

OAK RIDGE NATIONAL LABORATORY

OPERATED BY
UNION CARBIDE CORPORATION
NUCLEAR DIVISION



POST OFFICE BOX X
OAK RIDGE, TENNESSEE 37830

August 8, 1983

Mr. Guy Arlotto, Director
Division of Engineering Technology
Office of Nuclear Regulatory Research
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Arlotto:

Enclosed is a draft copy of the FY-1985 budget proposals for the Division of Engineering Technology. It will take about two weeks for them to go through the approval channels here.

If you have any questions please call me at 624-0422.

Sincerely,

A handwritten signature in dark ink, appearing to read "A. L. Lotts".

A. L. Lotts, Director
NRC Programs

ALL:ep

Enclosure

cc: E. G. Arndt ✓
D. J. Guzy
F. J. Homan
J. Muscara
C. Z. Serpan, Jr.
A. Taboada
M. Vagins
J. P. Vora

FOIA-85-143

30



PROJECT AND BUDGET PROPOSAL FOR NRC WORK

June 29, 1983

☐ NEW
☒ REVISION NO.

PROJECT TITLE: Containment Leak Rate Testing			FIN NUMBER B0489			
NRC OFFICE Office of Nuclear Regulatory Research, Division of Engineering Technology			NRC B & R NUMBER 60 19 01 01			
DOE CONTRACTOR UNION CARBIDE CORPORATION		PATENT STATUS <i>This proposal is being transmitted in advance of patent review for evaluation purposes only. No further dissemination or publication shall be made without prior approval of the Assistant General Counsel for Patents, DOE.</i>		CONTRACTOR/ORNL ACT. 41 31 55 13 9 DIV. (16)		
SITE OAK RIDGE NATIONAL LABORATORY OAK RIDGE, TENNESSEE 37830				DOE B & R NUMBER 40 10 01 06		
COGNIZANT PERSONNEL		ORGANIZATION	FTS PHONE NUMBER	PERIOD OF PERFORMANCE		
NRC PROJECT MANAGER E. G. Arndt		MSEB	443-5860	STARTING DATE 06-01-82		
OTHER NRC TECHNICAL STAFF				COMPLETION DATE 12-31-83		
DOE PROJECT MANAGER W. R. Bibb		DOE-ORO	626-0742			
CONTRACTOR/ORNL PROG. DIR.: A. L. Lotts						
PROG. MGR.: F. J. Homan						
PROJ. MGR.: D. J. Naus						
PRIN. INVESTIGATOR(S): J. R. Dougan		CMO	624-0442			
		M&C Division	624-5169			
		ET Division	624-0657			
		ET Division	624-0650			
STAFF YEARS OF EFFORT (Round to nearest tenth of a year)		FY 19 83	FY 1984	FY 19 85	FY 1986	FY 19 87
Direct Scientific/Technical		1.0	0.2	0	0	0
Other Direct		0	0	0	0	0
TOTAL DIRECT STAFF YEARS		1.0	0.2	0	0	0
COST PROPOSAL (OBLIGATIONS)		(\$ In Thousands)				
Direct Salaries (Cost Centers)		75	15	0	0	0
Material and Services (Excluding ADP)		0	7	0	0	0
ADP Support		4	0	0	0	0
Subcontracts and Consultants		2	0	0	0	0
Travel Expenses		0	0	0	0	0
		Foreign	Domestic			
		5	1	0	0	0
Indirect Labor Costs (Cost Centers)						
Other (Specify) GSO Change		(113)	(30)	0	0	0
General and Administrative (G&A/GPS)		27	7	0	0	0
TOTAL OPERATING COST (Obligations)		0	0	0	0	0
CAPITAL EQUIPMENT		0	0	0	0	0
FIN CHARGED:						
TOTAL PROJECT COST (Obligations)		0	0	0	0	0
FY 1984	OCTOBER 10	NOVEMBER 10	DECEMBER 10	JANUARY 0	FEBRUARY 0	MARCH 0
MONTHLY FORECAST EXPENSE	APRIL 0	MAY 0	JUNE 0	JULY 0	AUGUST 0	SEPTEMBER 0

B0489

PROJECT AND BUDGET PROPOSAL FOR NRC WORK

DATE

June 29, 1983

PROJECT TITLE:

Containment Leak Rate Testing

DOE PROPOSING ORGANIZATION:

UNION CARBIDE CORPORATION
OAK RIDGE NATIONAL LABORATORY
OAK RIDGE, TENNESSEE 37830

FORECAST MILESTONE CHART: Schedule to Start—



—Completed (Shown in Quarter Year)

PROVIDE ESTIMATED DOLLAR COST FOR EACH TASK FOR EACH FISCAL YEAR

TASK		FY 19 83				FY 19 84				FY 19 85				FY 1986				FY 1987			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
A. Review existing containment leak rate testing requirements	SCHEDULE																				
	COST	35																			
B. Review proposed Appendix J revisions	SCHEDULE																				
	COST	25																			
C. Review ANSI/ANS 56.8-1981 for compatibility with Appendix J	SCHEDULE																				
	COST	28																			
D. Provide value-impact analysis for Appendix J proposed revision	SCHEDULE																				
	COST	15																			
E. Provide final report	SCHEDULE																				
	COST	10				30															
TOTAL ESTIMATED PROJECT COST		113				30															

PROJECT DESCRIPTION: (Provide narrative descriptions on NRC Form 109 page 3 of 3 for the following topics in the order listed. Check applicable block. If an item is not applicable, so state.)

☒ 1. OBJECTIVE OR PROPOSED WORK

☐ 2. SUMMARY OF PRIOR EFFORTS

☒ 3. WORK TO BE PERFORMED AND EXPECTED RESULTS

☒ 4. DESCRIPTION OF ANY FOLLOW-ON EFFORTS

☒ 5. RELATIONSHIP TO OTHER PROJECTS

☒ 6. REPORTING SCHEDULE

☐ 7. SUBCONTRACTOR INFORMATION

☐ 8. LIST NEW CAPITAL EQUIPMENT REQUIRED

☐ 9. DESCRIBE SPECIAL FACILITIES REQUIRED

☒ 10. CONFLICT OF INTEREST INFORMATION

☒ 11. OBLIGATION ESTIMATES

☒ 12. OTHER (SPECIFY):

(a) Quality Assurance and Control

(b) Cost and Milestone Charts

APPROVAL AUTHORITY-SIGNATURE

DATE

PROJECT TITLE:

Containment Leak Rate Testing

ITEM NO.

1. OBJECTIVE OF PROPOSED WORK:

Summary

The program objective is to evaluate the practicability of the containment leak testing program, and the compatibility of regulatory requirements and industry testing standards. Existing containment leak rate testing regulatory requirements will be reviewed as well as programs which have been conducted in compliance with these requirements. Field and licensing experience will be utilized. ANSI/ANS 56.8-1981 and the proposed revision to Appendix J of 10 CFR 50 will be reviewed. A value-impact analysis will be provided for the entire proposed Appendix J revision.

Additional Information

In 1981 a national standard was issued providing detailed recommendations on the test procedures and analyses. Some of the positions in the proposed revisions should be reviewed in depth against field and licensing experiences of the past decade. Observations and recommendations resulting from such a review would either validate the positions in the proposed revision, or would provide a basis for modifying such positions.

2. SUMMARY OF PRIOR EFFORTS:

Regulatory requirements for containment leak rate testing have been reviewed as well as the proposed revision to Appendix J, and ANSI/ANS 56.8-1981 "Containment System Leakage Testing Requirements." Witnessing of typical tests has also been completed.

3. WORK TO BE PERFORMED AND EXPECTED RESULTS:

Summary

Existing containment leak rate testing regulatory requirements will be reviewed, as well as the programs conducted in compliance with these requirements, using field and licensing experience. The proposed revision to Appendix J will be reviewed and recommendations provided. ANSI/ANS 56.8-1981, "Containment System Leakage Testing Requirements," will be reviewed for compatibility with the proposed Appendix J revision. A value-impact analysis will be provided for the entire proposed Appendix J revision, as prepared for public comment issue, addressing the value and impact on the licensees, the licensing process, and the public. After the public comment period, the value-impact analysis will be revised, as required.

FY 1984

The final report presenting a summary of results for all the task areas will be finalized and published.

FY 1985

Work under this study will be completed in FY-1984.

PROJECT TITLE:

Containment Leak Rate Testing

ITEM NO.

4. DESCRIPTION OF ANY FOLLOW-ON EFFORTS:

Associated follow-on efforts would involve studies to: (1) determine the relative change in risk to the general public associated with differences in containment leak rate under postulated accident conditions, (2) develop methodology for predicting the actual post-accident containment leak rate, and (3) assess the potential value of additional containment integrity information.

5. RELATIONSHIPS TO OTHER PROJECTS:

The work described herein has a relationship to work and personnel of project No. B0489-B Containment Leak Rate Sensitivity Study. There is an interchange of information and personnel as needed between the two programs.

6. REPORTING SCHEDULE

Publications in FY 1983

"The Issue of CLIRT Duration," Eleventh Biennial Conference on Reactor Operating Experience, Scottsdale, Arizona (August 2, 1983).

Expected Future Reports

"Evaluation of Containment Leak Rate Testing Criteria," December 1983.

7. SUBCONTRACTOR INFORMATION:

Not applicable.

8. LIST NEW CAPITAL EQUIPMENT REQUIRED:

Not applicable.

9. DESCRIBE SPECIAL FACILITIES REQUIRED:

Not applicable.

10. CONFLICT OF INTEREST INFORMATION:

There are no known relationships between this organization or its employees with industries regulated by the NRC and suppliers thereof that might give rise to an apparent or actual conflict of interest regarding the work described in this proposal.

PROJECT TITLE:

Containment Leak Rate Testing

ITEM NO.

11. OBLIGATION ESTIMATES:

Operating Expenses	Obligation Estimates				
	FY-1983	FY-1984	FY-1985	FY-1986	FY-1987
(1) Cost Estimates	113	30	0	0	0
(2) Good and Services on Order-GSO Estimate	30	0	0	0	0
Less: Uncosted Balance 9/30	143	30	0	0	0
GSO Change	(113)	(30)	0	0	0
(3) TOTAL OBLIGATIONS-CHANGE	0	0	0	0	0

12. OTHER (Specify):

12 (a). QUALITY ASSURANCE AND CONTROL:

The project Containment Leak Rate Testing is performed to the quality assurance requirements specified in UCCND Standard Practice Procedure D-2-16, ORNL QA Manual, The Engineering Technology Division QA Manual, and supplemented as specific requirements are identified.

12 (b). COST AND MILESTONE CHARTS

A. PROJECT COST SCHEDULE

Costs	Prior Years	1983	1984	1985	1986	1987	Total Estimated Cost
Task A	7	35	0	0	0	0	42
Task B	0	25	0	0	0	0	25
Task C	0	28	0	0	0	0	28
Task D	0	15	0	0	0	0	15
Task E	0	10	30	0	0	0	40

B. 189 SUBTASK/MILESTONE CHARTS

NO. 12(b)		SUBTASK/MILESTONE SCHEDULE																			
SUBTASK/MILESTONE		FY 83				FY 84				FY 85				FY	FY	FY	FY	BEYOND FY			
		1	2	3	4	1	2	3	4	1	2	3	4								
1. Task A:	<u>Review Existing Containment Leak Rate Testing Requirements</u>																				
	a. Complete witnessing of typical tests.																				
	b. Complete interviews with interested parties.																				
2. Task B:	<u>Review Proposed Appendix J Revisions.</u>																				
	a. Complete review of proposed revision of Appendix J.																				
	b. Complete commentary on proposed revision of Appendix J.																				
	c. Complete recommendations on specific aspects of the proposed revision of Appendix J.																				
3. Task C:	<u>Review ANSI/ANS 56.8-1981 for Compatibility with Appendix J.</u>																				
	a. Complete review with respect to potential conflicts with Appendix J.																				
	b. Complete determinations of items in Appendix J which should be included																				

NO. 12(b)		SUBTASK/MILESTONE SCHEDULE																	
		SUBTASK/MILESTONE	FY 83				FY 84				FY 85				FY	FY	FY	FY	BEYOND FY
			1	2	3	4	1	2	3	4	1	2	3	4					
4. Task D: <u>Provide Value-Impact Analysis for Appendix J Proposed Revision.</u>																			
	a. Complete development of an initial value-impact statement.																		
	b. Complete revision of value-impact statement.																		
5. Task E: <u>Provide Final Report</u>																			
	a. Complete development of draft final report.																		
	b. Complete revisions to final report.																		

PROGRAM AND BUDGET PROPOSAL
ELEMENTS OF COST SCHEDULE
FOR WPAS-FIELD TASK PROPOSAL/AGREEMENTS
AND WORK FOR OTHERS ESTIMATES
(Dollars in Thousands)

For Operating Expenses
Budget Outlay (B/O) ○

WORKSHEET

41 31 55 13 9

RESOURCE PROGRAM ACTIVITY NO.

CHECK: ☒ New Budget Proposal ☐ Revised Budget Proposal

DIVISION
Eng. Technology (16)

PREPARED BY

PRINCIPAL INVESTIGATOR

DATE PREPARED

D. J. Naus

D. J. Naus

6/28/83

CONTROL NO. (FTP/A #) TITLE
B0489

Containment Leak Rate Testing

SUMMARY BY MAJOR ELEMENTS		FISCAL YEAR ESTIMATES					
		FY 1983		FY 1984		FY 1985	
		\$	PY	\$	PY	\$	PY
1	COST CENTERS	75	1.0	15	0.2	0	0
2	INTRA-DIVISION COST CENTERS	0	0	0	0		
3	INTER-DIVISION COST CENTERS	0	0	0	0		
4	TOTAL - COST CENTERS	75	1.0	15	0.2	0	0
5	TRAVEL	5		1			
6	MAJOR MATERIALS - NON EXEMPT	0		0			
7	MAJOR MATERIALS - EXEMPT	0		0			
8	COMPUTER & PROGRAMMING SERVICES	4		0			
9	HOT CELLS - SERVICES	0		0			
10	REACTOR SERVICES	0		0			
11	UTILITY - PURCHASED POWER - EXEMPT ONLY	0		0			
12	SPECIAL COST DISTRIBUTIONS - EXEMPT	0		0			
13	SUPPLIES, SHOPS & MAINTENANCE MATERIAL	0		0			
14	ORNL SUPPORT SERVICES:						
15	P&E DIVISION	0	0	0			
16	I&C DIVISION	0	0	0			
17	INSPECTION ENGINEERING	0	0	0			
18	OTHER DIRECT	0	0	0			
19	OTHER UC-ND PLANT SUPPORT	0		0			
20	GENERAL ENGINEERING SERVICES	0		0			
21	CAPITAL EQUIPMENT (\$3000 or less) ^{Items}	0		0			
22	OTHER COSTS: TIS, HP, WASTE DISP, UTIL. & DIV. DISTR	0		7			
23	TOTAL - MATERIALS AND SERVICES	9	0	8	0	0	0
24	R&D SUBCONTRACTS & CONSULTANTS - NON EXEMPT	2		0			
25	R&D SUBCONTRACTS - EXEMPT	0		0			
26	TOTAL - R&D SUBCONTRACTS & CONSULTANTS	2		0			
27	SUBTOTAL	86	1.0	23	0.2	0	0
28	INDIRECT COSTS - G & A AND GPS	27		7			
29	GRAND TOTAL	113	1.0	30	0.2	0	0



PROJECT AND BUDGET PROPOSAL FOR NRC WORK

☒ NEW
☐ REVISION NO.

DRAFT

PROJECT TITLE: Containment Leak Rate Testing			FIN NUMBER B0439			
NRC OFFICE Office of Nuclear Regulatory Research, Division of Engineering Technology			NRC B&R NUMBER 60 19 01 01			
DOE CONTRACTOR UNION CARBIDE CORPORATION	PATENT STATUS <i>This proposal is being transmitted in advance of patent review for evaluation purposes only. No further dissemination or publication shall be made without prior approval of the Assistant General Counsel for Patents, DOE.</i>		CONTRACTOR/ORNL ACT. 41 31 55 13 9 DIV. (16)			
SITE OAK RIDGE NATIONAL LABORATORY OAK RIDGE, TENNESSEE 37830			DOE B&R NUMBER 40 10 01 06			
COGNIZANT PERSONNEL	ORGANIZATION	FTS PHONE NUMBER	PERIOD OF PERFORMANCE			
NRC PROJECT MANAGER E. G. Arndt	MSEB	443-5860	STARTING DATE 06-01-82			
OTHER NRC TECHNICAL STAFF			COMPLETION DATE 12-31-83			
DOE PROJECT MANAGER W. R. Bibb	DOE-ORO	626-0742				
CONTRACTOR/ORNL PROG. DIR.: A. L. Lotts PROG. MGR.: F. J. Homan PROJ. MGR.: D. J. Naus PRIN. INVESTIGATOR(S): J. R. Dougan	CMO M&C Division ET Division ET Division	624-0442 624-5169 624-0657 624-0650				
STAFF YEARS OF EFFORT (Round to nearest tenth of a year)	FY 19 83	FY 1984	FY 19 85	FY 1986	FY 19 87	
Direct Scientific/Technical	1.0	0.2	0	0	0	
Other Direct	0	0	0	0	0	
TOTAL DIRECT STAFF YEARS	1.0	0.2	0	0	0	
COST PROPOSAL (OBLIGATIONS)	(\$ in Thousands)					
Direct Salaries (Cost Centers)	75	15	0	0	0	
Material and Services (Excluding ADP)	0	7	0	0	0	
ADP Support	4	0	0	0	0	
Subcontracts and Consultants	2	0	0	0	0	
Travel Expenses	Foreign Domestic	0 5	0 1	0 0	0 0	
Indirect Labor Costs (Cost Centers)						
Other (Specify) GSO Change	(113)	(30)	0	0	0	
General and Administrative (G&A/GPS)	27	7	0	0	0	
TOTAL OPERATING COST (Obligations)	0	0	0	0	0	
CAPITAL EQUIPMENT	0	0	0	0	0	
FIN CHARGED:						
TOTAL PROJECT COST (Obligations)	0	0	0	0	0	
FY 1984	OCTOBER 10	NOVEMBER 10	DECEMBER 10	JANUARY 0	FEBRUARY 0	MARCH 0
MONTHLY FORECAST EXPENSE	APRIL 0	MAY 0	JUNE 0	JULY 0	AUGUST 0	SEPTEMBER 0

B0489

PROJECT AND BUDGET PROPOSAL FOR NRC WORK

DATE

June 29, 1983

PROJECT TITLE:








Containment Leak Rate Testing

DOE PROPOSING ORGANIZATION:

UNION CARBIDE CORPORATION
OAK RIDGE NATIONAL LABORATORY
OAK RIDGE, TENNESSEE 37830

FORECAST MILESTONE CHART: Schedule to Start—  —Completed (Shown in Quarter Year)

PROVIDE ESTIMATED DOLLAR COST FOR EACH TASK FOR EACH FISCAL YEAR

TASK		FY 1983				FY 1984				FY 1985				FY 1986				FY 1987			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
A. Review existing containment leak rate testing requirements	SCHEDULE																				
	COST		35																		
B. Review proposed Appendix J revisions	SCHEDULE																				
	COST		25																		
C. Review ANSI/ANS 56.8 1981 for compatibility with Appendix J	SCHEDULE																				
	COST		28																		
D. Provide value-impact analysis for Appendix J proposed revision	SCHEDULE																				
	COST		15																		
E. Provide final report	SCHEDULE																				
	COST		10			30															
TOTAL ESTIMATED PROJECT COST			113			30															

PROJECT DESCRIPTION: (Provide narrative descriptions on NRC Form 189 page 3 of 3 for the following topics in the order listed. Check applicable block. If an item is not applicable, so state.)

- | | |
|--|--|
| <input checked="" type="checkbox"/> 1. OBJECTIVE OR PROPOSED WORK | <input type="checkbox"/> 9. DESCRIBE SPECIAL FACILITIES REQUIRED |
| <input type="checkbox"/> 2. SUMMARY OF PRIOR EFFORTS | <input checked="" type="checkbox"/> 10. CONFLICT OF INTEREST INFORMATION |
| <input checked="" type="checkbox"/> 3. WORK TO BE PERFORMED AND EXPECTED RESULTS | <input checked="" type="checkbox"/> 11. OBLIGATION ESTIMATES |
| <input checked="" type="checkbox"/> 4. DESCRIPTION OF ANY FOLLOW-ON EFFORTS | <input checked="" type="checkbox"/> 12. OTHER (SPECIFY): |
| <input checked="" type="checkbox"/> 5. RELATIONSHIP TO OTHER PROJECTS | |
| <input checked="" type="checkbox"/> 6. REPORTING SCHEDULE | |
| <input type="checkbox"/> 7. SUBCONTRACTOR INFORMATION | |
| <input type="checkbox"/> 8. LIST NEW CAPITAL EQUIPMENT REQUIRED | |

APPROVAL AUTHORITY-SIGNATURE

DATE

PROJECT AND BUDGET PROPOSAL FOR NRC WORK

B0489

PROJECT TITLE:

Containment Leak Rate Testing

ITEM NO.

1. OBJECTIVE OF PROPOSED WORK:

Summary

The program objective is to evaluate the practicability of the containment leak testing program, and the compatibility of regulatory requirements and industry testing standards. Existing containment leak rate testing regulatory requirements will be reviewed as well as programs which have been conducted in compliance with these requirements. Field and licensing experience will be utilized. ANSI/ANS 56.8-1981 and the proposed revision to Appendix J of 10 CFR 50 will be reviewed. A value-impact analysis will be provided for the entire proposed Appendix J revision.

Additional Information

In 1981 a national standard was issued providing detailed recommendations on the test procedures and analyses. Some of the positions in the proposed revisions should be reviewed in depth against field and licensing experiences of the past decade. Observations and recommendations resulting from such a review would either validate the positions in the proposed revision, or would provide a basis for modifying such positions.

2. SUMMARY OF PRIOR EFFORTS:

Not applicable.

3. WORK TO BE PERFORMED AND EXPECTED RESULTS:

Summary

- Existing containment leak rate testing regulatory requirements will be reviewed, as well as the programs conducted in compliance with these requirements, using field and licensing experience. The proposed revision to Appendix J will be reviewed and recommendations provided. ANSI/ANS 56.8-1981, "Containment System Leakage Testing Requirements," will be reviewed for compatibility with the proposed Appendix J revision. A value-impact analysis will be provided for the entire proposed Appendix J revision, as prepared for public comment issue, addressing the value and impact on the licensees, the licensing process, and the public. After the public comment period, the value-impact analysis will be revised, as required.

FY 1984

The final report presenting a summary of results for all the task areas will be finalized and published.

FY 1985

Work under this study will be completed in FY-1984.

PROJECT TITLE:

Containment Leak Rate Testing

ITEM NO.

4. DESCRIPTION OF ANY FOLLOW-ON EFFORTS:

Associated follow-on efforts would involve studies to: (1) determine the relative change in risk to the general public associated with differences in containment leak rate under postulated accident conditions, (2) develop methodology for predicting the actual post-accident containment leak rate, and (3) assess the potential value of additional containment integrity information.

5. RELATIONSHIPS TO OTHER PROJECTS:

The work described herein has a relationship to work and personnel of project No. B0489-B Containment Leak Rate Sensitivity Study. There is an interchange of information and personnel as needed between the two programs.

6. REPORTING SCHEDULE

Publications in FY 1983

"The Issue of CLIRT Duration," Eleventh Biennial Conference on Reactor Operating Experience, Scottsdale, Arizona (August 2, 1983).

Expected Future Reports

"Evaluation of Containment Leak Rate Testing Criteria," December 1983.

7. SUBCONTRACTOR INFORMATION:

Not applicable.

8. LIST NEW CAPITAL EQUIPMENT REQUIRED:

Not applicable.

9. DESCRIBE SPECIAL FACILITIES REQUIRED:

Not applicable.

10. CONFLICT OF INTEREST INFORMATION:

There are no known relationships between this organization or its employees with industries regulated by the NRC and suppliers thereof that might give rise to an apparent or actual conflict of interest regarding the work described in this proposal.

PROJECT AND BUDGET PROPOSAL FOR NRC WORK

B0489

PROJECT TITLE:

Containment Leak Rate Testing

ITEM NO.

11. OBLIGATION ESTIMATES:

Operating Expenses	Obligation Estimates				
	FY-1983	FY-1984	FY-1985	FY-1986	FY-1987
(1) Cost Estimates	113	30	0	0	0
(2) Goods and Services on Order-GSO Estimate	30	0	0	0	0
Less: Uncosted Balance 9/30	143	30	0	0	0
GSO Change	(113)	(30)	0	0	0
(3) TOTAL OBLIGATIONS-CHANGE	0	0	0	0	0

12. OTHER (Specify):

12(a). QUALITY ASSURANCE AND CONTROL:

Not applicable.

12(b). COST AND MILESTONE CHARTS

A. PROJECT COST SCHEDULE

Costs	Prior Years	1983	1984	1985	1986	1987	Total Estimated Cost
Task A	7	35	0	0	0	0	42
Task B	0	25	0	0	0	0	25
Task C	0	28	0	0	0	0	28
Task D	0	15	0	0	0	0	15
Task E	0	10	30	0	0	0	40

B. 189 SUBTASK/MILESTONE CHARTS

TITLE: Containment Leak Rate Testing

ACTIVITY NO. 41 31 55 13 9

189A NO. B0489

or

FTP/A NO. _____

NO. 12(b)		SUBTASK/MILESTONE SCHEDULE																			
		SUBTASK/MILESTONE		FY 83				FY 84				FY 85				FY	FY	FY	FY	BEYOND FY	
				1	2	3	4	1	2	3	4	1	2	3	4						
1. Task A: <u>Review Existing Containment Leak Rate Testing Requirements</u>																					
	a. Complete witnessing of typical tests.																				
	b. Complete interviews with interested parties.																				
2. Task B: <u>Review Proposed Appendix J Revisions.</u>																					
	a. Complete review of proposed revision of Appendix J.																				
	b. Complete commentary on proposed revision of Appendix J.																				
	c. Complete recommendations on specific aspects of the proposed revision of Appendix J.																				
3. Task C: <u>Review ANSI/ANS 56.8-1981 for Compatibility with Appendix J.</u>																					
	a. Complete review with respect to potential conflicts with Appendix J.																				
	b. Complete determinations of items in Appendix J which should be included																				

NO. 12(b)	SUBTASK/MILESTONE	SUBTASK/MILESTONE SCHEDULE																
		FY 83				FY 84				FY 85				FY	FY	FY	FY	BEYOND FY
		1	2	3	4	1	2	3	4	1	2	3	4					
4. Task D:	<u>Provide Value-Impact Analysis for Appendix J Proposed Revision.</u>																	
	a. Complete development of an initial value-impact statement.				△													
	b. Complete revision of value-impact statement.					△												
5. Task E:	<u>Provide Final Report</u>																	
	a. Complete development of draft final report.					△												
	b. Complete revisions to final report.						△											