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FEB 21 1984

Mr. Gregory J. Ogeka, Chief  
Administrative Branch  
Brookhaven Area Office  
U. S. Department of Energy  
Upton, New York 11973

Dear Mr. Ogeka:

Subject: BNL Technical Assistance to the Division of Engineering, NRR,  
NRC - "Diablo Canyon Verification" A3720

The enclosed NRC Form 173, Standard Order for DOE Work, is hereby submitted in accordance with Section III B.2 of the DOE/NRC Memorandum of Understanding, dated February 24, 1978.

Funding authorizations in the amount of \$320,000 have been provided for this project to date. The purpose of this letter is to modify the BNL proposal dated October 25, 1983 and to provide incremental funding in the amount of \$30,000 for continuation of the work. Please provide a revised proposal that reflects the modification as well as the existing work. Additional funding for completion of the project will be provided incrementally after receipt of an acceptable proposal.

If you have any questions concerning acceptance of this order, please contact Mr. E. Pentecost on FTS 492-7067.

Sincerely,

Original signed by:

Richard H. Vollmer, Director  
Division of Engineering  
Office of Nuclear Reactor Regulation

Enclosure:

1. NRC Form 173
2. Modification to Statement of Work

cc: R. Barber, HQ/DOE  
M. Reich, BNL  
H. Rauch, CHOO-DOE  
A. Romano, BNL  
H. Grahn, BNL

\*SEE PREVIOUS CONCURRENCE SHEET

DE:SGEB  
HPolk:as\*  
1/ /84

DE:SGEB  
PTKuo\*  
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| <b>NRC FORM 173</b><br>(5-79)  |  | U.S. NUCLEAR REGULATORY COMMISSION   |  |
| <b>STANDARD ORDER FOR DOE WORK</b>   |  | ORDER NUMBER<br>20-84-235  |  |
|  |  | DATE<br><b>FEB 21 1984</b>   |  |
| ISSUED TO: (DOE Office)<br>Brookhaven Area Office  | ISSUED BY: (NRC Office)<br>Office of Nuclear Reactor<br>Regulation, DE | <b>ACCOUNTING CITATION</b><br>APPROPRIATION SYMBOL<br>31X0200.204<br>B&R NUMBER<br>20-19-40-41-2<br>FIN NUMBER<br>A3720-4  |  |
| PERFORMING ORGANIZATION AND LOCATION<br>Brookhaven National Laboratory<br>Upton, New York  |  | <b>WORK PERIOD - THIS ORDER</b><br>FIXED <input checked="" type="checkbox"/> ESTIMATED <input type="checkbox"/><br>FROM: 01/18/83 TO: 05/31/84   |  |
| FIN TITLE<br>Diablo Canyon Verification  |  |  |  |
| <b>OBLIGATION AVAILABILITY PROVIDED BY:</b>  |  |  |  |
| A. THIS ORDER  |  | \$ 30,000  |  |
| B. TOTAL OF ORDERS PLACED PRIOR TO THIS DATE WITH THE PERFORMING ORGANIZATION UNDER THE SAME "APPROPRIATION SYMBOL" AND THE FIRST FOUR DIGITS OF THE "B&R NUMBER" CITED ABOVE  |  | \$ 4,911,000   |  |
| C. TOTAL ORDERS TO DATE  |  | (TOTAL A & B)<br>\$ 4,941,000  |  |
| D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER   |  | \$ 71,000  |  |
| <b>FINANCIAL FLEXIBILITY:</b><br><input checked="" type="checkbox"/> FUNDS WILL NOT BE REPROGRAMMED BETWEEN FINs. LINE D CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED.<br><input type="checkbox"/> FUNDS MAY BE REPROGRAMMED NOT TO EXCEED $\pm 10\%$ OF FIN LEVEL UP TO \$50K. LINE C CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED.   |  |  |  |
| STANDARD TERMS AND CONDITIONS PROVIDED DOE ARE CONSIDERED PART OF THIS ORDER UNLESS OTHERWISE NOTED.   |  |  |  |
| <b>ATTACHMENTS:</b><br>THE FOLLOWING ATTACHMENTS ARE HEREBY MADE A PART OF THIS ORDER:<br><input checked="" type="checkbox"/> STATEMENT OF WORK (Modification)<br><input type="checkbox"/> ADDITIONAL TERMS AND CONDITIONS<br><input type="checkbox"/> OTHER   |  | <b>SECURITY</b><br><input checked="" type="checkbox"/> WORK ON THIS ORDER IS NOT CLASSIFIED.<br><input type="checkbox"/> WORK ON THIS ORDER INVOLVES CLASSIFIED INFORMATION. NRC FORM 187 IS ATTACHED. |  |
| <b>REMARKS</b> (Reference the proposal by number and date, and indicate if the attached statement of work modifies the DOE proposal):<br><p>This order provides a modification to the BNL proposal dated October 25, 1983, provides incremental funds for continuation of work in accordance with the BNL proposal, and requests that BNL submit a revised proposal reflecting the attached modification within 30 days to E. Pentecost, NRR/DE with a copy provided to D. Corley, NRR/PPAS.</p> <p>After acceptance, please send to the NRC Office of Resource Management, ATTN: D. Dandois, and provide a copy to the Office of Nuclear Reactor Regulation, ATTN: D. Corley.</p> |  |  |  |
| <b>ISSUING AUTHORITY</b><br>SIGNATURE<br>Richard H. Volmer, Director <i>2/21/84</i><br>TITLE<br>Division of Engineering  |  | <b>ACCEPTING ORGANIZATION</b><br>SIGNATURE<br>TITLE<br>DATE  |  |

## MODIFICATION TO STATEMENT OF WORK

Title: Diabla Canyon Verification

FIN: A3720

B&R No.: 20-19-40-41-2

Project Manager: Harold E. Polk (FTS 492-8426)

Revised Estimated  
Completion Date

May 31, 1984

Revised Estimated  
Level of Effort

+12 Man weeks

### New Task:

10. Assist the NRC staff in evaluating the following listed allegations related to the design of small bore piping at Diablo Canyon:

No. 55 received in October, 1983.  
No. 78, 79, 81, 82, 86, 87, 88, 89, 95,  
and 97 received in November, 1983

Evaluation of these allegations will require review of PGE documentation and calculations beyond the scope of previous staff reviews.

In carrying out the above work, BNL will perform the following subtasks:

- a. Review each discrete item and make an initial assessment of significance and make a verbal report to NRC.
- b. Provide recommendations to the NRC staff on the necessity of further evaluation of each item.
- c. Participate, with one person with mechanical engineering expertise as a member of the MRR Diablo Canyon Small Bore Piping Review Team in an audit at the Diablo Canyon site, PGE/Bechtel offices in San Francisco, and IDVP office in Berkeley, CA. for each allegation as appropriate.
- d. Assist the NRC staff in preparation of a written report describing the results of the audit noted in c. above.
- e. Assist the staff in preparing for two Commission meetings, if requested by the staff.
- f. Prepare and present testimony on these and related matters for a public hearing, if requested by the staff.
- g. Review any required corrective action and participate in a corrective action audit at the Diablo Canyon site,

PGE/Bechtel offices in San Francisco, and IDVP office in Berkeley, CA. as requested by the NRC staff.

- h. Assist the NRC staff in preparation of a written report describing the results of the review and audit noted in g. above.

#### Meetings and Travel

It is anticipated that approximately 8 meetings for 1 person will be held in Bethesda, MD., the plant site, and San Francisco, CA. with the staff and the applicant in regard to Task 10.

#### LEVEL OF EFFORT AND PERIOD OF PERFORMANCE

This modification increases the level of effort by approximately 0.25 psy and extends the period of performance by two months.

#### REPORTING REQUIREMENTS

- h. Prepare a written report on the evaluation and investigation of allegations related to the design of small bore piping (Nos. 55, 78, 79, 81, 82, 86, 87, 88, 89, 95 and 97).