



# Lawrence Livermore National Laboratory

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REGION V IRE

## NUCLEAR SYSTEMS SAFETY PROGRAM

February 4, 1986

Mr. Tom DiGaloma  
Resource Management and Administration  
U.S. Nuclear Regulatory Commission, Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, CA 94596

Dear Mr. DiGaloma:

Attached please find DRAFT 189 proposal:

"Readiness Review, Construction Assurance Program Inspector of WNP-3."

If this proposal meets with your approval, we will request formal approval by the LLNL management.

Sincerely,

K. June Stuart, Asst. Resource Manager  
Nuclear Systems Safety Program

cc: J. M. Johnson  
R. L. White  
W. P. Ang

8602250332 860221  
PDR ADOCK 05000508  
G PDR



PROJECT AND BUDGET PROPOSAL FOR NRC WORK

DATE OF PROPOSAL  
1/24/86

NEW  
 REVISION NO.

PROJECT TITLE Readiness Review, Construction Assurance Program Inspection of WNP-3		PIN NUMBER
NRC OFFICE NRC Region V - Walnut Creek, California		NRC S&R NUMBER
DOE CONTRACTOR University of California - Lawrence Livermore National Laboratory		CONTRACTOR ACCOUNT NUMBER
SITE Livermore, California		DOE S&R NUMBER

COGNIZANT PERSONNEL	ORGANIZATION	FTS PHONE NUMBER	PERIOD OF PERFORMANCE
NRC PROJECT MANAGER W. P. Ang	NRC	FTS-463-3700	STARTING DATE 4/01/86
OTHER NRC TECHNICAL STAFF			COMPLETION DATE 9/30/86
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	.25				
Other Direct (Graded)	-0-				
<b>TOTAL DIRECT STAFF YEARS</b>	.25				
<b>COST PROPOSAL</b>	\$K				
Direct Salaries	15				
Material and Services (Excluding ADP)	-0-				
ADP Support	-0-				
Subcontracts	-0-				
Travel Expenses Foreign Domestic	4				
Indirect Labor Costs	15				
Other (Specify) Recharge	1				
General and Administrative ( 15 %)	5				
<b>TOTAL OPERATING COST</b>	40				
CAPITAL EQUIPMENT FIN CHARGED:	N/A				
<b>TOTAL PROJECT COST</b>	\$40K				

FY 86 MONTHLY FORECAST EXPENSE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
		APRIL	MAY	JUNE	JULY	AUGUST
		10K	10K	10K	10K	

PROJECT AND BUDGET PROPOSAL FOR NRC WORK


DATE  
1/24/86

PROJECT TITLE

Readiness Review, Construction Assurance Program Inspector of WNP-3

DOE 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
Task 1 - Review and Inspect Construction WNP-3	SCHEDULE				△												
	COST				\$40K												
	SCHEDULE																
	COST																
	SCHEDULE																
	COST																
	SCHEDULE																
	COST																
	SCHEDULE																
	COST																
TOTAL ESTIMATED PROJECT COST					\$40K												

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      |
| 3. WORK TO BE PERFORMED AND EXPECTED RESULTS | 13. Proprietary Data            |
| 4. DESCRIPTION OF ANY FOLLOW-ON EFFORTS      | 14. Patent Status               |
| 5. RELATIONSHIP TO OTHER PROJECTS            | 15. Task 'X' On Call Assistance |
| 6. REPORTING SCHEDULE                        | 16. Summarize Deliverables      |
| 7. SUBCONTRACTOR INFORMATION                 | 17. Resumes                     |
| 8. LIST NEW CAPITAL EQUIPMENT REQUIRED       |                                 |
| 9. DESCRIBE SPECIAL FACILITIES REQUIRED      |                                 |
| 10. CONFLICT OF INTEREST INFORMATION         |                                 |

SEE NRC MANUAL CHAPTER 1102 FOR ADDITIONAL INFORMATION

APPROVAL AUTHORITY-SIGNATURE

DATE

Statement of Work

Project Title: Readiness Review, Construction Assurance FIN No. \_\_\_\_\_

Program Inspection of WNP-3 B&R No. \_\_\_\_\_

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NRC Project Manager: W. P. Ang  
Estimated Level of Effort: .25 Staff Year  
Projected Completion Date: September 30, 1986

BACKGROUND

Readiness Review Construction Assurance Program inspections involve the examination of the licensees procedures, completed work, and records. Assistance is needed to review and inspect specialized aspects of geology, civil engineering and civil/structural engineering disciplines.

1. OBJECTIVE

The objective of this project is to provide technical assistance in the review and inspection of the WNP-3 Readiness Review Construction Assurance Program (CAP) modules scheduled for the third and fourth quarters of FY 86. Review of four modules are anticipated during this time period.

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 both of these plants that enables them to maintain a continuity of work effort.

3. WORK TO BE PERFORMED AND EXPECTED RESULTS

Provide the services of a specialist in the field of geology and civil/structural engineering to perform four cap inspections along with a Region V inspector.

The inspection effort will be performed in approximately three week increments. The first week will be devoted to inspection preparation in RV involving review of licensees NRC inspection and enforcement history for the subject area, definition of critical inspection elements for the subject area, review of the licensee's module report for the subject area, and assisting in the preparation of an inspection plan for the subject area.

Project Title: Readiness Review, Construction Assurance FIN No. \_\_\_\_\_

Program Inspection for WNP-3 B&R No. \_\_\_\_\_

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

The second week will involve WNP-3 on-site inspection in Satsop, Washington. The inspection will be performed under the direction of an NRC inspector and in accordance with the NRC prepared inspection plan. Any deviations from requirements which are identified during the inspection will be re-examined by the NRC prior to documentation and disposition.

The third week will be devoted to documentation of the inspection effort and assistance in preparing the Readiness Review Module Acceptance/Disapproval Report.

Level and Effort and Period of Performance

The level of effort is estimated at .25 staff years over a 6 month period ending June 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.

Project Title: Readiness Review, Construction Assurance FIN No. \_\_\_\_\_

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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 (codes 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 four times to and from the site by each assigned engineer (cost estimates reflect four roundtrip airfares. 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.

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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.