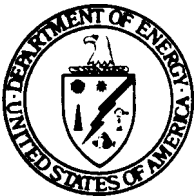


MONTHLY AWAY-FROM-REACTOR SPENT FUEL STORAGE REPORT AFR PROGRAM

SEPTEMBER 1-30, 1980



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

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SUMMARY

II: PLANNING AND MANAGEMENT

This section provides a general statement of monthly activities which are itemized under the applicable program area. Specific program objectives, associated project activity and cost and milestone charts are provided in subsequent status sections; e.g., II: PLANNING AND MANAGEMENT -- see page 5.

An AFR Monthly Program Review was presented to DOE/HQ on September 22 and 23. Special presentations were made, items of interest were discussed, and completed milestones and milestone exceptions were reviewed.

Publication of the revised AFR Program Plan has been scheduled for November. An additional \$10 million of 79-1-P money has been appropriated for the program during FY 1981.

Individual letters, an agenda and registration forms for the AFR Contractor Review Meeting on October 29 and 30 have been published, assembled and mailed to contractors, interest groups and AFR personnel. A detailed agenda and instructions have been prepared and mailed to individuals speaking at the meeting.

A task force has been formed to determine the economic value of the potential acquisition facilities to the AFR Program.

The analysis of 10CFR2 that resulted in a schedule of 32 months for licensing an AFR facility in a contested proceeding (May report) was reviewed by NRC and considered to be satisfactory.

Cross-statements filed by additional participants on NRC Waste Confidence Rulemaking have been analyzed and considered for possible new issues pertaining to spent fuel storage. A listing of all previous issues has been prepared by E. R. Johnson Associates.

E. R. Johnson Associates has completed review of transcripts of NRC proceedings related to the licensing of spent fuel storage facilities. Draft final report preparation has been initiated.

A program review meeting has been scheduled by the Southern States Energy Board for October 6 and 7 in Atlanta.

Assistance was provided in publicizing the extension of the comment period on the scope and outline for a draft environmental impact statement. Representatives contacted local newspapers and radio stations in areas surrounding three potential acquisition sites -- Barnwell, SC; Morris, IL; and West Valley, NY. Ads and announcements were run for three consecutive days. Libraries in the areas were also contacted to ensure that a copy of the Federal Register Notice of Intent was available to the public.

12: FACILITY ACQUISITION

A reinforced concrete buttress outside of the basin wall has been selected as the best method for supporting the south wall in the event of add-on pool construction at the Morris operation.

Preliminary storage basket designs for Morris operation are being reviewed by GE rack fabricators in Wilmington, NC to ensure a readily fabricated and cost effective design.

Design work for facility modifications at AGNS-BNPF has been completed and a final report is being compiled.

13: LEGISLATIVE REQUIREMENTS

A formal draft of the fee report for Congress, "Department of Energy Fee and Cost Studies of Spent Nuclear Fuel Storage and Disposal," DPSP-AFR-80-8-7, Revision 1, September 1980, has been issued and is being reviewed internally. Volume II, a collection of reports used in fee determination has been deleted because these reports are available to the public.

Preparation of the draft near-term AFR-EIS continues. Preliminary drafts of supporting material from S. M. Stoller Corp. and Sandia National Laboratories have been reviewed, and comments have been referred back to originators. A working copy of the draft AFR-EIS should be available in December.

14: TECHNICAL SUPPORT

The Technical Data Summary for AFR safeguards and nonproliferation concerns (DPSTD-AFR-80-43) has been issued. An activities schedule to meet the 1985 facility startup date is being prepared.

A preliminary assessment of results of destructive and nondestructive examination of Shippingport fuel indicates that none of the cladding properties have changed substantially during 21 years of water storage.

Fabrication of fuel bundle disassembly equipment at Offshore Power Systems for NAC is currently behind schedule; however, they expect to return to the original schedule.

Westinghouse has submitted the final draft of a program plan for dry storage studies to be conducted at the Nevada Test Site. Contract activity for this work is in progress.

John Hopkins University is continuing work on streamlining computer programs and developing and testing methods to address timing and capacity considerations in AFR site selection.

Experimental data from the first of five rod criticality cores have been obtained by Babcock and Wilcox.

15: TRANSPORTATION

Sandia Laboratories conducted high-velocity impact tests on spent fuel to determine released product dispersion. Data analysis is underway.

A computer model has been developed by Sandia to evaluate the thermal transient inside a spent fuel cask during and after an accident.

Transportation interface data sheets have been prepared for each foreign nuclear reactor. A final report will be complete in November.

16: INTERNATIONAL ACTIVITY

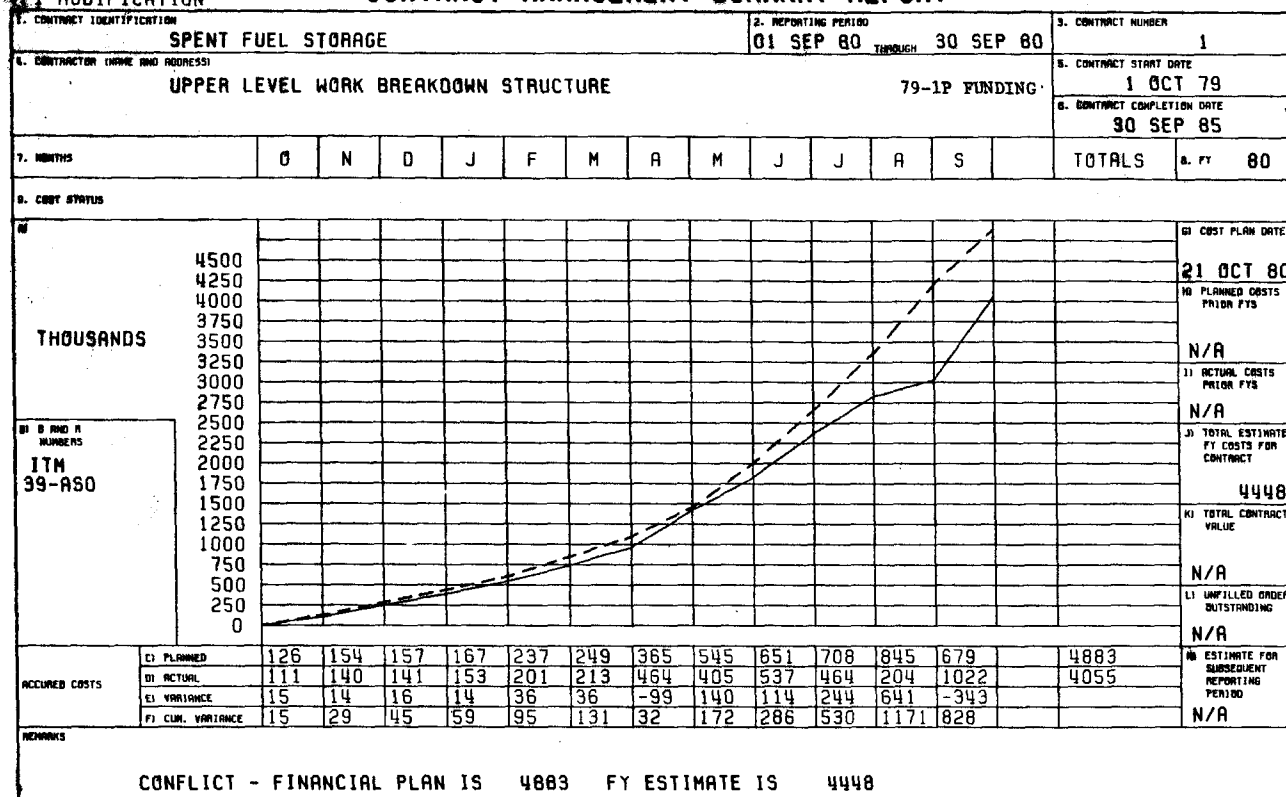
Work on the fuel transfer studies is essentially completed; reports are scheduled for release in early October.

A U. S. proposal for a work plan and allocation of tasks for the Pacific Basin Feasibility Study has been transmitted to the Japanese team to prepare for the initial joint working level meeting in October.

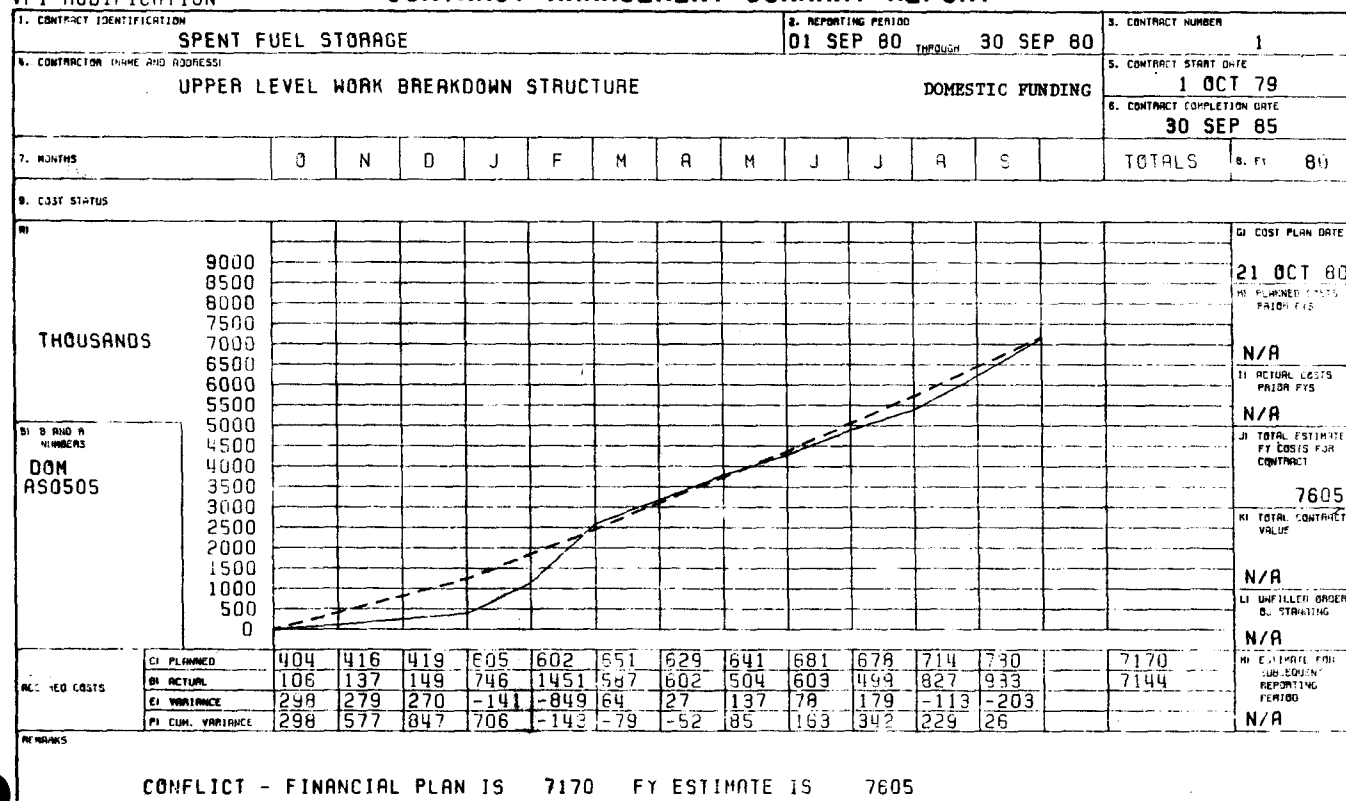
The draft report for Term of Reference 3 (Study of AFR and transportation costs) of the International Spent Fuel Management (ISFM) study has been transmitted to the International Atomic Energy Agency.

The International Cooperation Plan and discussion papers for three potential participants (countries) are being reviewed.

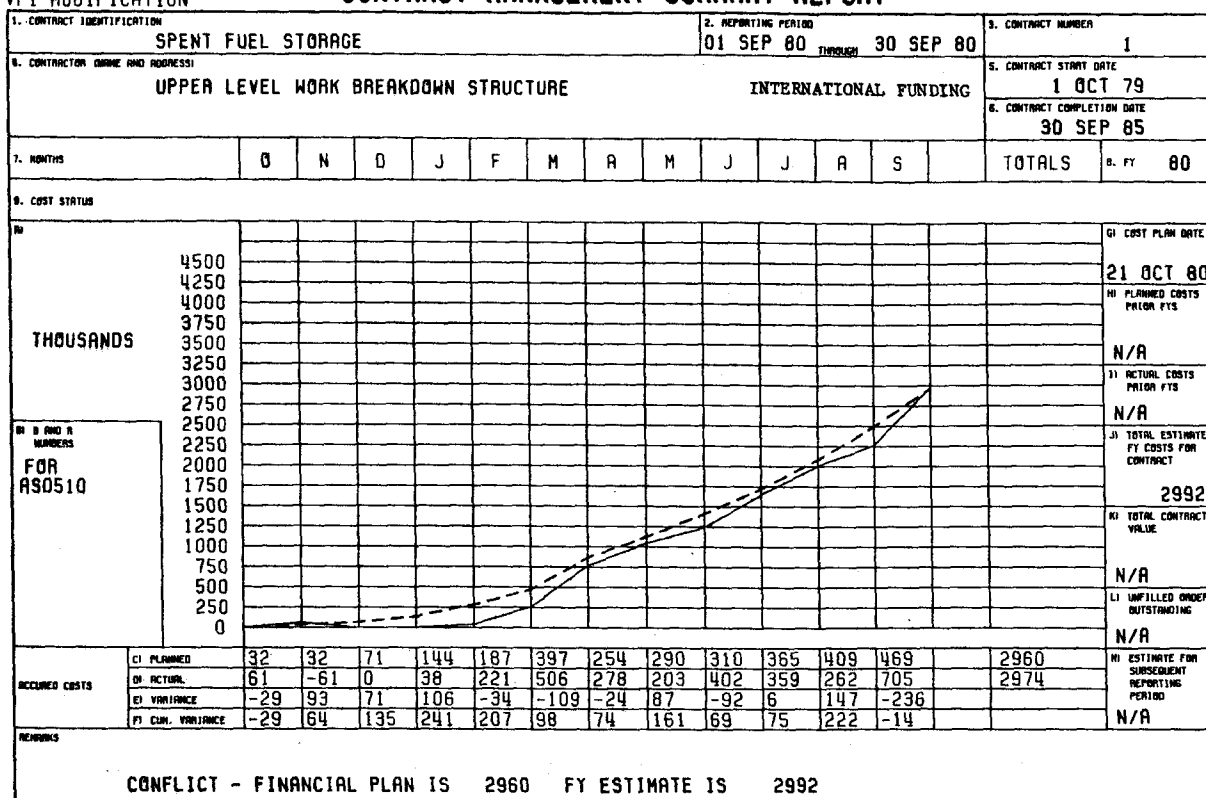
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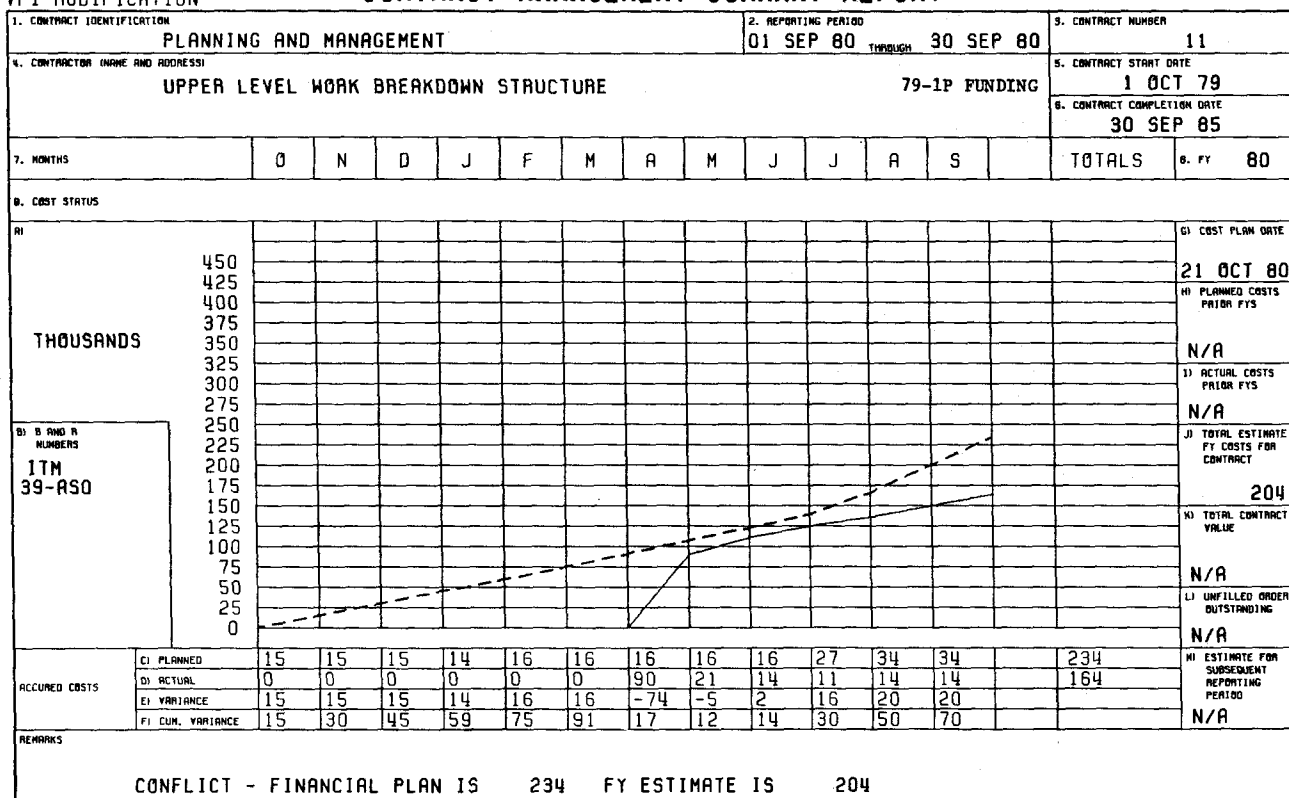
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| 4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE | | DOMESTIC FUNDING | | 5. CONTRACT START DATE 1 OCT 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 6. CONTRACT COMPLETION DATE 30 SEP 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. THOUSANDS 4500 4250 4000 3750 3500 3250 3000 2750 2500 2250 2000 1750 1500 1250 1000 750 500 250 0 | | | | | 11. COST PLAN DATE 21 OCT 80 12. PLANNED COST PRIOR FY N/A 13. ACTUAL COST PRIOR FY N/A 14. TOTAL ESTIMATE FY COSTS FOR CONTRACT 3237 15. TOTAL CONTRACT VALUE N/A 16. UNFILLED ORDERS OUTSTANDING N/A 17. ESTIMATE FY SUBSEQUENT REPORTING PERIOD N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. REQUIRED COSTS 19. DOM AS0505 | | <table border="1"> <tr> <td>CI PLANNED</td> <td>168</td> <td>167</td> <td>168</td> <td>240</td> <td>237</td> <td>230</td> <td>234</td> <td>255</td> <td>310</td> <td>318</td> <td>342</td> <td>340</td> <td>3015</td> </tr> <tr> <td>CI ACTUAL</td> <td>106</td> <td>108</td> <td>100</td> <td>131</td> <td>684</td> <td>115</td> <td>264</td> <td>204</td> <td>249</td> <td>257</td> <td>245</td> <td>443</td> <td>3002</td> </tr> <tr> <td>EI VARIANCE</td> <td>62</td> <td>59</td> <td>68</td> <td>109</td> <td>-447</td> <td>121</td> <td>-30</td> <td>51</td> <td>61</td> <td>61</td> <td>46</td> <td>-148</td> <td></td> </tr> <tr> <td>FY CUM. VARIANCE</td> <td>62</td> <td>121</td> <td>189</td> <td>298</td> <td>-149</td> <td>-28</td> <td>-58</td> <td>-7</td> <td>54</td> <td>115</td> <td>161</td> <td>12</td> <td></td> </tr> </table> | | | | CI PLANNED | 168 | 167 | 168 | 240 | 237 | 230 | 234 | 255 | 310 | 318 | 342 | 340 | 3015 | CI ACTUAL | 106 | 108 | 100 | 131 | 684 | 115 | 264 | 204 | 249 | 257 | 245 | 443 | 3002 | EI VARIANCE | 62 | 59 | 68 | 109 | -447 | 121 | -30 | 51 | 61 | 61 | 46 | -148 | | FY CUM. VARIANCE | 62 | 121 | 189 | 298 | -149 | -28 | -58 | -7 | 54 | 115 | 161 | 12 | |
| CI PLANNED | 168 | 167 | 168 | 240 | 237 | 230 | 234 | 255 | 310 | 318 | 342 | 340 | 3015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI ACTUAL | 106 | 108 | 100 | 131 | 684 | 115 | 264 | 204 | 249 | 257 | 245 | 443 | 3002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EI VARIANCE | 62 | 59 | 68 | 109 | -447 | 121 | -30 | 51 | 61 | 61 | 46 | -148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY CUM. VARIANCE | 62 | 121 | 189 | 298 | -149 | -28 | -58 | -7 | 54 | 115 | 161 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. REMARKS CONFLICT - FINANCIAL PLAN IS 3015 FY ESTIMATE IS 3237 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FORM DOE 536
(1/78)
VPI MODIFICATION

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

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| 18. REQUIRED COSTS 19. FOR AS0510 | | <table border="1"> <tr> <td>CI PLANNED</td> <td>14</td> <td>14</td> <td>14</td> <td>24</td> <td>22</td> <td>15</td> <td>13</td> <td>24</td> <td>24</td> <td>24</td> <td>24</td> <td>27</td> <td>239</td> </tr> <tr> <td>CI ACTUAL</td> <td>61</td> <td>-61</td> <td>0</td> <td>9</td> <td>41</td> <td>4</td> <td>82</td> <td>10</td> <td>19</td> <td>6</td> <td>67</td> <td>18</td> <td>256</td> </tr> <tr> <td>EI VARIANCE</td> <td>-47</td> <td>75</td> <td>14</td> <td>15</td> <td>-19</td> <td>11</td> <td>-69</td> <td>14</td> <td>5</td> <td>18</td> <td>-43</td> <td>9</td> <td></td> </tr> <tr> <td>FY CUM. VARIANCE</td> <td>-47</td> <td>28</td> <td>42</td> <td>57</td> <td>38</td> <td>49</td> <td>-20</td> <td>-6</td> <td>-1</td> <td>17</td> <td>-26</td> <td>-17</td> <td></td> </tr> </table> | | | | CI PLANNED | 14 | 14 | 14 | 24 | 22 | 15 | 13 | 24 | 24 | 24 | 24 | 27 | 239 | CI ACTUAL | 61 | -61 | 0 | 9 | 41 | 4 | 82 | 10 | 19 | 6 | 67 | 18 | 256 | EI VARIANCE | -47 | 75 | 14 | 15 | -19 | 11 | -69 | 14 | 5 | 18 | -43 | 9 | | FY CUM. VARIANCE | -47 | 28 | 42 | 57 | 38 | 49 | -20 | -6 | -1 | 17 | -26 | -17 | |
| CI PLANNED | 14 | 14 | 14 | 24 | 22 | 15 | 13 | 24 | 24 | 24 | 24 | 27 | 239 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI ACTUAL | 61 | -61 | 0 | 9 | 41 | 4 | 82 | 10 | 19 | 6 | 67 | 18 | 256 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EI VARIANCE | -47 | 75 | 14 | 15 | -19 | 11 | -69 | 14 | 5 | 18 | -43 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY CUM. VARIANCE | -47 | 28 | 42 | 57 | 38 | 49 | -20 | -6 | -1 | 17 | -26 | -17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1. CONTRACT IDENTIFICATION FACILITY ACQUISITIONS | | | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | 3. CONTRACT NUMBER 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE | | | | | | | | | | | | 5. CONTRACT START DATE 1 OCT 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 6. CONTRACT COMPLETION DATE 30 SEP 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. MONTHS O N D J F M A M J J A S | | | | | | | | | | | | TOTALS | | 8. FY 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td rowspan="10">THOUSANDS</td> <td>4500</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td rowspan="10"> 10. COST PLAN DATE 21 OCT 80 11. PLANNED COSTS PRIOR FY5 N/A 12. ACTUAL COSTS PRIOR FY5 N/A 13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 2309 14. TOTAL CONTRACT VALUE N/A 15. UNFILLED ORDERS OUTSTANDING N/A 16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A </td> </tr> <tr><td>4250</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3750</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3500</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3250</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2750</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2500</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2250</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="5">B AND A NUMBERS 17M 39-ASO</td> <td>2000</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr><td>1750</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1500</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1250</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td> <td>750</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td></td> <td>500</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td></td> <td>250</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td></td> <td>0</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> </table> | | | | | | | | | | | | | | | | THOUSANDS | 4500 | | | | | | | | | | | | | | | 10. COST PLAN DATE 21 OCT 80 11. PLANNED COSTS PRIOR FY5 N/A 12. ACTUAL COSTS PRIOR FY5 N/A 13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 2309 14. TOTAL CONTRACT VALUE N/A 15. UNFILLED ORDERS OUTSTANDING N/A 16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | 4250 | | | | | | | | | | | | | | | 4000 | | | | | | | | | | | | | | | 3750 | | | | | | | | | | | | | | | 3500 | | | | | | | | | | | | | | | 3250 | | | | | | | | | | | | | | | 3000 | | | | | | | | | | | | | | | 2750 | | | | | | | | | | | | | | | 2500 | | | | | | | | | | | | | | | 2250 | | | | | | | | | | | | | | | B AND A NUMBERS 17M 39-ASO | 2000 | | | | | | | | | | | | | | | | 1750 | | | | | | | | | | | | | | | | 1500 | | | | | | | | | | | | | | | | 1250 | | | | | | | | | | | | | | | | 1000 | | | | | | | | | | | | | | | | | 750 | | | | | | | | | | | | | | | | | 500 | | | | | | | | | | | | | | | | | 250 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | |
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| ACCUMULATED COSTS | | C1. PLANNED | 45 | 68 | 78 | 108 | 148 | 163 | 265 | 301 | 346 | 359 | 373 | 300 | 2554 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | D1. ACTUAL | 45 | 68 | 78 | 108 | 148 | 163 | 265 | 260 | 286 | 258 | 180 | 315 | 2174 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | F1. CUR. VARIANCE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 101 | 202 | 395 | 380 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONFLICT - FINANCIAL PLAN IS 2554 FY ESTIMATE IS 2309 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1. CONTRACT IDENTIFICATION FACILITY ACQUISITIONS | | | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | 3. CONTRACT NUMBER 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE | | | | | | | | | | | | 5. CONTRACT START DATE 1 OCT 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 6. CONTRACT COMPLETION DATE 30 SEP 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. MONTHS O N D J F M A M J J A S | | | | | | | | | | | | TOTALS | | 8. FY 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ACCUMULATED COSTS | | C1. PLANNED | 0 | 0 | 0 | 0 | 0 | 26 | 6 | 6 | 6 | 6 | 7 | 7 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | D1. ACTUAL | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 15 | 0 | 0 | 153 | 194 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | E1. VARIANCE | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | -9 | 6 | 7 | -146 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | F1. CUR. VARIANCE | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 12 | 3 | 9 | 16 | -130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONFLICT - FINANCIAL PLAN IS 64 FY ESTIMATE IS 217 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | | |
|---|--|-------------------|---|------------|---|---|---|---|---|--|----|----|----|---|---|----|
| 1. CONTRACT IDENTIFICATION LEGISLATIVE REQUIREMENTS | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | | 3. CONTRACT NUMBER 13 | |
| 4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE | | | | | | | | | | 79-1P FUNDING | | | | | 5. CONTRACT START DATE 1 OCT 79 | |
| | | | | | | | | | | | | | | | 6. CONTRACT COMPLETION DATE 30 APR 81 | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 | |
| 9. COST STATUS | | | | | | | | | | | | | | | | |
| THOUSANDS 450 425 400 375 350 325 300 275 250 225 200 175 150 125 100 75 50 25 0 | | | | | | | | | | | | | | G1 COST PLAN DATE 21 OCT 80 | | |
| | | | | | | | | | | | | | | H1 PLANNED COSTS PRIOR FYS N/A | | |
| | | | | | | | | | | | | | | I1 ACTUAL COSTS PRIOR FYS N/A | | |
| | | | | | | | | | | | | | | J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 150 | | |
| | | | | | | | | | | | | | | K1 TOTAL CONTRACT VALUE N/A | | |
| | | | | | | | | | | | | | | L1 UNFILLED ORDERS OUTSTANDING N/A | | |
| | | | | | | | | | | | | | | M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| | | ACCUMULATED COSTS | | C1 PLANNED | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 35 | 40 | 45 |
| | | D1 ACTUAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 26 | 1 | 53 | |
| | | E1 VARIANCE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 9 | 14 | 44 | | |
| | | F1 CUM. VARIANCE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 39 | 53 | 97 | | |
| REMARKS | | | | | | | | | | | | | | | | |

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | | |
|---|--|-------------------|----|------------|-----|------|------|------|-----|--|----|----|----|---|---|----|
| 1. CONTRACT IDENTIFICATION LEGISLATIVE REQUIREMENTS | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | | 3. CONTRACT NUMBER 13 | |
| 4. CONTRACTOR (NAME AND ADDRESS) UPPER LEVEL WORK BREAKDOWN STRUCTURE | | | | | | | | | | DOMESTIC FUNDING | | | | | 5. CONTRACT START DATE 1 OCT 79 | |
| | | | | | | | | | | | | | | | 6. CONTRACT COMPLETION DATE 30 APR 81 | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 | |
| 9. COST STATUS | | | | | | | | | | | | | | | | |
| THOUSANDS 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0 | | | | | | | | | | | | | | G1 COST PLAN DATE 21 OCT 80 | | |
| | | | | | | | | | | | | | | H1 PLANNED COSTS PRIOR FYS N/A | | |
| | | | | | | | | | | | | | | I1 ACTUAL COSTS PRIOR FYS N/A | | |
| | | | | | | | | | | | | | | J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 851 | | |
| | | | | | | | | | | | | | | K1 TOTAL CONTRACT VALUE N/A | | |
| | | | | | | | | | | | | | | L1 UNFILLED ORDERS OUTSTANDING N/A | | |
| | | | | | | | | | | | | | | M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| | | ACCUMULATED COSTS | | C1 PLANNED | 43 | 74 | 61 | 63 | 57 | 62 | 50 | 66 | 75 | 78 | 75 | 70 |
| | | D1 ACTUAL | 0 | 0 | 0 | 208 | 194 | 108 | 32 | 21 | 19 | 44 | 40 | 58 | 724 | |
| | | E1 VARIANCE | 83 | 74 | 61 | -145 | -137 | -46 | 18 | 47 | 56 | 34 | 35 | 12 | | |
| | | F1 CUM. VARIANCE | 83 | 157 | 218 | 73 | -64 | -110 | -92 | -45 | 11 | 45 | 80 | 92 | | |
| REMARKS | | | | | | | | | | | | | | | | |
| CONFLICT - FINANCIAL PLAN IS 816 FY ESTIMATE IS 851 | | | | | | | | | | | | | | | | |

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | |
|--|--|-----------------------------|--|-----------------------------|--|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
| TECHNICAL SUPPORT | | 01 SEP 80 THROUGH 30 SEP 80 | | 14 | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | |
| UPPER LEVEL WORK BREAKDOWN STRUCTURE | | INTERNATIONAL FUNDING | | 1 OCT 79 30 SEP 85 | |
| 7. MONTHS | | 8. TOTALS | | 9. FY 80 | |
| O N D J F M A M J J A S | | | | | |
| 9. COST STATUS | | | | | |
| 10. THOUSANDS | | | | | |
| 11. B AND R NUMBERS FOR AS0510 | | | | | |
| 12. COST PLAN DATE | | | | | |
| 21 OCT 80 | | | | | |
| 13. PLANNED COSTS PRIOR FTS | | | | | |
| N/A | | | | | |
| 14. ACTUAL COSTS PRIOR FTS | | | | | |
| N/A | | | | | |
| 15. TOTAL ESTIMATE FY COSTS FOR CONTRACT | | | | | |
| 401 | | | | | |
| 16. TOTAL CONTRACT VALUE | | | | | |
| N/A | | | | | |
| 17. UNFILLED ORDERS OUTSTANDING | | | | | |
| N/A | | | | | |
| 18. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | | | | | |
| N/A | | | | | |
| 19. ACCUMULATED COSTS | | | | | |
| 20. B AND R NUMBERS FOR AS0510 | | | | | |
| 21. PLANNED | | | | | |
| 22. ACTUAL | | | | | |
| 23. VARIANCE | | | | | |
| 24. COM. VARIANCE | | | | | |
| 25. REMARKS | | | | | |

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | |
|--|--|-----------------------------|--|-----------------------------|--|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
| TRANSPORTATION | | 01 SEP 80 THROUGH 30 SEP 80 | | 15 | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | |
| UPPER LEVEL WORK BREAKDOWN STRUCTURE | | DOMESTIC FUNDING | | 1 OCT 79 30 SEP 85 | |
| 7. MONTHS | | 8. TOTALS | | 9. FY 80 | |
| O N D J F M A M J J A S | | | | | |
| 9. COST STATUS | | | | | |
| 10. THOUSANDS | | | | | |
| 11. B AND R NUMBERS FOR AS0505 | | | | | |
| 12. COST PLAN DATE | | | | | |
| 21 OCT 80 | | | | | |
| 13. PLANNED COSTS PRIOR FTS | | | | | |
| N/A | | | | | |
| 14. ACTUAL COSTS PRIOR FTS | | | | | |
| N/A | | | | | |
| 15. TOTAL ESTIMATE FY COSTS FOR CONTRACT | | | | | |
| 1000 | | | | | |
| 16. TOTAL CONTRACT VALUE | | | | | |
| N/A | | | | | |
| 17. UNFILLED ORDERS OUTSTANDING | | | | | |
| N/A | | | | | |
| 18. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | | | | | |
| N/A | | | | | |
| 19. ACCUMULATED COSTS | | | | | |
| 20. B AND R NUMBERS FOR AS0505 | | | | | |
| 21. PLANNED | | | | | |
| 22. ACTUAL | | | | | |
| 23. VARIANCE | | | | | |
| 24. COM. VARIANCE | | | | | |
| 25. REMARKS | | | | | |

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

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|--|---|-----------------------------|---|-----------------------------|---|---|---|---|---|---|---|---|--------|---|----|--|--|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | | | | | | | | | | | | | |
| TRANSPORTATION | | 01 SEP 80 THROUGH 30 SEP 80 | | 15 | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | | | |
| UPPER LEVEL WORK BREAKDOWN STRUCTURE | | INTERNATIONAL FUNDING | | 1 OCT 79 | | | | | | | | | | | | | |
| | | | | 30 SEP 85 | | | | | | | | | | | | | |
| 7. MONTHS | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FT | 80 | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | G1 COST PLAN DATE 21 OCT 80 H1 PLANNED COSTS PRIOR FY'S N/A I1 ACTUAL COSTS PRIOR FY'S N/A J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 500 K1 TOTAL CONTRACT VALUE N/A L1 UNFULFILLED ORDERS OUTSTANDING N/A | | | |
| M1 B AND R NUMBERS FOR RS0510 C1 PLANNED 5 5 5 15 15 185 45 45 40 35 35 70 500 D1 ACTUAL 0 0 0 29 21 188 24 26 87 41 20 64 500 E1 VARIANCE 5 5 5 -14 -6 -3 21 19 -47 -6 15 6 F1 CUR. VARIANCE 5 10 15 1 -5 -8 13 32 -15 -21 -6 0 | | | | | | | | | | | | | | | | N1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | |
| REMARKS | | | | | | | | | | | | | | | | | |

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

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|--|---|-----------------------------|---|-----------------------------|---|---|---|---|---|---|---|---|--------|--|----|--|--|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | | | | | | | | | | | | | |
| INTERNATIONAL ACTIVITIES | | 01 SEP 80 THROUGH 30 SEP 80 | | 16 | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | | | |
| UPPER LEVEL WORK BREAKDOWN STRUCTURE | | INTERNATIONAL FUNDING | | 1 OCT 79 | | | | | | | | | | | | | |
| | | | | 30 SEP 82 | | | | | | | | | | | | | |
| 7. MONTHS | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FT | 80 | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | G1 COST PLAN DATE 21 OCT 80 H1 PLANNED COSTS PRIOR FY'S N/A I1 ACTUAL COSTS PRIOR FY'S N/A J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 1820 K1 TOTAL CONTRACT VALUE N/A L1 UNFULFILLED ORDERS OUTSTANDING N/A | | | |
| M1 B AND R NUMBERS FOR RS0510 C1 PLANNED 0 0 38 91 135 172 171 177 201 256 279 300 1820 D1 ACTUAL 0 0 0 0 111 289 158 149 257 278 123 452 1817 E1 VARIANCE 0 0 38 91 24 -117 13 28 -56 -22 156 -152 F1 CUR. VARIANCE 0 0 38 129 153 36 49 77 21 -1 155 3 | | | | | | | | | | | | | | | | N1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | |
| REMARKS | | | | | | | | | | | | | | | | | |

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

- .02 Facility Evaluation. An outline for the Congressional Cost Report requested by the House Interstate and Foreign Commerce Committee was drafted and is being reviewed. A venture analysis cost team was established to provide input into the facility value studies. A list of independent appraisers certified by the Corps of Engineers was compiled. One or more of these appraisers will be selected to provide an appraisal of the three existing commercial facilities. A schedule has been developed showing near-term interaction of appraisals, venture analysis, and congressional report preparation. The schedule will be expanded to show all aspects of the acquisition-negotiation process.

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 FACILITY PLANNING | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1111 | |
| 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 1979 | | | |
| | | FY 1980 | | | |
| | | FY 1981 | | | |
| | | 82 83 84 | | | |
| | | 10. PERCENT COMPLETE | | | |
| 1 | STORAGE REQUIREMENTS | 0 | | | |
| 2 | FACILITY EVALUATION | 0 | | | |
| 3 | FACILITY SELECTION | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1. CONTRACT IDENTIFICATION FACILITY PLANNING | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA | | 5. CONTRACT START DATE 1 APR 79 | | 6. CONTRACT COMPLETION DATE CONTINUING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. MONTHS | O N O J F M A M J J A S | | | | | | | | | | TOTALS | 8. FY 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td rowspan="10">THOUSANDS</td> <td>450</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td rowspan="10"> D1 COST PLAN DATE 21 OCT 80 H1 PLANNED COSTS PRIOR FYS N/A I1 ACTUAL COSTS PRIOR FYS N/A J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 150 K1 TOTAL CONTRACT VALUE N/A L1 UNFILLED ORDERS OUTSTANDING N/A M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A </td> </tr> <tr><td>425</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>400</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>375</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>350</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>325</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>300</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>275</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>250</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>225</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="10">ALL</td> <td>200</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr><td>175</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>150</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>125</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>75</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | | | | | | | | | | | | | THOUSANDS | 450 | | | | | | | | | | | | D1 COST PLAN DATE 21 OCT 80 H1 PLANNED COSTS PRIOR FYS N/A I1 ACTUAL COSTS PRIOR FYS N/A J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 150 K1 TOTAL CONTRACT VALUE N/A L1 UNFILLED ORDERS OUTSTANDING N/A M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | 425 | | | | | | | | | | | | 400 | | | | | | | | | | | | 375 | | | | | | | | | | | | 350 | | | | | | | | | | | | 325 | | | | | | | | | | | | 300 | | | | | | | | | | | | 275 | | | | | | | | | | | | 250 | | | | | | | | | | | | 225 | | | | | | | | | | | | ALL | 200 | | | | | | | | | | | | 175 | | | | | | | | | | | | 150 | | | | | | | | | | | | 125 | | | | | | | | | | | | 100 | | | | | | | | | | | | 75 | | | | | | | | | | | | 50 | | | | | | | | | | | | 25 | | | | | | | | | | | | 0 | | | | | | | | | | | |
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| | <table border="1"> <tr> <td rowspan="4">ACCURED COSTS</td> <td>C1 PLANNED</td> <td>10</td><td>10</td><td>11</td><td>11</td><td>11</td><td>6</td><td>6</td><td>6</td><td>7</td><td>7</td><td>7</td><td>8</td><td>100</td> </tr> <tr> <td>D1 ACTUAL</td> <td>0</td><td>0</td><td>0</td><td>0</td><td>53</td><td>6</td><td>6</td><td>6</td><td>4</td><td>7</td><td>26</td><td>23</td><td>131</td> </tr> <tr> <td>E1 VARIANCE</td> <td>10</td><td>10</td><td>11</td><td>11</td><td>-42</td><td>0</td><td>0</td><td>0</td><td>3</td><td>0</td><td>-19</td><td>-15</td><td></td> </tr> <tr> <td>F1 CUR. VARIANCE</td> <td>10</td><td>20</td><td>31</td><td>42</td><td>0</td><td>0</td><td>0</td><td>0</td><td>3</td><td>3</td><td>-16</td><td>-31</td><td></td> </tr> </table> | | | | | | | | | | | | | ACCURED COSTS | C1 PLANNED | 10 | 10 | 11 | 11 | 11 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 100 | D1 ACTUAL | 0 | 0 | 0 | 0 | 53 | 6 | 6 | 6 | 4 | 7 | 26 | 23 | 131 | E1 VARIANCE | 10 | 10 | 11 | 11 | -42 | 0 | 0 | 0 | 3 | 0 | -19 | -15 | | F1 CUR. VARIANCE | 10 | 20 | 31 | 42 | 0 | 0 | 0 | 0 | 3 | 3 | -16 | -31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACCURED COSTS | C1 PLANNED | 10 | 10 | 11 | 11 | 11 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D1 ACTUAL | 0 | 0 | 0 | 0 | 53 | 6 | 6 | 6 | 4 | 7 | 26 | 23 | | 131 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E1 VARIANCE | 10 | 10 | 11 | 11 | -42 | 0 | 0 | 0 | 3 | 0 | -19 | -15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | F1 CUR. VARIANCE | 10 | 20 | 31 | 42 | 0 | 0 | 0 | 0 | 3 | 3 | -16 | -31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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III: PLANNING

III2: Program/Budget Plans

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

- .01 Program Plans. The first revision to the AFR program plan has been delayed. Publication is now scheduled for November.
- .02 Budget. The following appropriation levels were specified for the fiscal year 1981 AFR program.

| <u>Funding Type</u> | <u>(\$1,000)</u> |
|---------------------|------------------|
| Domestic | 8,000 |
| International | 3,000 |
| 79-I-P | 10,000 |
| Capital Equipment | 1,000 |

- .03 Steering. The October monthly program review for DOE/HQ personnel will be held at SRP on October 31. The program scope for this month is limited since the review follows immediately after the AFR program contractor review sessions.

FORM DOE 536
(1/78)
VPI MODIFICATION

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III: PLANNING

III.3: Business Services

OBJECTIVE

Develop economic criteria and determine economic value of potential AFR sites. Provide planning and services required for the commercial business office aspects of the AFR program. Assist with facility negotiations -- preliminary and final.

ACTIVITY STATUS

- .01 Facility Value. A list of tasks was developed to aid in identifying those activities that must be accomplished to complete the evaluation study. A task force has been formed and assignments issued. The major steps to completion of the evaluation are:
- Define alternatives to existing facilities
 - Develop life cycle costs of alternatives
 - Determine facility cost component of alternatives
 - Develop life cycle costs of existing facilities utilizing the Fair Market Value provided by a contract appraiser
 - Utilize facility cost component from alternative in a revenue value study to determine existing facility values
- .03 Contract Office. The Du Pont model contract and the DOE/OGC version were submitted to S. M. Stoller for summarization of differences and recommendations as to a model contract based on a combination of the two.

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| 1. CONTRACT IDENTIFICATION | | BUSINESS SERVICES | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1113 | |
| 4. CONTRACTOR (NAME, ADDRESS) | | SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA | | 5. CONTRACT START DATE 1 APRIL 79 | | 6. CONT. COMPLETION DATE INDEFINITE | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | FY 1980 | | FY 1981 | |
| | | 1 2 3 4 | | O N D J F M A M J J A S | | 1 2 3 4 | |
| 1 | FACILITY VALUE | | | | | | |
| 2 | BUSINESS OFFICE | | | | | | |
| 3 | CONTRACT OFFICE PCT | | | | | | |
| 4 | OPERATIONS MANAGEMENT | | | | | | |
| 11. REMARKS | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | |

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| 6. CONTRACT COMPLETION DATE CONTINUING | | 7. MONTHS | | O N D J F M A M J J A S | | TOTALS | |
| 8. COST STATUS | | 9. FY | | 80 | | | |
| A1 | | THOUSANDS | | B1 COST PLAN DATE 21 OCT 80 | | N1 PLANNED COSTS PRIOR FTS | |
| B1 B AND R NUMBERS | | ALL | | N/A | | N/A | |
| C1 PLANNED | | 6 4 4 6 6 3 7 7 7 10 10 10 80 | | N/A | | N/A | |
| D1 ACTUAL | | 6 4 4 6 6 2 6 6 6 6 6 6 64 | | N/A | | N/A | |
| E1 VARIANCE | | 0 0 0 0 0 1 1 1 1 4 4 4 | | N/A | | N/A | |
| F1 CUM. VARIANCE | | 0 0 0 0 0 1 2 3 4 8 12 16 | | N/A | | N/A | |
| G1 UNFULFILLED ORDERS OUTSTANDING | | | | N/A | | N/A | |
| H1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | | | | N/A | | N/A | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | |

112: PLANNING SUPPORT

1122: 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 for a wide range of conditions and parameters. The data base should contain reactor and pool information in all operating and planned domestic power reactors, and be updated periodically with information obtained from the utilities.

Capability of calculating the number of fuel casks needed in any given year to transport the spent fuel is possible.

ACTIVITY STATUS

- .03.2 Uncommitted Reactor Discharges. Programming is about 80% complete and is being tested. A reactor model for uncommitted PWR and BWR reactors and their fuel pools has been developed. Provision was made to incorporate three nuclear growth scenarios into the code. These scenarios will be those developed by the Energy Information Administration.
- .03.13 Update Data Base. Work continued on coding information from the 1980 data base confirmation forms supplied by utilities. To date, information from 150 reactors has been recorded on punched cards. Responses have not been received for 28 reactors and 14 reactors were cancelled or deferred.

A detailed check of punched cards is underway and utility responses are being rechecked for completeness, consistency, and accuracy. About 68 were completed. Utilities were contacted as required to resolve questions

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112: PLANNING SUPPORT

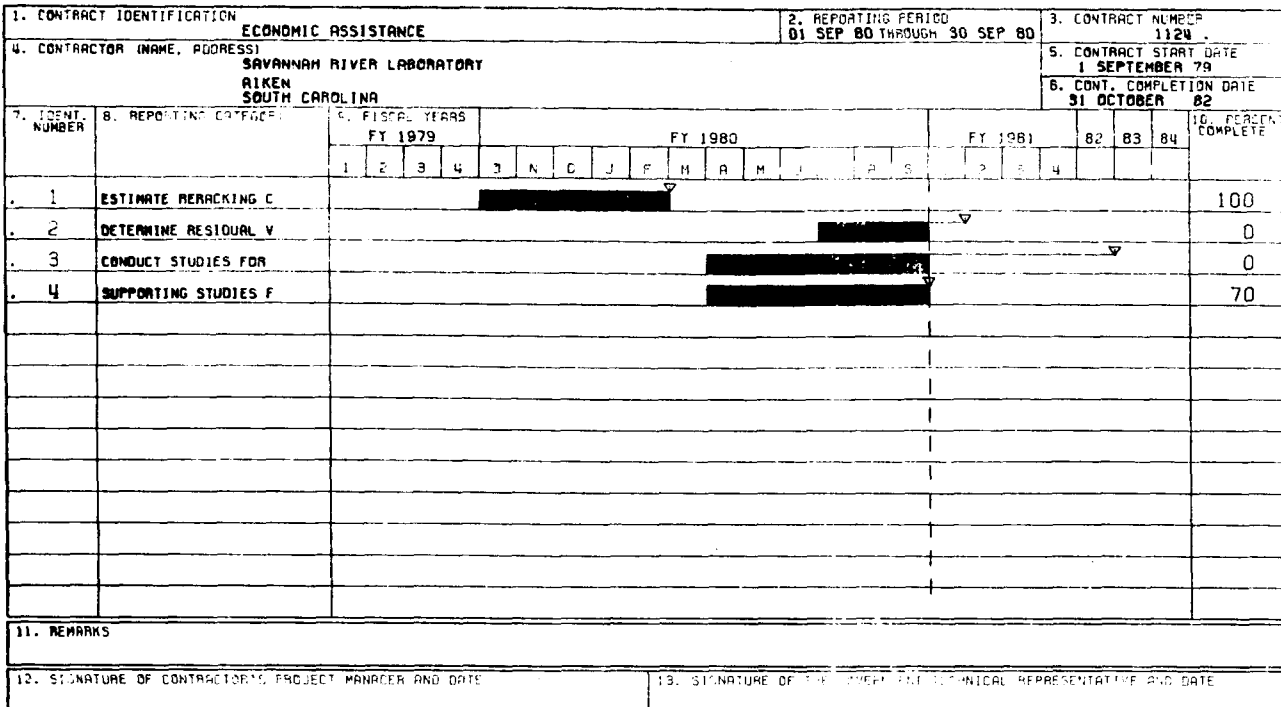
1124: Economic Assistance

OBJECTIVE

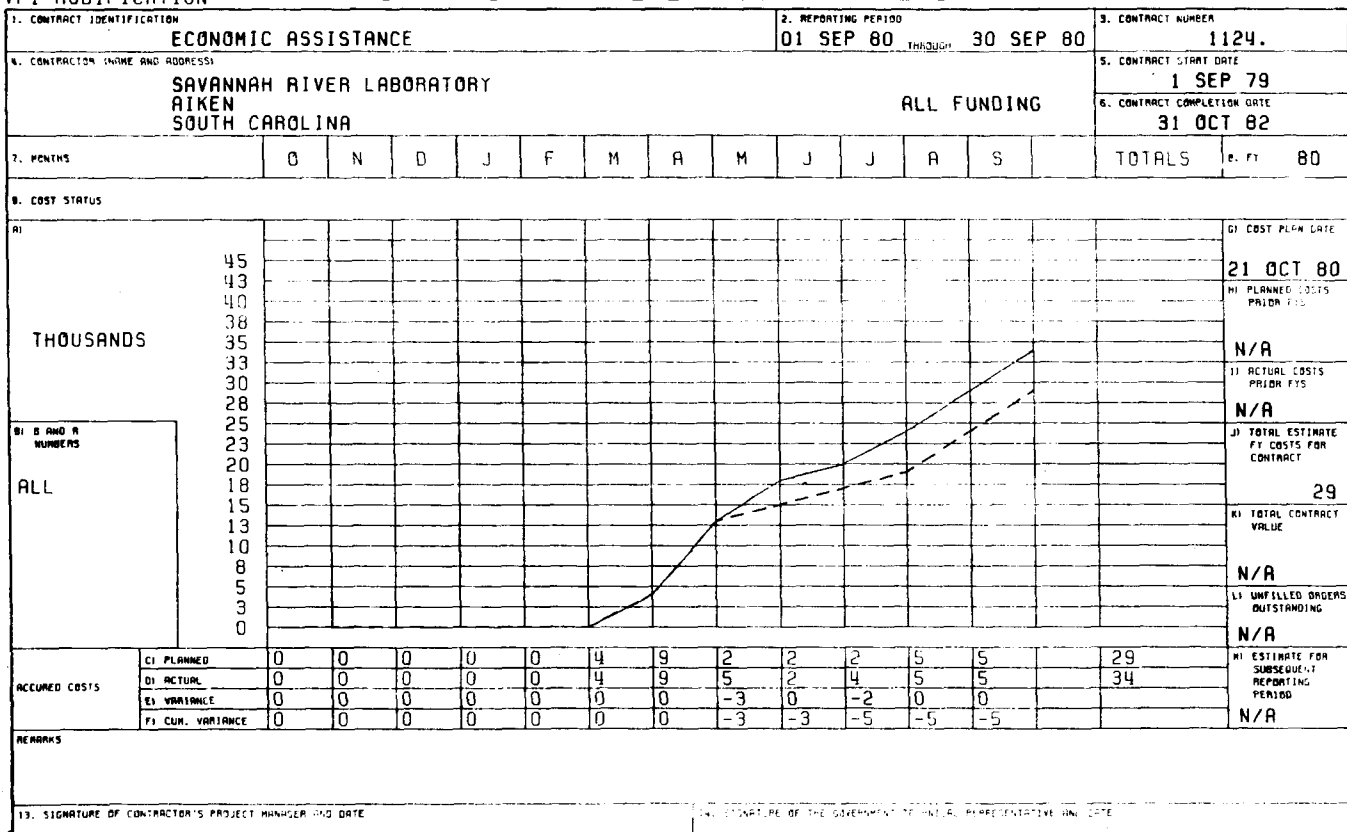
Perform economic studies to assist in program planning.

ACTIVITY STATUS

.04 Facility value. A task force has been established to aid the Accounting and Business Analysis (A&BA) Department in evaluating existing fuel storage facilities. An outline of the proposed A&BA report has been reviewed and revisions have been proposed.



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II2: PLANNING SUPPORT

II26: Licensing Assistance

OBJECTIVE

Provide assistance for acquisition of existing AFR(s), technical reviews of proposed documents, guides, standards related to AFR licensing and regulation, and reviews of the licensing status of existing AFR(s) to determine the suitability for transfer to DOE.

ACTIVITY STATUS

- .02 AFR Licensing Studies. A meeting was held with NRC to discuss questions related to licensing of AFR storage facilities and an analysis of 10 CFR part 2 as the basis for AFR licensing schedules. NRC indicated that the analysis and the resulting license schedules were satisfactory.

Assistance was given to the AFR group on questions about possible partial acquisition of a site and the effects on licensing of doing so.

- .02 AFR Licensing Schedules. The draft report applying 10 CFR part 2 to AFR licensing is undergoing final editing.

A paper, Licensing of Away-From-Reactor (AFR) Installations, was presented at the Gatlinburg meeting, Fuel Cycles for the 80's (an ANS topical meeting).

- .03 Review of Licensing Documents. A midprogram review of the current AGNS licensing program was held during August. The major finding was that the DOE-operating contractor interface at a DOE-owned AFR needs to be resolved and specific relationships on various responsibilities decided. These arrangements should then be addressed in the licensing documents. Responsibilities for preparing those sections of a license application that covered DOE functions will be assigned.



112: PLANNING SUPPORT

1127: General Assistance

OBJECTIVE

Provide DOE general technical assistance with the NRC licensing of interim facilities for spent fuel storage and shall identify public concerns that could arise during the construction and operation of these facilities.

ACTIVITY STATUS

- .01 General Assistance. All work completed.
- .02 Identification of Public Concerns. Work was completed on the review of transcripts of NRC proceedings related to licensing spent fuel storage facilities. Preparation of a summary of identified public concerns about spent fuel storage continued. A review of hearing transcripts from Congressional committees involved in developing bills relating to the design and construction of AFR storage continued to further identify public concerns. Preparation of a draft final report was initiated.

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| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | | | | | | | |
| | | FY 1979 FY 1980 FY 1981 | | | | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 0 | N | D | J | F | M | A | M | J | J | A | S | 82 | 83 | 84 |
| 1 | PROVIDE GEN TECH ASS | | | | | | | | | | | | | | | | | | | 10. PERCENT COMPLETE |
| 2 | IDENTIFICATION OF PUB | | | | | | | | | | | | | | | | | | | U |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | |
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| 7. MONTHS | | O N D J F M A M J J A S | | | | | | | | | | | | TOTALS | | 8. FY 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. THOUSANDS | | | | | | | | | | | | | | | | G. COST PLAN DATE 21 OCT 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. B AND A NUMBERS | | | | | | | | | | | | | | | | H. ACTUAL COSTS PRIOR FY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | | | | | | | | | | | | | | | | I. TOTAL ESTIMATE FY COSTS FOR CONTRACT 136 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | J. UNFILLED ORDERS OUTSTANDING N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACCURED COSTS | | <table border="1"> <tr> <td>C. PLANNED</td><td>0</td><td>0</td><td>0</td><td>18</td><td>29</td><td>24</td><td>2</td><td>10</td><td>11</td><td>11</td><td>11</td><td>13</td><td>129</td> </tr> <tr> <td>D. ACTUAL</td><td>0</td><td>0</td><td>0</td><td>9</td><td>45</td><td>24</td><td>2</td><td>0</td><td>-1</td><td>51</td><td>38</td><td>-33</td><td>135</td> </tr> <tr> <td>E. VARIANCE</td><td>0</td><td>0</td><td>0</td><td>9</td><td>-16</td><td>0</td><td>0</td><td>10</td><td>12</td><td>-40</td><td>-27</td><td>46</td><td></td> </tr> <tr> <td>F. CUM. VARIANCE</td><td>0</td><td>0</td><td>0</td><td>9</td><td>-7</td><td>-7</td><td>-7</td><td>3</td><td>15</td><td>-25</td><td>-52</td><td>-6</td><td></td> </tr> </table> | | | | | | | | | | | | | | C. PLANNED | 0 | 0 | 0 | 18 | 29 | 24 | 2 | 10 | 11 | 11 | 11 | 13 | 129 | D. ACTUAL | 0 | 0 | 0 | 9 | 45 | 24 | 2 | 0 | -1 | 51 | 38 | -33 | 135 | E. VARIANCE | 0 | 0 | 0 | 9 | -16 | 0 | 0 | 10 | 12 | -40 | -27 | 46 | | F. CUM. VARIANCE | 0 | 0 | 0 | 9 | -7 | -7 | -7 | 3 | 15 | -25 | -52 | -6 | | K. TOTAL CONTRACT VALUE N/A | |
| C. PLANNED | 0 | 0 | 0 | 18 | 29 | 24 | 2 | 10 | 11 | 11 | 11 | 13 | 129 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. ACTUAL | 0 | 0 | 0 | 9 | 45 | 24 | 2 | 0 | -1 | 51 | 38 | -33 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E. VARIANCE | 0 | 0 | 0 | 9 | -16 | 0 | 0 | 10 | 12 | -40 | -27 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F. CUM. VARIANCE | 0 | 0 | 0 | 9 | -7 | -7 | -7 | 3 | 15 | -25 | -52 | -6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | L. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. REMARKS CONFLICT - FINANCIAL PLAN IS 129 FY ESTIMATE IS 136 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

113: FEE

1131: Fee Methodology

OBJECTIVE

Evaluate the current fee collection mechanisms for economic feasibility and 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

- .04 Fee Calculations. Spent fuel storage and disposal fees were calculated for current reference requirements and a 1985 AFR facility startup. Results of these fee calculations were transmitted to SRP for inclusion in a report to Congress being drafted.

Modifications were made to the FEAN computer code to implement the fee update method agreed upon in the August meeting at DOE/HQ.

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

| | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------|---|--|---|---|---|---|---|---|----|----|----|----------------------|---|---|---|-----|
| 1. CONTRACT IDENTIFICATION | | FEE METHODOLOGY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1131 | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON | | | | | | 5. CONTRACT START DATE 15 FEBRUARY 80 | | | | | | | | | | | | |
| | | | | | | 6. CONTRACT COMPLETION DATE 15 AUGUST 80 | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | |
| | | FY 1979 | | | | FY 1980 | | | | FY 1981 | | | | 82 83 84 | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | |
| 1 | COMPUTER CODE: CASH | | | | | | | | | | | | | | | | | 100 |
| 2 | PREPARE FINAL REPORT | | | | | | | | | | | | | | | | | 0 |
| 3 | PREPARE FEE CALCULAT | | | | | | | | | | | | | | | | | 100 |
| 4 | SELECT NEW FEE METHO | | | | | | | | | | | | | | | | | 100 |
| 5 | CALCULATE FEE WITH V | | | | | | | | | | | | | | | | | 0 |
| 6 | PREPARE DRAFT TOPICA | | | | | | | | | | | | | | | | | 0 |
| 7 | PREPARE TOPICAL REPO | | | | | | | | | | | | | | | | | 0 |
| 11. REMARKS | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | |

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

| | | | | | | | | | | | | | | | | |
|---|-----|-----------------|---|--|---|--|---|---|---|---|---|---|---|--|-------|----|
| 1. CONTRACT IDENTIFICATION | | FEE METHODOLOGY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1131 | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON | | | | | | 5. CONTRACT START DATE 15 FEB 80 | | | | | | | | | | |
| | | | | | | 6. CONTRACT COMPLETION DATE 15 AUG 80 | | | | | | | | | | |
| 7. MONTHS | | 0 | N | O | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY | 80 |
| 9. COST STATUS | | | | | | | | | | | | | | | | |
| THOUSANDS | 450 | | | | | | | | | | | | | 10. COST PLAN DATE 21 OCT 80 | | |
| | 425 | | | | | | | | | | | | | 11. PLANNED COSTS PRIOR FTS | | |
| | 400 | | | | | | | | | | | | | N/A | | |
| | 375 | | | | | | | | | | | | | 12. ACTUAL COSTS PRIOR FTS | | |
| | 350 | | | | | | | | | | | | | N/A | | |
| | 325 | | | | | | | | | | | | | 13. TOTAL ESTIMATE FTS COSTS FOR CONTRACT | | |
| | 300 | | | | | | | | | | | | | 105 | | |
| | 275 | | | | | | | | | | | | | 14. TOTAL CONTRACT VALUE | | |
| | 250 | | | | | | | | | | | | | N/A | | |
| | 225 | | | | | | | | | | | | | 15. UNFILLED ORDERS OUTSTANDING | | |
| | 200 | | | | | | | | | | | | | N/A | | |
| | 175 | | | | | | | | | | | | | 16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | | |
| | 150 | | | | | | | | | | | | | N/A | | |
| | 125 | | | | | | | | | | | | | | | |
| | 100 | | | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | |

113: FEE

1132: Fee Update

OBJECTIVE

Continue development and revision of a spent fuel storage and disposal fee. The update is necessary due to changes in timing and in the research and development program. The program commenced in FY 79. The fee will be updated annually.

ACTIVITY STATUS

- .02 Fee update. A revised estimate of fuel storage requirements was to be available in September, however the availability of this information has slipped one month. The December goal for a draft report should still be met.

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

PAGE 1 OF 1

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|--|---|---|---|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|-----|
| 1. CONTRACT IDENTIFICATION FEE UPDATE | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1132. | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA | | 5. CONTRACT START DATE 1 OCTOBER 78 | | 6. CONTRACT COMPLETION DATE INDEFINITE | | | | | | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | 10. PERCENT COMPLETE | | | | | | | | | | | | | | | | | | | |
| | | FY 1979 | | FY 1980 | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 0 | N | D | J | F | M | A | M | J | J | A | S | 1 | 2 | 3 | 4 | 82 | 83 | 84 | |
| 1 | PREP INPT ON FEE & M | | | | | | | | | | | | | | | | | | | | | | | | 100 |
| 2 | CONT 2ND CONG REPT S | | | | | | | | | | | | | | | | | | | | | | | | 100 |
| 3 | ANNUAL FEE UPDATE ON | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| 4 | USE FEE CALC AND PRE | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 5 | ANNUAL FEE UPDATE - | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---|---|---|----|-----|---|---|---|---|---|--------|-----------------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|---------------------------------------|
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| 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 | 0 | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td rowspan="2">THOUSANDS</td> <td rowspan="2">90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0</td> <td colspan="12"> </td> <td>GI COST PLAN DATE 21 OCT 80</td> </tr> <tr> <td colspan="12"></td> <td>HI PLANNED COSTS PRIOR FYS N/A</td> </tr> <tr> <td colspan="12"></td> <td>II ACTUAL COSTS PRIOR FYS N/A</td> </tr> <tr> <td colspan="12"></td> <td>JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 82</td> </tr> <tr> <td colspan="12"></td> <td>KI TOTAL CONTRACT VALUE N/A</td> </tr> <tr> <td colspan="12"></td> <td>LI UNFILLED ORDERS OUTSTANDING N/A</td> </tr> </table> | | | | | | | | | | | | | | THOUSANDS | 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 | | | | | | | | | | | | | GI COST PLAN DATE 21 OCT 80 | | | | | | | | | | | | | HI PLANNED COSTS PRIOR FYS N/A | | | | | | | | | | | | | II ACTUAL COSTS PRIOR FYS N/A | | | | | | | | | | | | | JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 82 | | | | | | | | | | | | | KI TOTAL CONTRACT VALUE N/A | | | | | | | | | | | | | LI UNFILLED ORDERS OUTSTANDING N/A |
| THOUSANDS | 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 | | | | | | | | | | | | | | | GI COST PLAN DATE 21 OCT 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | HI PLANNED COSTS PRIOR FYS N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | II ACTUAL COSTS PRIOR FYS N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | JI TOTAL ESTIMATE FY COSTS FOR CONTRACT 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | KI TOTAL CONTRACT VALUE N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | LI UNFILLED ORDERS OUTSTANDING N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACCUED COSTS | | C1 PLANNED | 0 | 0 | 0 | 35 | 8 | 5 | 0 | 8 | 8 | 8 | 5 | 5 | 82 | MI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | C2 ACTUAL | 0 | 0 | 0 | 0 | 43 | 5 | 0 | 4 | 7 | 5 | 5 | 5 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | E1 VARIANCE | 0 | 0 | 0 | 35 | -35 | 0 | 0 | 4 | 1 | 3 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | F1 CLM. VARIANCE | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 4 | 5 | 8 | 8 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | | | | | 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

113: FEE

1134: Fee Discount Rate Analysis

OBJECTIVE

Assess discount rates related to present worth concepts and recommend a rate that best suits the requirements for developing a spent fuel storage and disposal fee. The calculational method for a storage and disposal fee equates the present worth of costs to the present worth of revenues.

ACTIVITY STATUS

.02 Final Report. The final report has been written and submitted for clearances.

[illegible]

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|-------------------|--|-----------|--|---------------------|--|--------------------|--|------------------------|--|-----------|--|-----------------------------|--|-----------|--|---|--|---|--|----|--|---|--|--------|--|-------|--|----|--|---|--|---|--|----|--|-----------|--|---|--|---|--|---|--|---|--|---|--|----|--|---|--|---|--|---|--|---|--|---|--|---|--|----|--|-------------|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|-----|--|------------------|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|-----|--|----|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|
| 1. CONTRACT IDENTIFICATION | | FEE DISCOUNT RATE | | ANALYSIS | | 2. REPORTING PERIOD | | 01 SEP 80 | | THROUGH | | 30 SEP 80 | | 3. CONTRACT NUMBER | | 1134. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. CONTRACTOR (NAME AND ADDRESS) | | ONNI-TAA | | MCLEAN | | VIRGINIA | | ALL FUNDING | | 5. CONTRACT START DATE | | 25 FEB 80 | | 6. CONTRACT COMPLETION DATE | | 30 SEP 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. MONTHS | | O | | N | | D | | J | | F | | M | | A | | M | | J | | J | | A | | S | | TOTALS | | 8. FY | | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. COST STATUS | | A) | | THOUSANDS | | ALL | | B1 B AND A NUMBERS | | C1 PLANNED | | 0 | | 0 | | 0 | | 0 | | 0 | | 10 | | 6 | | 9 | | 0 | | 0 | | 0 | | 0 | | 25 | | C2 ACTUAL | | 0 | | 0 | | 0 | | 0 | | 0 | | 10 | | 6 | | 0 | | 0 | | 7 | | 0 | | 2 | | 25 | | D1 VARIANCE | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 9 | | 9 | | 2 | | 2 | | 0 | | N/A | | E1 CUM. VARIANCE | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 9 | | 9 | | 2 | | 2 | | 0 | | N/A | | F1 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |

115: PROGRAM MANAGEMENT

1151: Information Systems

OBJECTIVE

Provide information services for the AFR program.

ACTIVITY STATUS

.03 Information Services. The following work was completed:

- DPSOP-AFR-80-1-8, AFR Program August Monthly Report, DOE/SR SF-2005-8.
- 212 (35 mm) color and black and white slides depicting AFR program activities and properties.
- DPSP-AFR-80-6-2, Determination of AFR Storage Requirements, Allen B. Thomas, for presentation at ANS topical meeting in Gatlinburg, TN on September 29 through October 2.

Eighty-seven individually addressed letters, an agenda, and registration form concerning the AFR Review Meeting on October 29 and 30 were published, assembled, and mailed to contractors, interested groups, and AFR personnel.

Twenty-five individually addressed letters, a detailed agenda and instructions were prepared and mailed to speakers participating in the Review Meeting.

DPSP-AFR-80-8-7 Revision 1, Draft DOE Fee and Cost Studies of Spent Nuclear Fuel Storage and Disposal was issued for DOE/HQ review. One hundred cover sheets were printed and forwarded with the draft. After review, the final issue will be made from HQ as DOE/SR-0006, Department of Energy, Fee and Cost Studies for Spent Nuclear Fuel Storage and Disposal Services.

Assistance was provided in publicizing the extension of the public comment period on the scope and outline for a draft environmental impact statement. A representative covered the area about G.E., Morris facility, Morris, IL. Local newspapers and radio stations were contacted and payment of advertising fees are being coordinated.

Changes made by DOE/HQ in the Spent Fuel Film are being resolved with Sandia Labs. Tentative plans are to have a preliminary film and separate sound track ready for review in November.

[illegible]

| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
|--|--|-----------------------------|--|---|--|
| INFORMATION SERVICES | | 01 SEP 80 THROUGH 30 SEP 80 | | 1151. | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 6. CONTRACT START DATE | | 5. CONTRACT START DATE | |
| SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA | | ALL FUNDING | | 1 OCT 79 | |
| 7. MONTHS | | 8. CONTRACT COMPLETION DATE | | CONTINUING | |
| O N D J F M A M J J A S | | TOTALS | | 6. 23 80 | |
| 9. COST STATUS | | | | | |
| 10. COST PLAN DATE | | | | 21 OCT 80 | |
| 11. PLANNED COSTS PRIOR FY | | | | N/A | |
| 12. ACTUAL COSTS PRIOR FY | | | | N/A | |
| 13. TOTAL ESTIMATE FY COSTS FOR CONTRACT | | | | 250 | |
| 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 | |

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

- .02 Develop and Operate Management Information System. The monthly reporting cycle using Contractor's input was accomplished. Dupont initiated program revisions were reflected in the system.
- .04 Program Planning and Reporting. Revisions were incorporated into the text of the Program Plan. A responsibility assignment matrix concept was formulated and proposed.

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

37

115: PROGRAM MANAGEMENT

1153: Spent Fuel Film

OBJECTIVE

Produce a public information film to describe commercial reactor spent fuel storage. This film will show how spent fuel is handled, transported, and stored; and explains safety, security, regulatory, and licensing procedures that are followed. The film will include footage of actual spent fuel shipments. The script will be prepared jointly by Du Pont and Sandia, with Sandia responsible for the transportation aspects and Du Pont responsible for the handling and storage aspects. Sandia will arrange production and filming.

ACTIVITY STATUS

.04 Produce Film. An interlock version of the film and soundtrack will be hand carried to SRP by SNL's writer/director by October 31.

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| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
| SPENT FUEL FILM | | 01 SEP 80 THROUGH 30 SEP 80 | | 1153 | |
| 4. CONTRACTOR (NAME, ADDRESS) | | | | 5. CONTRACT START DATE | |
| SANDIA LABORATORIES | | | | 1 OCTOBER 79 | |
| ALBUQUERQUE | | | | 6. CONT. COMPLETION DATE | |
| NEW MEXICO | | | | 30 JUNE 80 | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | 10. PERCENT COMPLETE | |
| | | FY 1979 | | FY 1980 | |
| | | 2 3 4 | | 82 83 84 | |
| 1 | PREPARE SCRIPT | [REDACTED] | | 80 | |
| 2 | APPROVAL OF FILM SEQ | [REDACTED] | | 0 | |
| 3 | ACQUIRE FILM SHOTS | [REDACTED] | | 50 | |
| 4 | COMPLETE FILM | [REDACTED] | | 40 | |
| 11. REMARKS | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | |
| 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | |

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

[illegible]

116: QUALITY ASSURANCE

1163: DOE QA Program and Audits

OBJECTIVE

- Assist DOE/SR in development of a QA Program.
- Prepare documented QA Program and Procedures for implementation by SR.
- Assist in audits of programs and projects.

ACTIVITY STATUS

No report received.

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

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| 1. CONTRACT IDENTIFICATION DOE QA PROGRAM AND AUDIT | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1163 | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) HANFORD ENGINEERING DEVELOPMENT LABORATORY RICHLAND WASHINGTON | | 5. CONTRACT START DATE 1 JUNE 80 | | 6. CONTRACT COMPLETION DATE 30 SEPTEMBER 80 | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | | |
| | | FY 1979 | | | | FY 1980 | | | | FY 1981 | | | | 82 | 83 | 84 | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | | | |
| 1 | PREP 1ST DRAFT DOE/S | | | | | | | | | | | | | | | | | | | 70 |
| 2 | PREPARE OUTLINE OF I | | | | | | | | | | | | | | | | | | | 30 |
| 3 | COMPLETE QA PROGRAM | | | | | | | | | | | | | | | | | | | 30 |
| 4 | COMPLETE IMPLEMENTIN | | | | | | | | | | | | | | | | | | | 0 |
| 5 | ASSIST WITH QA AUDIT | | | | | | | | | | | | | | | | | | | 40 |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | |

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

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| 1. CONTRACT IDENTIFICATION DOE QA PROGRAM AND AUDIT | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1163 | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) HANFORD ENGINEERING DEVELOPMENT LABORATORY RICHLAND WASHINGTON | | 5. CONTRACT START DATE 1 JUN 80 | | 6. CONTRACT COMPLETION DATE 30 SEP 80 | | | | | | | | | | | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 |
| 9. COST STATUS | | | | | | | | | | | | | | | |
| THOUSANDS | 45 | | | | | | | | | | | | | 10. COST PLAN DATE 21 OCT 80 | |
| | 43 | | | | | | | | | | | | | 11. PLANNED COSTS PRIOR FYS N/A | |
| | 40 | | | | | | | | | | | | | 12. ACTUAL COSTS PRIOR FYS N/A | |
| | 38 | | | | | | | | | | | | | 13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 50 | |
| | 35 | | | | | | | | | | | | | 14. TOTAL CONTRACT VALUE N/A | |
| | 33 | | | | | | | | | | | | | 15. UNFILLED ORDERS OUTSTANDING N/A | |
| | 30 | | | | | | | | | | | | | 16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | |
| | 28 | | | | | | | | | | | | | | |
| | 25 | | | | | | | | | | | | | | |
| | 23 | | | | | | | | | | | | | | |
| 17. ACCUMULATED COSTS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 24 | 23 | 50 | |
| 18. VARIANCE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20 | 50 | |
| 19. CUM. VARIANCE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -3 | 0 | | |
| 20. REMARKS | | | | | | | | | | | | | | | |
| 21. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 22. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | |

117: PUBLIC AND GOVERNMENTAL RELATIONS

1172: Institutional Impediments

OBJECTIVES

Review and analyze state and regional radioactive materials transportation plans in order to identify and resolve socioeconomic and institutional barriers.

Evaluate and develop regional methodologies for reporting and monitoring the transport of radioactive materials.

Evaluate and promote compatible state plans for dealing with transportation accidents involving radioactive materials in the southeastern States.

ACTIVITY STATUS

- .04 Program Management and Workshops. All major elements of the project are on schedule. No delays are anticipated during the forthcoming month. A contractor meeting scheduled for September 29 through 30 was postponed until October 6 through 7 due to conflicts with other activities.

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

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| 1. CONTRACT IDENTIFICATION | | | | | | | | | | 2. REPORTING PERIOD | | | | | | | | | | 3. CONTRACT NUMBER | | | | | | | | | | | | | | | | | | | |
| INSTITUTIONAL IMPEDIMENTS | | | | | | | | | | 01 SEP 80 THROUGH 30 SEP 80 | | | | | | | | | | 1172. | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | | | | | | | | | 5. CONTRACT START DATE | | | | | | | | | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | | | | | | | | | |
| SOUTHERN STATES ENERGY BOARD ATLANTA GEORGIA | | | | | | | | | | ALL FUNDING | | | | | | | | | | 26 SEP 79 25 DEC 81 | | | | | | | | | | | | | | | | | | | |
| 7. MONTHS | | | | | | | | | | 0 N D J F M A M J J A S | | | | | | | | | | TOTALS 8. FY 80 | | | | | | | | | | | | | | | | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| THOUSANDS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 21 OCT 80 | | | | | | | | | |
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117: PUBLIC AND GOVERNMENTAL RELATIONS

1175: NRC Waste Confidence Rulemaking Proceeding

OBJECTIVES

Provide DOE with technical support services with respect to spent fuel transportation and storage during the public comment and hearing processes associated with the NRC Waste Confidence Rulemaking proceedings.

ACTIVITY STATUS

.02 Review Cross-Statements of Other Participants. A review was made of cross-statements filed by other participants in the proceeding, which were submitted to the NRC on September 5. These cross-statements were analyzed for possible new issues and a listing of all emphasized issues was prepared.

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 | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | | | | | | | | | | | | | | | |
| NRC RULE MAKING | | 01 SEP 80 THROUGH 30 SEP 80 | | 1175 | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | | | | | |
| E. A. JOHNSON ASSOCIATES, INC VIENNA VIRGINIA | | 1 JUNE 80 | | 31 DECEMBER 80 | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | |
| | | FY 1979 | | | | FY 1980 | | | | FY 1981 | | | | 82 83 84 | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | | |
| 1 | DEV INFO FOR DOE POS | | | | | | | | | | | | | | | | | 5 | |
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| 3 | DEV TEST FOR DOE POS | | | | | | | | | | | | | | | | | 0 | |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | |

FORM DOE 535
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | | | | | |
|--|--|---|----|-----------------------------|---|---|---|---|---|---|----|----|----|--------|----------|--|--|--|--|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | | | | | | | | | | | | | | | |
| NRC RULE MAKING | | 01 SEP 80 THROUGH 30 SEP 80 | | 1175 | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | | | | | |
| E. A. JOHNSON ASSOCIATES, INC VIENNA VIRGINIA | | 1 JUN 80 | | 31 DEC 80 | | | | | | | | | | | | | | | |
| 7. MONTHS | | 8. FY 80 | | | | | | | | | | | | | | | | | |
| | | 0 | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | |
| A) THOUSANDS | | B) COST PLAN DATE | | | | | | | | | | | | | | | | | |
| 45 | | 21 OCT 80 | | | | | | | | | | | | | | | | | |
| 43 | | C) PLANNED COSTS PRIOR F.Y. | | | | | | | | | | | | | | | | | |
| 40 | | N/A | | | | | | | | | | | | | | | | | |
| 38 | | D) ACTUAL COSTS PRIOR F.Y. | | | | | | | | | | | | | | | | | |
| 35 | | N/A | | | | | | | | | | | | | | | | | |
| 33 | | E) TOTAL ESTIMATE FY COSTS FOR CONTRACT | | | | | | | | | | | | | | | | | |
| 30 | | 50 | | | | | | | | | | | | | | | | | |
| 28 | | F) TOTAL CONTRACT VALUE | | | | | | | | | | | | | | | | | |
| 25 | | N/A | | | | | | | | | | | | | | | | | |
| 23 | | G) UNFILLED ORDERS OUTSTANDING | | | | | | | | | | | | | | | | | |
| 20 | | N/A | | | | | | | | | | | | | | | | | |
| 18 | | H) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | | | | | | | | | | | | | | | | | |
| 15 | | N/A | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | |
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| ACCUMULATED COSTS | | I) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | | | | | | | | | | | | | | | | | |
| C) PLANNED | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 10 | 10 | 50 | | | | | |
| D) ACTUAL | | 0 | 4 | -4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | | | | | |
| E) VARIANCE | | 0 | -4 | 4 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 10 | 6 | | | | | | |
| F) CUM. VARIANCE | | 0 | -4 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 30 | 40 | 46 | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | |

12: FACILITY ACQUISITION

121: MORRIS ACQUISITION

1211: Evaluation Studies

OBJECTIVE

Define alternatives, prepare conceptual designs, and conduct analytical studies for the potential application of the GE-Morris to AFR program needs.

ACTIVITY STATUS

- .02 Dry Storage Concepts. SRP NEDG-24729, Alternatives for Dry Storage of Spent Fuel at Morris Operation, has been printed. Document distribution is being held up until patent release has been obtained.
- .03 Add-on Basin Feasibility. The revised draft of NEDG-24749, Alternative Concepts for Spent Fuel Storage Basin Expansion at Morris Operation, was reviewed by SRP and approved for printing. After printing is completed, document distribution is to be held up until patent release has been obtained.

Preliminary basket designs are being reviewed by GE rack fabricators in Wilmington, North Carolina to reduce costs and produce a readily fabricated basket.

- .02.2 Cask Handling Station. Work continued on designs for modifying cask facilities to increase Morris fuel receiving and shipping capabilities.

Draft specifications have been prepared for the 125-ton cask crane and the 10-ton auxiliary crane. Crane manufacturers were contacted to obtain critical crane dimensions and information for designing crane supports and structural framing.

All components for the new shipping cask cleaning system have been selected. Vendors of many key components were contacted and literature and cost estimates are being received.

Preliminary design of the cask turntable and the vertical spray header was completed, and design of the bottom horizontal spray header was initiated.

Sketches and engineering calculations for the elevator work platform for two cask preparation stations were completed.

A draft report on the cleaning system, including descriptions, equipment lists and services requirements was initiated.

- .02.3 Basin Wall Support and Seismic Studies. Dynamic analyses of seismic and tornado loading were completed on two alternative systems for supporting the South wall of the existing basin during excavation for the add-on basin. One alternative involves constructing a temporary external truss and the other involves construction of a reinforced concrete buttress outside Basin 2 near the gate between Basin 2 and the add-on basin. The buttress alternative has been selected for continuing study since it would be less costly and would have minimal impact on construction.

- .02.4 Radwaste Treatment Facility. As currently planned, radioactive solutions collected in the LAW vault will be concentrated by a new evaporator to a point just short of crystallization. With this evaporator, the vault will be capable of containing all dissolved and solid low-level wastes until the year 2,000, or until the facility is decommissioned. The evaporation system, has been conceptually designed and is currently undergoing internal GE review.

When the LAW vault eventually requires emptying, the concentrated liquid in the vault would be removed down to a prescribed low level by routing it to a waste solidification facility. At this time, a large pump (100 gpm, 65 psig) would be installed in the vault with the intake as close to the vault floor as possible. The pump discharge would feed a hydroclone separator. The overhead from the hydroclone, containing a small amount of solids (5% as fines), is piped to a sluicing nozzle whose flow can be directed into the LAW vault to flush solids toward the pump inlet. The hydroclone underflow (65% solids) is collected in a settling tank. Contents of the settling tank are also routed to waste solidification facilities.

Continued operation will remove all solids from the vault and the remaining clarified solution is removed for solidification. Procedures and equipment required for removing the solids are being prepared or designed. Some equipment specifications can not be completed until experimental data on solution and slurry properties are received from Morris in October.

- .02.5 Cask Handling Interface. Sufficient information has been received about the NLI-1/2 cask to determine the operating sequence required for cask turn around at Morris. A draft report which describes equipment needs, facility modifications, and special tool requirements has been completed and is undergoing internal GE review. When approved, the format of this report will be used as a basis for preparing similar reports for other casks at Morris.

[illegible]

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

| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
|---|--|-----------------------------|--|-----------------------------|--|
| EVALUATION STUDIES - MORRIS | | 01 SEP 80 THROUGH 30 SEP 80 | | 1211. | |
| 4. CONTRACTOR NAME AND ADDRESS | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | |
| GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA | | 1 FEB 79 | | 30 SEP 80 | |
| 7. MONTHS | | 8. TOTALS | | 9. FY 80 | |
| O N D J F M A M J J A S | | | | | |
| 10. COST STATUS | | | | | |
| 11. THOUSANDS | | | | | |
| 12. ALL | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | |
| 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | |

121: FACILITY ACQUISITION

1212: Improvements and Additions to the Storage Basin Capacity at Morris

OBJECTIVES

To ensure that all appropriate work items related to licensing and operation of Morris as a DOE-owned AFR Spent Fuel Storage Facility (under 10 CFR 72) are completed in a timely manner. Develop designs for improvements to the current Morris Operation and increase the storage capacity to the add-on basin. Define licensing and project requirements for implementing the design improvements.

ACTIVITY STATUS

- .01 Licensing Documentation. As a part of the work required to prepare the license amendment permitting high-density storage at Morris, licensing personnel are reviewing technical details of the system and evaluating system safety.

The Safety Analysis Report (SAR) for Morris Operation is being reviewed and revisions which would be required for DOE ownership are being determined. Review is scheduled for completion in mid-November.

- .02.1 High-Density Storage System. Work continues on developing design details for the 21.75-in. square basket selected for both BWR and PWR baskets. Criticality analyses have been initiated for the PWR basket design using the MERIT code. First results indicated that the initial design was unacceptable (K_{eff} in the 0.95 to 0.96 range). Several design modifications intended to increase the effective water gap between the bundles have been developed. Criticality analyses are currently being made on modified designs.

Design of modular grid support structures has been initiated to safely handle seismic loads which would be encountered when grids are loaded with baskets of consolidated fuel rods. Preliminary studies will determine the support beam sizes and the number and positioning of grid supports required.

Drawings of Morris basins have been reviewed to identify the location of interferences (e.g., water supply piping and pipe supports) which could prevent storage in some basket spaces. Reviews to date indicate that up to 13 baskets in Basin 2 and 7 baskets in the add-on basin might be eliminated by such interferences. Design studies are underway to eliminate or minimize the storage impact of interferences.

[illegible]

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

| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
|--|--|---|--|---|--|
| PRELICENSING ACTIVITIES - MORRIS | | 01 SEP 80 THROUGH 30 SEP 80 | | 1212. | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | |
| GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA | | 1 MAY 80 | | 30 SEP 81 | |
| 7. MONTHS | | ALL FUNDING | | TOTALS | |
| 0 N O J F M A M J J A S | | | | 9. FY 80 | |
| 8. COST STATUS | | | | | |
| A1 | | | | G1 COST PLAN DATE | |
| THOUSANDS | | | | 21 OCT 80 | |
| ALL | | | | H1 PLANNED COSTS PRIOR FY'S | |
| | | | | N/A | |
| | | | | I1 ACTUAL COSTS PRIOR FY'S | |
| | | | | N/A | |
| | | | | J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT | |
| | | | | 407 | |
| | | | | K1 TOTAL CONTRACT VALUE | |
| | | | | N/A | |
| | | | | L1 UNFULFILLED ORDERS OUTSTANDING | |
| | | | | N/A | |
| ACCURED COSTS | | | | M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | |
| C1 PLANNED | | | | N/A | |
| D1 ACTUAL | | | | | |
| E1 VARIANCE | | | | | |
| F1 CUM. VARIANCE | | | | | |
| REMARKS | | | | | |
| CONFLICT - FINANCIAL PLAN IS | | 499 | | FY ESTIMATE IS 407 | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | |

122: BARNWELL ACQUISITION

1222: AFR/Design and Licensing Information/BNFP as a Model

OBJECTIVE

Provide design and licensing information preparatory to conversion of 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 Facility Modifications. Bechtel has completed work on the canal design and seismic analysis under the present contract. A final report was received prior to completion of the soils investigation. Additional test borings are required to complete the soils analysis which will be done in October/November. Bechtel's input to the SAR was received and is under internal review.

Design work has been completed on AFR projects. A final report to DOE is being compiled. This activity will end in October.

.02 Rack Design.

- Criticality analysis of disassembled/canned fuel was completed.
- Structural evaluation of the rack mounting for a disassembled fuel loading scenario was completed.
- Preliminary design of a rack latching device was completed. An updated cost figure of \$180k was submitted to DOE for the revised rack design.

.03 Security. Security plans and the system conceptual design were received from IEAL and are under internal review.

.04 Licensing Documentation. A draft of the ASAR is approximately 60% complete. The Environmental Report is under internal review. The AFR Site Emergency Plan (SEP) draft will be completed in October. Pool gate failure accident analysis will be incorporated in the SAR.

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

53

131: NEPA ACTIVITIES

1312: AFR Environmental Impact Statement

OBJECTIVE

Assume overall responsibility for preparing and issuing the AFR-EIS. Two separate statements will be written. The first addresses the use of existing commercial facilities with spent fuel storage pools and one new spent fuel storage facility to satisfy near term storage requirements. No additional construction at existing facilities, dry storage, or use of Government-owned facilities will be considered.

Following publication of the first, a second statement will consider dry storage, and expansion of pool storage capacity by new construction at existing facilities and at new sites to satisfy midterm storage requirements.

ACTIVITY STATUS

- .04 Complete Draft of Near-Term AFR EIS. A meeting was held at ANL on September 23-24 to review the status of AFR EIS preparation and to visit the GE Morris Operation. Preliminary drafts of supporting material from S. M. Stoller Corp. and Sandia National Laboratories were reviewed and comments were referred back to the originators.

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

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| 1. CONTRACT IDENTIFICATION AFR-EIS (ANL) | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1312 | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR NAME AND ADDRESS ARGONNE NATIONAL LABORATORY | | 5. CONTRACT START DATE 1 OCTOBER 79 | | 6. CONT. COMPLETION DATE 31 DECEMBER 82 | | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | | | |
| | | FY 1979 | | | | FY 1980 | | | | | FY 1981 | | | 82 83 84 | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | | | | |
| 1 | INITIATE AFR-EIS | | | | | | | | | | | | | | | | | | | | 100 |
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| 6 | CONSIDER HEARINGS | | | | | | | | | | | | | | | | | | | | 0 |
| 7 | CON LST HNS & CAPLT | | | | | | | | | | | | | | | | | | | | 0 |
| 8 | PUBLISH FINAL HEAR-T | | | | | | | | | | | | | | | | | | | | 0 |
| 9 | PREP NOT OF INT TO P | | | | | | | | | | | | | | | | | | | | 0 |
| 10 | OBTAIN HA-TEAM AFR-E | | | | | | | | | | | | | | | | | | | | 0 |
| 11 | COMPLETE DRAFT OF LO | | | | | | | | | | | | | | | | | | | | 0 |
| 12 | PUBLISH DRAFT OF LO | | | | | | | | | | | | | | | | | | | | 0 |
| 13 | COMPLETE FINAL LONG- | | | | | | | | | | | | | | | | | | | | 0 |
| 14 | PUBLISH FINAL LONG-T | | | | | | | | | | | | | | | | | | | | 0 |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | |

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

| | | | | | | | | | | | | | | | | | | |
|---|--|--|------------|--|-------------------|--------|--------|--------|---------|--------|--------|-------|--------|---|--------|----------|---------|---------|
| 1. CONTRACT IDENTIFICATION AFR-EIS (ANL) | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1312 | | | | | | | | | | | | | | |
| 4. CONTRACTOR NAME AND ADDRESS ARGONNE NATIONAL LABORATORY | | 5. CONTRACT START DATE 1 OCT 79 | | 6. CONTRACT COMPLETION DATE 31 DEC 82 | | | | | | | | | | | | | | |
| 7. MONTHS | | 8. FUNDING | | | | | | | | | | | | 9. TOTALS | | 10. F.Y. | | |
| | | O | N | D | J | F | M | A | M | J | J | A | S | | | 80 | | |
| 11. COST STATUS | | | | | | | | | | | | | | | | | | |
| 12. THOUSANDS | | | | | | | | | | | | | | 13. COST PLAN DATE 21 OCT 80 | | | | |
| | | | | | | | | | | | | | | 14. PLANNED COSTS PRIOR FY8 N/A | | | | |
| 15. ALL | | | | | | | | | | | | | | 16. ACTUAL COSTS PRIOR FY8 N/A | | | | |
| | | | | | | | | | | | | | | 17. TOTAL ESTIMATE FY COSTS FOR CONTRACT 320 | | | | |
| 18. TOTAL CONTRACT VALUE N/A | | | | | | | | | | | | | | 19. UNFILLED ORDERS OUTSTANDING N/A | | | | |
| | | | | | | | | | | | | | | 20. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | | | | |
| 21. RECORD COSTS | | 22. PLANNED | 23. ACTUAL | 24. VARIANCE | 25. CUM. VARIANCE | 26. 38 | 27. 29 | 28. 15 | 29. 17 | 30. 11 | 31. 11 | 32. 7 | 33. 25 | 34. 37 | 35. 48 | 36. 43 | 37. 39 | 38. 320 |
| | | 22. PLANNED | 23. ACTUAL | 24. VARIANCE | 25. CUM. VARIANCE | 39. 0 | 40. 0 | 41. 0 | 42. 99 | 43. 12 | 44. 12 | 45. 5 | 46. 12 | 47. 7 | 48. 16 | 49. 15 | 50. 17 | 51. 195 |
| | | 22. PLANNED | 23. ACTUAL | 24. VARIANCE | 25. CUM. VARIANCE | 52. 38 | 53. 29 | 54. 15 | 55. -82 | 56. -1 | 57. -1 | 58. 2 | 59. 13 | 60. 30 | 61. 32 | 62. 28 | 63. 22 | 64. 125 |
| | | 22. PLANNED | 23. ACTUAL | 24. VARIANCE | 25. CUM. VARIANCE | 65. 38 | 66. 67 | 67. 82 | 68. 0 | 69. -1 | 70. -2 | 71. 0 | 72. 13 | 73. 43 | 74. 75 | 75. 103 | 76. 125 | 77. 125 |
| 19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | | | | | | | |
| 20. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | | | | |

131: NEPA ACTIVITIES

1313: AFR-EIS Assistance to ANL

OBJECTIVE

Prepare appendices for the AFR-EIS:

- Develop criteria for determining suitable sites for newly constructed spent fuel storage facilities.
- Examine the environmental efforts of dry well storage.
- Examine the technical feasibility and potential problems of converting Government facilities to an AFR and if conversion is feasible, the environmental effects of conversion and storage of fuel.
- Examine the environmental effects of transportation of spent fuel from power reactors to AFR's and from AFR's to the repository.
- Aid ANL in the comparison of environmental effects of AFR's studied.
- Be responsive to other requests.
- Determine the capacity and the licensability of the Western New York Nuclear Service as an AFR spent fuel storage facility.

Work will be based on available published information and data developed during the study. A site visit will be made to existing facilities included in the study.

ACTIVITY STATUS

- .01 Input to ANL for The Near-Term AFR-EIS. Work continues on drafts that evaluate technical feasibility and licensability of converting Government facilities to an AFR. Completion is scheduled for early October.

Revised drafts of Section 2.2.1 Accidental Deaths, and 2.2.3, Occupational Effects, of Appendix C, Environmental Effects of Each Facility were received, reviewed, and returned for minor corrections.

Work is continuing on revising drafts of sections (Dry Storage) 1.1 Existing Commercial Facilities, 1.2 Cask Storage, and Section 3 Double Tier Racking of Appendix F: Potential Spent Fuel Storage Options. Completion is scheduled for early October.

Work continues on all phases of the engineering and licensing status of the West Valley Facility. The structural analysis of the storage pool is behind schedule due to an information delay from Lawrence Livermore Laboratory. The material has been received. The structural analysis is not required for the internal draft of the Near Term AFR-EIS and will not impact that schedule.

- .05 At DOE/SR's request, a Planning Guide was added as a subtask. The guide with a detailed annotated schedule is for use in determining the critical path of NEPA actions and NRC licensing requirements and to minimize effects of individual actions on the overall AFR Program schedule. NUS Corporation has been subcontracted for this work which is underway.

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

PAGE 1 OF 1

| | | | | | |
|---|-----------------------|-----------------------------|--|-----------------------------|--|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
| AFR-EIS ASSISTANCE TO ANL (ORNL) | | 01 SEP 80 THROUGH 30 SEP 80 | | 1313 | |
| 4. CONTRACTOR NAME, ADDRESS | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | |
| OAK RIDGE NATIONAL LABORATORY OAK RIDGE TENNESSEE 37830 | | 1 OCT 79 | | 30 JUNE 82 | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEAR | | 10. PERCENT COMPLETE | |
| | | FY 1979 | | 82 83 84 | |
| | | FY 1980 | | FY 1981 | |
| | | 1 2 3 4 5 6 7 8 9 10 11 12 | | | |
| | PROVIDE INPUT TO ANL | | | 65 | |
| 11. REMARKS | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | |

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

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| AFR-EIS ASSISTANCE TO ANL (ORNL) | | 01 SEP 80 THROUGH 30 SEP 80 | | 1313 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR NAME AND ADDRESS | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OAK RIDGE NATIONAL LABORATORY OAK RIDGE TENNESSEE 37830 | | 1 OCT 79 | | 30 JUN 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. MONTHS | | 8. TOTALS | | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O N D J F M A M J J A S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td rowspan="2">THOUSANDS</td> <td rowspan="2">ALL</td> <td colspan="12"> </td> </tr> <tr> <td colspan="12"> <table border="1"> <tr> <td colspan="2">G1 COST PLAN DATE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">21 OCT 80</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">H1 PLANNED COSTS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">J1 ACTUAL COSTS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">J2 TOTAL ESTIMATE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">FY COSTS FOR CONTRACT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">535</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">K1 TOTAL CONTRACT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">VALUE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">L1 UNFILLED ORDERS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">OUTSTANDING</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">M1 ESTIMATE FOR</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">SUBSEQUENT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">REPORTING</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">PERIOD</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> </table> </td> </tr> </table> | | | | | | THOUSANDS | ALL | | | | | | | | | | | | | <table border="1"> <tr> <td colspan="2">G1 COST PLAN DATE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">21 OCT 80</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">H1 PLANNED COSTS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">J1 ACTUAL COSTS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">J2 TOTAL ESTIMATE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">FY COSTS FOR CONTRACT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">535</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">K1 TOTAL CONTRACT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">VALUE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">L1 UNFILLED ORDERS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">OUTSTANDING</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">M1 ESTIMATE FOR</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">SUBSEQUENT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">REPORTING</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">PERIOD</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> </table> | | | | | | | | | | | | G1 COST PLAN DATE | | | | | | | | | | | | 21 OCT 80 | | | | | | | | | | | | H1 PLANNED COSTS | | | | | | | | | | | | N/A | | | | | | | | | | | | J1 ACTUAL COSTS | | | | | | | | | | | | N/A | | | | | | | | | | | | J2 TOTAL ESTIMATE | | | | | | | | | | | | FY COSTS FOR CONTRACT | | | | | | | | | | | | 535 | | | | | | | | | | | | K1 TOTAL CONTRACT | | | | | | | | | | | | VALUE | | | | | | | | | | | | N/A | | | | | | | | | | | | L1 UNFILLED ORDERS | | | | | | | | | | | | OUTSTANDING | | | | | | | | | | | | N/A | | | | | | | | | | | | M1 ESTIMATE FOR | | | | | | | | | | | | SUBSEQUENT | | | | | | | | | | | | REPORTING | | | | | | | | | | | | PERIOD | | | | | | | | | | | | N/A | | | | | | | | | | | |
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| | | <table border="1"> <tr> <td colspan="2">G1 COST PLAN DATE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">21 OCT 80</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">H1 PLANNED COSTS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">J1 ACTUAL COSTS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">J2 TOTAL ESTIMATE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">FY COSTS FOR CONTRACT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">535</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">K1 TOTAL CONTRACT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">VALUE</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">L1 UNFILLED ORDERS</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">OUTSTANDING</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">M1 ESTIMATE FOR</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">SUBSEQUENT</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">REPORTING</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">PERIOD</td> <td colspan="10"></td> </tr> <tr> <td colspan="2">N/A</td> <td colspan="10"></td> </tr> </table> | | | | | | | | | | | | G1 COST PLAN DATE | | | | | | | | | | | | 21 OCT 80 | | | | | | | | | | | | H1 PLANNED COSTS | | | | | | | | | | | | N/A | | | | | | | | | | | | J1 ACTUAL COSTS | | | | | | | | | | | | N/A | | | | | | | | | | | | J2 TOTAL ESTIMATE | | | | | | | | | | | | FY COSTS FOR CONTRACT | | | | | | | | | | | | 535 | | | | | | | | | | | | K1 TOTAL CONTRACT | | | | | | | | | | | | VALUE | | | | | | | | | | | | N/A | | | | | | | | | | | | L1 UNFILLED ORDERS | | | | | | | | | | | | OUTSTANDING | | | | | | | | | | | | N/A | | | | | | | | | | | | M1 ESTIMATE FOR | | | | | | | | | | | | SUBSEQUENT | | | | | | | | | | | | REPORTING | | | | | | | | | | | | PERIOD | | | | | | | | | | | | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| FY COSTS FOR CONTRACT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| K1 TOTAL CONTRACT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| L1 UNFILLED ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OUTSTANDING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| M1 ESTIMATE FOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSEQUENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REPORTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| E1 VARIANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F1 CUM. VARIANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

132: CONGRESSIONAL ACTIVITIES

1321: Congressional Reports

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, discuss spent fuel ownership, identify potential sites after taking into account comments from public hearings, and recommend methods and costs of acquisition.

ACTIVITY STATUS

.02 Fee Report. The third draft of the fee report for Congress was revised and a formal draft was issued for DOE/HQ review. Its title is Department of Energy Fee and Cost Studies of Spent Nuclear Fuel Storage and Disposal, September 1980, DPSP-AFR-80-8-7, Revision 1. The report defines the spent fuel fee which incorporates costs for interim storage of spent fuel and costs for ultimate geologic disposal. It includes the formula to be used to recover all Federal costs associated with acquisition and operation of AFR facilities, and an estimate of the fee to be charged users of AFR storage and disposal services.

Volume II of the report, a collection of reference reports used in the fee determination, was deleted. All the reports are available to the public.

The final fee report will be issued three weeks after receipt of DOE/HQ comments on the formal draft and will be made available for public distribution three weeks after its release to Congress. The dollar amount of the fee will not be released until the report has been approved.

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---------------------|---|--|---|--|---|---|---|---|----|----|----|---|---|---|---------|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|-----|
| 1. CONTRACT IDENTIFICATION | | REPORTS TO CONGRESS | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1321. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA | | | | 5. CONTRACT START DATE 1 JUNE 79 | | 6. CONTRACT COMPLETION DATE 30 SEPTEMBER 81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | | | | | | | | | | | | | | | | | | | | |
| | | FY 1979 | | | | | | | | | | | | FY 1980 | | | FY 1981 | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1 | SITE REPORT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 100 |
| 2 | FEE REPORT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 65 |
| 3 | FINAL REPORT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | | | | | | | | | | |

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

| | | | | | | | | | | | | | | | | | |
|--|--|---------------------|----|--|----|--|----|---|----|----|----|----|----|--------|--|-------|----|
| 1. CONTRACT IDENTIFICATION | | REPORTS TO CONGRESS | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1321. | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) SAVANNAH RIVER PLANT AIKEN SOUTH CAROLINA | | | | 5. CONTRACT START DATE 1 JUN 79 | | 6. CONTRACT COMPLETION DATE 30 SEP 81 | | | | | | | | | | | |
| 7. MONTHS | | 0 | N | D | J | F | M | A | M | J | J | A | S | TOTALS | | 8. FY | 80 |
| 9. COST STATUS | | | | | | | | | | | | | | | | | |
| <div style="display: flex;"> <div style="flex: 1;"> <p>THOUSANDS</p> <p>ALL</p> </div> <div style="flex: 2;"> </div> <div style="flex: 1;"> <p>10. COST PLAN DATE 21 OCT 80</p> <p>11. PLANNED COSTS PRIOR FY'S N/A</p> <p>12. ACTUAL COSTS PRIOR FY'S N/A</p> <p>13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 50</p> <p>14. TOTAL CONTRACT VALUE N/A</p> <p>15. UNFILLED ORDERS OUTSTANDING N/A</p> <p>16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A</p> </div> </div> | | | | | | | | | | | | | | | | | |
| ACCUMULATED COSTS | | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 50 | | 48 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 2 | 3 | 3 | | | | |
| | | 0 | 0 | 0 | 0 | 23 | 7 | 2 | 2 | 3 | 4 | 4 | 3 | | | | |
| | | 6 | 6 | 6 | 6 | -17 | -1 | 0 | 0 | -1 | -2 | -1 | 0 | | | | |
| | | 6 | 12 | 18 | 24 | 7 | 6 | 6 | 6 | 5 | 3 | 2 | 2 | | | | |
| 17. REMARKS | | | | | | | | | | | | | | | | | |
| 18. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | 19. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | |

132: CONGRESSIONAL ACTIVITIES

1322: Hearings Support

OBJECTIVE

Conduct studies and provide a preliminary plan for public hearings to obtain input for DOE AFR report to Congress. Arrange for a subcontractor or other agency to handle hearing arrangements, logistics, transcript, and summary.

ACTIVITY STATUS

- .02 Prepare Hearings Contract. This work element will not be funded in FY-81 and it will be retired as being completed within the intent of the objective. Future assistance will be provided under the scope of Work Element 1112: Program Planning and Management.

[illegible]

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| | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|----|----|----|---|---|---|---|--------------------|----------|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | | | | | | | | | | | 3. CONTRACT NUMBER | |
| HEARINGS SUPPORT | | 01 SEP 80 THROUGH 30 SEP 80 | | | | | | | | | | | | 1322. | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | | | | | | | | | | | | |
| SAVANNAH RIVER PLANT | | 1 JUL 79 | | | | | | | | | | | | | |
| AIKEN | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | | | |
| SOUTH CAROLINA | | 1 JUL 80 | | | | | | | | | | | | | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | B. FY 80 |
| 9. COST STATUS | | | | | | | | | | | | | | | |
| A1 | | B1 COST PLAN DATE | | | | | | | | | | | | | |
| THOUSANDS | | 21 OCT 80 | | | | | | | | | | | | | |
| | | M1 PLANNED COSTS PRIOR FYS | | | | | | | | | | | | | |
| | | N/A | | | | | | | | | | | | | |
| | | I1 ACTUAL COSTS PRIOR FYS | | | | | | | | | | | | | |
| | | N/A | | | | | | | | | | | | | |
| | | J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT | | | | | | | | | | | | | |
| | | 16 | | | | | | | | | | | | | |
| | | K1 TOTAL CONTRACT VALUE | | | | | | | | | | | | | |
| | | N/A | | | | | | | | | | | | | |
| | | L1 UNFILLED ORDERS OUTSTANDING | | | | | | | | | | | | | |
| | | N/A | | | | | | | | | | | | | |
| ACCURED COSTS | | C1 PLANNED | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 16 |
| | | D1 ACTUAL | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 15 |
| | | E1 VARIANCE | 0 | 0 | 1 | 1 | -4 | 0 | 1 | 1 | 1 | 0 | 1 | -1 | |
| | | F1 CURR. VARIANCE | 0 | 0 | 1 | 2 | -2 | -2 | -1 | 0 | 1 | 1 | 2 | 1 | |
| REMARKS | | | | | | | | | | | | | | | |
| 13. 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

Calculate the progression, consequences, and eventual shutdown mechanism for postulated criticality events involving LWR fuel assemblies in an AFR storage facility.

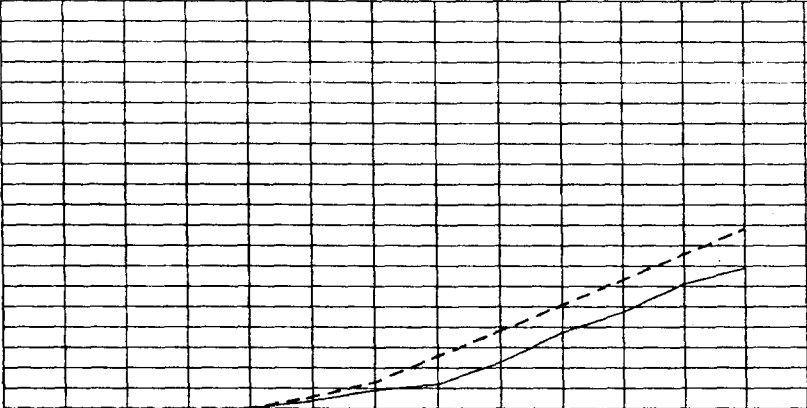
ACTIVITY STATUS

.04 Develop Computational Methods. Major modifications to the neutronics and thermal-hydraulics codes have been completed in preparation for coupling. Routing for linking codes were completed, and testing and debugging the coupled system is in progress.

A draft report describing accident scenarios and critical configurations were submitted for approval before final issue.

[illegible]

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| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
|---|--|-----------------------------|--|-----------------------------|--|
| CRITICALITY ANALYSIS | | 01 SEP 80 THROUGH 30 SEP 80 | | 1411. | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | |
| BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON | | 1 FEB 80 | | 31 JUL 81 | |
| 7. MONTHS | | ALL FUNDING | | TOTALS | |
| 0 N O J F M A M J J A S | | | | 8. FY 80 | |
| 9. COST STATUS | | | | | |
| A)  | | | | | |
| B) COST PLAN DATE | | | | | |
| 21 OCT 80 | | | | | |
| C) PLANNED COSTS PRIOR FY'S | | | | | |
| N/A | | | | | |
| D) ACTUAL COSTS PRIOR FY'S | | | | | |
| N/A | | | | | |
| E) TOTAL ESTIMATE FY COSTS FOR CONTRACT | | | | | |
| 220 | | | | | |
| F) TOTAL CONTRACT VALUE | | | | | |
| N/A | | | | | |
| G) UNFILLED ORDERS OUTSTANDING | | | | | |
| N/A | | | | | |
| H) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | | | | | |
| N/A | | | | | |
| I) REMARKS | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | |
| 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | |

141: SAFETY AND ENVIRONMENTAL TECHNOLOGY

1413: Spent Fuel and Pool Component Integrity

OBJECTIVE

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

ACTIVITY STATUS

- .01 Program Management. Drafts of three PNL papers to be presented at an NACE symposium in Toronto (April 6 through 10, 1981) are being finalized prior to submission for clearance. Titles are:
- Nuclear Fuel Behavior in Water Pools
 - Overview of Spent Fuel Pool Material Studies at PNL
 - Assessment of Stress Corrosion Cracking in Spent Fuel Pool Piping

A paper entitled, Significance of Shippingport and Connecticut Yankee Fuel Examinations to Extended Water Storage of LWR Fuel, is being prepared for an IAEA symposium on spent fuel storage in Las Vegas.

In addition to these pending publications, the following publications were prepared during FY 1980:

- NRC Confidence Hearing Testimony PNL-SA-8197, January 1980; published as a section in DOE/NE-007, 15 April, 1980.
- NRC Confidence Hearing Cross Statement, published as a section in DOE/NE-007, Suppl. 1, 5 September 1980.
- Draft Report, Investigation of the Condition of Metallic Spent Fuel Components, PNL-3537.
- Interim Report, Three Mile Island No. 1 Spent Fuel Pool System Pipe Cracking Analysis, PNL-3102, November 1979.
- Annual Report - FY 1979, Spent Fuel and Fuel Pool Component Integrity, PNL-3171, May 1980.
- Draft Report Summarizing the World Survey of Spent Fuel Storage Experience. (Currently undergoing editing by the IAEA/NEA Consultant Group).

.02 International Activities. The draft of the World Survey of Spent Fuel Storage Experience has been reviewed by the Consultant Group. Comments will be incorporated into the draft in October. A visit to Vienna is planned during October (at IAEA expense) to finalize the survey draft and to consult with the Nuclear Materials and Fuel Cycle Section on a proposed handbook on spent fuel storage.

.03 Spent Fuel Acquisition and Examination. The Shippingport fuel examination of eight rods was completed in September, including the following non-destructive tests: visual, eddy current, profilometry, leak testing and gamma scan; and the following destructive tests: Metallography, hydrogen analyses, fission gas release, and burst tests. Examination results are being evaluated. The preliminary assessment suggests that none of the cladding properties have changed substantially during 21 years of water storage.

Examination of stainless-clad Connecticut Yankee fuel assembly S004 included the following non-destructive tests: sipping, visual, profilometry, gamma scan, eddy current, and weighing. Destructive tests involved: fission gas and metallography. The metallographic examination, including scanning electron microscopy, is still in progress. Burnup analysis, ceramography, microprobe analyses, and clad mechanical property tests remain to be done. The visual, eddy, current and metallographic exams now available have shown no evidence of cracks in the stainless steel cladding of Assembly S004.

.04 Spent Fuel Pool Component Exams. Specimens from fuel pools at Savannah River (RBOF), La Crosse (BWR), and Zion (PWR) are expected to be received for examination during the first quarter of FY 1981.

.05 Mechanism Studies. Work is proceeding to complete equipment installations for spent fuel pool studies and include tanks for environmental tests and test stands for stress corrosion studies.

.06 Spent Fuel Storage Assessment. The contract with the General Electric Company with requested changes was returned to G.E. early in September.

.07 Spent Fuel Shipment Assessment. PNL has asked the Battelle-Columbus Laboratory to submit a proposal for the Phase I assessment as a basis for transferring \$15,000 for work.

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MILESTONE SCHEDULE AND STATUS REPORT

| | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|--|---|--|---|---------|---|---|---|---|----|----|----|----------------------|---|---|---|---|--|--|--|
| 1. CONTRACT IDENTIFICATION FUEL INTEGRITY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1413 | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON | | | | 5. CONTRACT START DATE 1 OCTOBER 78 | | | | | | | | | | | | | | | | | |
| | | | | 6. CONT. COMPLETION DATE INDEFINITE | | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | | | |
| | | FY 1979 | | | | FY 1980 | | | | | | | | FY 1981 | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | | | | |
| 1 | PROD INTERNATIONAL S | | | | | | | | | | | | | | | | | 0 | | | |
| 2 | SPENT FUEL EXAMS (DR | | | | | | | | | | | | | | | | | 0 | | | |
| 3 | FUEL POOL COMPONENT | | | | | | | | | | | | | | | | | 0 | | | |
| 4 | CORROSION MECHANISM | | | | | | | | | | | | | | | | | 0 | | | |
| 5 | FUEL INTEGRITY REPOR | | | | | | | | | | | | | | | | | 0 | | | |
| 6 | FUEL INTEGRITY REPOR | | | | | | | | | | | | | | | | | 0 | | | |
| 7 | FUEL INTEGRITY REPOR | | | | | | | | | | | | | | | | | 0 | | | |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | |

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CONTRACT MANAGEMENT SUMMARY REPORT

| | | | | | | | | | | | | | | | | | |
|---|--|--|----|---|-----|----|----|----|-----|---|-----|-----|------|--------|--|----------|--|
| 1. CONTRACT IDENTIFICATION FUEL INTEGRITY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1413 | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND WASHINGTON | | | | 5. CONTRACT START DATE 1 OCT 78 | | | | | | | | | | | | | |
| | | | | 6. CONTRACT COMPLETION DATE CONTINUING | | | | | | | | | | | | | |
| 7. MONTHS | | 0 | N | O | J | F | M | A | M | J | J | A | S | TOTALS | | 8. FY 80 | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | G1 COST PLAN DATE 21 OCT 80 | | |
| | | | | | | | | | | | | | | | H1 PLANNED COSTS PRIOR FYS N/A | | |
| | | | | | | | | | | | | | | | I1 ACTUAL COSTS PRIOR FYS N/A | | |
| | | | | | | | | | | | | | | | J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 755 | | |
| | | | | | | | | | | | | | | | K1 TOTAL CONTRACT VALUE N/A | | |
| | | | | | | | | | | | | | | | L1 UNFILLED ORDERS OUTSTANDING N/A | | |
| | | | | | | | | | | | | | | | M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | | |
| ACCURED COSTS | | C1 PLANNED | 13 | 30 | 37 | 66 | 72 | 77 | 77 | 73 | 77 | 76 | 79 | 78 | 755 | | |
| | | D1 ACTUAL | 0 | 29 | 49 | 30 | 33 | 56 | 47 | 37 | 39 | 42 | 238 | 132 | 732 | | |
| | | E1 VARIANCE | 13 | 1 | -12 | 36 | 39 | 21 | 30 | 36 | 38 | 34 | -159 | -54 | | | |
| | | F1 CUR. VARIANCE | 13 | 14 | 2 | 38 | 77 | 98 | 128 | 164 | 202 | 236 | 77 | 23 | | | |
| REMARKS | | | | | | | | | | | | | | | | | |
| 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 and evaluate related safety, environmental, and safeguards and accountability issues. The program will bring rod storage to the status of being on hand and ready for hot demonstration.

ACTIVITY STATUS

- .01 Prototype System Design. Design analysis documentation is in progress. Its completion and incorporation with other sections will finish the Task 1 Draft Report. Methods of overcoming the excessive current of the cut-off saw motor in overcoming viscous friction of water on the cutting wheel are being investigated. Action is being taken to correct specific deficiencies cited by the DOE QA audit and to preclude their future occurrence.
- .02 Safety Analysis Report. Comments on the draft report are expected by November 1.
- .03 Safeguards. A response was prepared and sent to address DOE's comments and suggestions regarding the draft report. Also, Allied General Nuclear Services (AGNS) has been contracted to review the draft report.
- .04 Environmental Report. The determination of pool and airborne activity increase in a water basin due to use of a rod storage system is being performed.
- .05 Fabrication. Fabrication of the fuel disassembly and rod storage equipment is in progress at Offshore Power System (OPS). OPS is behind schedule in most activities (software production, material receipts, and product fabrication) for all items. Problem areas causing these delays are due to problems with the start-up of internal systems and an underestimate by OPS of the level of effort required to create manufacturing drawings. OPS has taken corrective actions to place the project back on schedule. A QA audit of OPS' Manufacturing Document Control System was performed at the Blount Island Facility. Some discrepancies were found in implementation of OPS' manufacturing, planning, and control to fabrication work, and they are being corrected. A complete QA audit will be performed during October. Fuel rod guides manufactured by Preferred Engineering and Tooling Industries and the elevator controls system manufactured by MDDS were received at NAC.

.06 Demonstration. Facility preparation at AGNS' Barnwell Plant is on schedule. A meeting was held to finalize pool modification details. The dummy Exxon nuclear fuel assembly has arrived at AGNS.

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PAGE 1 OF 1

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---|---|---|---|---------|---|---|---|---|---|---|---|----------------------|---|---|---|----|---|---|---|----|----|----|--|
| 1. CONTRACT IDENTIFICATION UNDERWATER DISASSEMBLY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1421 | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) NUCLEAR ASSURANCE CORP. ATLANTA GEORGIA | | | | 5. CONTRACT START DATE 1 MAY 79 | | | | | | | | | | | | | | | | | | | | | |
| | | | | 6. CONTRACT COMPLETION DATE 31 JUL 81 | | | | | | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | | | | | | | |
| | | FY 1979 | | | | FY 1980 | | | | | | | | FY 1981 | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 0 | N | D | J | F | M | A | M | J | J | A | S | 1 | 2 | 3 | 4 | 82 | 83 | 84 | |
| 1 | PROTOTYPE DESIGN | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 90 | | | | | | | |
| 2 | SAFETY ANALYSIS | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 90 | | | | | | | |
| 3 | SAW ACCOUNTING | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 98 | | | | | | | |
| 4 | ENVIRONMENTAL ANALYSIS | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 10 | | | | | | | |
| 5 | EQUIPMENT PROCUREMENT | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 50 | | | | | | | |
| 6 | DEMONSTRATION TESTS | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 0 | | | | | | | |
| 7 | ECONOMIC STUDIES | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 0 | | | | | | | |
| 8 | PROJECT REP DISASSEM | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 0 | | | | | | | |
| 9 | W/ COMMT. PREP FOR H | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 0 | | | | | | | |
| 10 | HOT DEMONSTRATION | [REDACTED] | | | | | | | | | | | | [REDACTED] | | | | 0 | | | | | | | |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | |

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

| | | | | | | | | | | | | | | | | |
|---|--|---|----|---|----|----|----|----|----|-----|-----|---|-----|--------|-------|----|
| 1. CONTRACT IDENTIFICATION UNDERWATER DISASSEMBLY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 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 31 JUL 81 | | | | | | | | | | | | |
| 7. MONTHS | | 0 | N | D | J | F | M | A | M | J | J | A | S | TOTALS | C. FT | 80 |
| 8. COST STATUS | | | | | | | | | | | | | | | | |
| <div style="display: flex;"> <div style="flex: 1;"> <p>THOUSANDS</p> <p>ALL</p> </div> <div style="flex: 2;"> </div> <div style="flex: 1;"> <p>9. COST PLAN DATE 21 OCT 80</p> <p>10. PLANNED COSTS PRIOR FTS N/A</p> <p>11. ACTUAL COSTS PRIOR FTS N/A</p> <p>12. TOTAL ESTIMATE FY COSTS FOR CONTRACT 893</p> <p>13. TOTAL CONTRACT VALUE N/A</p> <p>14. UNFILLED ORDERS OUTSTANDING N/A</p> <p>15. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A</p> </div> </div> | | | | | | | | | | | | | | | | |
| RECORDED COSTS | | C1 PLANNED | 66 | 71 | 64 | 45 | 50 | 50 | 44 | 104 | 118 | 93 | 118 | 70 | 893 | |
| | | D2 ACTUAL | 66 | 72 | 63 | 45 | 50 | 50 | 44 | 104 | 97 | 83 | 0 | 203 | 877 | |
| | | E1 VARIANCE | 0 | -1 | 1 | 0 | 0 | 0 | 0 | 0 | 21 | 10 | 118 | -133 | | |
| | | F1 CUR. VARIANCE | 0 | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 31 | 149 | 16 | | |
| 16. REMARKS | | | | | | | | | | | | | | | | |
| 17. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 18. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | |

142: DISASSEMBLY AND ROD STORAGE

1422: Dry Disassembly

OBJECTIVE

Demonstrate disassembly and encapsulation of nuclear fuel as a means to increase spent fuel storage at an AFR with a dry cell.

ACTIVITY STATUS

- .01 Equipment/Procedure Preparation. A purchase order for controls was sent to DOE for approval. Piping and instrument and logic diagrams were completed. One-third of the mechanical equipment drawings are complete. Work orders for construction have been issued. All drawings will be completed in October as scheduled.
- .03 Process Assessment Studies. The General Atomic consulting agreement has been finalized and effort is expected to commence under the agreement next month.

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|---|-----------------------|--|---|---|---|---------|---|---|---|---|---------|---|---|----------------------|----|----|---|---|---|---|---|--|--|--|----|
| 1. CONTRACT IDENTIFICATION DAY DISASSEMBLY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1422 | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) ALLIED GENERAL NUCLEAR SERVICES BARNWELL SOUTH CAROLINA | | 5. CONTRACT START DATE 17 APRIL 80 | | 6. CONTRACT COMPLETION DATE 31 DECEMBER 83 | | | | | | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | | | | | | | |
| | | FY 1979 | | | | FY 1980 | | | | | FY 1981 | | | 82 | 83 | 84 | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | O | N | D | J | F | M | A | M | J | J | A | S | 1 | 2 | 3 | 4 | | | | |
| 1 | EQUIPMENT PROCUREMENT | | | | | | | | | | | | | | | | | | | | | | | | 11 |
| 2 | DEVELOP DISASSEMBLY | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 3 | DISASSEMBLY AND CANN | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 4 | PROCESS ASSESSMENT S | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| 5 | FINAL REPORT FOR COL | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 6 | HOT DEMONSTRATIONS A | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | |

U. S. DEPARTMENT OF ENERGY
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| | | | | | | | | | | | | | | | | | |
|---|---|--|---|--|---|---|---|---|---|----|-----|-----|--------|--|-------|---|--|
| 1. CONTRACT IDENTIFICATION DAY DISASSEMBLY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1422 | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) ALLIED GENERAL NUCLEAR SERVICES BARNWELL SOUTH CAROLINA | | 5. CONTRACT START DATE 17 APR 80 | | 6. CONTRACT COMPLETION DATE 31 DEC 83 | | | | | | | | | | | | | |
| 7. MONTHS | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | | 8. FY | 80 | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | |
| THOUSANDS 450 425 400 375 350 325 300 275 250 225 200 175 150 125 100 75 50 25 0 | | | | | | | | | | | | | | G1 COST PLAN DATE 21 OCT 80 | | | |
| | | | | | | | | | | | | | | H1 PLANNED COSTS PRIOR FYS N/A | | | |
| B1 B AND A NUMBERS ALL | | | | | | | | | | | | | | I1 ACTUAL COSTS PRIOR FYS N/A | | | |
| | | | | | | | | | | | | | | J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT 482 | | | |
| | | | | | | | | | | | | | | K1 TOTAL CONTRACT VALUE N/A | | | |
| | | | | | | | | | | | | | | L1 UNFILLED ORDERS OUTSTANDING N/A | | | |
| RECEIVED COSTS C1 PLANNED D1 ACTUAL E1 VARIANCE F1 CUM. VARIANCE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 64 | 59 | 93 | 133 | 124 | 482 | M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 113 | 79 | 94 | 155 | 441 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 64 | -54 | 14 | 39 | -31 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 73 | 19 | 33 | 72 | 41 | | | |
| 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

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

ACTIVITY STATUS

.05 Measurements. Critical reactor measurements on Core I are complete. The moderator boron concentration required to control criticality was very close to that predicted by pre-experiment calculations. Preparations are underway to load Core II.

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PAGE 1 OF 1

| | | | | | | |
|---|-----------------------|--|----|--|--|----------------------|
| 1. CONTRACT IDENTIFICATION FUEL ROD CRITICALITY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1423 | | |
| 4. CONTRACTOR (NAME, ADDRESS) BABCOCK AND WILCOX CO. LYNCHBURG VIRGINIA | | 5. CONTRACT START DATE 1 JUNE 77 | | 6. CONTRACT COMPLETION DATE 30 SEPTEMBER 81 | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | 10. PERCENT COMPLETE |
| | | FY 1979 | | | | |
| | | FY 1980 | | | | |
| | | FY 1981 | | | | |
| | | 82 | 83 | 84 | | |
| 1 | TASK 1 PHASE 1 PRE-E | | | | | 100 |
| 2 | TASK 1 -PHASE 2 EXPE | | | | | 100 |
| 3 | TASK 1 PHASE 3--ANAL | | | | | 100 |
| 4 | TASK 2 PHASE 2 PREPA | | | | | 80 |
| 5 | TASK 2 PHASE 2 MER | | | | | 10 |
| 6 | TASK 2 PHASE 3 ANALY | | | | | 0 |
| 7 | PIN STORAGE CRITICAL | | | | | 0 |
| 11. REMARKS | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | |

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CONTRACT MANAGEMENT SUMMARY REPORT

| | | | | | |
|--|--|---|--|--|--|
| 3. CONTRACT IDENTIFICATION FUEL ROD CRITICALITY | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1423 | |
| 4. CONTRACTOR (NAME AND ADDRESS) BABCOCK AND WILCOX CO. LYNCHBURG VIRGINIA | | 5. CONTRACT START DATE 1 JUN 77 | | 6. CONTRACT COMPLETION DATE 30 SEP 81 | |
| 7. MONTHS | | 8. FT | | 80 | |
| B. COST STATUS | | ALL FUNDING | | | |
| A. COST STATUS | | G. COST PLAN DATE 21 OCT 80 | | H. PLANNED COSTS PRIOR FTS N/A | |
| I. ACTUAL COSTS PRIOR FTS N/A | | J. TOTAL ESTIMATE FY COSTS FOR CONTRACT 337 | | K. TOTAL CONTRACT VALUE N/A | |
| L. UNFILLED ORDERS OUTSTANDING N/A | | M. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | | | |
| THOUSANDS | | ALL | | | |
| C. PLANNED | | D. ACTUAL | | E. VARIANCE | |
| F. CUM. VARIANCE | | | | | |
| REMARKS | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | |

143: AFR EQUIPMENT DEVELOPMENT

1432: Laser-Based Failure Detection

OBJECTIVE

Test, develop, and apply laser-based analytical techniques to the detection and identification of leaking spent nuclear fuel assemblies in water-cooled storage facilities as follows:

- Evaluate the most promising laser-based technique for detecting leakers.
- Evaluate laboratory techniques and determine the minimum sensitivity.
- Evaluate this technique with field tests.

ACTIVITY STATUS

.02 Sensitivity and Selectivity. An ultra-violet laser and a visible laser were successfully used to detect atoms and molecules. The double resonance laser technique can now be used with the combination of a UV laser and a visible laser. Previously, two UV lasers were required.

144: STORAGE ALTERNATIVES

1441: Dry Storage Concept Evaluation

OBJECTIVE

Assess the feasibility of the various spent fuel dry storage options that have been developed or proposed. Evaluate the economic and safety comparisons for the options that are considered feasible and compare these to wet storage. Advanced studies will be performed for the most promising dry storage alternative.

ACTIVITY STATUS

- .05 Prepare and Issue Dry Storage Evaluation Final Report. Copies of the final report, Spent Fuel Dry Storage Concept Evaluation, were transmitted. Program commitments are complete.

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------------|---|-----------------------------|---|---------|---|---|---|---|---|---|---|----------------------|----|----|----|---|---|---|---|--|--|--|--|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | | | | | | | | | | | | | | | | | | | | | |
| DRY STORAGE CONCEPT EVALUATION | | 01 SEP 80 THROUGH 30 SEP 80 | | 1441 | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | | | | | | | | | | | |
| ROCKWELL HANFORD OPERATIONS RICHLAND WASHINGTON | | 1 OCTOBER 79 | | 30 JUNE 80 | | | | | | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | | | | | | | |
| | | FY 1979 | | | | FY 1980 | | | | | | | | FY 1981 | 82 | 83 | 84 | | | | | | | | |
| | | 1 | 2 | 3 | 4 | D | N | D | J | F | M | A | M | J | J | A | S | 1 | 2 | 3 | 4 | | | | |
| 1 | PREPARE OUTLINE OF R | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | REVIEW OF DRY STORAG | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | SELECTION OF BASE CA | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | COST AND OPNING ASSM | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | PREPARE AND ISSUE DR | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 13. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | |

U. S. DEPARTMENT OF ENERGY
SAVANNAH RIVER OPERATIONS OFFICE
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| | | | | | | | | | | | | | | | |
|---|--|-----------------------------|---|-----------------------------|---|---|----|----|----|----|----|---|----|--------|----------|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | | | | | | | | | | | |
| DRY STORAGE CONCEPT EVALUATION | | 01 SEP 80 THROUGH 30 SEP 80 | | 1441 | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | | | | | | | | | | | |
| ROCKWELL HANFORD OPERATIONS RICHLAND WASHINGTON | | 1 OCT 79 | | 30 JUN 80 | | | | | | | | | | | |
| 7. MONTHS | | 8. FY 80 | | | | | | | | | | | | | |
| | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 |
| 9. COST STATUS | | | | | | | | | | | | | | | |
| <div style="display: flex;"> <div style="flex: 1;"> <p>THOUSANDS</p> <p>90</p><p>85</p><p>80</p><p>75</p><p>70</p><p>65</p><p>60</p><p>55</p><p>50</p><p>45</p><p>40</p><p>35</p><p>30</p><p>25</p><p>20</p><p>15</p><p>10</p><p>5</p><p>0</p> </div> <div style="flex: 2;"> </div> <div style="flex: 1;"> <p>10. COST PLAN DATE</p><p>21 OCT 80</p> <p>11. PLANNED COSTS PRIOR FY</p><p>N/A</p> <p>12. ACTUAL COSTS PRIOR FY</p><p>N/A</p> <p>13. TOTAL ESTIMATE FY COSTS FOR CONTRACT</p><p>85</p> <p>14. TOTAL CONTRACT VALUE</p><p>N/A</p> <p>15. UNFILLED ORDERS OUTSTANDING</p><p>N/A</p> <p>16. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD</p><p>N/A</p> </div> </div> | | | | | | | | | | | | | | | |
| 17. ACCUMULATED COSTS | | 18. REMARKS | | | | | | | | | | | | | |
| C1. PLANNED | | 0 | 0 | 0 | 2 | 2 | 15 | 24 | 21 | 21 | 0 | 0 | 0 | 85 | |
| C2. ACTUAL | | 0 | 0 | 0 | 1 | 2 | 12 | 19 | 23 | 16 | 5 | 0 | 7 | 85 | |
| C3. VARIANCE | | 0 | 0 | 0 | 1 | 0 | 3 | 5 | -2 | 5 | -5 | 0 | -7 | 0 | |
| C4. CUM. VARIANCE | | 0 | 0 | 0 | 1 | 1 | 4 | 9 | 7 | 12 | 7 | 7 | 0 | 0 | |
| 19. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | | | | |
| 20. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | |

144: CONCEPTUAL DRY STORAGE

1443: Dry Storage at Morris Operation

OBJECTIVE

Develop the conceptual design of an integrated system for dry storage of spent fuel at Morris Operation. Conduct supporting analyses and reviews in sufficient detail to establish firm technical and licensing bases for the concept. Define licensing and project requirements for implementing the concept.

ACTIVITY STATUS

- .01 Fuel Preparation Cell. Spent fuel disassembly experience was investigated; there are indications that irradiated PWR fuels have been disassembled several times, but the only actual experience available to GE was the disassembly of several bundles by Battelle Northwest Laboratories for a small processing facility test. The disassembly was on a laboratory scale and difficulty was encountered in rod removal. Some rods had to be cut and sectioned at the spacers to obtain the core material.
- .02 Fuel Storage Cells. An in-house computer program for the thermal analysis of air-stored, compacted fuel rods in square canisters nears completion. Pacific Northwest Laboratories will perform thermal analysis calculations of BWR and PWR whole bundles. These calculations should be completed in November.

Evaluation continues on alternative canister configurations for the dry storage of consolidated rods. Emphasis has been placed on developing a storage system for PWR's which is similar to that developed for the BWR system. This is a system where fuel bundles and canisters of separated rods can be stored interchangeably. A concept has been developed, but not yet thermally analyzed, which permits storage of standard PWR fuel canisters interchangeably with an extended surface PWR rod canister. The canister spacing must be slightly larger to accept the rod canister. With the increased spacing, the storage capacity for PWR fuels in the canyon cells would be some 10% less than that for BWR fuels. In the BWR system, the same canister and canister spacing is used for storing both bundles and rods. In this PWR system, however, different canister designs are used for bundle and rod storage, but they are stored at the same centerline spacing in the same storage racks. There can be no final selection of storage approaches on separated rods until rod thermal analyses are completed.

[illegible]

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|
| 1. CONTRACT IDENTIFICATION | | | | | | | | | | 2. REPORTING PERIOD | | | | | | | | | | 3. CONTRACT NUMBER | | | | | | | | | |
| CONCEPTUAL DRY STORAGE - MORRIS | | | | | | | | | | 01 SEP 80 THROUGH 30 SEP 80 | | | | | | | | | | 1443. | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | | | | | | | | | 5. CONTRACT START DATE | | | | | | | | | | 6. CONTRACT COMPLETION DATE | | | | | | | | | |
| GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA | | | | | | | | | | ALL FUNDING | | | | | | | | | | 1 MAY 80 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 30 NOV 81 | | | | | | | | | |
| 7. MONTHS | | | | | | | | | | O N D J F M A M J J A S | | | | | | | | | | TOTALS 8. FY 80 | | | | | | | | | |
| 8. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. COST PLAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. COST PLAN DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. PLANNED COSTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. ACTUAL COSTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. TOTAL ESTIMATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. TOTAL CONTRACT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15. UNPLANNED ORDER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. ESTIMATE FOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17. SUBSEQUENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. REPORTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. PERIOD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 72. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 74. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 77. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 78. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 86. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 89. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 93. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 95. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 96. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 97. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 98. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 99. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

144: STORAGE ALTERNATIVES

1444: Dry Storage Technology Development

OBJECTIVE

Develop a program for dry storage demonstrations and tests at the Nevada Test Site to show the feasibility and safety of dry storage and collect data for licensing of the concept.

ACTIVITY STATUS

- .01 Program Plan. A meeting was held at SRP with DOE/SR, Westinghouse, and Du Pont to review a draft of the dry storage program plan. Changes were agreed upon and incorporated into a final draft, which was transmitted in September.
- .03 Past Experience Summary Report. A rough draft of this report was submitted in September. Revisions were completed and a final draft will be released during October.

[illegible]

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

| | | | | | | | | | | | | | | | |
|----------------------------------|--|------------------------|-----------------------------|-----------------------------|-----------|---|---|---|---|---|---|---|--------|-------|----|
| 1. CONTRACT IDENTIFICATION | DRY STORAGE TECHNOLOGY DEVELOPMENT | 2. REPORTING PERIOD | 01 SEP 80 THROUGH 30 SEP 80 | 3. CONTRACT NUMBER | 1444. | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | WESTINGHOUSE CORP. PITTSBURGH PENNSYLVANIA | 5. CONTRACT START DATE | 1 JAN 80 | 6. CONTRACT COMPLETION DATE | 30 SEP 80 | | | | | | | | | | |
| 7. MONTHS | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 9. FY | 80 |
| 8. COST STATUS | | | | | | | | | | | | | | | |
| A) THOUSANDS | 450 | | | | | | | | | | | | | | |
| | 425 | | | | | | | | | | | | | | |
| | 400 | | | | | | | | | | | | | | |
| | 375 | | | | | | | | | | | | | | |
| | 350 | | | | | | | | | | | | | | |
| | 325 | | | | | | | | | | | | | | |
| | 300 | | | | | | | | | | | | | | |
| | 275 | | | | | | | | | | | | | | |
| | 250 | | | | | | | | | | | | | | |
| | 225 | | | | | | | | | | | | | | |
| | 200 | | | | | | | | | | | | | | |
| | 175 | | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | | |
| | 125 | | | | | | | | | | | | | | |
| | 100 | | | | | | | | | | | | | | |
| | 75 | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | |
| | 25 | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | |
| B) B AND A NUMBERS | | | | | | | | | | | | | | | |
| ALL | | | | | | | | | | | | | | | |
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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 and pilot advanced storage concepts.

ACTIVITY STATUS

- .01 Morris Operation Capabilities. NEDG-24806, Concepts for Spent Fuel Storage Tests at Morris Operation, has been printed. Distribution of the report awaits SRP release approval.
- .02 Gaseous Radionuclide Release. Evaluation of data to determine the amount of basin tritium in basin exhaust air continues. To aid in understanding tritium transport, two bench-scale laboratory experiments have been conducted. In these experiments tritiated water was evaporated and relative amounts of tritium in condensate and evaporator bottoms determined. Samples to determine the concentration of krypton in basin exhaust air are at Argonne awaiting analysis.
- .03 Radiation Levels. Detailed design continues on the test chamber for making radiation measurements on individual fuel bundles both along the bundle length and above the top. Ten preliminary drawings have been completed. The design of the base support (lower portion of the test chamber) is about 75% complete. The design of the diving bell (top portion of the test chamber) has been initiated.

A prototype indexing mechanism for positioning the radiation detector along the vertical fuel length has been tested. Preliminary calibration checks have been performed both in air and water. Tests indicated that the detector can be placed within an eighth-inch of a designated position along the fuel length.

- .05 Activity Transfer. To determine whether a radioisotopic gradient exists in either Basin 1 or Basin 2, samples were taken at 15 basin locations at three water depths. Lab analysis of samples has been completed and results are being evaluated.

Qualitative sipping tests using both the whole basket and individual bundle sipping hoods are being evaluated.

Design criteria have been developed for the test chamber for quantitative sipping tests on individual bundles.

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

PAGE 1 OF 1

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|--|---|---|---|---------|---|---|---|---|---|--|---|----------------------|---|---|---|---------|----|----|----|--|--|
| 1. CONTRACT IDENTIFICATION MORRIS TEST PROGRAM | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1453 | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA | | 5. CONTRACT START DATE 1 FEBRUARY 79 | | 6. CONTRACT COMPLETION DATE 31 DECEMBER 81 | | | | | | | | | | | | | | | | | | | |
| 7. IDENT. NUMBER | 8. REPORTING CATEGORY | 9. FISCAL YEARS | | | | | | | | | | | | 10. PERCENT COMPLETE | | | | | | | | | |
| | | FY 1979 | | | | FY 1980 | | | | | | | | | | | | FY 1981 | 82 | 83 | 84 | | |
| | | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| 1 | MORRIS OPERATION CAP | | | | | | | | | | | | | | | | | | | | | | |
| 2 | GASEOUS RADIONUCLIDE | | | | | | | | | | | | | | | | | | | | | | |
| 3 | RADIATION LEVELS | | | | | | | | | | | | | | | | | | | | | | |
| 4 | HEAT GENERATION RATE | | | | | | | | | | | | | | | | | | | | | | |
| 5 | ACTIVITY TRANSFER | | | | | | | | | | | | | | | | | | | | | | |
| 11. REMARKS | | | | | | | | | | | | | | | | | | | | | | | |
| 12. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 13. SIGNATURE OF GOVT. WENT. TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | |

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

| | | | | | | | | | | | | | | |
|--|------------|--|---|--|---|---|---|---|----|----|----|--|--------|-----------|
| 1. CONTRACT IDENTIFICATION MORRIS TEST PROGRAM | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | 3. CONTRACT NUMBER 1453 | | | | | | | | | | |
| 4. CONTRACTOR (NAME, ADDRESS) GENERAL ELECTRIC CO. SAN JOSE CALIFORNIA | | 5. CONTRACT START DATE 1 FEB 79 | | 6. CONTRACT COMPLETION DATE 31 DEC 81 | | | | | | | | | | |
| 7. MONTH | C | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 |
| 9. COST STATUS | | | | | | | | | | | | | | |
| THOUSANDS | 450 | | | | | | | | | | | | | 21 OCT 80 |
| | 425 | | | | | | | | | | | | | |
| | 400 | | | | | | | | | | | | | |
| | 375 | | | | | | | | | | | | | |
| | 350 | | | | | | | | | | | | | |
| | 325 | | | | | | | | | | | | | |
| | 300 | | | | | | | | | | | | | |
| | 275 | | | | | | | | | | | | | |
| | 250 | | | | | | | | | | | | | |
| | 225 | | | | | | | | | | | | | |
| | 200 | | | | | | | | | | | | | |
| | 175 | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | |
| | 125 | | | | | | | | | | | | | |
| | 100 | | | | | | | | | | | | | |
| ALL | 75 | | | | | | | | | | | | | 130 |
| | 50 | | | | | | | | | | | | | |
| | 25 | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | |
| ACCUM. COSTS | CI PLANNED | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 21 | 21 | 36 | 48 | 26 | 161 |
| DI ACTUAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 101 | 110 |
| EI VARIANCE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 21 | 36 | 48 | -75 | |
| FI CUM. VARIANCE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 42 | 78 | 126 | 51 | |
| 14. REMARKS CONFLICT - FINANCIAL PLAN IS 161 FY ESTIMATE IS 130 | | | | | | | | | | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | 14. SIGNATURE OF GOVT. WENT. 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 two basic criteria:

- (1) Minimization of ton-mile for lowest costs and
- (2) Minimization of people-ton-miles for lowest exposure.

ACTIVITY STATUS

- .01 Develop Site Selection Method. Work continued on the streamlining of the computer programs and development and testing of formulations and algorithms to address timing and capacity considerations.

[illegible]

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

| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | | | | | | | | | 3. CONTRACT NUMBER | | | | | | |
|--|--|-----------------------------|---|---|---|---|----|----|-----|---|----|--|------|--------|---|-----|---|--|
| SITE SELECTION METHOD | | 01 SEP 80 THROUGH 30 SEP 80 | | | | | | | | | | 1463. | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | ALL FUNDING | | | | | | | | | | 5. CONTRACT START DATE 1 OCT 79 | | | | | | |
| JOHNS HOPKINS UNIVERSITY BALTIMORE MARYLAND | | | | | | | | | | | | 6. CONTRACT COMPLETION DATE 31 DEC 80 | | | | | | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY | 80 | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | |
| A1 | | | | | | | | | | | | | | | G1 COST PLAN DATE | | | |
| THOUSANDS | | | | | | | | | | | | | | | 21 OCT 80 | | | |
| B1 B AND A NUMBERS | | | | | | | | | | | | | | | H1 PLANNED COSTS PRIOR FY'S | | | |
| ALL | | | | | | | | | | | | | | | N/A | | | |
| | | | | | | | | | | | | | | | I1 ACTUAL COSTS PRIOR FY'S | | | |
| | | | | | | | | | | | | | | | N/A | | | |
| | | | | | | | | | | | | | | | J1 TOTAL ESTIMATE FY COSTS FOR CONTRACT | | | |
| | | | | | | | | | | | | | | | 165 | | | |
| | | | | | | | | | | | | | | | K1 TOTAL CONTRACT VALUE | | | |
| | | | | | | | | | | | | | | | N/A | | | |
| | | | | | | | | | | | | | | | L1 UNFILLED ORDERS OUTSTANDING | | | |
| | | | | | | | | | | | | | | | N/A | | | |
| ACCURED COSTS | | C1 PLANNED | 0 | 0 | 0 | 0 | 20 | 20 | 22 | 21 | 21 | 21 | 20 | 20 | | 165 | M1 ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | |
| | | D1 ACTUAL | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 20 | 27 | 7 | -110 | 172 | | 172 | N/A | |
| | | E1 VARIANCE | 0 | 0 | 0 | 0 | 20 | 20 | -34 | 1 | -6 | 14 | 130 | -152 | | | | |
| | | F1 CUM. VARIANCE | 0 | 0 | 0 | 0 | 20 | 40 | 6 | 7 | 1 | 15 | 145 | -7 | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | |

147: SAFEGUARDS

1471: Physical Protection Requirements

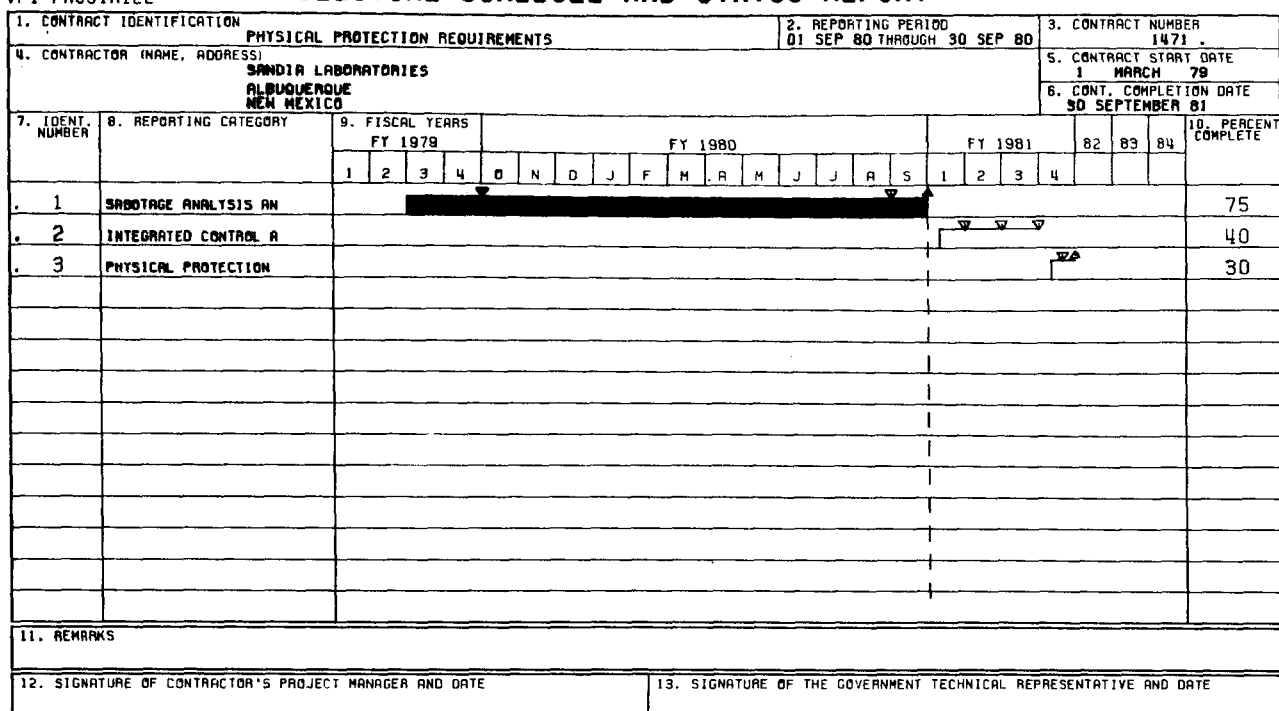
OBJECTIVE

Address the technical problems related to the protection and monitoring of spent fuel storage facilities. Design and analytically evaluate integrated safeguards systems and related test equipment to ensure adequate performance and compatability. Perform an analysis to determine possible sabotage events in spent fuel pools. Design an integrated control and safeguards system to perform the following tasks:

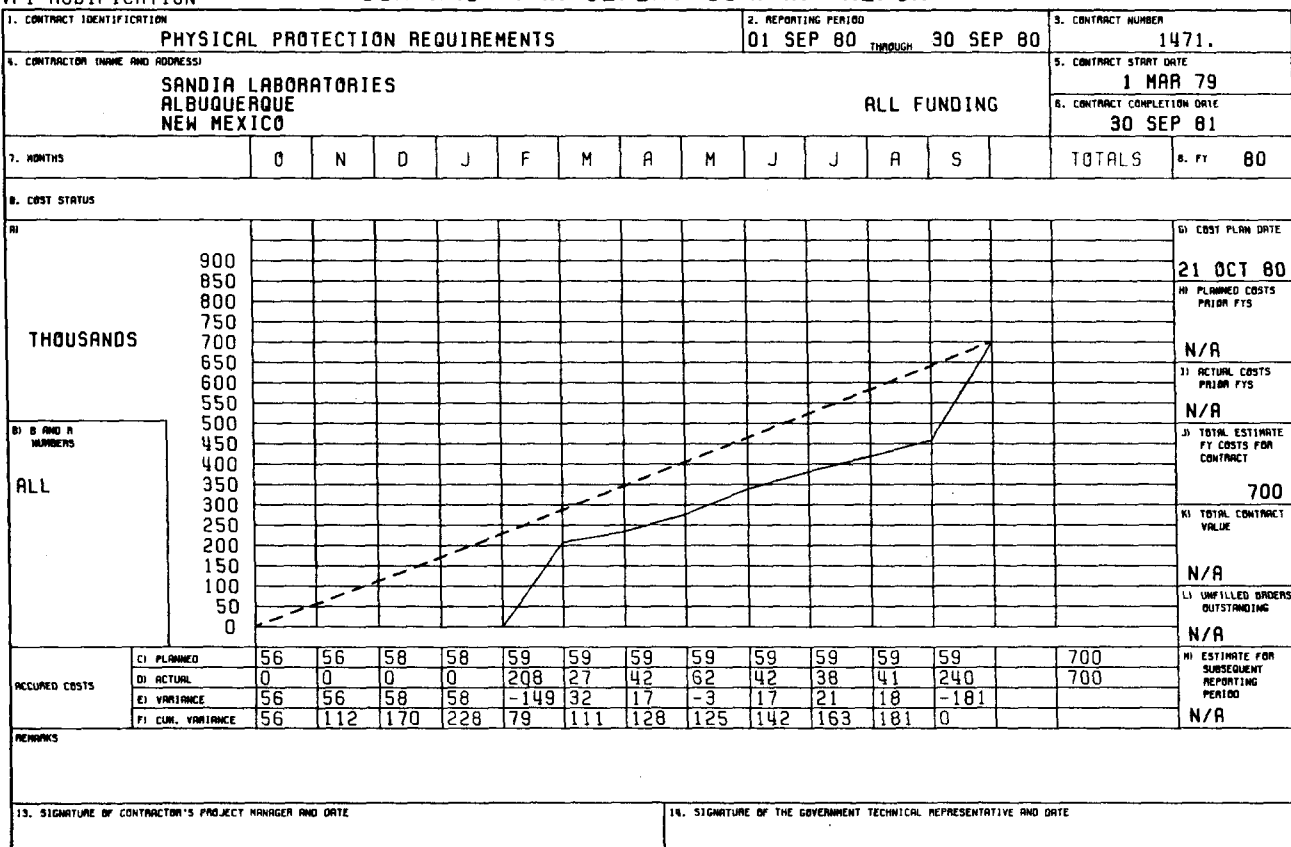
- Confirm reported movements and operations.
- Detect unreported movements and operations.
- Provide continuous record of status, location, and inventory.
- Contain tamper-indicating and self-checking ability.
- Provide technical assistance during the construction and checkout of selected spent fuel storage facilities.

ACTIVITY STATUS

- .01 Sabotage Analysis. Laboratory experiments are planned to confirm UO₂ material parameters used in the report SAND 80-0079, Preliminary Analysis of Explosive Sabotage of LWR Spent Fuel. A supplier has been located who can fabricate samples to desired sizes and to new fuel manufacturing specifications.
- .02 Integrated Control. At a meeting with Du Pont and Nuclear Material Management Safeguard System (NMMSS) personnel, Sandia outlined an Item Accounting System (IAS). Participants identified several areas requiring additional information and coordination. Sandia will circulate an outline draft of the IAS for consideration.
- .03 Physical Protection System. The physical protection system design for a generic AFR spent fuel facility allows the use of local law enforcement agencies, FBI, and DOE personnel to be the primary response force. This option reduces on-site security force personnel by up to an order of magnitude; however, capital cost increase because of required hardware subsystems. Subsystems were identified and performance specification were defined. Since most of the components exist, the additional hardware effort consists of integration and testing.



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147: SAFEGUARDS

1472: Accountability Systems

OBJECTIVE

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

ACTIVITY STATUS

- .02 Inventory and Control Systems. Monte Carlo calculations on irradiated PWR fuel assemblies, that were described last month, have been extended to mock up the energy dependence of prompt neutrons generated when a fuel assembly is pulsed with an external neutron source. The major finding was that the epithermal flux, (E greater than 0.625 ev) was about three times the thermal flux, (E less than 0.625 ev), within 2 cm distance from the assembly. This finding reinforces the choice of an epithermal neutron detector as the preferred instrument to assay plutonium content; the original choice favored an epithermal detector to discriminate against the predominate thermal pulse neutrons from the external source.

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

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147: SAFEGUARDS

1473: Safeguards and Nonproliferation Support

OBJECTIVE

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

ACTIVITY STATUS

- .01 Technical Support. The Technical Data Summary for AFR safeguards and nonproliferation concerns (DPSTD-AFR-80-43) was issued September 23. A program plan for fiscal years 1981 through 1985 is in preparation.

[illegible]

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

| | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|-----------------------------|---|---|---|---|---|---|-----------------------------|--------|-------|
| 1. CONTRACT IDENTIFICATION | | | | | | 2. REPORTING PERIOD | | | | | | | 3. CONTRACT NUMBER | | |
| SAFEGUARDS AND NON-PROLIFERATION SUPPORT | | | | | | 01 SEP 80 THROUGH 30 SEP 80 | | | | | | | 1473. | | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | | | | | 5. CONTRACT START DATE | | | | | | | 6. CONTRACT COMPLETION DATE | | |
| SAVANNAH RIVER LABORATORY AIKEN SOUTH CAROLINA | | | | | | ALL FUNDING | | | | | | | 1 MAY 79 | | |
| | | | | | | | | | | | | | 30 SEP 81 | | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY |
| | | | | | | | | | | | | | | | 80 |
| 9. COST STATUS | | | | | | | | | | | | | | | |
| A) | | | | | | | | | | | | | | | |
| B) B AND R NUMBERS | | | | | | | | | | | | | | | |
| ALL | | | | | | | | | | | | | | | |
| C) PLANNED | | | | | | | | | | | | | | | |
| D) ACTUAL | | | | | | | | | | | | | | | |
| E) VARIANCE | | | | | | | | | | | | | | | |
| F) CUM. VARIANCE | | | | | | | | | | | | | | | |
| G) COST PLAN DATE | | | | | | | | | | | | | | | |
| H) PLANNED COSTS PAID BY FY | | | | | | | | | | | | | | | |
| I) ACTUAL COSTS PAID BY FY | | | | | | | | | | | | | | | |
| J) TOTAL ESTIMATE FY COSTS FOR CONTRACT | | | | | | | | | | | | | | | |
| K) TOTAL CONTRACT VALUE | | | | | | | | | | | | | | | |
| L) UNFULFILLED ORDER OUTSTANDING | | | | | | | | | | | | | | | |
| M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD | | | | | | | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | |
| CONFLICT - FINANCIAL PLAN IS 50 FY ESTIMATE IS 75 | | | | | | | | | | | | | | | |
| 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: Define Industry Needs and Capabilities

OBJECTIVE

Survey the cask manufacturing industry to determine willingness and limitations to keep up with cask demands. Assess manufacturing capabilities and determine the availability and fabricability of cask materials. Identify legislation, regulations, and other institutional impediments. The Nuclear Materials Transportation Technology Center (TTC) will do the following:

- Conduct the survey and evaluate industry response to transportation system demands.
- Gather and collate information on State and local legislation and regulations.
- Assess the impact of "ALARA" (as low as reasonably achievable) on spent fuel transport and evaluate the effects of routing restrictions.
- Develop a generic risk model program and a standardized transportation EIS.

ACTIVITY STATUS

- .01 Institutional Issues. Results from the industry survey questionnaire were compiled and forwarded to a consultant group of industry representatives for evaluation and comment.



151: TRANSPORT INDUSTRY PROGRAMS

1512: Transportation System Development

OBJECTIVE

Develop cask/facility interface criteria and establish testing standards. Identify and evaluate quality assurance methods, decontamination techniques, and exposure control procedures. The Nuclear Materials Transportation Technology Center will:

- Establish system design descriptions and equipment interface criteria
- Develop required cask manufacturing quality assurance, decontamination, and exposure control procedures
- Enhance development of transportation system standards
- Evaluate transportation system safety when subjected to extreme accidents
- Develop cask fleet servicing facilities
- Advance intermodal transportation
- Evaluate cask handling options
- Develop transportation logistics models

ACTIVITY STATUS

.02 Transportation System Safety Evaluation. The first of a series of experiments subjecting spent fuel to hypervelocity impacts was conducted at EG&G/INEL. The test purpose was to determine and characterize particle size distribution of fission and activation products dispersed under very high shock and thermal conditions. Analysis of data is underway.

.07 Methods. A computer model was developed which permits evaluation of a thermal transient in a cask under accident and post-accident conditions. ORNL will add the model to the PACRAT/SCOPE system.

Staff of the Oregon Graduate Center (OGC) are developing welding processes for cask manufacturing which would allow joining of steel sections up to 14 inches thick. Exxon, another TTC contractor, is inventorying and evaluating manufacturing and QA methods to be applied to fabricating shipping containers. A number of areas were identified where OGC and Exxon might interface to support each other's programs.

A meeting was held with PNL to discuss work on thermal code inventory and benchmarking. Among topics discussed were: (1) the philosophy of the benchmarking effort; (2) specific test cases to be developed by PNL and SNL/TTC for use in exercising thermal codes, and (3) industry and government participation in the benchmarking effort.

- .08 Logistics. NUREG-0348 (October, 1979) lists 165 urban areas with populations of over 100,000 that have been placed in the COMPU.MAP data base. Coordinates of all power reactors from the same report are being checked against COMPU.MAP node coordinates.

NO MILESTONE SCHEDULE and STATUS REPORT (DOE 535) received

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | | |
|---|-------------|------------------|----|-----|------|----|----|----|----|--|----|----|-----|--|----------|--|
| 1. CONTRACT IDENTIFICATION TRANSPORT SYSTEM DEVELOPMENT | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | 3. CONTRACT NUMBER 1512. | | |
| 4. CONTRACTOR (NAME AND ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO | | | | | | | | | | 5. CONTRACT START DATE 1 OCT 79 | | | | 6. CONTRACT COMPLETION DATE CONTINUING | | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 | |
| 9. COST STATUS | | | | | | | | | | | | | | | | |
| THOUSANDS ALL | | | | | | | | | | | | | | GJ COST PLAN DATE 21 OCT 80 | | |
| | | | | | | | | | | | | | | HJ PLANNED COSTS PRIOR FTS N/A | | |
| | | | | | | | | | | | | | | IJ ACTUAL COSTS PRIOR FTS N/A | | |
| | | | | | | | | | | | | | | JJ TOTAL ESTIMATE FY COSTS FOR CONTRACT 725 | | |
| | | | | | | | | | | | | | | KJ TOTAL CONTRACT VALUE N/A | | |
| | | | | | | | | | | | | | | LJ UNFILLED ORDERS OUTSTANDING N/A | | |
| ACCURED COSTS | | CI PLANNED | 55 | 55 | 55 | 55 | 55 | 60 | 70 | 80 | 65 | 60 | 50 | 65 | 725 | NI ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A |
| | DI ACTUAL | 0 | 0 | 0 | 196 | 55 | 40 | 37 | 36 | 91 | 60 | 50 | 160 | 725 | | |
| | EI VARIANCE | 55 | 55 | 55 | -141 | 0 | 20 | 33 | 44 | -26 | 0 | 0 | -95 | | | |
| | | FI CUM. VARIANCE | 55 | 110 | 165 | 24 | 24 | 44 | 77 | 121 | 95 | 95 | 95 | 0 | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | | | | | |
| 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | | |

153: TRANSPORTATION SUPPORT

153l: Transportation Information

OBJECTIVE

Develop a comprehensive Transportation Information System as a source of information on spent fuel casks, shipping modes, routes, and costs.

ACTIVITY STATUS

- .04 Legislative Data Base. The Environmental Science Information Center, ORNL, is preparing a comprehensive collection of notebooks containing information on each state's legislative actions.

NO MILESTONE SCHEDULE and STATUS REPORT (DOE 535) received

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | | |
|--|--|-----------------------------------|---|----|----|-----|----|----|----|--|----|----|----|--|----------|--|
| 1. CONTRACT IDENTIFICATION TRANSPORT INFORMATION | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | 3. CONTRACT NUMBER 1531. | | |
| 4. CONTRACTOR (NAME AND ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO | | | | | | | | | | 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 80 | |
| 9. COST STATUS | | | | | | | | | | | | | | | | |
| THOUSANDS ALL | | | | | | | | | | | | | | G) COST PLAN DATE 21 OCT 80 | | |
| | | H) PLANNED COSTS PRIOR FYS N/A | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | I) ACTUAL COSTS PRIOR FYS N/A | | |
| | | | | | | | | | | | | | | J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 125 | | |
| | | | | | | | | | | | | | | K) TOTAL CONTRACT VALUE N/A | | |
| | | | | | | | | | | | | | | L) UNFILLED ORDERS OUTSTANDING N/A | | |
| ACCURED COSTS | | C) PLANNED | 6 | 6 | 6 | 6 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 125 | M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A |
| | | D) ACTUAL | 0 | 0 | 0 | 29 | 8 | 8 | 14 | 4 | 13 | 14 | 15 | 20 | 125 | |
| | | E) VARIANCE | 6 | 6 | 6 | -23 | 4 | 4 | -2 | 9 | 0 | -1 | -2 | -7 | | |
| | | F) CUM. VARIANCE | 6 | 12 | 18 | -5 | -1 | 3 | 1 | 10 | 10 | 9 | 7 | 0 | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | | | | | | | |
| 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | | |

153: TRANSPORTATION SUPPORT

1532: International Transport Data and Support

OBJECTIVE

Obtain data pertaining to transport of foreign spent power reactor fuel. The Nuclear Materials Transportation Technology Center (TTC) will collect and assess baseline information on land, water, and air transportation systems for international spent fuel shipments and information on international facility transportation interfaces.

ACTIVITY STATUS

.01 Transportation System Data. Reactor and plant site data sheets have been prepared on the contract to establish foreign reactor interfaces. Final reports, which will be site specific, are due in late November.

.02 Routine Transfer. The Category III Mission Study (Routine Transfer Study) was also ready for release on September 28, but is also being modified for requested format changes. This study has also been classified, and is separated into three parts as follows:

- Part -1 Introduction and Executive Summary
- Part -2 Policy Aspects Analysis
- Part -3 Spent Fuel Arisings Analysis

NO MILESTONE SCHEDULE and STATUS REPORT (DOE 535) received

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|----|-----|----|-----|----|----|---|---|----|----|-----|--|---|---|---|---|---|-----|---|---|---|---|---|----|-----|-----------|---|---|---|----|---|-----|---|---|---|----|---|----|-----|-------------|---|---|---|-----|----|---|----|---|---|----|---|---|--|------------------|---|----|----|----|----|----|----|----|---|----|----|---|--|
| 1. CONTRACT IDENTIFICATION INTERNATIONAL TRANSPORT DATA | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | | 3. CONTRACT NUMBER 1532. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR (NAME AND ADDRESS) SANDIA LABORATORIES ALBUQUERQUE NEW MEXICO | | | | | | | | | | ALL FUNDING | | | | | 5. CONTRACT START DATE 1 OCT 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 6. CONTRACT COMPLETION DATE CONTINUING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. MONTHS | | 0 | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THOUSANDS ALL | | | | | | | | | | | | | | G) COST PLAN DATE 21 OCT 80 H) PLANNED COSTS PRIOR FY N/A I) ACTUAL COSTS PRIOR FY N/A J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 250 K) TOTAL CONTRACT VALUE N/A L) UNFILLED ORDERS OUTSTANDING N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <td>C) PLANNED</td> <td>5</td> <td>5</td> <td>5</td> <td>0</td> <td>0</td> <td>155</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>55</td> <td>250</td> </tr> <tr> <td>D) ACTUAL</td> <td>0</td> <td>0</td> <td>0</td> <td>17</td> <td>5</td> <td>150</td> <td>6</td> <td>3</td> <td>4</td> <td>10</td> <td>5</td> <td>50</td> <td>250</td> </tr> <tr> <td>E) VARIANCE</td> <td>5</td> <td>5</td> <td>5</td> <td>-17</td> <td>-5</td> <td>5</td> <td>-1</td> <td>2</td> <td>1</td> <td>-5</td> <td>0</td> <td>5</td> <td></td> </tr> <tr> <td>F) CUM. VARIANCE</td> <td>5</td> <td>10</td> <td>15</td> <td>-2</td> <td>-7</td> <td>-2</td> <td>-3</td> <td>-1</td> <td>0</td> <td>-5</td> <td>-5</td> <td>0</td> <td></td> </tr> </table> | | | | | | | | | | | | C) PLANNED | 5 | 5 | 5 | 0 | 0 | 155 | 5 | 5 | 5 | 5 | 5 | 55 | 250 | D) ACTUAL | 0 | 0 | 0 | 17 | 5 | 150 | 6 | 3 | 4 | 10 | 5 | 50 | 250 | E) VARIANCE | 5 | 5 | 5 | -17 | -5 | 5 | -1 | 2 | 1 | -5 | 0 | 5 | | F) CUM. VARIANCE | 5 | 10 | 15 | -2 | -7 | -2 | -3 | -1 | 0 | -5 | -5 | 0 | |
| C) PLANNED | 5 | 5 | 5 | 0 | 0 | 155 | 5 | 5 | 5 | 5 | 5 | 55 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D) ACTUAL | 0 | 0 | 0 | 17 | 5 | 150 | 6 | 3 | 4 | 10 | 5 | 50 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E) VARIANCE | 5 | 5 | 5 | -17 | -5 | 5 | -1 | 2 | 1 | -5 | 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F) CUM. VARIANCE | 5 | 10 | 15 | -2 | -7 | -2 | -3 | -1 | 0 | -5 | -5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

16: INTERNATIONAL ACTIVITIES

161: TRANSFER PLANS

1611: Fuel Transfer Plan

OBJECTIVE

Investigate the feasibility of conducting an emergency transfer of irradiated nuclear fuel from foreign countries to designated spent fuel storage facilities, and determine the requirements for the U.S. to acquire a contingency foreign fuel transfer capability.

ACTIVITY STATUS

.01 Nonroutine Transfer. Comments have been received on the Category I Mission Study (Emergency Fuel Transfer Feasibility Study) submitted on July 28 and are being incorporated. The final version of the report is expected to be ready for release in October.

.0.1.1 The Category II Mission Study (Contingency Fuel Transfer Study) was ready for release on September 28 as scheduled, but was withheld temporarily in order to incorporate certain format changes requested by DOE. The study report will be released as one classified document, but separated into four parts as follows:

- Part -1 Introduction and Executive Summary
- Part -2 Systems Analysis
- Part -3 Legal Aspects Assessment
- Part -4 Institutional and Regulatory Analysis

NO MILESTONE SCHEDULE and STATUS REPORT (DOE 535) received

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|---|--|----------|--|--|--|
| 1. CONTRACT IDENTIFICATION TRANSFER PLANS | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | 3. CONTRACT NUMBER 1611. | |
| 4. CONTRACTOR (NAME AND ADDRESS) BOEING ENGINEERING AND CONSTRUCTION CO. SEATTLE WASHINGTON | | | | | | | | | | 5. CONTRACT START DATE 28 DEC 79 | | | | 6. CONTRACT COMPLETION DATE CONTINUING | |
| 7. MONTHS O N D J F M A M J J A S | | | | | | | | | | TOTALS | | 8. FY 80 | | | |
| 9. COST STATUS | | | | | | | | | | | | | | | |
| THOUSANDS | | | | | | | | | | | | | | 10. COST PLAN DATE 21 OCT 80 | |
| | | | | | | | | | | | | | | 11. PLANNED COSTS PRIOR FYS N/A | |
| ALL | | | | | | | | | | | | | | 12. ACTUAL COSTS PRIOR FYS N/A | |
| | | | | | | | | | | | | | | 13. TOTAL ESTIMATE FY COSTS FOR CONTRACT 440 | |
| RECURRING COSTS | | | | | | | | | | | | | | 14. TOTAL CONTRACT VALUE N/A | |
| | | | | | | | | | | | | | | 15. UNFILLED ORDERS OUTSTANDING N/A | |
| REMARKS | | | | | | | | | | | | | | 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 | | | | | |

162: MULTINATIONAL STORAGE FACILITY

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

- .01 Multinational Study Assistance. Liaison with DOE personnel has continued.
- .02 A working meeting to develop a U.S. position on the split of work between the U.S. and Japan for the U.S./Japanese Joint Feasibility Study was held in Washington DC, September 11 with representatives from DOE, Du Pont, Boeing, E. R. Johnson, and IEAL. The meeting resulted in three alternate plans for allocating tasks. Detailed cost spread sheets and spending curves were prepared for each option. A Japanese study team is reviewing the U.S. Draft Work Plan and preparing a response. After the U.S. review of the Japanese response, working-level and intergovernmental meetings will be scheduled, probably during October.

NO MILESTONE SCHEDULE and STATUS REPORT (DOE 535) received

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | |
|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| 1. CONTRACT IDENTIFICATION MULTINATIONAL STORAGE FACILITY | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | 3. CONTRACT NUMBER 1621. | |
| 4. CONTRACTOR (NAME AND ADDRESS) BOEING ENGINEERING AND CONSTRUCTION CO. SEATTLE WASHINGTON | | | | | | | | | | 5. CONTRACT START DATE 28 DEC 79 | | | | 6. CONTRACT COMPLETION DATE CONTINUING | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 |
| 9. COST STATUS | | | | | | | | | | | | | | | |
| A) THOUSANDS | | | | | | | | | | | | | | G) COST PLAN DATE 21 OCT 80 | |
| | | H) PLANNED COSTS PRIOR FYS N/A | | | | | | | | | | | | | |
| B) B AND R NUMBERS ALL | | | | | | | | | | | | | | I) ACTUAL COSTS PRIOR FYS N/A | |
| | | | | | | | | | | | | | | J) TOTAL ESTIMATE FY COSTS FOR CONTRACT 70 | |
| ACCURED COSTS | | | | | | | | | | | | | | K) TOTAL CONTRACT VALUE N/A | |
| | | | | | | | | | | | | | | L) UNFILLED ORDERS OUTSTANDING N/A | |
| | | | | | | | | | | | | | | M) ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | |
| | | | | | | | | | | | | | | | |
| 10. REMARKS CONFLICT - FINANCIAL PLAN IS 250 FY ESTIMATE IS 70 | | | | | | | | | | | | | | | |
| 13. SIGNATURE OF CONTRACTOR'S PROJECT MANAGER AND DATE | | | | | | | | | | 14. SIGNATURE OF THE GOVERNMENT TECHNICAL REPRESENTATIVE AND DATE | | | | | |

163: INTERNATIONAL COOPERATION

1631: International Programs

OBJECTIVE

Plan and implement a framework for international cooperation through information exchanges and technology transfers relevant to spent fuel storage and transportation.

ACTIVITY STATUS

- .01 International Cooperation Plan. A revised draft International Cooperation Plan was provided in August. Du Pont/DOE/SR requested revisions of the plan to (a) remove references to specific contractors and write it as a Government program plan, (b) remove cost and schedule information, and (c) to make greater emphasis on technical and institutional benefits to the U.S. that can be achieved by cooperative programs. A revised plan is scheduled for October.
- .02 Technology Transfer (Information Exchange)
 - 1. The first phase of activity covered by the International Cooperation Plan is the preparation for visitation to high priority countries. Preparation activities have included the following:
 - Release August 11 of draft discussion papers for Sweden, Federal Republic of Germany and Spain. These papers include reasons for desiring programs, rationale for other countries to participate and potential cooperative activities. One page briefs of these papers have also been prepared. Comments on these papers similar to those noted above for the plan have been received and a revised set of papers is scheduled for October 3.
 - A draft report summarizing international organizations in spent fuel management has been shipped to Du Pont/DOE as of September 26. A final report incorporating any comments is planned by November 7.
 - A draft document to inventory nuclear spent fuel programs in high priority countries also has been shipped to Du Pont/DOE as of September 26 with final release planned for November 7.

Support to the IAEA's Expert Group on International Spent Fuel Management has proceeded as follows:

- Input records and consultation services have been provided to task coordinators for terms of reference -1 (storage needs), -2 (technology assessment), -3 (requirements assessment), and -5 (siting). A final report providing worldwide projected spent fuel discharge rates and storage requirements is being prepared for release in October.
- The draft coordination report for term of reference 3 (cost evaluation) has been delivered to the IAEA. A volume containing engineering details in the form of appendices has been provided in draft form to DuPont/DOE/SR and is scheduled for release in October.
- The program activity for 1981 has been planned and includes continued support of the technical/economic subgroup by generation of comments on reports from other sources and reaction to comments on U.S. reports.

NO MILESTONE SCHEDULE and STATUS REPORT (DOE 535) received

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | |
|--|--|---|--|-----------------------------|--|
| 1. CONTRACT IDENTIFICATION | | 2. REPORTING PERIOD | | 3. CONTRACT NUMBER | |
| INTERNATIONAL PROGRAMS | | 01 SEP 80 THROUGH 30 SEP 80 | | 1631. | |
| 4. CONTRACTOR (NAME AND ADDRESS) | | 5. CONTRACT START DATE | | 6. CONTRACT COMPLETION DATE | |
| BOEING ENGINEERING AND CONSTRUCTION CO. SEATTLE WASHINGTON | | 28 DEC 79 | | CONTINUING | |
| 7. MONTHS | | 8. FY | | 9. COST STATUS | |
| O N D J F M A M J J A S | | TOTALS | | 80 | |
| 10. COST STATUS | | 11. LOST PLAN DATE | | 12. PLANNED COSTS PRIOR FTS | |
| THOUSANDS | | 21 OCT 80 | | N/A | |
| ALL | | 13. ACTUAL COSTS PRIOR FTS | | N/A | |
| | | 14. TOTAL ESTIMATE FY COSTS FOR CONTRACT | | 570 | |
| | | 15. TOTAL CONTRACT VALUE | | N/A | |
| | | 16. UNFILLED 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 | | | |

164: ACTIVITIES AND PROGRAM PLANNING

1641: Program Management/Support

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

- .01 Program Planning. The final Program Plan document was submitted to Du Pont on September 15. The Program Development Plan, which incorporates all sections of the Program Plan but expands on the scope of work for the current fiscal year, will be published in final form during the next month.
- .03 Program Reporting. A presentation on program activities and accomplishments was given to Du Pont and DOE on September 24 and 25 at Savannah River. Emphasis was given to FY 1980 overall accomplishments in areas of Fuel Transfer Studies and International Cooperation and to planned FY 1981 activities in areas of Pacific Basin Feasibility Study and International Cooperation, in particular the support to the IAEA International Spent Fuel Management effort.
- .03 Program Management. The formal proposal for FY 1981 activities on the International Spent Fuel Storage program was submitted to Du Pont September 24. Negotiations with Du Pont and IEAL as the subcontractor has been completed on a study to be performed for DOE on The Effects on U.S. Non-Proliferation Policy of Various Spent Fuel Disposition Strategies.

NO MILESTONE SCHEDULE and STATUS REPORT (DOE 535) received

FORM DOE 536
(1/78)
VPI MODIFICATION

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

| | | | | | | | | | | | | | | | | |
|--|--|---------------------------------------|---|---|----|----|-----|------|----|---|-----|----|----|---|---|--|
| 1. CONTRACT IDENTIFICATION PROGRAM MANAGEMENT/SUPPORT | | | | | | | | | | 2. REPORTING PERIOD 01 SEP 80 THROUGH 30 SEP 80 | | | | | 3. CONTRACT NUMBER 1641. | |
| 4. CONTRACTOR (NAME AND ADDRESS) BOEING ENGINEERING AND CONSTRUCTION CO. SEATTLE WASHINGTON | | | | | | | | | | 5. CONTRACT START DATE 28 DEC 79 | | | | | 6. CONTRACT COMPLETION DATE CONTINUING | |
| 7. MONTHS | | O | N | D | J | F | M | A | M | J | J | A | S | TOTALS | 8. FY 80 | |
| 9. COST STATUS | | | | | | | | | | | | | | | | |
| THOUSANDS ALL | | | | | | | | | | | | | | 6. COST PLAN DATE 21 OCT 80 | | |
| | | H. PLANNED COSTS PRIOR FY'S N/A | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | I. ACTUAL COSTS PRIOR FY'S N/A | | |
| | | | | | | | | | | | | | | J. TOTAL ESTIMATE FY COSTS FOR CONTRACT 620 | | |
| | | | | | | | | | | | | | | K. TOTAL CONTRACT VALUE N/A | | |
| | | | | | | | | | | | | | | L. UNFILLED ORDERS OUTSTANDING N/A | | |
| | | | | | | | | | | | | | | M. ESTIMATE FOR SUBSEQUENT REPORTING PERIOD N/A | | |
| ACCUMULATED COSTS | | C. PLANNED | 0 | 0 | 38 | 44 | 57 | 88 | 76 | 62 | 62 | 62 | 57 | 54 | 600 | |
| | | D. ACTUAL | 0 | 0 | 0 | 0 | 0 | 221 | 67 | 34 | 86 | 51 | 40 | 60 | 559 | |
| | | E. VARIANCE | 0 | 0 | 38 | 44 | 57 | -133 | 9 | 28 | -24 | 11 | 17 | -6 | | |
| | | F. CUM. VARIANCE | 0 | 0 | 38 | 82 | 139 | 6 | 15 | 43 | 19 | 30 | 47 | 41 | | |
| REMARKS CONFLICT - FINANCIAL PLAN IS 600 FY ESTIMATE IS 620 | | | | | | | | | | | | | | | | |
| 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 report received.

FORM DOE 536
(1/78)
VPI MODIFICATION

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

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AFR GLOSSARY

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

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

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

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

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

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

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

HEDL -- Hanford Engineering Development Laboratory

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

kWh -- kilowatt hour

LASL -- Los Alamos Scientific Laboratory

LWR --light water reactor

MISTIC -- Model Interstate Scientific and Technical Information Clearinghouse

ml -- milliliter

MT -- metric ton

MTU -- metric ton of uranium

MW -- megawatt

MWD -- megawatt day

NAC -- Nuclear Assurance Corporation

NCSL -- National Conference of State Legislatures

NEPA -- National Environmental Protection Agency

NES -- Nuclear Energy Services

NFS -- Nuclear Fuel Services

NMMSS -- Nuclear Material Mngement Safeguard System at Oak Ridge

NM/TTC -- Nuclear Materials Transportation Technology Center

NRC -- National Regulatory Commission

NSF -- National Science Foundation

NUS -- corporate name (formerly Nuclear Utility Service)

OMB -- Office of Management and Budget

ONWI -- Office of Nuclear Waste Isolation

ORNL -- Oak Ridge National Laboratories

PNL -- Pacific Northwest Laboratories

ppb -- parts per billion

PWR -- pressurized water reactor

RAM -- radioactive material

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

RHO -- Rockwell Hanford Operations

RMT -- Radioactive Material Transport

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

SNL -- Sandia National Laboratories

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

SRL -- Savannah River Laboratory

SRP -- Savannah River Plant

SSEB --Southern States Energy Board

TES -- Teledyne Energy Systems

TSSE -- Transportation System Safety Evaluation

TTC -- Transportation Technology Center (SNL)

TWIGL -- neutronics computer program - two dimensional

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

VPI -- Virginia Polytechnic Institute (and State University)

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