONTRACT IDENTIFICATION PROGRAM/BUDGET PLANNING & MANAGEMENT												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81			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 1981				FY 1982				10. PERCENT COMPLETE												
		FY 1980				1	2	3	4	O	N	D	J		F	M	A	M	J	J	A	S	1	2	3	4
. 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													

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SAVANNAH RIVER OPERATIONS OFFICE
CONTRACT MANAGEMENT SUMMARY REPORT

PROGRAM/BUDGET PLANNING & MANAGEMENT												01 DEC 81	THROUGH	31 DEC 81	1112.										
SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA												ALL FUNDING			5. CONTRACT START DATE 1 APR 79										
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81										
8. COST STATUS																									
B1 B AND R NUMBERS		THOUSANDS												GI COST PLAN DATE 13 JAN 81											
														MI PLANNED COSTS PRIOR FYS											
														N/A											
														II ACTUAL COSTS PRIOR FYS											
														N/A											
														III TOTAL ESTIMATE FY COSTS FOR CONTRACT											
														3481											
														XI TOTAL CONTRACT VALUE											
														N/A											
														LI UNFILLED ORDERS OUTSTANDING											
ACCURED COSTS		N/A																							
		CI PLANNED 174 181 221 225 202 206 219 179 187 193 201 203 2391																							
		DI ACTUAL 146 145 146																							
		EV VARIANCE 28 36 75																							
		FI CUM. VARIANCE 28 64 139																							
REMARKS																									
CONFlict - FINANCIAL PLAN IS 2391 FY ESTIMATE IS 3481																									
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE													

III: PLANNING

1113: Business Services

OBJECTIVE

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

ACTIVITY STATUS

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

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11. REMARKS

12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE

13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE

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SAVANNAH RIVER OPERATIONS OFFICE
RBT MANAGEMENT SUMMARY

VPI MODIFICATION CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION BUSINESS SERVICES SUPPORT												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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		0	N	0	J	F	M	A	M	J	J	A	S	TOTALS		8. FY	81
9. COST STATUS																	
10. THOUSANDS B) B AND R NUMBERS ALL		11. COST PLAN DATE 13 JAN 81															
		12. PLANNED COSTS PRIOR FYS N/A															
		13. ACTUAL COSTS PRIOR FYS N/A															
		14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 75															
		15. TOTAL CONTRACT VALUE N/A															
		16. UNFILLED ORDERS OUTSTANDING N/A															
		17. ACCRUED COSTS		CI PLANNED	6	6	6	6	6	6	6	7	7	7	75	18. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A	
				DI ACTUAL	6	4	6								16		
				EI VARIANCE	0	2	0										
				FI CUM. VARIANCE	0	2	2										
19. REMARKS																	
20. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE								21. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

III: PLANNING

III4: Contract Services Support

OBJECTIVE

Provide contract services for the AFR program.

ACTIVITY STATUS

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

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

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

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

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1. CONTRACT IDENTIFICATION CONTRACT SERVICES SUPPORT												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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	8. FY 81	
9. COST STATUS															
A) THOUSANDS	45												10. COST PLAN DATE 13 JAN 81		
	43												11. PLANNED COSTS PRIOR FY'S N/A		
	40												12. ACTUAL COSTS PRIOR FY'S N/A		
	38												13. TOTAL ESTIMATE FY COSTS FOR CONTRACT N/A		
	35												14. TOTAL CONTRACT VALUE 50		
	33												15. UNFILLED ORDERS OUTSTANDING N/A		
	30												16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
	28												17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		
	25												18. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE		
	23														
20															
ALL	18														
B) B AND R NUMBERS	15														
ALL	13														
ALL	10														
ALL	8														
ALL	5														
ALL	3														
ALL	0														
19. REMARKS															
CONFlict - FINANCIAL PLAN IS 47 FY ESTIMATE IS 50															

112: PLANNING SUPPORT

1121: Storage Studies

11212: Storage Logistics

OBJECTIVE

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

ACTIVITY STATUS

- .2.3 Revised Logistics Report. A draft of a spent fuel storage requirements and logistics report based on the updated 1980 data base has been delivered to DOE/SR for review.
- .3.1 Incorporating Transportation Logistics Mode. A complete transportation library for incorporation into the DISFUL computer code has been generated and DISFUL runs for the storage logistics report utilized this capability. Work in editing and displaying the transporation routes and in documenting the model. is proceeding.
- .3.2 Uncommitted Reactor Discharges. Work on including currently uncommitted reactors in the DISFUL code has been completed. The uncommitted reactors were included to account for the difference between the nuclear capacity of existing and planned reactors and EIA projected future nuclear capacity. EIA projections for low, mid, and high nuclear growth are available nationwide and by NERC region. On option, either of these projections can be included in the DISFUL code.
- .3.10 Provide AFR/EIS Drafts. Drafts for the AFR/EIS sections on AFR storage requirements have been developed and submitted to Argonne for review.
On the basis of the new 1980 data base, it has been decided to develop revised AFR/EIS drafts using the updated storage requirements. To expedite this effort, the transportation unit risk factors are being programmed into DISFUL to provide transportation impacts on an automated basis.
- .3.13 Update Data Base. The DISFUL data base has been updated and made available to DOE/SR. All runs and analyses are currently being coducted using the updated data base.

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CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION STORAGE LOGISTICS		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										3. CONTRACT NUMBER 11212.				
4. CONTRACTOR NAME AND ADDRESS S. M. STOLLER CORP. NEW YORK NEW YORK		ALL FUNDING										5. CONTRACT START DATE 20 JUN 78				
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														C1 COST PLAN DATE 14 JAN 81		
9. B1 B AND R NUMBERS														B1 PLANNED COSTS PRIOR FYS		
10. ALL														B1 ACTUAL COSTS PRIOR FYS		
11. THOUSANDS														B1 TOTAL ESTIMATE FY COSTS FOR CONTRACT		
12. ACCURRED COSTS														B1 TOTAL CONTRACT VALUE		
13. REMARKS														B1 UNFULFILLED ORDERS OUTSTANDING		
CONFlict - FINANCIAL PLAN IS 88 FY ESTIMATE IS 313														B1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE														B1 N/A		
16. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE														B1 N/A		

112: PLANNING SUPPORT

1122: Economic Assistance

OBJECTIVE

Perform economic studies to assist in program planning.

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION ECONOMIC ASSISTANCE		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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 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 2 3 4	83 84 85
. 1 ESTIMATE REWORKING C							100
. 2 DETERMINE RESIDUAL V							10
. 3 CONDUCT STUDIES FOR							0
. 4 SUPPORTING STUDIES F							100
. 5 SUPP STUDIES FOR TAS							75
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 ECONOMIC ASSISTANCE		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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 MAR 83		ALL FUNDING													
7. MONTHS	O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81	
9. COST STATUS															
9.1 B AND R NUMBERS														9.2 COST PLAN DATE 13 JAN 81	
9.4 ACTUAL COSTS PRIOR FYS														9.5 TOTAL ESTIMATE FY COSTS FOR CONTRACT 100	
9.6 TOTAL CONTRACT VALUE														9.7 UNFILLED ORDERS OUTSTANDING N/A	
9.8 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A														9.9 CUMULATIVE VARIANCE 100	
10. REMARKS															
11. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE				12. 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

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

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1. CONTRACT IDENTIFICATION LICENSING SUPPORT												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 11231.	
4. CONTRACTOR (NAME 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															
10. THOUSANDS B) B AND R NUMBERS ALL	45												11) COST PLAN DATE 13 JAN 81		
	43												12) PLANNED COSTS PRIOR FYS		
	40												N/A		
	38												13) ACTUAL COSTS PRIOR FYS		
	35												N/A		
	33												14) TOTAL ESTIMATE FY COSTS FOR CONTRACT		
	30												50		
	28												15) TOTAL CONTRACT VALUE		
	25												N/A		
	23												16) UNFILLED ORDERS OUTSTANDING		
20												N/A			
18												17) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
15												N/A			
13												18) CONTRACT NUMBER			
10												19) CONTRACTOR'S NAME			
8												20) CONTRACTOR'S ADDRESS			
5												21) GOVERNMENT TECHNICAL REPRESENTATIVE'S NAME			
3												22) GOVERNMENT TECHNICAL REPRESENTATIVE'S ADDRESS			
0												23) GOVERNMENT TECHNICAL REPRESENTATIVE'S PHONE NUMBER			
11. ACCRUED COSTS															
CI) PLANNED	4	4	4	4	4	4	4	4	4	4	5	5	50		
DI) ACTUAL	3	3	0										6		
EI) VARIANCE	1	1	4												
FI) CUM. VARIANCE	1	2	6										N/A		
12. REMARKS															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE															
14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE															

112: PLANNING SUPPORT

1124: General Support

11241: General Assistance

OBJECTIVE

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

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

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

ACTIVITY STATUS

.1 General Assistance. All work is complete.

.2 Identification of Public Concerns. Preparation of a draft final report continued.

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1. CONTRACT IDENTIFICATION GENERAL ASSISTANCE		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81												3. CONTRACT NUMBER 11241										
4. CONTRACTOR (NAME, ADDRESS) E. R. JOHNSON ASSOCIATES, INC VIENNA VIRGINIA														5. CONTRACT START DATE 12 FEBRUARY 79										
6. CONT. COMPLETION DATE 15 NOVEMBER 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	A	S	1	2	3	4	83	84	85
1. PROVIDE GEN TECH ASS		100																						
2. IDENTIFICATION OF PUB		75																						
11. REMARKS																								
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE											13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE													

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GENERAL ASSISTANCE												01 DEC 81 THROUGH 31 DEC 81		11241.	
E. R. JOHNSON ASSOCIATES, INC VIENNA VIRGINIA												ALL FUNDING		5. CONTRACT START DATE 12 FEB 79	
7. MONTHS		O	N	D	J	F	M	A	M	J	J	TOTALS		6. FY 81	
8. COST STATUS															
THOUSANDS	45											81 COST PLAN DATE			
	43											14 JAN 81			
	40											81 PLANNED COSTS PRIOR FYS			
	38											N/A			
	35											81 ACTUAL COSTS PRIOR FYS			
	33											N/A			
	30											81 TOTAL ESTIMATE FY COSTS FOR CONTRACT			
	28											100			
	25											81 TOTAL CONTRACT VALUE			
	23											N/A			
ALL	20											81 UNFILLED ORDERS OUTSTANDING			
	18											N/A			
	15											81 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
	13											N/A			
	10											13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE			
	8											14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			
	5											15. CONTRACT COMPLETION DATE 15 NOV 80			
	3														
	0														
	REMARKS												CONFLICT - FINANCIAL PLAN IS 0 FY ESTIMATE IS 100		

113: FEE

113I: Fee Methodology

OBJECTIVE

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

ACTIVITY STATUS

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

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4. CONTRACTOR (NAME, ADDRESS) BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON														5. CONTRACT START DATE 15 FEBRUARY 80						
														6. CONT. COMPLETION DATE INDEFINITE						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS FY 1980				FY 1981				FY 1982				10. PERCENT COMPLETE						
		1	2	3	4	0	N	D	J	F	M	A	M		J	J	A	1	2	3
. 1	COMPUTER CODE: CRSH																	100		
. 2	PREPARE FINAL REPORT																	0		
. 3	PREPARE FEE CALCULAT																	100		
. 4	SELECT NEW FEE METHO																	100		
. 5	CALCULATE FEE WITH V																	0		
. 6	DRAFT TOPICAL REPORT																	0		
. 7	TOPICAL REPORT ON FE																	0		
. 8	ANNUAL FEE CALCULATI																	0		
11. REMARKS																				
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																		

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1. CONTRACT IDENTIFICATION PNL-FEE METHOD		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81												3. CONTRACT NUMBER 1131		
4. CONTRACTOR (NAME AND ADDRESS) BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON		ALL FUNDING												5. CONTRACT START DATE 15 FEB 80		
														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	90												GI COST PLAN DATE 13 JAN 81		
		85													HI PLANNED COSTS PRIOR FYS N/A	
SI B AND R NUMBERS	ALL	75												II ACTUAL COSTS PRIOR FYS N/A		
		70													III TOTAL ESTIMATE FY COSTS FOR CONTRACT 100	
RCURRED COSTS	CI PLANNED	65												KI TOTAL CONTRACT VALUE N/A		
		60													LI UNFILLED ORDERS OUTSTANDING N/A	
RCURRED COSTS	DI ACTUAL	55												MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD 15		
		50													N/A	
RCURRED COSTS	EI VARIANCE	45														
		40														
RCURRED COSTS	FI CUM. VARIANCE	35														
		30														
REMARKS																
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		16. 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 awaits the revised storage requirements, the effect on the number of facilities, facility acquisition values, timing, and updated costs.

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1. CONTRACT IDENTIFICATION FEE UPDATE		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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																					
		1	2	3	4	5	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4	83	84	85	100% COMPLETE		
1	PREP INPT ON FEE & M																										100
2	CONT 2ND CONG REPT S																										100
3	DRAFT FEE REPORT																										30
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 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1132																								
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA				5. CONTRACT START DATE 1 OCT 78																								
				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																												
AI	THOUSANDS	45																									(i) COST PLAN DATE 13 JAN 81	
		43																										(ii) PLANNED COSTS PRIOR FYS N/A
		40																										(iii) ACTUAL COSTS PRIOR FYS N/A
		38																										(iv) TOTAL ESTIMATE FY COSTS FOR CONTRACT 50
		35																										(v) TOTAL CONTRACT VALUE N/A
		33																										(vi) UNFILLED ORDERS OUTSTANDING N/A
		30																										(vii) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A
		28																										
		25																										
		23																										
20																												
18																												
15																												
13																												
10																												
8																												
5																												
3																												
0																												
ACCURED COSTS		(c) PLANNED	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	50	(i) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A							
		(d) ACTUAL	2	2	3																(ii) PLANNED COSTS PRIOR FYS 7							
		(e) VARIANCE	2	2	1															(iii) ACTUAL COSTS PRIOR FYS N/A								
		(f) CUM. VARIANCE	2	4	5															(iv) TOTAL ESTIMATE FY COSTS FOR CONTRACT 50								
REMARKS																												
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE														14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE														

II5: PROGRAM MANAGEMENT

II5I: Information Systems

OBJECTIVE

Provide information services for the AFR program.

ACTIVITY STATUS

.3 Information Services. The following documents were published.

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

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

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1. CONTRACT IDENTIFICATION INFORMATION SERVICES		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1151.																		
4. CONTRACTOR NAME AND ADDRESS SAVANNAH RIVER PLANT 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	TOTALS		8. FY 81						
9. COST STATUS																						
A) THOUSANDS		450	425	400	375	350	325	300	275	250	225	200	175	150	125	100	75	50	25	0	C) COST PLAN DATE 13 JAN 81	
B) B AND R NUMBERS ALL														D) PLANNED COSTS PRIOR FY'S N/A								
														E) ACTUAL COSTS PRIOR FY'S N/A								
														F) TOTAL ESTIMATE FY COSTS FOR CONTRACT 251								
														G) TOTAL CONTRACT VALUE 251								
														H) UNFILLED ORDERS OUTSTANDING N/A								
														I) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A								
ACCURED COSTS		E) PLANNED	22	18	19	19	19	24	18	23	26	20	20	24			252		MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD 60			
		D) ACTUAL	16	27	17																	
		E) VARIANCE	6	-9	2																	
		F) CUM. VARIANCE	6	-3	-1																	
REMARKS																						
CONFlict - FINANCIAL PLAN IS 252 FY ESTIMATE IS 251										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE												
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE																						

115: PROGRAM MANAGEMENT

1152: Management Systems

OBJECTIVE

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

ACTIVITY STATUS

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

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4. CONTRACTOR NAME, ADDRESS VIRGINIA POLYTECHNIC INSTITUTE AND S. U. AIKEN SOUTH CAROLINA													5. CONTRACT START DATE 17 MAY 77					
													6. CONT. COMPLETION DATE 31 SEPTEMBER 82					
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	J	S		1	2
1	CONTINUED SYSTEM ENH		▼	▼			▼	*		□		▼						5
2	OPERATE MONTHLY PROG																	30
3	ADAPT EXIST COMPT DT				□				▼	▼	▼							0
4	ASSIST IN PROG PLANN																	30
5	SYSTEM DOCUMENTATION								▼	▼	▼							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 MANAGEMENT SYSTEMS			2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										3. CONTRACT NUMBER 1152.					
4. CONTRACTOR NAME AND ADDRESS VIRGINIA POLYTECHNIC INSTITUTE AND S. U. AIKEN SOUTH CAROLINA													5. CONTRACT START DATE 17 MAY 77					
													6. CONTRACT COMPLETION DATE 31 SEP 82					
7. MONTHS	0	N	D	J	F	M	A	M	J	J	R	S	TOTALS	8. FY	81			
9. COST STATUS																		
10. THOUSANDS	450															GI COST PLAN DATE 13 JAN 81		
	425															HI PLANNED COSTS PRIOR FYS		
	400															N/A		
	375															II ACTUAL COSTS PRIOR FYS		
	350															N/A		
	325															III TOTAL ESTIMATE FY COSTS FOR CONTRACT 199		
	300															N/A		
	275															IV TOTAL CONTRACT VALUE 199		
	250															N/A		
	225															VI UNFILLED ORDERS OUTSTANDING N/A		
200															N/A			
175															N/A			
150															N/A			
125															N/A			
100															N/A			
75															N/A			
50															N/A			
25															N/A			
0															N/A			
11. ACCRUED COSTS	GI PLANNED	15	15	15	15	15	15	16	16	16	16	16	185	MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD 46				
	DI ACTUAL	0	21	25														
	EI VARIANCE	15	-6	-10														
	FI CUM. VARIANCE	15	9	-1														
REMARKS																		
CONFLICT - FINANCIAL PLAN IS 185 FY ESTIMATE IS 199																		
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

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

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

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

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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 SANDIA FILM										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1153.					
4. CONTRACTOR (NAME AND ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO										ALL FUNDING		5. CONTRACT START DATE 1 OCT 79					
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
10. THOUSANDS BUDGET NUMBERS ALL		45												G) COST PLAN DATE 13 JAN 81			
		43													H) PLANNED COSTS PRIOR FYS N/A		
		40													I) ACTUAL COSTS PRIOR FYS N/A		
		38													J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 20		
		35													K) TOTAL CONTRACT VALUE N/A		
		33													L) UNFILLED ORDERS OUTSTANDING N/A		
		30													M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
		28													N/A		
		25													N/A		
		23													N/A		
		20													N/A		
		18													N/A		
		15													N/A		
		13													N/A		
		10													N/A		
8													N/A				
5													N/A				
3													N/A				
0													N/A				
ACCURRED COSTS		C) PLANNED	5	5	5	5	0	0	0	0	0	0	0	M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A			
		D) ACTUAL	5	5	5									N/A			
		E) VARIANCE	0	0	0									N/A			
		F) CUM. VARIANCE	0	0	0									N/A			
REMARKS																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

117: PUBLIC AND GOVERNMENTAL RELATIONS

1172: Institutional Transport Impediments

OBJECTIVES

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

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

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

ACTIVITY STATUS

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

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INSTITUTIONAL TRANSPORT IMPEDIMENTS												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81	3. CONTRACT NUMBER 1172.	
SOUTHERN STATES ENERGY BOARD ATLANTA GEORGIA												4. CONTRACTOR NAME AND ADDRESS	5. CONTRACT START DATE 26 SEP 79	
ALL FUNDING												6. CONTRACT COMPLETION DATE 25 DEC 81		
7. MONTHS	O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81
9. COST STATUS														
THOUSANDS	450												9. COST PLAN DATE 13 JAN 81	
	425												10. PLANNED COSTS PRIOR FYS	
	400												N/A	
	375												11. ACTUAL COSTS PRIOR FYS	
	350												N/A	
	325												12. TOTAL ESTIMATE FY COSTS FOR CONTRACT	
	300												185	
	275												13. TOTAL CONTRACT VALUE	
	250												N/A	
	225												14. UNFILLED ORDERS OUTSTANDING	
200												N/A		
175												15. ESTIMATE FOR SEGMENT REPORTING PERIOD		
150												N/A		
125												16. CUMULATIVE VARIANCE		
100												17. CUMULATIVE VARIANCE		
75												18. CUMULATIVE VARIANCE		
50												19. CUMULATIVE VARIANCE		
25												20. CUMULATIVE VARIANCE		
0												21. CUMULATIVE VARIANCE		
ACCURRED COSTS		CI. PLANNED	10	10	15	15	15	15	15	20	20	20	185	
		DI. ACTUAL	9	29	13								51	
		EI. VARIANCE	1	-19	2								N/A	
		FI. CUM. VARIANCE	1	-18	-16									
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. Changes to the Morris licensing documentation necessitated by 10 CFR 72 (effective December 12 1980) have been prepared in draft form and are being reviewed within GE. Redrafting and final changing are in progress. In addition to incorporating new requirements in the licensing documentation, certain other areas (e.g., design criteria) were augmented to clarify compliance with 10 CFR 72.
- .2.1 Design High Density Storage System. Preliminary designs for the basin 1, basin 2, and add-on basin high density basket-grid systems are nearing completion. Seismic stress analyses are in progress and thermal hydraulic analyses are being initiated for the various basket-grid systems. With the completion of these studies, the preliminary designs will be modified as required.
- .2.2 Design Cask Handling Station. Design of the cask handling station is approximately 70% completed. It includes a total of 48 drawings (30 of the cask decontamination and preparation areas, 14 structural, 2 piping, and 2 heating-ventilation). Of these, 20 have been revised after internal review, 21 are undergoing internal review, 4 are in preparation and 3 are not yet started.
- .2.3 Basin Wall Support Studies. Independent verification analyses are being made to determine that the basin wall support design is capable of withstanding design basis seismic events.
- .2.4 Design Wet Storage Radwaste Treatment Facility. An internal review of the new LAW vault evaporator design has been completed and the drawings are being revised.

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

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

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

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

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1. CONTRACT IDENTIFICATION PRELICENSING ACTIVITIES - MORRIS										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1212.				
4. CONTRACTOR (NAME AND ADDRESS) GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA										5. CONTRACT START DATE 1 MAY 80		6. CONTRACT COMPLETION DATE 31 AUG 81				
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															10. COST PLAN DATE 14 JAN 81	
															11. PLANNED COSTS PRIOR FYS N/A	
12. ACTUAL COSTS PRIOR FYS N/A		13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 704														
		14. TOTAL CONTRACT VALUE N/A														
15. UNFILLED ORDERS OUTSTANDING N/A		16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A														
		17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE														
18. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																

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

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

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1. CONTRACT IDENTIFICATION	PRELICENSING ACTIVITIES - BARNWELL										2. REPORTING PERIOD		3. CONTRACT NUMBER			
4. CONTRACTOR (NAME AND ADDRESS)	ALLIED GENERAL NUCLEAR SERVICES BARNWELL SOUTH CAROLINA										01 DEC 81 THROUGH 31 DEC 81		1222.			
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	A	S	TOTALS	B. FY	81
8. COST STATUS																
9.1														G) COST PLAN DATE		
9.2														13 JAN 81		
9.3														H) PLANNED COSTS PRIOR FYS		
9.4														N/A		
9.5														I) ACTUAL COSTS PRIOR FYS		
9.6														N/A		
9.7														J) TOTAL ESTIMATE FY COSTS FOR CONTRACT		
9.8														233		
9.9														K) TOTAL CONTRACT VALUE		
9.10														N/A		
9.11														L) UNFILLED ORDER OUTSTANDING		
9.12														N/A		
10.1	C) PLANNED	100	100	33	0	0	0	0	0	0	0	0	233	M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
10.2	D) ACTUAL	82	100	70									252			
10.3	E) VARIANCE	18	0	-37												
10.4	F) CUM. VARIANCE	18	18	-19									N/A			
REMARKS																
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. An interagency agreement has been executed between the department of Energy (DOE) and the U. S. Army Corps of Engineers whereby the Corps of Engineers will obtain independent appraisals of three separate properties (Allied General Nuclear Services, Barnwell Nuclear Fuel Plant (BNFP), Barnwell, S. C.; General Electric, Midwest Fuel Recovery Plant - Morris Operation (MO), Morris, Ill.; and Nuclear Fuels Services, Western New York Nuclear Service Center (WNYNSC), West Valley, N.Y.). The appraisals will include mapping, legal description and title evidence together with a current appraisal monetary value. Facility and site descriptions, slides and site maps of BNFP, MO and WNYNSC were prepared for DOE-SFPO as part of a briefing information package for the Corps of Engineers. Meetings were conducted with owners representatives of the BNFP and MO on December 3 and 4, respectively. The objectives of the meetings were - 1) to commence discussions regarding the availability of the facilities for purchase, lease or otherwise, and 2) to obtain from the facility owners information necessary to prepare a report to Congress. During the discussions the owners of the BNFP and MO facilities indicated a willingness to sell their facilities to the Government. A draft report on the meetings has been prepared.

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1. CONTRACT IDENTIFICATION ACQUISITION MANAGEMENT												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1291.	
4. CONTRACTOR NAME AND ADDRESS SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA												ALL FUNDING		5. CONTRACT START DATE 1 SEP 80	
7. MONTHS		O	N	D	J	F	M	A	M	J	J	TOTALS		8. FT 81	
9. COST STATUS															
B1 THOUSANDS		900										GI COST PLAN DATE 13 JAN 81			
		850											H1 PLANNED COSTS PRIOR FY'S		
		800											N/A		
		750											II ACTUAL COSTS PRIOR FY'S		
		700											N/A		
		650											J1 TOTAL ESTIMATE FT COSTS FOR CONTRACT 720		
		600											K1 TOTAL CONTRACT VALUE		
		550											N/A		
		500											L1 UNFILLED ORDERS OUTSTANDING		
		450											N/A		
B1 B AND R NUMBERS		400										M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
		350											N/A		
		300													
		250													
		200													
		150													
		100													
		50													
		0													
		ACCURED COSTS		C1 PLANNED	43	51	54	53	63	63	65	64	64	67	66
D1 ACTUAL	35			48	49										132
E1 VARIANCE	8			3	5										
F1 CUM. VARIANCE	8			11	16										
REMARKS															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE			

13: LEGISLATIVE REQUIREMENTS

131: NEPA ACTIVITIES

1312: AFR Environmental Impact Statement (ANL)

OBJECTIVE

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION ANL - EIS		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81												3. CONTRACT NUMBER 1312.						
4. CONTRACTOR (NAME, ADDRESS) ARGONNE NATIONAL LABORATORY														5. CONTRACT START DATE 1 OCTOBER 79						
														6. CONT. COMPLETION DATE 1 MAY 84						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS 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	85
. 1	INITIATE AFR-EIS																	100		
. 2	INCLUDE FINAL SITE R																	100		
. 3	NDI - NEAR TERM																	100		
. 4	COMPLT DRAFT OF NR-TR																	50		
. 5	NOTICE OF DEIS AND H																	0		
. 6	PUBLIC COMMENT																	0		
. 7	COR LST HNG & 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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4. CONTRACTOR (NAME AND ADDRESS) ARGONNE NATIONAL LABORATORY														5. CONTRACT START DATE 1 OCT 79		
														6. CONTRACT COMPLETION DATE 1 MAY 84		
7. MONTHS	O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81		
9. COST STATUS																
10. BUDGET AND ACTUAL COSTS IN THOUSANDS	450												11. COST PLAN DATE			
	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												370			
	275												KI TOTAL CONTRACT VALUE			
	250												N/A			
	225												LI UNFILLED ORDERS OUTSTANDING			
200												N/A				
175												MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD				
150												59				
125												N/A				
100																
75																
50																
25																
0																
11. PLANNED	30	30	30	30	30	30	30	30	35	35	30		370			
12. ACTUAL	19	20	20										59			
13. VARIANCE	11	10	10													
14. CUM. VARIANCE	11	21	31													
REMARKS																
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										16. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

I31: NEPA ACTIVITIES

I313: AFR-EIS Assistance to ANL (ORNL)

OBJECTIVE

Perform the following support tasks:

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

ACTIVITY STATUS

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

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

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1. CONTRACT IDENTIFICATION ORNL - EIS												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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		6. FY 81	
8. COST STATUS																	
9. THOUSANDS B AND R NUMBERS ALL		450												61 COST PLAN DATE 13 JAN 81			
		425													62 PLANNED COSTS PRIOR FY'S		
		400													N/A		
		375													63 ACTUAL COSTS PRIOR FY'S		
		350													N/A		
		325													64 TOTAL ESTIMATE FY COSTS FOR CONTRACT		
		300													297		
		275													65 TOTAL CONTRACT VALUE		
		250													N/A		
		225													66 UNFILLED ORDERS OUTSTANDING		
200													N/A				
175													67 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD				
150													N/A				
125													68 CUM. VARIANCE				
100													48				
75													69 CUM. VARIANCE				
50													24				
25													70 CUM. VARIANCE				
0													71 CUM. VARIANCE				
ACCURRED COSTS		CI PLANNED	24	24	24	24	24	24	24	24	24	25	25	72 CUM. VARIANCE			
		DI ACTUAL	20	20	8									73 CUM. VARIANCE			
		EI VARIANCE	4	4	16									74 CUM. VARIANCE			
		FI CUM. VARIANCE	4	8	24									75 CUM. VARIANCE			
REMARKS																	
CONFlict - FINANCIAL PLAN IS 290 FY ESTIMATE IS 297																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. 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

.3 Final Report. No activity required.

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REPORTS TO CONGRESS												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1321.	
SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA												ALL FUNDING		4. CONTRACTOR (NAME AND ADDRESS)	
7. MONTHS		O	N	D	J	F	M	A	M	J	J	TOTALS		8. FY 81	
9. COST STATUS															
A THOUSANDS B) B AND R NUMBERS ALL	45											6) COST PLAN DATE 13 JAN 81			
	43											7) PLANNED COSTS PRIOR FYS			
	40											8) ACTUAL COSTS PRIOR FYS			
	38											9) TOTAL ESTIMATE FY COSTS FOR CONTRACT			
	35											10) TOTAL CONTRACT VALUE			
	33											11) UNFILLED ORDERS OUTSTANDING			
	30											12) N/A			
	28											13) N/A			
	25											14) N/A			
	23											15) N/A			
20											16) N/A				
18											17) N/A				
15											18) N/A				
13											19) N/A				
10											20) N/A				
8											21) N/A				
5											22) N/A				
3											23) N/A				
0											24) N/A				
ACCURED COSTS	C) PLANNED	4	4	4	4	4	4	4	4	4	5	5	50		
	D) ACTUAL	3	4	4									11		
	E) VARIANCE	1	0	0											
	F) CUM. VARIANCE	1	1	1											
REMARKS															
9. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE															
14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE															

14: TECHNICAL SUPPORT

141: SAFETY AND ENVIRONMENTAL TECHNOLOGY

1411: Criticality Analysis in a Storage Array

OBJECTIVE

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

ACTIVITY STATUS

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

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

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

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1. CONTRACT IDENTIFICATION CRITICALITY ANALYSIS												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1411.			
4. CONTRACTOR NAME AND ADDRESS BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON												ALL FUNDING		5. CONTRACT START DATE 1 FEB 80			
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		E. FY	81
9. COST STATUS																	
B1 B AND R NUMBERS		C1 COST PLAN DATE 13 JAN 81															
		H1 PLANNED COSTS PRIOR FIS															
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		H2 ACTUAL COSTS PRIOR FIS															
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		H3 TOTAL ESTIMATE FY COSTS FOR CONTRACT															
		135															
		H4 TOTAL CONTRACT VALUE															
		N/A															
		H5 UNFILLED ORDERS OUTSTANDING															
ACCURED COSTS		N/A															
		C1 PLANNED															
		D1 ACTUAL															
		E1 VARIANCE															
		F1 CUM. VARIANCE															
REMARKS																	
19. 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 for test fuel storage at GE-Morris, including special design requirements, licensing and regulatory considerations, and costs.

ACTIVITY STATUS

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

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

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

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

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

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MILESTONE SCHEDULE AND STATUS REPORT

1. CONTRACT IDENTIFICATION		SPENT FUEL & POOL COMPONENT INTEGRITY												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81			3. CONTRACT NUMBER 1413.								
4. CONTRACTOR (NAME, ADDRESS)		BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON												5. CONTRACT START DATE 1 OCTOBER 78			6. CONT. COMPLETION DATE INDEFINITE								
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS FY 1980				FY 1981								FY 1982				83	84	85	10. PERCENT COMPLETE				
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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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CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION		SPENT FUEL & POOL COMPONENT INTEGRITY												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81			3. CONTRACT NUMBER 1413.		
4. CONTRACTOR (NAME AND ADDRESS)		BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON												5. CONTRACT START DATE 1 OCT 78			6. CONTRACT COMPLETION DATE CONTINUING		
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S		TOTALS	8. FY	81		
9. COST STATUS																			
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														II ACTUAL COSTS PRIOR FYS N/A					
														JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 740					
														K1 TOTAL CONTRACT VALUE N/A					
														L1 UNFILLED ORDERS OUTSTANDING N/A					
														M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A					
REMARKS																			
CONFLICT - FINANCIAL PLAN IS 700 FY ESTIMATE IS 740																			
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

142: DISASSEMBLY AND ROD STORAGE

1421: Underwater Disassembly

OBJECTIVE

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION UNDERWATER DISASSEMBLY										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81			3. CONTRACT NUMBER 1421					
4. CONTRACTOR (NAME, ADDRESS) NUCLEAR ASSURANCE CORP. ATLANTA GEORGIA										5. CONTRACT START DATE 1 MAY 79			6. CONT. COMPLETION DATE 30 SEPTEMBER 82					
7. IDENT. NUMBER	B. 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	PROTOTYPE DESIGN																	90
. 2	SAFETY ANALYSIS																	90
. 3	SMN ACCOUNTING																	98
. 4	ENVIRONMENTAL ANALYS																	50
. 5	EQUIPMENT PROCUREMEN																	65
. 6	DEMONSTRATION TESTS																	10
. 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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CONTRACT MANAGEMENT SUMMARY REPORT

1. CONTRACT IDENTIFICATION UNDERWATER DISASSEMBLY										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81			3. CONTRACT NUMBER 1421			
4. CONTRACTOR NAME AND ADDRESS NUCLEAR ASSURANCE CORP. ATLANTA GEORGIA										5. CONTRACT START DATE 1 MAY 79			6. CONTRACT COMPLETION DATE 30 SEP 82			
7. MONTHS		0	N	D	J	F	M	A	M	J	J	A	S	TOTALS	B. FY 81	
8. COST STATUS																
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											N/A					
											II ACTUAL COSTS PRIOR FYS					
											N/A					
											JI TOTAL ESTIMATE FY COSTS FOR CONTRACT					
											506					
											KJ TOTAL CONTRACT VALUE					
											N/A					
											LI UNFILLED ORDERS OUTSTANDING					
										N/A						
RECURRING COSTS		(C) PLANNED	83	86	67	129	71	28	24	9	9	0	0	0	506	
		(D) ACTUAL	80	37	64										181	
		(E) VARIANCE	3	49	3											
		(F) CUM. VARIANCE	3	52	55											
REMARKS																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

142: DISASSEMBLY AND ROD STORAGE

1422: Dry Disassembly

OBJECTIVE

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

ACTIVITY STATUS

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

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

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

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

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

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1. CONTRACT IDENTIFICATION DRY DISASSEMBLY		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81												3. CONTRACT NUMBER 1422														
4. CONTRACTOR NAME, ADDRESS ALLIED GENERAL NUCLEAR SERVICES BARNWELL SOUTH CAROLINA														5. CONTRACT START DATE 17 APRIL 80														
7. IDENT. NUMBER		8. REPORTING CATEGORY		9. FISCAL YEARS		FY 1981						FY 1982			10. PERCENT COMPLETE													
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. 4	PROCESS ASSESSMENT S																										30	
. 5	FINAL REPORT FOR COL																										0	
. 6	HOT DEMONSTRATIONS A																										0	
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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		D	N	D	J	F	M	A	M	J	J	R	S	TOTALS		E. FY 81
8. COST STATUS																
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		2125													H. PLANNED COSTS PRIOR FYS	
		2000													I. ACTUAL COSTS PRIOR FYS	
		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	
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E2 ACTUAL	157			172	215										544	
E3 VARIANCE	-37			-52	-95											
E4 CUM. VARIANCE	-37			-89	-184											
REMARKS																
CONFLICT - FINANCIAL PLAN IS 1447 FY ESTIMATE IS 1488																
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE									

142: DISASSEMBLY AND ROD STORAGE

1423: Fuel Rod Criticality

OBJECTIVE

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

ACTIVITY STATUS

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

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144: STORAGE ALTERNATIVES

1443: Conceptual Dry Storage -- Morris

OBJECTIVE

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

ACTIVITY STATUS

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

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

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

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

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

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

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1. CONTRACT IDENTIFICATION CONCEPTUAL DRY STORAGE - MORRIS										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1443.	
4. CONTRACTOR (NAME AND ADDRESS) GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA										5. CONTRACT START DATE 1 MAY 80			
6. CONTRACT COMPLETION DATE 30 NOV 81										7. MONTHS O N D J F M A M J J A S		8. FY 81	
										TOTALS			
9. COST STATUS										10. COST PLAN DATE 14 JAN 81			
11. PLANNED COSTS PAST FYS N/A										12. ACTUAL COSTS PAST FYS N/A			
13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 670										14. TOTAL CONTRACT VALUE N/A			
15. UNFULFILLED ORDERS OUTSTANDING N/A										16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A			
17. B AND M NUMBERS ALL		18. ACCRUED COSTS											
19. REMARKS													
20. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												21. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE	

145: OPERATIONS DATA AND ASSESSMENT

1453: Morris Test Program

OBJECTIVE

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

ACTIVITY STATUS

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

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

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

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

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

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

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3. CONTRACT IDENTIFICATION MORRIS TEST PROGRAM		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81										3. CONTRACT NUMBER 1453.					
4. CONTRACTOR NAME AND ADDRESS GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA		ALL FUNDING										5. CONTRACT START DATE 1 FEB 79					
6. CONTRACT COMPLETION DATE 31 JAN 82																	
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
10. THOUSANDS														10. COST PLAN DATE 14 JAN 81			
11. ALL														11. PLANNED COSTS PRIOR FYS N/A			
12. B AND R NUMBERS														12. ACTUAL COSTS PRIOR FYS N/A			
13. ALL														13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 397			
14. ACCURED COSTS														14. TOTAL CONTRACT VALUE N/A			
15. REMARKS														15. UNFILLED ORDERS OUTSTANDING N/A			
CONFLICT - FINANCIAL PLAN IS 387 FY ESTIMATE IS 397																	
16. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							17. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE										

146: GENERIC STUDIES

1463: Site Selection Method

OBJECTIVE

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

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION											
2. REPORTING PERIOD											
01 DEC 81 THROUGH 31 DEC 81											
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											
28 FEB 81											
7. MONTHS											
O N D J F M A M J J A S											
TOTALS 8. FY 81											
9. COST STATUS											
10. BUDGET											
11. ACTUAL											
12. VARIANCE											
13. CUM. VARIANCE											
14. REMARKS											
15. CONFLICT - FINANCIAL PLAN IS 81 FY ESTIMATE IS 74											
16. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE											
17. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE											

I47: SAFEGUARDS

I47I: 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 Sandia report on generic physical protection requirements and systems has been received.

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

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1. CONTRACT IDENTIFICATION PHYSICAL PROTECTION REQUIREMENTS		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1471.													
4. CONTRACTOR NAME AND ADDRESS SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO		5. CONTRACT START DATE 1 MAR 79		6. CONTRACT COMPLETION DATE 30 SEP 81													
7. MONTHS		G	N	O	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS														9.1 COST PLAN DATE 13 JAN 81			
10. BUDGET AND ACTUAL COSTS														10.1 PLANNED COSTS PRIOR FYS			
11. BUDGET AND ACTUAL COSTS														11.1 ACTUAL COSTS PRIOR FYS N/A			
12. BUDGET AND ACTUAL COSTS														12.1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 600			
13. UNFULFILLED ORDERS OUTSTANDING														13.1 TOTAL CONTRACT VALUE N/A			
14. REMARKS														14.1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A			
CONFLICT - FINANCIAL PLAN IS 350 FY ESTIMATE IS 600																	
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							16. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE										

147: SAFEGUARDS

1472: Accountability Systems

OBJECTIVE

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

ACTIVITY STATUS

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

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

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1. CONTRACT IDENTIFICATION ACCOUNTABILITY SYSTEMS												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1472.	
4. CONTRACTOR (NAME AND ADDRESS) LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS NEW MEXICO												5. CONTRACT START DATE 1 OCT 78			
6. CONTRACT COMPLETION DATE 30 SEP 81															
7. MONTHS		0	N	0	J	F	M	A	M	J	J	TOTALS	8. FY	81	
9. COST STATUS															
A) THOUSANDS B) B AND R NUMBERS ALL		450											CI COST PLAN DATE 13 JAN 81		
		425												HI PLANNED COSTS PRIOR FYS	
		400												N/A	
		375													
		350													
		325													
		300													
		275													
		250													
		225													
200															
175															
150															
125															
100															
75															
50															
25															
0															
ACCURRED COSTS		CI PLANNED	28	28	28	28	29	29	30	30	30	30	350	HI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
		DI ACTUAL	30	35	9									74	
		EI VARIANCE	-2	-7	19										
		FI CUM. VARIANCE	-2	-9	10										
		REMARKS													
CONFIDENTIAL - FINANCIAL PLAN IS 350 FY ESTIMATE IS 800															
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 generic physical protection report from Sandia has been reviewed. A review of safeguards programs at the GE Morris facility, with special emphasis on the relicensing program, is underway.

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1. CONTRACT IDENTIFICATION SAFEGUARDS AND NONPROLIFERATION SUPPORT												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1479.			
4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA												5. CONTRACT START DATE 1 MAY 79					
6. CONTRACT COMPLETION DATE 30 SEP 81																	
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
A THOUSANDS B) B AND R NUMBERS ALL		45												9. COST PLAN DATE 13 JAN 81			
		43													10. PLANNED COSTS PRIOR FYS		
		40													11. ACTUAL COSTS PRIOR FYS		
		38													12. TOTAL ESTIMATE FY COSTS FOR CONTRACT		
		35													13. TOTAL CONTRACT VALUE		
		33													14. UNFILLED ORDER OUTSTANDING		
		30													15. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
		28													16. N/A		
		25													17. N/A		
		23													18. N/A		
20													19. N/A				
18													20. 50				
15													21. N/A				
13													22. N/A				
10													23. N/A				
8													24. N/A				
5													25. N/A				
3													26. N/A				
0													27. N/A				
ACCURRED COSTS		C1 PLANNED	4	4	4	4	4	4	4	4	4	4	5	5	50		
		C2 ACTUAL	6	7	0										13		
		C3 VARIANCE	-2	-3	4												
		C4 CUM. VARIANCE	-2	-5	-1										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 INDUSTRY PROGRAMS

1511: Industry Survey

OBJECTIVE

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION INDUSTRY SURVEY												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1511.	
4. CONTRACTOR NAME AND ADDRESS SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO												5. CONTRACT START DATE 1 OCT 79		6. CONTRACT COMPLETION DATE 31 MAR 81	
7. MONTHS O N D J F M A M J J A S												8. COST STATUS ALL FUNDING		9. FY 81	
10. COST STATUS THOUSANDS												11. COST PLAN DATE 13 JAN 81		12. PLANNED COSTS PRIOR FY'S N/A	
13. ACTUAL COSTS PRIOR FY'S N/A												14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 40		15. TOTAL CONTRACT VALUE N/A	
16. UNFILLED ORDERS OUTSTANDING N/A												17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		18. REMARKS	
19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		20. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE													

151: TRANSPORT NEEDS AND CAPABILITY

1512: Carrier Workshops

OBJECTIVE

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION CARRIER WORKSHOPS								2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81					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 1981					FY 1982			10. PERCENT COMPLETE																					
		FY 1980	1	2	3	4	O	N	D	J	F	M	A		M	J	J	A	S	1	2	3	4	83	84	85									
1	CONDUCT CARRIER WORK	██████████				██████████					██████████			██████████			██████████			██████████			██████████			0									
2	PUBLISH TRANSCRIPTS	██████████				██████████					██████████			██████████			██████████			██████████			██████████			██████████			0						
3	WORKSHOP ANALYSIS	██████████				██████████					██████████			██████████			██████████			██████████			██████████			██████████			0						

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1. CONTRACT IDENTIFICATION CARRIER WORKSHOPS												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS	B. FY	81
8. COST STATUS												9. COST PLAN DATE 13 JAN 81																
10. PLANNED COSTS PRIOR FYS												11. ACTUAL COSTS PRIOR FYS																
12. TOTAL ESTIMATE FY COSTS FOR CONTRACT												13. TOTAL CONTRACT VALUE 35																
14. UNFILLED ORDERS OUTSTANDING												15. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A																
16. REMARKS		17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												18. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE														
19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												20. 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

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

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4. CONTRACTOR (NAME, ADDRESS) SANDIA LABORATORIES AIKEN SOUTH CAROLINA										5. CONTRACT START DATE 1 OCTOBER 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	O	N	D	J	F	M	A	M		J	J	A	S
. 1	DETERMINE METHODOLOG	[REDACTED]				[REDACTED]				[REDACTED]				[REDACTED]				100
. 2	DEVELOP LOGISTICS MO	[REDACTED]				[REDACTED]				[REDACTED]				[REDACTED]				0
. 3	DEVELOP OPERATIONAL	[REDACTED]				[REDACTED]				[REDACTED]				[REDACTED]				0
. 4	PUBLISH ANNUAL CASK	[REDACTED]				[REDACTED]				[REDACTED]				[REDACTED]				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 LOGISTICS MODEL DEVELOPMENT										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81			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	TOTALS		8. FY 81			
9. COST STATUS																			
A)		THOUSANDS	ALL FUNDING												GI COST PLAN DATE 13 JAN 81 HI PLANNED COSTS PRIOR FY'S N/A II ACTUAL COSTS PRIOR FY'S N/A JB TOTAL ESTIMATE FY COSTS FOR CONTRACT 130 K) TOTAL CONTRACT VALUE N/A L) UNFILLED ORDERS OUTSTANDING N/A M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A				
			450																
			425																
			400																
			375																
			350																
			325																
			300																
			275																
			250																
B) B AND R NUMBERS		225																	
				200															
				175															
				150															
				125															
				100															
				75															
				50															
				25															
				0															
ACCURED COSTS		C) PLANNED	5	5	5	5	6	7	7	10	10	10	10	15	45		130		
		D) ACTUAL	0	15	10												25		
		E) VARIANCE	5	-10	-5														
		F) CUM. VARIANCE	5	-5	-10														
REMARKS																			
15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										16. 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

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

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

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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														
91 THOUSANDS 91 B AND R NUMBERS ALL	450												91 COST PLAN DATE 13 JAN 81	
	425												91 PLANNED COSTS PRIOR FYS	
	400												N/A	
	375												91 ACTUAL COSTS PRIOR FYS	
	350												N/A	
	325												91 TOTAL ESTIMATE FT COSTS FOR CONTRACT	
	300												220	
	275												91 TOTAL CONTRACT VALUE	
	250												N/A	
	225												LI UNFILLED ORDERS OUTSTANDING	
200												N/A		
175												NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD		
150												N/A		
125												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE		
100												15. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		
75														
50														
25														
0														
ACCURRED COSTS	CI PLANNED	14	14	14	14	15	15	16	16	18	18	23	63	240
	DI ACTUAL	0	0	30										30
	EI VARIANCE	14	14	-16										
	FI CUM. VARIANCE	14	28	12										
REMARKS														
CONFLICT - FINANCIAL PLAN IS 240 FY ESTIMATE IS 220														

152: INSTITUTIONAL ISSUES

1521: Regulatory and Legislative Summaries

OBJECTIVE

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1521.			
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED												5. CONTRACT START DATE 1 OCT 79					
6. CONTRACT COMPLETION DATE CONTINUING																	
7. MONTHS		C	N	D	J	F	M	A	M	J	J	A	S	TOTALS		B. FY	81
9. COST STATUS																	
B1 B AND R THOUSANDS		45												G1 COST PLAN DATE 13 JAN 81			
		43													H1 PLANNED COSTS PRIOR FY'S		
		40													N/A		
		38													I1 ACTUAL COSTS PRIOR FY'S		
		35													N/A		
		33													J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT		
		30													25		
		28													K1 TOTAL CONTRACT VALUE		
		25													N/A		
		23													L1 UNFILLED ORDERS OUTSTANDING		
B1 ALL		20												N/A			
		18												M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
		15													N/A		
		13													O1		
		10													P1		
		8													Q1		
		5													R1		
		3													S1		
		0													T1		
		ACCURRED COSTS		C1 PLANNED	2	12	2	2	2	2	2	2	2	2	3	U1	
		D1 ACTUAL	0	4	0								4	V1			
		E1 VARIANCE	2	-2	2									W1			
		F1 CUM. VARIANCE	2	0	2									X1			
REMARKS																	
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE												14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE					

152: INSTITUTIONAL ISSUES

1522: EIS Transportation Support

OBJECTIVE

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

ACTIVITY STATUS

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

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CONTRACT MANAGEMENT CONTRACT REPORT													
1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL											5. CONTRACT NUMBER 1522.		
4. CONTRACTOR NAME AND ADDRESS TO BE DETERMINED											6. CONTRACT START DATE 1 OCT 79		
ALL FUNDING											6. CONTRACT COMPLETION DATE CONTINUING		
7. MONTHS	O	N	D	J	F	M	A	M	J	J	A	TOTALS	8. FY 81
9. COST STATUS													
AI	45											GI COST PLAN DATE 13 JAN 81	
	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											KI TOTAL CONTRACT VALUE	
	25											N/A	
	23											LI UNFILLED ORDER OUTSTANDING	
B) B AND R NUMBERS													
ALL	25											N/A	
	23											MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
	20											N/A	
	18											NI	
	15											REMARKS	
	13												
	10												
	8												
	5												
	3												
0													
C) PLANNED													
ACCUMULATED COSTS	2	2	2	2	3	3	3	3	5	5	10	10	50
	0	0	12										12
	2	2	-10										
	2	4	-6										
D) ACTUAL													
E) VARIANCE													
F) CUM. VARIANCE													
REMARKS													
SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE						

153: TRANSPORTATION INFORMATION

1532: Transportation Information Catalog

OBJECTIVE

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION TRANSPORTATION INFORMATION CATALOG		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1532																				
4. CONTRACTOR NAME, ADDRESS SANDIA LABORATORIES AIKEN SOUTH CAROLINA				5. CONTRACT START DATE 1 OCTOBER 79																				
				6. CONT. COMPLETION DATE INDEFINITE																				
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS		10. PERCENT COMPLETE																				
		FY 1980		FY 1981		FY 1982																		
1	FIRST DRAFT OF SOD	1	2	3	4	0	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4	83	84	85
2	FIRST ANNUAL SOD																							0
3	PROVIDE ANNUAL UPDT																							0

153: TRANSPORTATION INFORMATION

1533: Transportation Information Center

OBJECTIVE

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION TRANSPORTATION INFORMATION CENTER		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1533.																		
4. CONTRACTOR (NAME, ADDRESS) SANDIA LABORATORIES AIKEN SOUTH CAROLINA				5. CONTRACT START DATE 1 OCTOBER 79																		
6. CONT. COMPLETION DATE INDEFINITE																						
7. IDENT. NUMBER	8. REPORTING CATEGORY	9. FISCAL YEARS				10. PERCENT COMPLETE																
		FY 1980				FY 1981				FY 1982												
1	2	3	4	0	N	D	J	F	M	A	M	J	J	A	S	1	2	3	4	83	84	85
1	COLLECT TRANSPORTATI																					0
2	DISSEMINATE TRANSPOR																					0
3	SUPPLY TECHNICAL REP																					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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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															
A) THOUSANDS	450												9) COST PLAN DATE 13 JAN 81		
	425												10) PLANNED COSTS PAST FYS		
	400												N/A		
	375												11) ACTUAL COSTS PAST FYS		
	350												N/A		
	325												12) TOTAL ESTIMATE F/C COSTS FOR CONTRACT		
	300												130		
	275												K) TOTAL CONTRACT VALUE		
	250												N/A		
	225												14) UNFULLED ORDERS OUTSTANDING		
200												N/A			
ALL	175											15) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
ALL	150											N/A			
125												16) REMARKS			
100															
75															
50															
25															
0															
ACQUIRED COSTS	CI) PLANNED	8	8	8	8	8	8	8	8	9	9	9	39	130	
	DI) ACTUAL	25	2	22										49	
	EI) VARIANCE	-17	6	-14											
	FI) CUM. VARIANCE	-17	-11	-25											
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE															
14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE															

154: INTERNATIONAL PROGRAM SUPPORT

1541: Transportation Interface Data

OBJECTIVE

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

ACTIVITY STATUS

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

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1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1541.																																																					
4. CONTRACTOR NAME AND ADDRESS TO BE DETERMINED												5. CONTRACT START DATE 1 OCT 79		6. CONTRACT COMPLETION DATE CONTINUING																																																					
7. MONTHS		G	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81																																																			
9. COST STATUS																																																																			
ALL THOUSANDS ALL B1: B AND R NUMBERS		90												G1 COST PLAN DATE 13 JAN 81																																																					
		85													H1 PLANNED COSTS PRIOR FYS																																																				
		80													N/A																																																				
		75													J1 ACTUAL COSTS PRIOR FYS																																																				
		70													N/A																																																				
		65													K1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 100																																																				
		60													L1 TOTAL CONTRACT VALUE																																																				
		55													N/A																																																				
		50													M1 UNFILLED ORDERS OUTSTANDING																																																				
		45													N/A																																																				
40													O1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD																																																						
35													N/A																																																						
30													P1 SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE																																																						
25													Q1 SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																																																						
20													R1																																																						
15													S1																																																						
10													T1																																																						
5													U1																																																						
0													V1																																																						
ACCURRED COSTS		<table border="1"> <tr> <td>C1 PLANNED</td> <td>0</td><td>0</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td> </tr> <tr> <td>D1 ACTUAL</td> <td>7</td><td>6</td><td>48</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>61</td> </tr> <tr> <td>E1 VARIANCE</td> <td>-7</td><td>-6</td><td>52</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>F1 CUM. VARIANCE</td> <td>-7</td><td>-13</td><td>39</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>N/A</td> </tr> </table>												C1 PLANNED	0	0	100	0	0	0	0	0	0	0	0	100	D1 ACTUAL	7	6	48									61	E1 VARIANCE	-7	-6	52										F1 CUM. VARIANCE	-7	-13	39									N/A	W1	
		C1 PLANNED	0	0	100	0	0	0	0	0	0	0	0	100																																																					
		D1 ACTUAL	7	6	48									61																																																					
		E1 VARIANCE	-7	-6	52																																																														
F1 CUM. VARIANCE	-7	-13	39									N/A																																																							
														X1																																																					
														Y1																																																					
														Z1																																																					
REMARKS																																																																			
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE																																																																			
14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE																																																																			

16: INTERNATIONAL ACTIVITIES

161: FUEL TRANSFER PROGRAMS

1611: Transfer Plans

OBJECTIVE

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

ACTIVITY STATUS

No activity to report.

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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	ALL FUNDING	
8. COST STATUS		TOTALS												6. FY 81	
SI B AND A NUMBERS ALL														9. GI COST PLAN DATE 13 JAN 81	
														10. HI PLANNED COSTS PRIOR FYS	
														11. NI ACTUAL COSTS PRIOR FYS	
														12. NJ TOTAL ESTIMATE FY COSTS FOR CONTRACT	
														13. NK TOTAL CONTRACT VALUE	
														14. NL UNFILLED ORDER OUTSTANDING	
														15. NM ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	
														16. NQ N/A	
														17. NR N/A	
														18. NS N/A	
REMARKS															
19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE							20. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE								

162: STORAGE PROGRAM

1621: Multinational Storage Facility

OBJECTIVE

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

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

ACTIVITY STATUS

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

WGD I-I.1, I-I.2, I-I.3, I-2.1, I-2.2, I-2.3
WGD T-I.1, T-I.3, T-I.4, T-2.1

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

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

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CONTRACT MANAGEMENT SUMMARY REPORT															
1. CONTRACT IDENTIFICATION	DEVELOP LOGISTICS MODEL											2. REPORTING PERIOD	01 DEC 81 THROUGH 31 DEC 81	3. CONTRACT NUMBER	1621.
4. CONTRACTOR (NAME AND ADDRESS)	TO BE DETERMINED											4. FUNDING SOURCE	ALL FUNDING	5. CONTRACT START DATE	1 OCT 79
7. MONTHS	0	N	D	J	F	M	A	M	J	J	A	S	TOTALS	B. FY	81
8. COST STATUS															
9. EXPENDITURE													G. COST PLAN DATE	13 JAN 81	
10. BUDGET													H. PLANNED COSTS	PRIOR FYS	
11. ACTUAL													I. ACTUAL COSTS	PRIOR FYS	
12. CONTRACT													J. TOTAL ESTIMATE	FY COSTS FOR CONTRACT	
13. CONTRACT VALUE													K. TOTAL CONTRACT VALUE	679	
14. UNFILLED ORDERS													L. OUTSTANDING	N/A	
15. REMARKS													M. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD	N/A	
16. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE													17. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE		

163: INTERNATIONAL COOPERATION

1631: International Programs

OBJECTIVE

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

ACTIVITY STATUS

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

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

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1. CONTRACT IDENTIFICATION DEVELOP LOGISTICS MODEL										2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1631.					
4. CONTRACTOR (NAME AND ADDRESS) TO BE DETERMINED										5. CONTRACT START DATE 1 OCT 79		6. CONTRACT COMPLETION DATE CONTINUING					
7. MONTHS		O	N	D	J	F	M	A	M	J	J	A	S	TOTALS		8. FY 81	
9. COST STATUS																	
THOUSANDS		900												CI COST PLAN DATE 13 JAN 81			
		850													CH PLANNED COSTS PRIOR FYS		
		800													N/A		
		750													JJ ACTUAL COSTS PRIOR FYS		
		700													N/A		
		650													JI TOTAL ESTIMATE FY COSTS FOR CONTRACT		
		600													N/A		
		550													KJ TOTAL CONTRACT VALUE		
		500													N/A		
		450													LI UNFILLED ORDERS OUTSTANDING		
ALL		400												N/A			
		350												N/A			
		300												MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD			
		250													N/A		
		200													N/A		
		150													N/A		
		100													N/A		
		50													N/A		
		0													N/A		
		ACCURRED COSTS		CI PLANNED	57	56	41	44	44	44	43	43	43	34	36	528	
DI ACTUAL	53			43	43										139		
EJ VARIANCE	4			13	-2												
FJ CUM. VARIANCE	4			17	15												
REMARKS																	
11. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE										12. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE							

164: PROGRAM INTEGRATION

164I: Program Management and Planning

OBJECTIVE

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

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

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

ACTIVITY STATUS

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

FORM DOE 535
(1/1/78)
VPI FACSIMILE

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

PAGE 1 OF 1

1. CONTRACT IDENTIFICATION PROGRAM MANAGEMENT & SUPPORT		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		3. CONTRACT NUMBER 1641.																		
4. CONTRACTOR (NAME, ADDRESS) BOEING ENGINEERING AND CONSTRUCTION CO. SEATTLE WASHINGTON				5. CONTRACT START DATE 28 DECEMBER 79																		
				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	O	N					D	J	F	M	A	M	J	J	A	S	1
. 1	PROGRAM PLANNING																					0
. 2	GENERAL SUPPORT																					0
. 3	PROGRAM MANAGEMENT																					0
11. REMARKS																						
12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE		13. 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 DEVELOP LOGISTICS MODEL		2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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	8. FY 81							
9. COST STATUS																					
A) B AND R NUMBERS THOUSANDS	450														G) COST PLAN DATE 13 JAN 81						
	425														H) PLANNED COSTS PRIOR FY'S N/A						
	400														I) ACTUAL COSTS PRIOR FY'S N/A						
	375														J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 241						
	350														K) TOTAL CONTRACT VALUE 241						
	325														L) UNFILLED ORDERS OUTSTANDING N/A						
	300														M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A						
	275																				
B) D AND R NUMBERS ALL	250																				
	225																				
	200																				
	175																				
	150																				
ACCURRED COSTS	125																				
	100																				
	75																				
	50																				
C) PLANNED E) VARIANCE F) CUM. VARIANCE	25																				
	0																				
	19	19	19	20	20	21	20	20	21	20	20	20	22		241						
	12	15	6											33							
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: Program Management

OBJECTIVE

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

ACTIVITY STATUS

No activity to report.

FORM DOE 535
(1/1/78)
VPI FACS(MILE)

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

PAGE 1 OF 1

FORM DOE 536
(1/78)
VPI MODIFICATION

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

GENERAL SUPPORT												2. REPORTING PERIOD 01 DEC 81 THROUGH 31 DEC 81		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	0	N	D	J	F	M	A	M	J	J	A	S	TOTALS	8. FY 81	
9. COST STATUS															
10. THOUSANDS	90												11. COST PLAN DATE 13 JAN 81		
	85												12. PLANNED COSTS PRIORITY FIS		
	80												13. ACTUAL COSTS PRIORITY FIS		
	75												14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 80		
	70												15. TOTAL CONTRACT VALUE		
	65												16. UNFULFILLED ORDERS OUTSTANDING N/A		
	60												17. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A		
	55														
	50														
	45														
	40														
	35														
30															
25															
20															
15															
10															
5															
0															
11. ACCRUED COSTS															
C) PLANNED		6	6	6	6	7	7	7	7	7	7	80	D) ACTUAL		
E) VARIANCE		1	6	4								11			
F) CUM. VARIANCE		5	0	2											
12. REMARKS															
13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE													14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE		

AFR GLOSSARY

AFR -- Away From Reactor

AFR-EIS --Away-From-Reactor Environmental Impact Statement

AGNS -- Allied General Nuclear Services

ANL -- Argonne National Laboratory

ARB -- at-reactor basin

ASAR -- AFR Safety Analysis Report (conceptual)

BCL -- Battelle Columbus Laboratories

BEC -- Boeing Engineering and Construction Company

BEFAST -- Behavior of Fuel Assemblies during long-term Storage

BNFP -- Barnwell Nuclear Fuel Plant

BWR -- boiling water reactor

CERT -- constant extension rate test

COBRA-N -- thermal hydraulics computer program

COMPU.MAP --computer mapping program

CRP -- Center for Radiological Protection

DISFUL -- computer code (Stoller Corp.)

DOE -- Department of Energy

DOE/ER -- Department of Energy/Energy Research

DOE/EV -- Department of Energy/Environment

DOE/HQ -- Department of Energy/Headquarters

DOE/NE -- Department of Energy/Nuclear Energy

DOE/SR -- Department of Energy/Savannah River

DOS -- Department of State

EIS -- Environmental Impact Statement

ENC -- Exxon Nuclear Corp.

ER -- Environmental Report (conceptual)

FEMA -- Federal Emergency Management Agency

FRG -- Federal Republic of Germany

FRSS -- Fuel Receiving and Storage Station (AGNS-Barnwell)

FSF -- Fleet Servicing Facility

GE -- General Electric

GEIS -- Generic Environmental Impact Statement

GPSS -- General Purpose Simulation System

GWe -- gigawatts electric

HEDL -- Hanford Engineering Development Laboratory

IAEA -- International Atomic Energy Agency

IEAL -- International Energy Associates Limited

ISFM -- International Spent Fuel Management

ISFP -- International Spent Fuel Program

kWh -- kilowatt hour

LASL -- Los Alamos Scientific Laboratory

LWR -- light water reactor

MISTIC -- Model Interstate Scientific and Technical Information Clearinghouse

ml -- milliliter

MT -- metric ton

MTU -- metric ton of uranium

MW -- megawatt

MWD -- megawatt day

NAC -- Nuclear Assurance Corporation

NCSL -- National Conference of State Legislatures

NEPA -- National Environmental Protection Agency

NES -- Nuclear Energy Services

NFS -- Nuclear Fuel Services

NMMSS -- Nuclear Material 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)