

D CD



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 12, 1999

Beckman and Associates, Inc.
Attn: Vicki Beckman
1071 State Route 136
Belle Vernon, PA 15012

SUBJECT: TASK ORDER NO. 056, "D.C. COOK ENGINEERING CORRECTIVE ACTION
TEAM INSPECTION" UNDER CONTRACT NO. NRC-03-98-021

Dear Ms. Beckman:

In accordance with Section G.5, Task Order Procedures, of the subject contract, this letter definitizes the subject task order. The effort shall be performed in accordance with the enclosed Statement of Work.

Task Order No. 056 shall be in effect from November 12, 1999, through January 14, 2000, with a total cost ceiling of \$266,807.49. The amount of \$258,409.19 represents the estimated reimbursable costs and the amount of \$8,398.30 represents the fixed fee.

Accounting data for Task Order No. 056 is as follows:

B&R No.:	020-15-103-105
Job Code:	J-2548
BOC:	252A
APPN No.:	31X0200.020
FFS#:	NRR98021056
Oblig. Amt.:	\$266,807.49

The following individuals are considered to be essential to the successful performance of work hereunder: Mr. Robert Quirk, Mr. John Chiloyan, Mr. Raymond Cooney, Mr. Richard Ely, Mr. Michael Herlihy, Mr. Charles Jones, and Mr. Stanley Spiegelman. The Contractor agrees that such personnel shall not be removed from the effort under the task order without compliance with Contract Clause H.4, Key Personnel.

The issuance of this task order does not amend any terms or conditions of the subject contract.

DF02

PDR CONTR.


Your contacts during the course of this task order are:

Technical Matters: Edmund Kleeh
Project Officer
(301) 415-2964

Contractual Matters: Mona Selden
Contract Specialist
(301) 415-7907

Acceptance of Task Order No. 056 should be made by having an official, authorized to bind your organization, execute three copies of this document in the space provided and return two copies to the Contract Specialist. You should retain the third copy for your records.

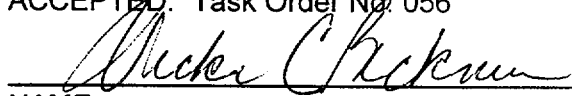
Sincerely,




Sharon D. Stewart, Contracting Officer
Contract Management Branch 2
Division of Contracts and Property Management
Office of Administration

Enclosure: Statement of Work

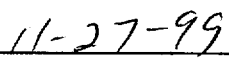
ACCEPTED: Task Order No. 056



NAME



TITLE



DATE

STATEMENT OF WORK
Task Order 056

TITLE: D. C. Cook Engineering Corrective Action Team Inspection

DOCKET NUMBER: 50-315/316 B&R NUMBER: 020-15-103-105 JOB CODE: J-2548
INSPECTION REPORT NUMBER: 50-336/NRC PROJECT OFFICER: E. A. Kleeh, NRR (301) 415-2964
TECHNICAL MONITOR: Martin Farber, RIII (630) 829-9734

PERFORMANCE PERIOD: November 12, 1999 - January 14, 2000

BACKGROUND

An NRC design (AE) inspection completed in September 1997, identified issues that resulted in operability concerns safety related systems and components. The licensee voluntarily shutdown both units of the D. C. Cook plant and identified required corrective actions in a letter to the NRC. CAL 97-011 dated September 19, 1997 formalized the licensee's commitment for the licensee to remain shutdown until compensatory actions were undertaken. Subsequently the licensee by self-assessments and the NRC by additional inspections identified more performance issues that were incorporated into a pre-startup checklist attached to a letter sent from NRC to licensee on July 30, 1998. The items on that checklist had to be resolved by licensee as prerequisites to startup of either D.C. Cook unit. This inspection is being performed to determine the status of licensee corrective actions for those issues contained on that checklist and to verify the acceptability; to evaluate if licensee is maintaining its design basis; and to ensure the operability of selected safety systems in accordance with maintained design basis.

OBJECTIVE

The objective of this task order is to obtain expert technical assistance in the areas of electrical and mechanical design. Seven specialists are needed to assist the NRC inspection team in the resolution of design, performance, and programmatic issues identified in **Confirmative Action Letters (CALs), inspection reports, and LERs (hereafter referred to as inspection reference documents)** and the **D.C. Cook Restart Action Matrix**. Each of the seven specialists (electrical and mechanical) should primarily have a design background in his area of expertise, such as from an architect-engineer firm with experience in design and system operational requirements. The specialists should all be familiar with the installation and surveillance testing of equipment; and how the engineering, operations, and corrective action programs normally function and internally improve themselves. The specialists should be thoroughly familiar with NRC regulations, closure of CALs, resolution of engineering followup and evaluation items, and overall NRC inspection methodology.

The specialists should be familiar with the regulatory process, and should be able to determine relevant regulatory commitments from docketed licensee correspondence for their assigned review areas. The specialists should be able to verify implementation of the licensee's commitments, assess the effectiveness and adequacy of the licensee's corrective-actions, determine if licensee is maintaining the appropriate design basis taking into account design changes and modifications, and evaluate the overall performance and acceptability of broad programmatic areas like engineering, operations, and corrective-action programs. The inspection will be conducted in accordance with IP 27 "Engineering," IP 37700 "Design Changes and Modifications," 40500 "Effectiveness of Licensee Process to Identify, Resolve, and Prevent Problems," and IP 92903 "Followup - Engineering."

It shall be the responsibility of the contractor to assign technical staff, employees, and subcontractors, who have the required combination of educational background and experience to meet both the technical and regulatory objectives of the work specified in this Statement Of Work (SOW). The NRC will rely on representation made by the contractor concerning the qualifications of the personnel proposed for assignment to this task order including assurance that the information contained in the technical and cost proposals, including resumes and conflict of interest disclosures is accurate and truthful.

WORK REQUIREMENTS AND SCHEDULE

The contractor shall provide the qualified specialist, and the necessary facilities, materials, and services to assist the NRC staff in preparing for, conducting, and documenting the inspection activities and findings. The contractor shall provide the latest rad-worker training and MMPI test dates of the specialist to the Project Officer. The Technical Monitor/Team Leader for this task is Martin Farber. The Technical Monitor may issue technical instructions during the duration of the task order that are in accordance with the SOW; and they shall not constitute new assignments of work, or changes in cost or period of performance. The contractor shall refer to the basic contract for further information and guidance on any technical directions issued under this task order.

Modifications to the scope of work, costs, or period of performance of this task order must be issued by the Contract Officer and will be coordinated with the NRR Project Officer.

Specific Tasks

1. Prepare for the Engineering Corrective Action Team Inspection

a. Each specialist will review the CALs issued to the licensee, NRC inspection reports, and LERs for the last thirty months; and the D. C. Cook Restart Action Matrix for the inspection area assigned to him by the Technical Monitor.

b. Examine the effectiveness of licensee's controls based on recent NRC inspections, enforcement history (refer to all inspection reference documents for the last 30 months), and licensee management meetings.

c. Request copies of all inspection reference documents for the last 30 months for the assigned inspection area; licensee's programmatic requirements for identifying and addressing problems; and documents that indicate corrective actions taken for design, performance, and programmatic concerns stated in any inspection reference documents including those self-identified by licensee in determining the true scope of conditions.

2. Perform the inspection

a. Make queries to the licensee on design, performance, and programmatic issues stated in inspection reference documents consistent with the intent of the inspection and assigned inspection area.

Schedule Completion

1. Prepare for the inspection of D.C. Cook at Region III headquarters in Lisle, Illinois on or about November 15 - 19, 1999.

2. Specialists will return to their home offices for an off week from November 22 - 26, 1999 with no inspection activities being performed. On-site inspection is to take place at D. C. Cook on or about November 29 - December 17, 1999. Team will work Saturdays - December 4 and December 11, 1999 in addition to weekdays.

b. Evaluate thoroughly licensee corrective actions for design, performance, and programmatic issues outlined in inspection reference documents with the focus on those with the most safety significance in assigned inspection area.

1.) Effectiveness of corrective actions overall, the corrective-action program, and licensee's controls and self-assessment programs for engineering activities.

2.) Adequacy of root-cause analyses with emphasis on extent of conditions.

3.) Determine if licensee's analyses have effectively identified and addressed all similar issues.

4.) Has licensee performed functional tests where corrective actions involved hardware changes or additions. 5.) Has design requirements been translated correctly into vendor/design specifications for post modification testing.

6.) Refer to IPs 37550, 37700, 40500 and 92903 for additional insights.

c. Respond in a timely manner to licensee's responses to queries made in 2.a.

d. Identify and develop findings as appropriate in accordance with the intent of IPs 37550, 37700, 40500 and 92903.

e. Evaluate that any licensee corrective actions undertaken indicate corresponding changes in plants' design basis and even licensing basis dependent on the relevance of the issues involved

f. Assess the effectiveness of licensee's controls for engineering program in approving plant design modifications; revising design and licensing basis; determining relevant preventive

maintenance; and declaring the systems in which design changes were incorporated as operational.

g. Assess the effectiveness of overall engineering program in regard to design controls, staffing, management, training, qualifications, and coordination with other other site organizations and corporate engineering.

h. Specialist should verify that licensee has appropriately addressed all items in inspection reference documents and the D.C. Cook Restart Action Matrix for his assigned inspection area during the course of the inspection.

3. Prepare the inspection report.

a. Follow the guidelines of NRC INSPECTION MANUAL, Manual Chapter 0610, "Inspection Reports," unless otherwise directed by Technical Monitor.

b. Feeder report should discuss inspection activities, be concise, and focus on safety significant findings based on facts and regulatory requirements.

3. Documentation of inspection will take place on or about December 20 - 31, 1999 in contractor's home office. Forty hours per specialist will be allotted for this activity. Final feeder report input is due on or about January 3, 2000. An additional 10 hours will be allotted to each specialist to respond to Technical Monitor's questions while he is drafting the final inspection report during the period from January 3 - 14, 2000.

NOTE: Prior to the start of either in-office inspection preparation in Region III headquarters or on-site inspection activity the contractor's staff is required to be available to coordinate inspection aspects, such as travel logistics, with the Team Leader/Technical Monitor.

REPORT REQUIREMENTS

Technical Report

At the completion of Task 1, the contractor's specialist shall provide an inspection plan to the NRC Team Leader. The format and scope of this input shall be as directed by the NRC Team Leader.

During Task 2, the contractor's specialist shall provide daily reports to the NRC Team Leader. The format and scope of this report shall be as directed by the NRC Team Leader.

At the completion of Task 2 (prior to the inspection team's debriefing the licensee), the contractor's specialists shall provide a summary of their inspection findings to the NRC Team Leader. The format and scope shall be as directed by the NRC Team Leader. Typically, this input will consist of an electronic version (WordPerfect file on diskette) of the specialist's inspection findings.

At the completion of Tasks 3, the contractor shall send a copy of the final inspection report input (feeder report to the NRC Project Officer and the original and one computer diskette version (WordPerfect 6.1 or other IBM PC compatible software acceptable) to the NRC Team Leader. The format and scope of the final report inputs shall be accordance with the guidance in NRC Inspection Manual Chapter 0610 or as directed by the NRC Team Leader.

A specialist's feeder report will serve as documentation of the specialist's inspection activities, effort, and findings, and will be used by the NRC Team Leader for the preparation of the NRC's inspection report. The form and scope of the final report input shall be in accordance with the guidance in NRC Inspection Manual Chapter 0610 or as directed by the NRC Team Leader. As a minimum, each specialist's report input shall include the following:

- Identity of the individuals (name, company, and title) that provided information to the specialist during the inspection.
- For each area inspected, a description of the activities and general findings and conclusions reached regarding the adequacy of the area.
- For each area with a concern or findings, a discussion of the concerns or findings with technical bases.

NOTE: The contractor is not required to undertake any further efforts toward report finalization except as directed by the Technical Monitor and as stated in the SOW. For example, management review of the feeder report beyond its submission to the NRC Team Leader and Project Officer is not needed.

Business Letter Report

The contractor shall provide monthly progress reports in accordance with the requirements of the basic contract.

MEETINGS AND TRAVEL

For estimating purposes, the following meetings and travel are anticipated:

One, seven-person, 5 day trip to Region III headquarters in Lisle, Illinois to prepare for the inspection on or about November 15 - 19, 1999.

One, seven-person, 19 day trip to the D. C. Cook site near Benton Harbor, Michigan to conduct the onsite phase of the inspection on or about November 29 - December 17, 1999.

NOTE: The contractor's staff shall coordinate all travel arrangements in advance with the NRC Team Leader.

NRC FURNISHED MATERIAL

Documents required to prepare for the inspection will be provided by the NRC Team Leader.

OTHER APPLICABLE INFORMATION

The work specified in this SOW is 100% licensee fee recoverable. The contractor shall provide fee recovery information in the monthly progress reports in accordance with the requirements of the basic contract.

The contractor's specialist assigned to this task order will have to be badged for unescorted access privilege at the plant site. The contractor shall provide all documentation required for badging (as identified by the NRC Team Leader) at the plant site. Questions concerning badging and the plant site access shall be addressed to the NRC Technical Monitor.