

STANDARD ORDER FOR DOE WORK

20-81-394

DATE

8/20/81

ISSUED TO (DOE Office)

Albuquerque Operations Office

ISSUED BY (NRC Office)

Office of Nuclear Reactor Regulation, DL

ACCOUNTING CITATION

APPROPRIATION SYMBOL

31X0200.201

B&R NUMBER

20-19-04-08

PERFORMING ORGANIZATION AND LOCATION

Los Alamos National Laboratory
Los Alamos, New Mexico

FIN NUMBER

A-7263-1

FIN TITLE

Applicability of TMI Action Plan Requirements to Clinch River Breeder Reactor and LMFBRs

WORK PERIOD - THIS ORDER

FIXED

ESTIMATED

FROM:

9/1/81

TO:

12/31/81

OBLIGATION AVAILABILITY PROVIDED BY:

A. THIS ORDER

\$ 50,000

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

\$1,617,000

C. TOTAL ORDERS TO DATE

(TOTAL A & B)

\$1,667,000

D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER

\$ 50,000

FINANCIAL FLEXIBILITY:

FUNDS WILL NOT BE REPROGRAMMED BETWEEN FINs. LINE D CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED.

FUNDS MAY BE REPROGRAMMED NOT TO EXCEED ± 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.

ATTACHMENTS:

THE FOLLOWING ATTACHMENTS ARE HEREBY MADE A PART OF THIS ORDER:

- STATEMENT OF WORK
- ADDITIONAL TERMS AND CONDITIONS
- OTHER

SECURITY

- WORK ON THIS ORDER IS NOT CLASSIFIED.
- WORK ON THIS ORDER INVOLVES CLASSIFIED INFORMATION. NRC FORM 187 IS ATTACHED.

REMARKS:

This order provides funding to begin work on the enclosed Statement of Work and requests a proposal be submitted within 30 days.

After acceptance, please send to the NRC Office of the Controller, ATTN: D. Dandois, and provide a copy to the Office of Nuclear Reactor Regulation, ATTN: D. Corley.

ISSUING AUTHORITY

ACCEPTING ORGANIZATION

SIGNATURE

Bernard L. Grenier

SIGNATURE

TITLE

Technical Assistance Program Manager

TITLE

DATE

ENCLOSURE 2

PROPOSAL CONTENT

The minimum items required in all proposals are:

1. Performing organization's name and location.
2. FIN Title, FIN Number, and B&R Number (NRC's) (as on statement of work).
3. Performing organization's key personnel, program manager, or principal investigator, their resumes and FTS phone numbers.
4. Background (definition of the problem including the objective(s) to be attained).
5. Work to be performed (Provide a concise description of tasks to be performed and expected results for the period of performance. Note technical data requirements, potential problems, and other technical information needed to fully explain the effort. Highlight changes from prior authorized SOW's, if any, identify changes in performance, schedule or costs).
6. Identify major subcontracts, including consultants.
7. Costs estimated to be incurred by DOE contractors, subcontractors, and consultants. List by fiscal year to completion:
 - a. Manyears of Technical Support (MTS)
 - b. Costs:
 - (1) Direct Salaries (Labor) for MTS
 - (2) Material and Services (excluding ADP)
 - (3) Total ADP Support
 - (4) Subcontracts
 - (5) Capital Equipment
 - (6) Direct Travel Expense (Foreign travel must be shown separately)
 - (7) General and Administrative Expenses (Include indirect labor cost)
 - c. Total Estimated Cost:

8. Forecasts:

- a. Milestone Chart for accomplishing the work.
- b. Planned monthly rate of costs by fiscal year. This may be provided with the first report of an authorized program if not known at time of proposal submittal. At the beginning of each subsequent year, reports should include the planned monthly rate of costs for the ensuing year.

9. Conflict of Interest:

In order to assist the Commission in its evaluation, the DOE Contracting Officer shall describe any significant contractual and organizational relationships of the DOE, its contractor, their employees, or expected subcontractors or consultants on this proposal, with industries regulated by the NRC (e.g. utilities, etc.) and suppliers thereof (e.g. architect engineers and reactor manufacturers, etc.) that might give rise to an apparent to actual conflict of interest.

10. Reporting Requirements (as in statement of work).

ENCLOSURE 3

STATEMENT OF WORK

Title: Applicability of TMI Action Plan Requirements to Clinch River Breeder Reactor and LMFBRs

FIN No.: A-7263
B&R No.: 20-19-04-08

Technical Monitor: James R. Miller (FTS 492-7014)
Cognizant Branch Chief: James R. Miller (FTS 492-7014)

BACKGROUND

Following President Carter's energy policy message of April 22, 1977, the Energy Research and Development Administration requested an indefinite suspension of the schedule associated with the licensing of the Clinch River Breeder Reactor. As a result, the NRC staff did not continue its safety review in regard to the construction permit application for the CRBR. The staff did redirect its review activities to bring the safety review to a point where the effort to date would be adequately documented and any nearly complete efforts would be completed. The NRC staff estimates that its technical review was about 60% complete when the review was suspended. The safety assessment for CRBR will focus on many key issues with a special view to incorporating the lessons learned from TMI-2 into the review.

In light of these considerations, a status report was compiled in November 1978 which summarized the staff's position regarding the major outstanding items existing at the time of the redirection of the safety review. This report should not be construed as addressing necessarily all unresolved or outstanding

items regarding the CRBR safety review, and should not be interpreted as commenting on the satisfactory resolution of any review area.

The TMI Action Plan was developed to provide a comprehensive and integrated plan for the actions now judged necessary by the Nuclear Regulatory Commission to correct or improve the regulation and operation of nuclear facilities based on the experience from the accident at TMI-2 and the official studies and investigations of the accident. In the development of the Action Plan, NRC has transformed the recommendations of those organizations involved in the investigation of the TMI accident into discrete, scheduled tasks that specify changes (or studies of possible future changes) in its regulatory requirements or its organization and procedures.

OBJECTIVE

The objective of this project is to obtain technical support in assessing the current status of the CRBR review and in evaluating the TMI Task Action Plan requirements and recommendations. Initial focus should be on NUREG-0737 requirements as they apply to the CRBR. The second focus should be on the NUREG-0660 recommendation of a long term nature, which have not yet been approved but which may have applicability to CRBR.

WORK REQUIREMENTS

Estimated Level of Effort: 5 man-months

Task 1 - Update Documentation

Projected
Completion Dates

Task Projected Completion Date: October 31, 1981

- | | |
|----------------------------------------------------------------------------------------------------|--------------------|
| a. Assemble PSAR and other pertinent documents through 1977 | September 30, 1981 |
| b. Review Staff Status Report of November 9, 1978. | September 30, 1981 |
| c. Review amendments dated 1977 through present. | September 30, 1981 |
| d. Identify changes in the Design since 1977, and assess level of effort needed to review changes. | October 31, 1981 |
| e. Assemble ER updated information | October 31, 1981 |

Task 2 - Clinch River NUREG-0737 Applicability

Projected
Completion Dates

Task Projected Completion Date: December 15, 1981

- | | |
|------------------------------------------------------------------------------------------------------------------------------|-------------------|
| a. Review background information of TMI Action Plans NUREG-0660 and NUREG-0737. | October 31, 1981 |
| b. Review submittals (0737, 0660) by CRBR. | December 15, 1981 |
| c. Determine applicability of items of NUREG-0737 to the CRBR reactor. | November 30, 1981 |
| d. Submit a report that would provide the following information for each item listed in NUREG-0737 to the CRBR reactor: | December 15, 1981 |
| 1. Applicability of each item to CRBR (Directly Applicable, Partially Applicable, Not Applicable), including bases. | |
| 2. Recommended modifications, including bases, to any NUREG-0737 requirements to make them more directly applicable to CRBR. | |
| 3. Recommended schedule for implementation of each item with the bases for the schedule recommendation. | |

December 15, 1981

- e. If during the review process it is determined that the intent of items in NUREG-0737 cannot be clearly established for CRBR, without extensive analysis or research, the contractor should develop a proposed program to establish the applicability of such NUREG-0737 requirements to CRBR.

LEVEL OF EFFORT AND PERIOD OF PERFORMANCE

The level of effort is estimated at 5 man-months over a 4 month period for the combination of Task 1 and Task 2.

REPORTING REQUIREMENTS

1. At the completion of Task 1, a final technical letter report is to be submitted to the cognizant NRR manager with copies to D. Eisenhower, Director, Division of Licensing. The report should contain a detailed listing of all documents assembled and reviewed.
2. At the completion of Task 2, a final technical letter report is to be submitted to the cognizant NRR manager with copies to D. Eisenhower, Director, Division of Licensing. The report should contain detailed evaluations corresponding to items c, d and e of the Work Requirements under Task 2.

3. A monthly business letter report is to be submitted by the 15th of the month to the cognizant NRR manager with copies to the Director, Division of Licensing, R. Tedesco, DL and B. Grenier, M.R. These reports will contain as subheadings:

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

MEETINGS AND TRAVEL

The contractor will attend a maximum of five meetings with the staff and licensee over the period of performance in Bethesda, at the CRBR site, or at the contractors office. These meetings will usually be of one to two days duration.

NRC FURNISHED MATERIALS

Documents needed for initiation of this project will be forwarded to LANL under separate cover. Any additional material will be forwarded as needed.