



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

SEP - 4 2003

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

SUBJECT: TASK ORDER NO. 014 "CONSTRUCTION INSPECTION PROGRAM -
DEVELOPMENT OF INSPECTION REQUIREMENTS ON SAMPLE SELECTION
FOR EXISTING WELDING AND CABLE-PULLING INSPECTION
PROCEDURES" UNDER CONTRACT NO. NRC-03-03-037

Dear Ms. Beckman:

This confirms the verbal authorization that was provided to Beckman and Associates, Inc. (BAA), effective July 18, 2003, to begin work under the subject task order, with a temporary ceiling of \$30,000.00.

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. 014 shall be in effect from July 18, 2003, through November 8, 2003, with a cost ceiling of \$64,253.95. The amount of \$61,821.13 represents the estimated reimbursable costs, and the amount of \$2,432.82 represents the fixed fee.

Accounting data for Task Order No. 014 is as follows:

B&R No.:	320-15-115-107
Job Code:	J-3096
BOC:	252A
APPN No.:	31X0200.320
FFS#:	NRR03037014 and NRR03037014(I)
Oblig. Amt.:	\$61,433.25

Incremental funds in the amount of \$61,433.25 are being obligated under this task order. The obligated amount shall, at no time, exceed the task order ceiling. When and if the amount(s) paid and payable to the Contractor hereunder shall equal the obligated amount, the Contractor shall not be obligated to continue performance of the work unless and until the Contracting Officer shall increase the amount obligated with respect to this task order. Any work undertaken by the Contractor in excess of the obligated amount specified above is done so at the Contractor's sole risk.

The following individual is considered to be essential to the successful performance for work hereunder: [REDACTED] 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.

TEMPLATE - ADM001

ADM002

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

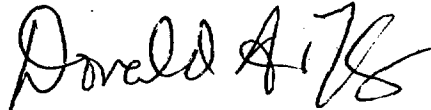
Your contacts during the course of this task order are:

Technical Matters: Donald P. Norkin
Project Officer
(301) 415-2954

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

Acceptance of Task Order No. 014 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,



Donald A. King, Contracting Officer
Contract Management Center 1
Division of Contracts
Office of Administration

Enclosure: Statement of Work

ACCEPTED: Task Order No. 014

Alvin C. Johnson
NAME

CEO
TITLE

9-11-03
DATE

CONTRACT NRC-03-03-037

STATEMENT OF WORK
Task Order No. 14

TITLE: Construction Inspection Program - Development of Inspection Requirements on Sample Selection for Existing Welding and Cable-Pulling Inspection Procedures.

B&R NUMBER: 320-15-115-107
JOB CODE: J-3096

NRC PROJECT OFFICER: Donald Norkin, NRR, (301) 415-2954
TEAM LEADER: Chuck Paulk, Region IV, (817) 860-8236

PERIOD OF PERFORMANCE: 07/21/03 - 11/08/03

BACKGROUND

10 CFR Part 52 describes a process for issuing a combined license (COL) for nuclear power plants. A COL is a single license authorizing construction and operation of a nuclear power facility. A COL will include inspections, tests, analyses and acceptance criteria (ITAACs) to give reasonable assurance that the facility has been constructed and will operate consistent with the license, the provisions of the Atomic Energy Act, and NRC regulations. Section 52.99 states, in part, that "the Commission shall ensure that the required inspections, tests, and analyses are performed and, prior to operation of the facility, shall find that the prescribed acceptance criteria are met". The continuing development of a Construction Inspection Program (CIP) under 10 CFR Part 52 necessitated that inspection program outlines, based on existing inspection guidance, be originated for the verification of the various ITAACs for the AP600 and ABWR advanced reactor designs. In some cases, it will be necessary to consolidate some of the existing inspection guidance into generic inspection procedures to promote increased effectiveness and efficiency during their implementation.

OBJECTIVE

The objective of this task order is to obtain expertise for the development of inspection requirements on sample selection for existing welding and cable-pulling inspection procedures (IPs). The methodologies utilized will be in accordance with the CIP Framework Document, Appendix C for the verification of ITAACs for the ABWR and/or AP600 advanced reactor designs. Sample selection shall be based on the optimum combination of the following: the degree of ITAAC verification required, statistical methods, risk-significance of the respective systems, and the licensee's QA program especially in regard to the thoroughness of any corrective action. The specialist(s) shall have experience/knowledge regarding:

- (1) Task Order 140 for contract NRC-03 -98-021
- (2) NRC construction inspection program
- (3) NRC regulations and risk informed inspection methodology.

Attachment

(4) Welding requirements in accordance with ASME Code for different weld materials, weld processes, and shaped components common to a nuclear plant.

(5) Cable-pulling requirements in accordance with industry standards.

WORK REQUIREMENTS AND SCHEDULE

It shall be the responsibility of the contractor to assign qualified 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.

The Team Leader may issue technical direction from time to time during the duration of this task order. Technical direction 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 Project Officer. Specific tasks under this task order are:

1. Review the following:

- Draft 10 CFR Part 52 Construction Inspection Program Framework Document
- Deliverables for SOW 140 (NRC contract NRC-03-98-021)
- NRC IP 55050, "Nuclear Welding General Inspection Procedure"
- NRC IP 55100, "Structural Welding General Inspection Procedure"
- NRC IP 51063, " Electrical Cable - Work Observation"
- NRC IMC 0040, "Preparing, Revising, and Issuing Documents for the NRC Inspection Manual"

2. Assuming that a plant will be constructed using modular construction techniques and that there are four separate facilities in which modules for either the ABWR or the AP600 advanced designs will be fabricated, determine the number of independent samples that will be required for each of the IPs listed in Step 1 for the ABWR and/or the AP600 designs.

3. Develop the basis for sample selection for each of the independent samples associated with IP 55050.

4. For IP 55050, develop the inspection requirements in accordance with the four methodologies (the degree of ITAAC verification required, statistical methods, risk-significance of the respective systems, and the licensees QA program especially in regard to the thoroughness of any

corrective action) outlined in Appendix C of the Draft 10 CFR Part 52 Construction Inspection Program Framework Document. All those inspection requirements shall also utilize the Sign As You Go (SAYGO) process.

5. Brief the CIP Team on the basis for sample selection and the inspection requirements for IP 55050.

6. After CIPMS has been loaded with the construction schedule and ITAACs for the ABWR and/or AP600 advance reactor design, assign resources on a weekly basis for IP 55050.

7. Repeat steps 3 and 4 for IPs 55100 and 51063.

8. Brief the CIP Team on the final results.

Work is to begin on, or about, July 21, 2003 and run continuously for approximately 15 weeks.

REPORT REQUIREMENTS

During the performance of Tasks 3, 4, and 7, the contractor shall coordinate with the Team Leader to determine the format of the written documentation. The Team Leader will provide the basic information and assumptions to be used in developing the programs/requirements.

A draft of the program/requirements for the revised existing IPs and/or first basis document and first IP will be provided to the Team Leader prior to the contractor briefing the team.

A final report for the project shall be provided to the Team Leader prior to the final briefing of the CIP Team.

TRAVEL (for estimating purposes only)

Three 1-day trips to the Region office.

One 1-day trip to Westinghouse, Pittsburgh, PA

The contractor shall coordinate all travel arrangements in advance with the NRC Team Leader.

NRC FURNISHED MATERIAL

Documents required to complete the project will be provided by the NRC Team Leader.

OTHER APPLICABLE INFORMATION

The work specified in this SOW is not licensee fee recoverable.