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Beverly Acker

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

JAN 14 2000

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

SUBJECT: MODIFICATION NO. 1 TO TASK ORDER NO. 051 UNDER CONTRACT NUMBER NRC-03-98-021

Dear Ms. Beckman:

This confirms the verbal authorization that I gave to you on December 23, 1999, with a temporary ceiling of $1,800.00. The purpose of this modification is to increase the level of effort by 20 hours to allow the specialist to work on areas noted as deficient during the inspection. The period of performance for this additional work is December 23, 1999, through January 7, 2000. Accordingly, the task order is modified as follows:

"Task Order No. 051 shall be in effect from November 5, 1999, through December 3, 1999. Modification No. 1 shall be in effect from December 23, 1999, through January 7, 2000. The total cost ceiling is increased by $836.65 from $23,435.03 to $24,271.68. The amount of $23,507.68 represents the estimated reimbursable costs and the amount of $764.00 represents the fixed fee.

Accounting data for Modification No. 1 to Task Order No. 051 is as follows:

B&R No.:	020-15-103-105
Job Code:	J-2548
BOC:	252A
APPN No.:	31X0200.020
FFS#:	NRR98021051(1)
Oblig. Amt.:	$836.65

The issuance of this modification does not amend any other terms or conditions of the subject contract."

Acceptance of Modification No. 1 to Task Order No. 051 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.

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Should you have any questions relating to this matter, please contact Mona C. Selden, Contract Specialist on (301) 415-7907.

Sincerely,

Barbara Needham

for 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. 051, Modification No. 1

Vicki C. Bachman
NAME

Vice President
TITLE

1-25-00
DATE

CONTRACT NRC-03-98-021

STATEMENT OF WORK
Task Order 051 Modification 1

TITLE: D.C. Cook Instrument Uncertainty 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: Zelig Falevits, NRR (630) 829-9717

PERFORMANCE PERIOD: December 27, 1999 - January 07, 2000

BACKGROUND

An NRC design (AE) inspection completed in September 1997, identified issues that resulted in operability concerns fc safety related systems and components. The licensee voluntarily shutdown both units of the D. C. Cook plant an identified required corrective actions in a letter to the NRC. CAL 97-011 dated September 19, 1997 formalized th commitment for the licensee to remain shutdown until compensatory actions were undertaken. Subsequently the license by self-assessments and the NRC by additional inspections identified more performance issues that were incorporate into a pre-startup checklist attached to a letter sent from NRC to licensee on July 30, 1998. The items on that checkli had to be resolved by licensee as prerequisites to startup of either D.C. Cook unit. This inspection is being performe to check the status of instrument setpoints for some issues identified that checklist and to verify their acceptability.

OBJECTIVE

The objective of this Task Order is to obtain expert technical assistance from one specialist in the performance of a Instrument Uncertainty Inspection at D.C. Cook. The specialist should have an engineering background i instrumentation and controls (I&C) with emphasis on experience, as from architect-engineer firms or consulting firms, i establishing and maintaining setpoints for safety systems in nuclear plants. The specialists should also be familiar wit installation and surveillance testing of instrumentation mainly in the verification and calibration of process setpoints. Th specialist should be thoroughly familiar with NRC regulations, inspection methodology, and the regulatory process. H should be able to develop a list of regulatory commitments from docketed licensee correspondence for the plant system(s or components associated with the setpoints being reviewed. The specialist should be able to verify the implementatio of those same licensee commitments and assess the effectiveness of the licensee's actions. The specialist should b endocrinated with the concepts of the NRC's risk-informed inspection program. The inspection will be conducted i accordance with IPs 92903 "Followup - Engineering" and 93807 "Systems Based Instrumentation and Control Inspection.

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

WORK REQUIREMENTS AND SCHEDULE

The contractor shall provide the qualified specialist, and the necessary facilities, materials, and services to assist the NR(staff in preparing for, conducting, and documenting the inspection activities and findings. The contractor shall provid the latest rad-worker training and MMPI test dates of the specialist to the Project Officer. The Technical Monitor/Tear Leader for this task is Zelig Falevits. The Technical Monitor may issue technical instructions from time to time during th duration of this task order. Technical instructions must be within the general statement of work stated in this task orde and shall not constitute new assignments of work or changes of such nature as to justify an adjustment in cost or perio of performance. The contractor shall refer to the basic contract for further information and guidance on any technica directions issued under this task order.

Any modifications to the scope of work, cost or period of performance of this task order must be issued by the Contractin Officer and will be coordinated with the NRR Project Officer. Specific tasks under this task order are:

Task	Schedule Completion
1. Prepare for the Instrument Uncertainty Inspection. a. Review the Startup Checklist items specific to instrument setpoints. b. Request and read with deliberation the documentation related to the setpoints for the assigned review area for this inspection. c. Develop an inspection plan that is both flexible and comprehensive that defines tasks and goals to be accomplished during the onsite inspection week. d. Review the CAL related inspection reports, LERs, and Manual Chapter 0350 open items.	1. Prepare for the instrument uncertainty inspection for D.C. Cook at Region III main office in Lisle, Illinois on or about November 8 - 12, 1999.
2. Perform the inspection a. Make queries to the licensee on setpoint methodology, surveillance testing, and setpoint tolerances and uncertainties relevant to the intent of the inspection. b. Evaluate thoroughly the setpoints contained in the assigned review area. 1.) Calculated in accordance with methodologies defined in NRC topical reports, Regulatory Guides, or industry standards. 2.) Utilize correct inputs from Tech Specs, accident analyses, or design basis document. 3.) Verify that effects of physical elevation, density ranges, and temperature ranges are appropriately considered. 4.) Verify that trip setpoint have sufficient margins from both the analytical and safety limits after taking into account instrument errors, instrument loop accuracies, and relevant uncertainties. 5.) Evaluate the assumptions for inclusion of both errors and uncertainties for various	2. On-site inspection is to take place at D.C. Cook site on or about November 15 - 19, 1999.

component into the calculation of the setpoints.

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

d. Identify and develop findings in accordance with the intent of IP 93807.

e. Verify that licensee corrective actions for any setpoint related problems are both appropriate and effective for resolution of the issue in accordance with IP 92903.

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 November 22 - 26, 1999 in contractor's home office. Final feeder report input is due on or about November 29, 1999.

4. Contractor specialist is to review the CAL 009 closure package provided by licensee on about 12/17/99. Attention should focus on areas noted as deficient during the inspection performed under Task 2.

a. Review of process to control plant procedure revisions in regard to identifying instrument uncertainties.

b. Licensee's progress toward Unit 2 startup by assigning and categorizing instrument uncertainties.

4. Contractor specialist is to complete the review of additional work during the period from 12/27/99 to 01/07/00.

REPORT REQUIREMENTS

Technical Report

At the completion of Task 1, the contractor's specialist shall provide an inspection plan to the NRC Team Leader. Th 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 scop 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 specialist shall provid a summary of their inspection findings to the NRC Team Leader. The format and scope shall be as directed by the NR Team Leader. Typically, this input will consist of a handwritten summary 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 repor to the NRC Project Officer and the original and one computer diskette version (WordPerfect 5.1/6.1 or other IBM P compatible software acceptable to the NRC Team Leader) to the NRC Team Leader. The format and scope of the fin report inputs shall be in accordance with the guidance in NRC Inspection Manual Chapter 0610 or as directed by the NR Team Leader.

A specialist's feeder report will serve as documentation of the specialist's inspection activities, effort, and findings, an will be used by the NRC Team Leader for the preparation of the NRC's inspection report. The form and scope of the fin report input shall be in accordance with the guidance in NRC Inspection Manual Chapter 0610 or as directed by the NR 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 inspectio
- For each area inspected, a description of the activities and general findings and conclusions reached regarding th 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. For exampl management review of the feeder report beyond its submittal to the NRC Team Leader and Project Officer is not neede

Task 4 is for the additional work that was identified as requiring review subsequent to the final exit meeting with th licensee. Contractor specialist is to include the review of this additional material into his feeder report if so directed b the Team Leader.

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, one-person, 5 day trip to Region III in Lisle, Illinois to prepare for instrument uncertainty inspection on or abo November 8 -12, 1999.

One, one-person, 5 day trip to the D.C. Cook site near Benton Harbor, Michigan on or about November 15 to 19, 199 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 informatio 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 plar site. The contractor shall provide all documentation required for badging (as identified by the NRC Team Leader) at th plant site. Questions concerning badging and the plant site access shall be addressed to the NRC Technical Monito