

7  
 → H.L.  
 for file

SEP 19 1983

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 VZeoli, CON  
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 RVollmer  
 HLeffevre  
 DMcDermott, CFleenor  
 Part 1  
 Part 2

MEMORANDUM FOR: Edward L. Halman, Director  
 Division of Contracts, ADM

FROM: Richard HJ Vollmer, Director  
 Division of Engineering, NRR

SUBJECT: REQUEST FOR PROCESSING OF AN NRR PROCUREMENT  
 ACTION: RFPA NO.: NRR-03-83-105

TITLE: GEOSCIENCE NUCLEAR FACILITY CASE REVIEWS IV

FIN NO.: 58643  
 58633

The attached request for Procurement Action (RFPA), NRC Form 400, Parts 1 and 2, is forwarded for your action. If you have any questions concerning the acceptance and processing of this request, please contact Mr. E. Pentecost, ext. 27067.

Original signed by:

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

Attachments:  
 As stated

8407180060XA

with the exchange  
 that FY 1984 funds  
 will be available  
 in the DE financial  
 plan.

RECONCURRENCE REQUIRED FOR REVISIONS MADE BY PPAS

DE/GSB HLeffevre 9/15/83  
 DE/GSB RJackson 9/15/83  
 DE/AD:CS&B JPKnight 9/15/83  
 DE/AD:CS&B EPentecost 9/15/83

|        |              |          |            |            |          |           |
|--------|--------------|----------|------------|------------|----------|-----------|
| OFFICE | DE:GSB       | DE:GSB   | DE:AD:C&SE | DE         | NRR      | DE:D      |
| JRNAME | HLeffevre:sj | RJackson | JPKnight   | EPentecost | BGrenier | RHVollmer |
| DATE   | 8/8/83       | 8/10/83  | 8/1/83     | 8/1/83     | 8/1/83   | 8/1/83    |

HRR-83-105

REQUEST FOR PROCUREMENT ACTION (RFPA)

2 RFPA REVISION NUMBER

2

**INSTRUCTIONS:** This form is to be used for various types of procurement requests, including sole-source actions, competitive solicitations and modifications. Inapplicable items or those for which information has not been developed, should be left blank. In such cases, the project officer should contact the Division of Contracts for specific guidance.

Submit the completed form to: Director, Division of Contracts, Office of Administration

3 TYPE OF ACTION REQUESTED (Check and complete as appropriate)

ADMINISTRATIVE ACTION INITIATED BY DIVISION OF CONTRACTS

ISSUE A COMPETITIVE SOLICITATION

AWARD A CONTRACT ON THE BASIS OF AN UNSOLICITED PROPOSAL (Give contractor's name)

EXECUTE A MODIFICATION TO A CONTRACT

CONTRACT NUMBER \_\_\_\_\_ CONTRACTOR \_\_\_\_\_

AWARD A NONCOMPETITIVE CONTRACT (Give contractor's name)

EMPLOY A BASIC ORDERING AGREEMENT (BOA)

BOA NUMBER \_\_\_\_\_ TITLE OF BOA \_\_\_\_\_

ISSUE AN INTERAGENCY AGREEMENT (Give agency's name)

USGS

4a PERIOD OF PERFORMANCE

b DELIVERY SCHEDULE

FROM: 2/20/83 TO: 1/31/86

5 SECURITY CLASSIFIED INFORMATION ANTICIPATED

6 PREPROPOSAL CONFERENCE CONTEMPLATED

YES (Attach NRC Form 187)  
 NO

YES  
 NO

7 DECISION UNIT TITLE

Operating Reactors: Plant Reviews and Generic Assessments  
Casework: Plant Reviews and Generic Assessments

8 TITLE OF PROJECT AND BRIEF DESCRIPTION OF WORK (50 word summary)

GEOSCIENCE REVIEW PROGRAM

To provide NRC with expert technical services from USGS in the areas of complex geological and seismological plant-specific and generic issues.

9 PROGRAM OFFICE RECOMMENDATION REGARDING SOCIO-ECONOMIC SET-ASIDES (Complete where action requested in 3, above is for a competitive solicitation, a basic ordering agreement, or a noncompetitive contract)

100% SET-ASIDE FOR SMALL BUSINESS

PARTIAL SET-ASIDE FOR SMALL BUSINESS

JOINT SMALL BUSINESS—LABOR SURPLUS AREA SET-ASIDE

100% LABOR SURPLUS AREA SET-ASIDE

NONCOMPETITIVE CONTRACT PROCESSED UNDER THE PROCEDURES OF SECTION B(a) OF THE SMALL BUSINESS ACT FOR AWARD TO A SMALL DISADVANTAGED BUSINESS

UNRESTRICTED ACTION

10 MANAGEMENT DIRECTIVES APPLICABILITY

| DESCRIPTION   | APPLICABLE | INAPPLICABLE | EXEMPTION NUMBER |
|---|------------|--------------|------------------|
| OMB CIRCULAR A-76 (See NRC Bulletin 5105-1)                                     |            | X            |                  |
| AUTOMATIC DATA PROCESSING COORDINATION (See NRCM 0904 and NRC Bulletin 2101-15) |            | X            |                  |
| APPROVAL FOR ACQUISITION OF CONSULTANT SERVICES (See NRCM 4139)                 |            | X            |                  |

REQUEST FOR PROCUREMENT ACTION (RFP)

|   |        |   |
|---|--------|---|
| 11 DUPLICATION OF EFFORT (Check as appropriate)<br>I certify, based on inquiries made with other NRC offices, that no unnecessary duplication of effort will result from the conduct of the subject work. (For actions less than \$100,000) | NUMBER | DESCRIPTION   |
|   | 1      | STATEMENT OF WORK   |
| Attached are certifications executed by each member of the Contract Review Board (Actions in excess of \$100,000)   |        | EVALUATION CRITERIA WITH NUMERICAL WEIGHTS ASSIGNED                 |
|   |        | LIST OF FIRMS TO BE SOLICITED, IN ADDITION TO THE GENERAL PUBLIC    |
| Contract Review Board Certification requests have been forwarded to Board Members for concurrence/comment. Completed certifications will be forwarded (for urgent actions only, with prior approval of the Division of Contracts)           |        | UNSOLICITED PROPOSAL JUSTIFICATION                                  |
|   |        | JUSTIFICATION FOR NONCOMPETITIVE PROCUREMENT                        |
|   |        | DESIGNATION OF MEMBERS TO SOURCE EVALUATION PANEL                   |
|   |        | JUSTIFICATION FOR ACQUISITION OF CONSULTANT SERVICES, NRC FORM 400A |
|   |        | SPECIAL REQUIREMENTS (See NRC Appendix 5101, Exhibit 1, Page 5)     |
|   |        | CONTROLLER'S APPROVAL OF A-76 DETERMINATION                         |

| 13 ESTIMATED COST (Attach cost-estimate breakdown) |             |          | TOTAL     |
|--|-------------|----------|-----------|
| CURRENT  | FISCAL YEAR | THIRD    |           |
|  | SECOND      |          |           |
| FY 1984  | FY 1985     | FY 1986  |           |
| \$272,000*   | \$150,000   | \$75,000 | \$497,000 |

14 FUNDING This certifies that funds in the amount cited below are available in the current budget for the work described above

AMOUNT: \$185,000  
 NAME OF CERTIFYING OFFICIAL (Typed and Signed): *Bernard L. Grenier*  
 Bernard L. Grenier, Technical Assistance Program Manager, NRR  
 DATE: 11/4/83

| NUMBER(S)     | B & R | AMOUNT(S) | FIN   | AMOUNT(S) | APPN NUMBER(S) |
|---------------|-------|-----------|-------|-----------|----------------|
| 20-19-40-42-2 |       | \$ 40,000 | B8643 | \$ 40,000 | 31X0200,204    |
| 20-19-40-41-2 |       | \$101,000 | B8633 | \$101,000 | 31X0200,204    |
| 20-19-40-42-2 |       | \$ 34,000 | B8662 | \$ 34,000 | 31X0200,204    |
| 20-19-10-12-2 |       | \$ 10,000 | B8650 | \$ 10,000 | 31X0200,204    |
| 20-19-10-11-2 |       | 0         | B8663 | 0         | 31X0200,204    |

15 PROJECT OFFICER'S NAME: H. Lefevre  
 MAIL STOP: P-514  
 TELEPHONE NUMBER: 492-7732

16 APPROVAL OF DIRECTOR OR DESIGNEE (Type name on line, and have signature placed above typewriting)  
*Richard H. Vollmer*  
 Richard H. Vollmer, Director  
 ORGANIZATION: Division of Engineering  
 DATE: 11/7/83

17 REMARKS

RFP Revision 1 dated September 19, 1983 certified funds for award of the Interagency Agreement to USGS. The funds were decertified by memorandum to K. Morton from B. L. Grenier dated September 27, 1983, since the Interagency Agreement could not be awarded in FY 1983. A revised Statement of Work was transmitted to E. Halman from R. Vollmer on October 17, 1983.

This RFP certifies FY 1984 funds to award the Interagency Agreement to USGS in accordance with the SOW transmitted on October 17, 1983 as modified by the attachment. Table 1 provides a breakdown of funds for each Work Assignment that should be used to establish the Work Assignments ceiling amount for the entire effort and the anticipated obligation amount for each fiscal year and a breakdown of anticipated funding for each FIN for the duration of this Interagency Agreement.

The period of performance for this Interagency Agreement should be effective retroactive to February 20, 1983 because the NRR Project Officer assumed the RFP dated January 26, 1983 that transmitted the SOW for the Interagency Agreement was in place and therefore, the Project Officer advised the USGS to proceed to perform work on Summer, WNP-3 and other subsequent assignments.

FOR DIVISION OF CONTRACTS USE ONLY (Do not write below this line)

INITIAL ENTRY MADE INTO THE CIS/FPDS SYSTEM

INPUTER'S NAME: \_\_\_\_\_ DATE ENTERED: \_\_\_\_\_

REQUEST FOR PROCUREMENT ACTION (RFPA)

2 RFPA REVISION NUMBER

1

INSTRUCTIONS: This form is to be used for various types of procurement requests, including sole-source actions, competitive solicitations and modifications. Inapplicable items or those for which information has not been developed, should be left blank. In such cases, the project officer should contact the Division of Contracts for specific guidance.

Submit the completed form to: Director, Division of Contracts, Office of Administration

3. TYPE OF ACTION REQUESTED (Check and complete as appropriate)

ADMINISTRATIVE ACTION INITIATED BY DIVISION OF CONTRACTS

ISSUE A COMPETITIVE SOLICITATION

AWARD A CONTRACT ON THE BASIS OF AN UNSOLICITED PROPOSAL (Give contractor's name)

EXECUTE A MODIFICATION TO A CONTRACT

CONTRACT NUMBER \_\_\_\_\_ CONTRACTOR \_\_\_\_\_

AWARD A NONCOMPETITIVE CONTRACT (Give contractor's name)

EMPLOY A BASIC ORDERING AGREEMENT (BOA)

BOA NUMBER \_\_\_\_\_ TITLE OF BOA \_\_\_\_\_

ISSUE AN INTERAGENCY AGREEMENT (Give agency's name)

USGS

4a PERIOD OF PERFORMANCE FROM TO

2/20/83 1/31/86

b DELIVERY SCHEDULE

--

5 SECURITY/CLASSIFIED INFORMATION ANTICIPATED

YES (Attach NRC Form 187)  
 NO

6 PREPROPOSAL CONFERENCE CONTEMPLATED

YES  
 NO

7. DECISION UNIT TITLE

Operating Reactors: Plant Reviews and Generic Assessments  
Casework: Plant Reviews and Generic Assessments

8 TITLE OF PROJECT AND BRIEF DESCRIPTION OF WORK (50 word summary)

Geoscience Review Program

To provide NRC with expert technical services from USGS in the areas of complex geological and seismological plant-specific and generic issues.

9 PROGRAM OFFICE RECOMMENDATION REGARDING SOCIO-ECONOMIC SET-ASIDES (Complete where action requested in 3. above is for a competitive solicitation, a basic ordering agreement, or a noncompetitive contract.)

100% SET-ASIDE FOR SMALL BUSINESS

PARTIAL SET-ASIDE FOR SMALL BUSINESS

JOINT SMALL BUSINESS—LABOR SURPLUS AREA SET-ASIDE

100% LABOR SURPLUS AREA SET-ASIDE

NONCOMPETITIVE CONTRACT PROCESSED UNDER THE PROCEDURES OF SECTION 8(a) OF THE SMALL BUSINESS ACT FOR AWARD TO A SMALL DISADVANTAGED BUSINESS

UNRESTRICTED ACTION

10 MANAGEMENT DIRECTIVES APPLICABILITY

| DESCRIPTION   | APPLICABLE | INAPPLICABLE | EXEMPTION NUMBER |
|---|------------|--------------|------------------|
| OMB CIRCULAR A-76 (See NRC Bulletin 5105-1)                                     |            | X            |                  |
| AUTOMATIC DATA PROCESSING COORDINATION (See NRCM 0904 and NRC Bulletin 2101-15) |            | X            |                  |
| APPROVAL FOR ACQUISITION OF CONSULTANT SERVICES (See NRCM 4139)                 |            | X            |                  |

REQ FOR PROCUREMENT ACTION A)

|  |                         |   |
|--|-------------------------|---|
| 11. I certify, based on inquiries made with other NRC offices, that no unnecessary duplication of effort will result from the conduct of the subject work. (For actions less than \$100,000)                                       | 12. LIST OF ATTACHMENTS |   |
|  | NUMBER                  | DESCRIPTION   |
| Attached are certifications executed by each member of the Contract Review Board (Actions in excess of \$100,000)  | 1                       | STATEMENT OF WORK   |
|  |                         | EVALUATION CRITERIA WITH NUMERICAL WEIGHTS ASSIGNED                 |
| Contract Review Board Certification requests have been forwarded to Board Members for concurrence/comment. Completed certifications will be forwarded. (For urgent actions only, with prior approval of the Division of Contracts) |                         | LIST OF FIRMS TO BE SOLICITED, IN ADDITION TO THE GENERAL PUBLIC    |
|  |                         | UNSOLICITED PROPOSAL JUSTIFICATION                                  |
|  |                         | JUSTIFICATION FOR NONCOMPETITIVE PROCUREMENT                        |
|  |                         | DESIGNATION OF MEMBERS TO SOURCE EVALUATION PANEL                   |
|  |                         | JUSTIFICATION FOR ACQUISITION OF CONSULTANT SERVICES, NRC FORM 400A |
|  |                         | SPECIAL REQUIREMENTS (See NRC Appendix S101, Exhibit 1, Page 5)     |
|  |                         | CONTROLLER'S APPROVAL OF A-76 DETERMINATION                         |

13. ESTIMATED COST (Attach cost estimate breakdown)

| FISCAL YEAR |           | THIRD     |          | TOTAL     |
|-------------|-----------|-----------|----------|-----------|
| CURRENT     | SECOND    | FY 1985   | FY 1986  |           |
| FY 1983     | FY 1984   |           |          |           |
| \$185,000   | \$185,000 | \$150,000 | \$75,000 | \$595,000 |

14. FUNDING. This certifies that funds in the amount(s) cited below are available in the current budget for the work described above

AMOUNT: \$185,000      NAME OF CERTIFYING OFFICIAL (Type and Sign): *B. J. Grenier*      DATE: 09/16/83

ORGANIZATION: B. J. Grenier, Technical Assistance Program Manager, NRR

| B & R         |           | FIN       |           | APPN NUMBER(S) |
|---------------|-----------|-----------|-----------|----------------|
| NUMBER(S)     | AMOUNT(S) | NUMBER(S) | AMOUNT(S) |                |
| 20-19-40-42-2 | \$40,000  | B8643     | \$40,000  | 31X0200,203    |
| 20-19-40-41-2 | \$101,000 | B8633     | \$101,000 | 31X0200,203    |
| 20-19-40-42-2 | \$34,000  | B8662     | \$34,000  | 31X0200,203    |
| 20-19-10-12-2 | \$10,000  | B8650     | \$10,000  | 31X0200,203    |
| 20-19-10-11-2 | - 0 -     | B8663     | - 0 -     |                |

15. PROJECT OFFICER'S NAME: H. Lafeyre      MAIL STOP: P514      TELEPHONE NUMBER: 492-7732

16. APPROVAL OF DIRECTOR OR DESIGNEE (Type name on line and have signature placed above typewriting)

Richard H. Vollmer, Director      *William V. Johnston, Acting*      DATE: 09/19/83

ORGANIZATION: Division of Engineering, NRR

17. REMARKS

This RFPA requests that an Interagency Agreement with USGS be negotiated based on the revised Statement of Work (SOW) that sets up a Task Ordering arrangement. Incremental funds in the amount of \$185K are provided for contract award. Table 1 provides a summary of the changes from the original RFPA (SOW) and associated USGS proposal dated June 9, 1983 that are incorporated in the revised SOW being submitted with this RFPA. Table 2 provides a breakdown of funds for each Work Assignment that should be used to establish the Work Assignments ceiling amount for the entire effort and the anticipated obligation amount for each fiscal year and a breakdown of anticipated funding for each FIN for the duration of this Interagency Agreement.

The period of performance for this Interagency Agreement should be effective retroactive to February 20, 1983 because the NRR Project Officer assumed the RFPA dated January 26, 1983 that transmitted the SOW for the Interagency Agreement was in place and therefore, the Project Officer advised the USGS to proceed to perform work on Summer, WNP-3 and other subsequent assignments.

FOR DIVISION OF CONTRACT'S USE ONLY (Do not write below this line)

INITIAL ENTRY MADE INTO THE CIS/FPOS SYSTEM

COMPUTER'S NAME: \_\_\_\_\_      DATE ENTERED: \_\_\_\_\_

ATTACHMENT

Modification to Statement of Work Transmitted  
October 17, 1983

Page 3 - Revise LEVEL OF EFFORT AND PERIOD OF PERFORMANCE as follows:

The overall level of effort is estimated at 4.1 staff years over a three year period.

|         |                 |
|---------|-----------------|
| FY 1984 | 2.4 staff-years |
| FY 1985 | 1.0 staff-year  |
| FY 1986 | 0.7 staff-year  |

Note: The exact number and scheduling of Work Assignments that will be placed under this IA has not yet been determined. No specific amount of work is guaranteed. NRC shall be obligated to pay only for work actually ordered and performed as mutually agreed upon.

Page 17, Subtask b - Change Estimated Completion Date to "12/01/83 thru 11/15/85."

Change the third line of the work description to commence the reports in December 1983.

Page 17, Subtask C(1)

Page 18, Subtask C(2) - Change the Estimated Completion Date to "As Required between December 1983 and November 1985."

Page 18 - Revise LEVEL OF EFFORT AND PERIOD OF PERFORMANCE as follows:

The level of effort is estimated at .35 staff years over a 2½ year period (FY 83, .05 staff year; FY 84, .10 staff year; FY 85, .15 staff year; FY 86, .05 staff year).

REV. 2 11-34-83

TABLE 1  
CONTRACT NRC-03-83-105

FUNDING REQUIREMENTS FOR EACH WORK ASSIGNMENT

| <u>WORK ASSIGNMENT</u>                      | <u>FIN/ (B&amp;R)</u>    | <u>FY 1984</u> | <u>FY 1985</u> | <u>FY 1986</u> | <u>TOTAL</u> |
|---|--------------------------|----------------|----------------|----------------|--------------|
| Task 1                                      | B8643<br>(20-19-40-42-2) | \$ 81,000      | \$ 30,000      | \$19,000       | \$130,000    |
| Task 2                                      | B8633<br>(20-19-40-41-2) | \$ 20,000      | 0              | 0              | \$ 20,000    |
| Task 3                                      | B8633<br>(20-19-40-41-2) | \$ 81,000      | 0              | 0              | \$ 81,000    |
| Task 4                                      | B8662<br>(20-19-40-42-2) | \$ 60,000      | 0              | 0              | \$ 60,000    |
| Task 5                                      | B8662<br>(20-19-40-42-2) | \$ 15,000      | 0              | 0              | \$ 15,000    |
| Task 6                                      | B8650<br>(20-19-10-12-2) | \$ 15,000      | \$ 15,000      | \$ 5,000       | \$ 35,000    |
| TOTAL WORK ASSIGNMENT PLACED                |                          | \$272,000      | \$ 45,000      | \$24,000       | \$341,000    |
| ANTICIPATED WORK ASSIGNMENTS NOT YET PLACED |                          | 0              | 105,000        | 51,000         | 156,000      |
| TOTAL I/A AMOUNT                            |                          | \$272,000      | \$150,000      | \$75,000       | \$497,000    |

ANTICIPATED FUNDING LEVEL FOR EACH FIN

| <u>FIN</u> | <u>B&amp;R No.</u> | <u>FY 1984</u>             | <u>FY 1985</u> | <u>FY 1986</u> | <u>TOTAL</u> |
|------------|--------------------|----------------------------|----------------|----------------|--------------|
| B8643      | 20-19-40-42-2      | \$ 81,000                  | \$ 30,000      | \$ 19,000      | \$130,000    |
| B8633      | 20-19-40-41-2      | (was \$120K)*<br>\$101,000 | \$ 15,000      | \$ 8,000       | \$124,000    |
| B8662      | 20-19-40-42-2      | (was \$125K)*<br>\$ 75,000 | \$ 50,000      | \$ 20,000      | \$145,000    |
| B8650      | 20-19-10-12-2      | (was \$44K)*<br>\$ 15,000  | \$ 25,000      | \$ 13,000      | \$ 53,000    |
| B8663      | 20-19-10-11-2      | 0                          | \$ 30,000      | \$ 15,000      | \$ 45,000    |
| TOTAL      |                    | \$272,000                  | \$150,000      | \$ 75,000      | \$497,000    |

Rev 2 (FY84) FUNDING LEVEL \$272K

Rev 1 (FY83-FY84) " " \$370K

Net Loss between FY83-FY84 Combined Budget of \$98K

TABLE 2  
CONTRACT NRC-03-83-105

FUDNING REQUIREMENTS FOR EACH WORK ASSIGNMENT

| <u>WORK<br/>ASSIGNMENT</u>                     | <u>FIN/<br/>(B&amp;R)</u> | <u>FY 1983</u> | <u>FY 1984</u> | <u>FY 1985</u> | <u>FY 1986</u> | <u>TOTAL</u> |
|--|---------------------------|----------------|----------------|----------------|----------------|--------------|
| Task 1   | B8643<br>(20-19-40-42-2)  | \$ 40,000      | \$ 41,000      | \$ 30,000      | \$19,000       | \$130,000    |
| Task 2   | B8633<br>(20-19-40-41-2)  | 20,000         | 0              | 0              | 0              | 20,000       |
| Task 3   | B8633<br>(20-19-40-41-2)  | 81,000         | 0              | 0              | 0              | 81,000       |
| Task 4   | B8662<br>(20-19-40-42-2)  | 24,000         | 36,000         | 0              | 0              | 60,000       |
| Task 5   | B8662<br>(20-19-40-42-2)  | 10,000         | 5,000          | 0              | 0              | 15,000       |
| Task 6   | B8650<br>(20-19-10-12-2)  | 10,000         | 15,000         | 15,000         | 5,000          | 45,000       |
| TOTAL WORK ASSIGNMENT PLACED                   |                           | \$185,000      | \$ 97,000      | \$ 45,000      | \$24,000       | \$351,000    |
| ANTICIPATED WORK ASSIGNMENTS<br>NOT YET PLACED |                           | 0              | 88,000         | 105,000        | 51,000         | 244,000      |
| TOTAL I/A AMOUNT                               |                           | \$185,000      | \$185,000      | \$150,000      | \$75,000       | \$595,000    |

ANTICIPATED FUNDING LEVEL FOR EACH FIN

| <u>FIN</u> | <u>FY 1983</u> | <u>FY 1984</u> | <u>FY 1985</u> | <u>FY 1986</u> | <u>TOTAL</u> |
|------------|----------------|----------------|----------------|----------------|--------------|
| B8643      | \$ 40,000      | \$ 41,000      | \$ 30,000      | \$ 19,000      | \$130,000    |
| B8633      | 101,000        | 19,000         | 15,000         | 8,000          | 143,000      |
| B8662      | 34,000         | 91,000         | 50,000         | 20,000         | 195,000      |
| B8650      | 10,000         | 34,000         | 25,000         | 13,000         | 82,000       |
| B8663      | 0              | 0              | 30,000         | 15,000         | 45,000       |
| TOTAL      | \$185,000      | \$185,000      | \$150,000      | \$ 75,000      | \$595,000    |

1010

Rev. 9-19-83



TABLE 1  
 CONTRACT NRC-03-83-105  
 SUMMARY OF SOW REVISIONS

| ORIGINAL<br>SOW                          | REVISED<br>SOW      | COMMENTS   |
|--|---------------------|--|
| Project 1<br>Nuclear Advisory Group      | Task 1              | Starting February 1, 1983, all costs associated with this task should be charged to Contract NRC-03-83-105. The cost estimate (\$40K) provided by the USGS proposal dated June 9, 1983 is identified under Contract NRC-03-80-113. USGS should be informed the correct contract to charge these costs against. This RFP provides \$40K for Task 1 in FY 1983.  |
| Project 2<br>Task 1<br>Advisory Services | Tasks 4,<br>5 and 6 | Three tasks were identified via letters to USGS from R. Jackson under the on-call advisory services task. Since initiation of the three tasks a detailed SOW for each of the Work Assignments has been prepared. These have been assigned Tasks 4, 5 and 6 under the Task Ordering arrangement. The June 9, 1983 USGS proposal identified a cost of \$30K for the three tasks. Since the USGS has not yet seen the Work Assignments at the time the proposal was prepared, NRR believes the cost estimate is low. NRR anticipates a total cost of approximately \$120K for the three Work Assignments. (See Table 2 for the estimated costs of each Work Assignment.) This RFP provides \$24K for Task 4, \$10K for Task 5 and \$10K for Task 6 in FY 1983. There will be no Advisory Services Task in the Revised SOW. The Task Ordering arrangement should allow quick placement of work thus alleviating the need for Advisory Services Task. |
| Project 2<br>Task 2<br>Summer            | Task 2              | The \$20K identified in the June 9, 1983 USGS proposal appears reasonable and is provided with this RFP.   |
| Project 2<br>Task 3<br>WNP-3             | Task 3              | Effective July 29, 1983, all work on this Work Assignment was stopped via memo from R. Jackson to USGS dated July 27, 1983. Action to officially inform USGS of this decision should be provided by the Contracting Officer. It is anticipated that the USGS cost estimate of \$124K is high. NRR anticipates the reduced effort to cost approximately \$81K. This RFP provides \$81K for this Work Assignment in FY 1983.   |

Rev. 9-19-83

ORIGINAL  
SOW

REVISED  
SOW

COMMENTS

Project 2  
Task 4  
WNP-3 Site Spectra

None

Effective July 29, 1983, all work on this Task was stopped via memo from R. Jackson to USGS dated July 27, 1983. Action to officially inform USGS of this decision should be provided by the Contracting Officer. No work was initiated on this task and the USGS proposal did not specify funds for this task; therefore, this task was dropped completely from the revised SOW.

Statement of Work

TITLE: USGS Technical Assistance to the Geosciences Branch (NRR)

INTERAGENCY AGREEMENT NO.: NRC-03-83-105

| <u>FIN</u> | <u>B&amp;R No.</u> | <u>Project Title</u>                      |
|------------|--------------------|---|
| B8643      | 20-19-40-42-2      | Nuclear Advisory Group                    |
| B8633      | 20-19-40-41-2      | Casework Reviews                          |
| B8662      | 20-19-40-42-2      | Generic Casework Assessments              |
| B8650      | 20-19-10-12-2      | Generic Operating Reactors<br>Assessments |
| B8663      | 20-19-10-11-2      | Operating Reactors Reviews                |

PROJECT OFFICER: Harold Lefevre (492-7732)

BACKGROUND:

Applicants seeking to construct and operate a nuclear power plant must submit to NRC for review and evaluation documentation consisting of a Preliminary Safety Analysis Report (PSAR) and a Final Safety Analysis Report (FSAR).

The safety review and evaluation process is conducted in two phases: (1) at the PSAR stage, the applicant describes his design approach. On completion of the review, evaluation, and approval of the PSAR, the applicant receives a Construction Permit (CP) which enables him to start plant construction; (2) at the FSAR stage, the applicant describes in detail the implementation of the design for safe plant shutdown under all conditions of operation, including design basis earthquake, and how these systems meet the NRC criteria. On completion of the FSAR review, evaluation, and approval, the applicant receives an Operating License (OL) for commercial plant operation.

Once a plant is operating there may arise specific geoscience problems that require the technical advisory services of the USGS (usually on a high priority, quick-turnaround basis). For example, the USGS is re-evaluating its position on the 1886 Charleston Earthquake. A decision by the USGS that no longer allows for restricting that earthquake to the vicinity of Charleston could require USGS involvement in ground motion and fault hazard studies for several nuclear sites.

OBJECTIVE:

The objective of this Interagency Agreement is to obtain the service of expert technical personnel from the USGS to provide an independent evaluation and to supplement staff expertise in the areas of complex geology and seismology for nuclear power plant reviews and for generic and regional siting issues.

10-17-73

WORK REQUIREMENTS:

The specific work requirements will be identified as "Work Assignment" placed under this IA and will include the following areas:

- 1) Review of specific geology and seismology issues for operating plants (B8663).
- 2) Review of specific geology and seismology issues for construction permit and operating license case reviews. (B8633)
- 3) Review of generic geology and seismology issues primarily related to operating plants. (B8650)
- 4) Review of generic geology and seismology issues primarily related to construction permit and operating license case reviews. (B8662)
- 5) Advisory review of generic and regional siting issues by a group of experts involved in geological, geophysical, and seismological investigations. (B8643)

PROCEDURES FOR PLACING WORK ASSIGNMENTS UNDER THIS INTERAGENCY AGREEMENT

- 1) When a Work Assignment develops, the Project Officer shall contact the Principal Investigator at USGS solely to determine the availability of personnel to perform the work and to discuss the level of effort (costs) and the period of performance required to complete the assignment.
- 2) Upon receipt of the Work Assignment from the Project Officer that describes in Statement of Work format what is to be done, the Contracting Officer shall issue the Work Assignment authorizing start of work and establishing a cost ceiling for that assignment. Funds for the Work Assignment will be obligated commensurate with the cost ceiling or may be obligated incrementally. Each Work Assignment will be consecutively numbered and will reference the appropriate FIN and B&R number.
- 3) Within 15 working days from receipt of the Work Assignment USGS shall acknowledge receipt of the Work Assignment noting any disagreement with the work, schedule, or costs. If disagreement exists, the USGS response shall include any proposed changes. After reaching agreement with USGS, the Contracting Officer shall issue a final authorization. A copy of the USGS correspondence shall be provided to the Director, Division of Engineering, NRR, ATTN: E. Pentecost; to the Project Officer, and to B. L. Grenier, NRR.

10-1-32

LEVEL OF EFFORT AND PERIOD OF PERFORMANCE

The overall level of effort is estimated at 4.8 staff years over a 3 year period.

|                 |                            |
|-----------------|----------------------------|
| <del>FY83</del> | <del>1.8</del> staff-years |
| FY84            | 1.3 staff-year             |
| FY85            | 1.0 staff-year             |
| FY86            | 0.7 staff-year             |

Note: the exact number and scheduling of Work Assignments that will be placed under this IA has not yet been determined. No specific amount of work is guaranteed. NRC shall be obligated to pay only for work actually ordered and performed as mutually agreed upon.

REPORTING REQUIREMENTS

1. Technical reporting requirements will be specified at the time the Work Assignment is issued.

*Handwritten notes:*  
11-4-33  
11-4-33

2. Business Letter Report

A business letter report is to be submitted to the Project Officer with copies to the Contracting Officer, D.C.; to the Director, Division of Engineering, ATTN: E. Pentecost; to R. Jackson, GSB/DE and to B. L. Grenier, NRR in accordance with the schedule specified in each Work Assignment. These reports will identify the FIN, the Principal Investigator, the period of performance and the reporting period.

Unless otherwise specified, the business letter report shall contain a brief summary of the work performed, problems encountered or anticipated and recommend resolution<sup>1</sup>, the amount of professional staff years expended, and the amount of funds expended during the period and, if appropriate, cumulative to date.

For purposes of license fee recovery, the business letter report for Work Assignments placed under FINS B8633 and B8663 shall include the total amount of funds expended (costed) during the period and, if appropriate, cumulative to date for each reactor facility reviewed and he reported on a separate page in the following format:

FIN: \_\_\_\_\_

Title: \_\_\_\_\_

Period: \_\_\_\_\_

| <u>Facility Name</u> | <u>Facility Docket No.</u> | <u>TAC Number</u> <sup>2</sup> | <u>Costs</u>  |                   |
|----------------------|----------------------------|--------------------------------|---------------|-------------------|
|                      |                            |                                | <u>Period</u> | <u>Cumulative</u> |

<sup>1</sup> If the recommended resolution involves a Work Assignment modification, i.e., change in work requirements, level of effort (costs) or period of performance, a separate letter should be prepared and submitted to the Contracting Officer with copies provided to the Director, Division of Engineering, ATTN: E. Pentecost, the NRC Project Manager and to B. L. Grenier, NRR.

<sup>2</sup> For reactor facilities under FIN B8663 only.

Note: The facility name, docket number and, if appropriate, TAC number will be provided in the Work Assignment.

MEETINGS AND TRAVEL

Meeting and travel requirements will be identified at the time the Work Assignment is issued.

NRC FURNISHED MATERIALS

Materials and documents required to perform the work will be identified and forwarded to the USGS at the time the Work Assignment is issued.

## WORK ASSIGNMENT 1

### Nuclear Advisory Group (NAG)

FIN: B8643

B&R: 20-19-40-42-2

Technical Monitor: Robert Jackson

### Background

The USGS conducts and keeps abreast of research and investigations relevant to geologic and seismic hazards of nuclear facilities sites, current general earth science problems, and approaches to siting of critical facilities.

### Work Requirements

1. The USGS shall designate an informal internal group of its personnel who are involved in geological, geophysical, and seismological investigations relevant to siting of nuclear facilities to act in an advisory capacity to the staff on generic and regional siting issues.

The Nuclear Advisory Group will communicate to the staff the results of on-going USGS research and investigations relevant to environmental safety of nuclear facility sites, review with and advise the staff on its current general earth science problems and approaches to siting, and provide a forum for exchange of other information related to facilities siting and operation. This advisory group will not function in the review of license applications for specific sites, and of USGS positions on specific sites, and it will not provide written reviews of USGS positions on specific site-related matters, although individual function in these capacities as determined by the USGS. The Nuclear Advisory Group shall meet with the NRC staff annually to review on-going USGS investigations relevant to nuclear facility siting and discussion of generic siting issues. A meeting summary containing conclusions reached concerning non-site-related issues will be furnished to the NRC 3 weeks following committee meetings.



Level of Effort and Period of Performance

The level of effort is estimated at 1.3 staff years over a 3 1/2 year period. (FY83; .4 staff-yr; FY84, .4 staff-yr; FY85; .3 staff-yr; FY86, .2 staff-yr) One meeting is planned for each year.

Reporting Requirements

1. Within 3 weeks following each meeting, a letter report that contains conclusions reached concerning non-site-related issues will be furnished to the Project Officer.
2. The business letter report should be submitted on a quarterly basis.

Meetings and Travel

It is anticipated that the annual NAG meetings will take place near USGS facilities and 4 NRC staff will participate.

NRC Furnished Materials

None

WORK ASSIGNMENT 2

V. C. Summer (Docket No. 50-395)

FIN: B8633  
B&R: 20-19-40-41-2

Background

In the Atomic Safety and Licensing Board's Partial Initial Decision on the V. C. Summer Nuclear Station, issued July 20, 1982, two license conditions were stated. One condition was a requirement to complete during the first year of operation of the plant a confirmatory program to establish, "within the guidelines established in the findings," that safety margins exist for plant equipment and components in the event of future shallow reservoir-induced earthquakes. The Licensee has submitted a Seismic Confirmatory Program for Equipment and Components. This program purposes to establish, via a series of tests, that a reduction in high-frequency ground motion can reasonably be expected from the accelerometer pad on the abutment of Fairfield Dam to the foundations of the nuclear plant structures. The response of the accelerometer pad-soil system will be determined by low-and high-level dynamic shaking tests and appropriate analytical calculations. The reductions in ground motion from the free-field, soil surface to the building foundations, on rock, will be determined by the simultaneous recordings of ground motion at free-field and foundation sites, using buried explosives as seismic sources. The combined pad-to-soil and soil-to-foundation reductions factors will be applied to the envelope of spectra of shallow reservoir-induced earthquakes that already have been recorded on the accelerometer pad; the Board endorsed this envelope as an appropriate representation of ground motion that might result from future shallow, reservoir-induced events.

Objective

The Geosciences Branch objectives test procedures so as to maximize the usefulness of the results and to assess the validity of the Licensee's conclusions. The USGS is to provide technical advice to the staff during its review.

Work Requirements

Estimated Completion Date

- |   |      |
|---|------|
| 1. Comment on proposed field test possible ambiguities in test results and any possible improvements. | 5/83 |
| 2. Advise on technical validity of Licensee's data analysis and interpretation.                       | 5/83 |

Level of Effort and Period of Performance

The level of effort is estimated at .2 staff-yr. over a 3 month period.

Reporting Requirements

1. Most of the initial USGS input will be in the form of verbal communications between G. Noel Bycroft and William Joyner of the USGS, Seismic Engineering Branch, and Jerry King of the NRC, Geosciences Branch. A letter report that includes a technical assessment of the Licensee's test results, data analysis, and interpretations will be submitted to the Project Officer upon completion of the effort.
2. The business letter report should be submitted on a quarterly basis and upon completion of this effort.

Meetings and Travel

One meeting of one person in Bethesda.

NRC Furnished Materials

None

WORK ASSIGNMENT 3

Washington Nuclear 3 (50-508)

Technical Monitor: R. B. McMullen

FIN: B8633

B&R: 20-19-40-41-2

Background

The Washington Public Power Supply System (WPPSS) has applied for an operating license for Unit 3 near Olympia, Washington. The NRC staff is just beginning its review. We request that the USGS undertake a complete geological and seismological review of this site and advise us as to the adequacy of the proposed seismic design bases.

Work Requirements

Estimated Completion Date

- |  |      |
|--|------|
| 1. Review and evaluate the information contained in the FSAR. Meet with the NRC staff, the applicant and consultants. Review literature and new articles on regional geology, seismology and tectonics, including the seismogenic potential of the Juan de Fuca/North America plate boundary. Prepare recommendations for requests for additional information as required. | 6/83 |
|--|------|

LEVEL OF EFFORT AND PERIOD OF PERFORMANCE

The level of effort is estimated at .8 staff-yr over a 4 month period.

Reporting Requirements

Upon completion of subtask 1 submit a letter report to the Project Officer that includes recommendations for requests for additional information required from the applicant.

A business letter report will be submitted upon completion of this effort.

Meetings and Travel

USGS personnel (2) will be required to participate in two review meetings at the site and one 5-person review meeting in Bethesda.

NRC Furnished Materials

None