



PROJECT AND BUDGET PROPOSAL FOR NRC WORK

NEW
 REVISION NO.

PROJECT TITLE
Team Inspection for Operational Readiness - Palo Verde, Unit 3

PIN NUMBER
A-0760

NRC OFFICE
NRC Region V - Walnut Creek, California

NRC B&R NUMBER
95-19-30-02-01

DOE CONTRACTOR
University of California - Lawrence Livermore National Laboratory

CONTRACTOR ACCOUNT NUMBER
6998

SITE
Livermore, California

DOE B&R NUMBER

COGNIZANT PERSONNEL	ORGANIZATION	FTS PHONE NUMBER	PERIOD OF PERFORMANCE
NRC PROJECT MANAGER Tolbert Young	NRC/RV	FTS-463-3853	STARTING DATE 02/15/86
OTHER NRC TECHNICAL STAFF			COMPLETION DATE 09/30/86
DOE PROJECT MANAGER W. Gallagher	DOE/SAN	FTS-536-7916	
CONTRACTOR-PROJECT MANAGER Garth Cummings	LLNL	FTS-532-4949	
PRINCIPAL INVESTIGATOR(S) Robert L. White J. M. Johnson (Resource Manager)	LLNL/NV LLNL	FTS-575-2411 FTS-532-4948	

STAFF YEARS OF EFFORT (Round to nearest tenth of a year)	FY 86	FY	FY	FY	FY
Direct Scientific/Technical FTE	.3				
Other Direct (Graded)	-0-				
TOTAL DIRECT STAFF YEARS	.3				
COST PROPOSAL	\$K				
Direct Salaries	24				
Material and Services (Excluding ADP)	-0-				
ADP Support	-0-				
Subcontracts					
Travel Expenses Foreign	8				
Domestic					
Indirect Labor Costs	23				
Other (Specify) Recharge	1				
General and Administrative (15 %)	9				
TOTAL OPERATING COST	65				
CAPITAL EQUIPMENT FIN CHARGED: N/A	0				
TOTAL PROJECT COST	\$65K				

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PDR ADOCK 05000530
G PDR

FY 86 MONTHLY FORECAST EXPENSE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
		APRIL	MAY	JUNE	JULY	AUGUST
		30	35			

PROJECT AND BUDGET PROPOSAL FOR NRC WORK

A-0760

DATE
1/22/86

PROJECT TITLE

Team Inspection of Operational Readiness - Palo Verde, Unit 3

AGENCY PROPOSING ORGANIZATION

University of California - Lawrence Livermore National Laboratory

FORECAST MILESTONE CHART: Scheduled to Start - - Completed (Shown in Quarter Year)
PROVIDE ESTIMATED DOLLAR COST FOR EACH TASK FOR EACH FISCAL YEAR

TASK		FY				FY				FY				FY			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
Review and Inspect Operational Readiness - Palo Verde, Unit 3	SCHEDULE				△												
	COST				\$65K												
	SCHEDULE																
	COST																
	SCHEDULE																
	COST																
	SCHEDULE																
	COST																
	SCHEDULE																
	COST																
TOTAL ESTIMATED PROJECT COST					\$65K												

PROJECT DESCRIPTION: (Provide narrative descriptions of the following topics in the order listed. Attach on plain paper to this NRC Form 189. If an item is not applicable, so state.)

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|--|---------------------------------|
| 1. OBJECTIVE OF PROPOSED WORK | 11. Meetings and Travel |
| 2. SUMMARY OF PRIOR EFFORTS | 12. NRC Furnished Material |
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| 10. CONFLICT OF INTEREST INFORMATION | |

SEE NRC MANUAL CHAPTER 1102 FOR ADDITIONAL INFORMATION

APPROVAL AUTHORITY-SIGNATURE

DATE

Statement of Work

Project Title: Team Inspection for Operational FIN No. -A-0760

Readiness - Palo Verde Unit 3 B&R No. 95-19-30-02-01

NRC Project Manager: Tolbert Young
Estimated Level of Effort: .3 Staff Year
Projected Completion Date: September 30, 1986

BACKGROUND

Team inspections at commercial nuclear power reactors involve the examination of modifications and in depth examination of the design, performance and condition of existing systems. Assistance is needed to review and inspect specialized aspects of reactor systems in the areas of electrical equipment, instrumentation, nondestructive testing and mechanical equipment installation areas.

1. OBJECTIVE

The objective of this project is to provide technical assistance in the review and inspection of plant systems, during the inspections required to determine the readiness for operation of Palo Verde Unit 3 in 1986.

2. SUMMARY OF PRIOR EFFORTS

LLNL has been participating in inspection projects at San Onofre, Unit 1, and at Diablo Canyon, Units 1 and 2. The prior work at San Onofre was completed on FIN A-0754 while the work at Diablo Canyon was completed on FIN B-8552. LLNL has established a background and familiarity with Region V inspection procedures and methods.

3. WORK TO BE PERFORMED AND EXPECTED RESULTS

Provide the services of four individuals in the field of electrical engineering and instrumentation engineering mechanical piping supports and nondestructive testing who will serve as team members during an annual team inspection at the Palo Verde Unit 3 Power Plant. Their services are required for the period of the site inspections (two weeks) plus necessary preparation, travel and documentation time.

3. WORK TO BE PERFORMED AND EXPECTED RESULTS (cont'd)

Inspection effort will involve the examination of plant components in the field, associated records such as radiographs, and the determination of whether plant systems are ready to be operated in accordance with NRC requirements, licensee procedures and commitments and accepted industrial practices as defined by codes and standards. The inspection effort will involve examination of the performance of similar components at Palo Verde Unit 1 and 2 and the determination of whether appropriate changes have been made to systems and procedures at Palo Verde Unit 3 on basis of experience at the other units (1 and 2).

The inspection work will be performed under the direction of an NRC team leader, in accordance with an NRC prepared inspection plan and coordinated with efforts of other team members. Any deviations from requirements which are found during the inspection will be reexamined by the NRC prior to documentation and disposition.

Level and Effort and Period of Performance

The level of effort is estimated at .3 staff years over a 4 month period ending September 1986.

4. DESCRIPTION OF ANY FOLLOW-ON EFFORTS - N/A

5. RELATIONSHIP TO OTHER PROJECTS - N/A

6. REPORTING SCHEDULE

A. Monthly Business Letter Report - A business letter report is to be submitted by the 15th working day of each month to the Region V Project Manager, with copies to Tolbert Young, Chief, Engineering Section, Division of Reactor Safety and Projects, and T. DiGaloma, Resource Analyst Region V, covering, as a minimum:

- A listing of any efforts completed during the period; milestones reached, or if missed, an explanation provided;
- The amount of funds authorized to date and the amount of funds expended for both manpower and computer services during the period and cumulative to date for the projects;
- Any problems or delays encountered or anticipated and recommendations for their solutions;
- A summary of the progress to date;
- Plans for the next reporting period.

B. Technical Letter Report - A technical letter report shall be submitted periodically to the Region V Project Manager. This letter report shall contain the following information:

- A listing of all inspections completed during the reporting period (exclude items identified in previous reports);
- A listing of the criteria (cues and standards) each modification was inspected against;
- The results of each inspection, specifying any identified deviations from the evaluation criteria;
- The dates the inspections were conducted.

7. SUB-CONTRACTOR INFORMATION

Inspection may be conducted in part by employees of EG&G, Inc. - Energy Management Group (EMG) located in offices in San Ramon, California. EG&G EMG is under contract to DOE and has been providing assistance to LLNL-NSSP through the SANL contracts division.

8. LIST NEW CAPITAL EQUIPMENT REQUIREMENTS - N/A

9. SPECIAL FACILITIES REQUIRED - N/A

10. CONFLICT OF INTEREST INFORMATION

The contractor shall assure that participants are not placed in a conflict of interest situation based on their inspection of NRC licensees.

11. MEETINGS AND TRAVEL

During the period of this work travel is required weekly to and from the site by each assigned engineer (cost estimates reflect one roundtrip/manweek by air). Additional local travel is anticipated between LLNL and the NRC Region V offices for planning and progress meetings.

12. NRC FURNISHED MATERIALS

Copies of codes, standards, procedures, specifications, and miscellaneous tools and supplies such as flashlights and weld gauges considered necessary by the NRC Project Manager or inspectors will be provided by the NRC or will be procured from LLNL sources at NRC expense.

Project Title: Team Inspection for Operation FIN No. A-0760

Readiness - Palo Verde Unit 3 B&R No. 95-19-30-02-01

13. PROPRIETARY DATA

"In the event any proprietary information is submitted by the NRC in connection with this project, it must be specifically identified. The University agrees to exercise its best efforts to protect such proprietary data. Furthermore, limitation shall not be imposed on the use of any information and data previously delivered to the University or government without limitations or previously published in any form as to be generally available."

14. PATENT STATUS

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 Patent, DOE.

15. TASK "X" ON-CALL ASSISTANCE - N/A

16. SUMMARIZE DELIVERABLES

The deliverables are monthly business letter reports and technical letter reports as required to summarize inspection periods and activities.