



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

Parameter, Inc.
ATTN: Richard A. Lofy
13380 Watertown Plank Road
Elm Grove, Wisconsin 53122

Dear Mr. Lofy:

Subject: Task Order No. 12 Under Contract No. NRC-03-89-027 Entitled
"Electrical Distribution System Functional Inspection - Haddam
Neck" (FIN L-1342)

This letter confirms verbal authorization provided to Lou Albers by Brenda DuRose, of my staff, to commence work on the subject Task Order effective January 22, 1991, with a temporary ceiling of \$10,000.00.

In accordance with Section G.5, Accelerated Task Order Procedures, of the subject contract, this letter definitizes Task Order No. 12. This effort shall be performed in accordance with the enclosed Statement of Work and Parameter Inc.'s proposal dated January 25, 1991, incorporated herein by reference.

The period of performance for Task Order No. 12 is January 22, 1991 through March 1, 1991. The total cost ceiling is \$27,158.66. This amount includes the \$10,000 that was verbally authorized. The amount of \$26,527.50 represents the total reimbursable costs, the amount of \$15.72 represents the facilities capital cost of money, and the amount of \$615.44 represents the fixed fee.

Accounting data for Task Order No. 12 is as follows:

B&R No.:	020-19-14-02
FIN No.:	L-1342-0
Appropriation No.:	31X0200.200
Obligated Amount:	\$27,158.66
(This amount has been obligated under the basic contract.)	

The following individual is considered by the Government to be essential to the successful performance of the work hereunder:

N. Rivera

FEB 04 1991

Richard A. Lofy

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Task Order No. 12
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The contractor agrees that such personnel shall not be removed from the effort under this task order without compliance with Contract Clause H.1 - Key Personnel.

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

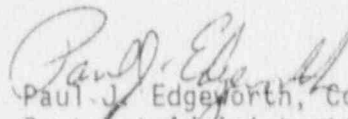
Your contacts during the course of this task order are:

Technical Matters: Bernard L. Grenier
Project Officer
(301) 492-1217

Contractual Matters: Brenda J. DuBose
Contract Management Assistant
(301) 492-7442

Acceptance of Task Order No. 12 should be made by executing three copies of this document in the space provided and returning two copies to the Contract Administrator. You should retain the third copy for your records.

Sincerely,



Paul J. Edgeworth, Contracting Officer
Contract Administration Branch No. 1
Division of Contracts and
Property Management
Office of Administration

ACCEPTED: Task Order No. 12

NAME

TITLE

DATE

Richard A. Lofy

PRJ

2/8/91

STATEMENT OF WORK FOR TASK ORDER NO. 12
UNDER CONTRACT NO. NRC-03-89-021 (FIN L-1342)

TITLE: Electrical Distribution System Functional Inspection - Haddam Neck

INSPECT REPORT NUMBER: 50-213/91-20

LEAD INSPECTOR: Roy Mathew

BACKGROUND

An electrical Distribution Functional Inspection will be conducted at the Haddam Neck Nuclear Power Plant. This inspection will access, on a sample basis, the design, operation, maintenance and surveillance of the as configured electrical distribution system, including modifications made since receipt of the operating license. The inspection is to be performed in accordance with Temporary Instruction 2515/107.

OBJECTIVE

The objective of this task order is to obtain expert technical assistance to assist the NRC inspection team in the performance of the subject Electrical Distribution Functional Inspection.

TECHNICAL QUALIFICATIONS REQUIRED

Provide all advance information required for badging to the NRC Team Leader and provide all documentation required before badging (as identified by the Team Leader) at the plant site. Questions concerning badging and plant site access shall be addressed to the NRC Team Leader.

WORK REQUIREMENTS

The contractor shall provide the qualified specialist to assist the NRC staff in preparing for and conducting the subject EDSFI and documenting the inspection activities and findings. Specific tasks under this Task Order are:

<u>Task</u>	<u>Scheduled Completion</u>
1. Prepare for the subject inspection by reviewing inspection-related background documentation and records provided by the NRC Team Leader and prepare input to the inspection plan.	One day prior to the inspection.
2. Perform the inspection which consists of ensuring that:	
(a) The installed configuration of the EDS in agreement with the facility drawings such as the Q-list, set-point list, and equipment location	The inspection preparation is scheduled to take place on or about January 28 through February 1, 1991.

2(a) continued:

- drawings and that appropriate physical separation has been maintained between redundant electrical divisions and internal plant hazards.
- (b) The EDS meets the appropriate regulatory requirements and licensing commitments.
 - (c) Electrical motive and control power of the correct frequency and adequate voltage is available on demand to assure components will function as required to achieve safe shutdown and mitigate accident consequences.
 - (d) Proper logic for system actuation, operation, control and protection has been incorporated in the system. Review of proper logic includes review of control logic diagrams, and ladder diagrams of programmable controllers, to verify that proper interlocks and permissive have been included in the design to achieve the required design functions of systems and components.
 - (e) Setpoints have been correctly chosen for over current protective relays to:
 - (1) assure proper breaker coordination between different voltage levels
 - (2) to prevent exceeding the vendor specified thermal limits on motors, containment electrical penetrations and cable insulation systems;
 - (3) to allow starting of electrical equipment under degraded voltage conditions; and
 - (4) to provide adequate pre-trip alarms, when applicable.

A pre-inspection visit to the site is scheduled for January 22-24, 1991. The inspection is to take place on or about February 4-8 and February 19-22, 1991 with an intervening home-office review period on February 11-15, 1991.

During Task 2, each contractor specialist shall provide daily reports to the NRC Team Leader. The format and scope of these reports shall be as provided by the NRC Team Leader.

At the completion of Task 2 (prior to the inspection team's exit meeting with the licensee) each contractor specialist shall provide a draft inspection report input to the NRC Team Leader. The format and scope of this input shall be as provided by the NRC Team Leader. Typically, this input will consist of handwritten summary of the specialist's inspection findings.

At the completion of Task 3, the contractor shall deliver each specialist's final inspection report input (feeder report) to the NRC Project Manager (original and one copy) with one hard copy and one computer diskette version (IBM Displaywrite 3 or 4, 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 as provided by the NRC Team Leader. Each specialist's feeder report will serve as documentation of the specialist's inspection activities, efforts, and findings, and will be used by the NRC Team Leader for the preparation of the NRC's inspection report. As a minimum, each specialist reports input shall include the following:

- ° Identify the individual's (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 concern of finding with technical basis.

MEETINGS AND TRAVEL

One one-person, three day trip to the Haddam Neck plant site, located in Haddam Neck, Connecticut.

Two one-person five-day trips to the Haddam Neck plant site.

One one-person, five-day trip to Region I office to assist NRC in documentation of inspection activities.

NRC FURNISHED MATERIAL

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