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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

NOV 04 1999

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

SUBJECT: TASK ORDER NO. 054, "QUAD CITIES SAFETY SYSTEM DESIGN AND PERFORMANCE CAPABILITY INSPECTION (SSDPCI)" UNDER CONTRACT NO. NRC-03-98-021

Dear Ms. Beckman:

This confirms the verbal authorization provided to Vicki Beckman on October 22, 1999, to begin work under the subject task order, effective October 22, 1999, with a temporary ceiling of \$10,000.00, pending definitization of the task order. Funding in the amount of \$35,627.54 obligated at this time, includes the \$10,000.00 temporary ceiling.

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. 054 shall be in effect from October 22, 1999, through December 10, 1999, with a total cost ceiling of \$35,627.54. The amount of \$34,506.09 represents the estimated reimbursable costs and the amount of \$1,121.45 represents the fixed fee.

Accounting data for Task Order No. 054 is as follows:

B&R No.:	020-15-103-105
Job Code:	J-2548
BOC:	252A
APPN No.:	31X0200.020
FFS#:	NRR98021054
Oblig. Amt.:	\$35,627.54

The following individual is considered to be essential to the successful performance of work hereunder: Mr. Omar Mazzoni. 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.

PDR CONTR

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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. 054 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.

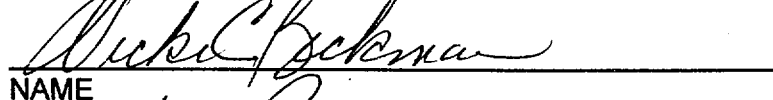
Sincerely,



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

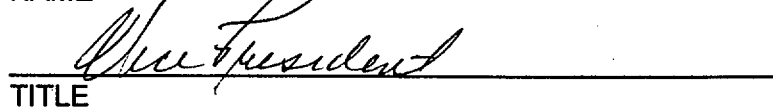
Enclosure: Statement of Work

ACCEPTED: Task Order No. 054



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NAME



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TITLE

11-10-99

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DATE

STATEMENT OF WORK  
Task Order 054

TITLE: Quad Cities Safety System Design and Performance Capability Inspection (SSDPCI)

DOCKET NUMBER: 50-254/265 B&R NUMBER: 020-15-103-105 JOB CODE: J-2548  
INSPECTION REPORT NUMBER:

NRC PROJECT OFFICER: E. A. Kleeh, NRR (301) 415-2964  
TECHNICAL MONITOR: Patricia Lougheed, Region III (630) 829-9760

PERFORMANCE PERIOD: October 22, 1999 - December 10, 1999

### BACKGROUND

A Safety System Design and Performance Capability Inspection (SSDPCI) will be conducted for the Quad Cities nuclear plant near Moline, Illinois. The SSDPCI will assess the operational performance capability of selected safety system(s) to verify that the system is capable of performing its intended safety function. The inspection will assess the licensee's engineering effectiveness through an in-depth review of calculations, analysis, and other engineering documents used to support system performance during normal and accident or abnormal conditions. The inspection will also verify completed actions for regulatory commitments that the licensee made in conjunction with the safety systems. Draft NRC Pilot Inspection Procedure 71111-21 "Safety System Design and Performance Capability" will provide the primary basis for the review conducted during this inspection.

### OBJECTIVE

The objective of this task order is to obtain expert technical assistance in the areas of electrical/I&C design. The specialist is needed to assist the NRC inspection team in the performance of the SSDPCI. The electrical/I&C specialist should primarily have a design background, such as from an architect-engineer or consulting firm with experience in design analysis, installation, and testing of instrumentation and electric power systems, respectively. The specialist should be thoroughly familiar with NRC regulations, inspection methodology, and current NRC risk-informed inspection program.

It shall be the responsibility of the contractor to assign technical staff, employees, and subcontractors, who have the required educational background, experience, or combination thereof, 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 all 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; drug/alcohol test; and MMPI test dates of the specialist that will assist in the SSDPCI at Quad Cities to the NRC Project Officer. The Technical Monitor/Team Leader for this task is Patricia Lougheed. The Technical Monitor may issue technical instructions from time to time during the duration of this task order. Technical instructions must be within the general statement of work stated in this task order and shall not constitute new assignments of work or changes of such nature as to justify an adjustment 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.

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

## Task

1. Prepare for the inspection.
  - a. Obtain a thorough understanding of the selected system(s) by review of licensee provided documentation. Annotate the provided preparation checklist as necessary.
  - b. Develop a list of questions or areas of concern, including the reason for the question. This list to be shared with NRC team members for training purposes.
  - c. Inspection preparation will include both individual work and team meetings, including discussion of review techniques with team members.
2. Perform the inspection.
  - a. Review the documentation requested from licensee and make queries in line with the intent of the inspection.

## Schedule Completion

1. Inspection preparation will take place at the Region III office in Lisle, Illinois on or about October 25- 29, 1999.

On-site inspection is to take place on or about November 1 - 5; and on or about November 15 - 19, 1999. Review of documentation, licensee inquiries, and other inspection-related activities will be conducted in contractor's home offices about or during the of week of November 8 - 12, 1999.

- b. Evaluate thoroughly the design and licensing basis, lineups during normal and emergency operation, functional requirements for system, the agreement between surveillance test procedures and design/licensing basis, and other areas that may contain potential discrepancies so as to complete a thorough assessment of the assigned review area. Discuss evaluation methods and results with NRC team members.

- c. Any potential observations or findings shall be discussed with the Team Leader or an inspector trained in the NRC pilot risk-based inspection program.

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 - 30, 1999 in contractor's home office. Final inspection report input is due on or about December 01, 1999.

NOTE: Prior to the start of the on-site preparation, the contractor's staff is required to coordinate inspection aspects, such as travel logistics, with the Team Leader.

## 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 exit meeting with the licensee), the contractor's specialist shall provide a draft inspection report input to the NRC Team Leader. The format and scope shall be as directed by the NRC Team Leader. Typically, this input will consist of a handwritten summary of the specialist's inspection findings.

At the completion of Task 3, the contractor shall deliver a copy of final inspection report input (feeder report) to the NRC Project Officer with one hard copy and one electronic version (WordPerfect or other IBM PC compatible software acceptable to the NRC Team Leader) to the NRC Team Leader. The format and scope of the final report inputs shall be in 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 feeder 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. For example, management review of the feeder report beyond its submittal to the NRC Team Leader and Project Manager 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 only, the following meetings and travel are anticipated:

One, one-person, 5-day trip to the Region III office to prepare for the inspection (October 25-29, 1999). Off-normal travel permitted up to half-day for each contractor to ensure early arrival at business office on Monday morning.

Two, one-person, 5-day trips to the Quad Cities site to conduct the initial inspection. (November 01 - 05, 1999; and November 15 - 19, 1999.) Off-normal travel permitted up to half-day for each contractor to ensure early arrival at plant site office on Monday morning.

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. Questions concerning badging and plant site access shall be addressed to the NRC Technical Monitor.