



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

APR 17 1992

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

Dear Mr. Lofy:

Subject: Task Order No. 33 Under Contract No. NRC-03-89-027 Entitled
"James A. Fitzpatrick Nuclear Power Plant Safety System"
Functional Inspection" (FIN L-1343)

This letter confirms verbal authorization provided to Lou Albers by Brenda DuBose, of my staff, on April 1, 1992 to commence work under the subject task order effective April 1, 1992 with an established ceiling of \$55,133.01.

In accordance with Section G.6, Task Order Procedures, of the subject contract, this letter definitizes Task Order No. 33. This effort shall be performed in accordance with the enclosed Statement of Work and Parameter Inc.'s technical proposal dated March 18, 1992, incorporated herein by reference.

The period of performance for Task Order No. 33 is April 1, 1992 through May 15, 1992. The total cost ceiling is \$55,133.01. The amount of \$53,860.80 represents the total reimbursable costs, the amount of \$22.64 represents the facilities capital cost of money, and the amount of \$1,249.57 represents the fixed fee.

Accounting data for Task Order No. 33 is as follows:

B&R No.:	220-19-14-03-0
FIN No.:	L-1343-2
Appropriation No.:	31XU200.220
Obligated Amount:	\$55,133.01

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

Robert Bell
Raymond Cooney

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.

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PDR CONTR
NRC-03-89-027 PDR

Richard A. Lofy

Contract No. NRC-03-89-027
Task Order No. 33
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The issuance of this task order does not amend any terms or conditions of the subject contract.

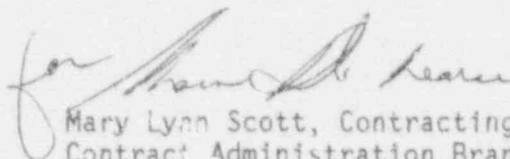
Your contacts during the course of this task order are:

Technical Matters: Brian E. Thomas, Project Officer
(301) 504-1210

Contractual Matters: Brenda J. DuBose, Contract Administrator
(301) 492-7442

Please indicate your acceptance of this task order 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 Administrator. You should retain the third copy for your records.

Sincerely,



Mary Lynn Scott, Contracting Officer
Contract Administration Branch No. 1
Division of Contracts and
Property Management
Office of Administration

Enclosure:
As stated

ACCEPTED: Task Order No. 33

NAME

TITLE

DATE

RES.

4/22/92

Contract NRC-03-89-027
Paramater, Inc.

STATEMENT OF WORK

TITLE: JAMES A. FITZPATRICK NUCLEAR POWER PLANT SAFETY SYSTEM FUNCTIONAL INSPECTION

PROJECT NUMBER: 50-333

B&R NUMBER: 220-19-14-03 FIN: L-1343-2

NRC PROJECT MANAGER: Brian Thomas, NRR (301) 504-1210, FTS 964-1210

TECHNICAL MONITOR: Hai-Boh Wang, NRR (301) 504-2958, FTS 964-2958

NRC TEAM LEADER: Jim Trapp, Region I, (215) 337-5186, FTS 346-5186

PERIOD OF PERFORMANCE: April 1, 1992 through May 15, 1992

I. BACKGROUND

Safety System Functional Inspection (SSFI) will be conducted to review the emergency service water system (ESW) at the James A. Fitzpatrick Nuclear Power Plant in Oswego, New York. The inspection will evaluate, on a sampling basis, the adequacy of the emergency service water system design. Team members will examine system design, operation, maintenance, surveillance testing, and quality assurance aspects. The inspection will be performed in accordance with a draft Temporary Instruction on Service Water and the NRC Inspection Manual Chapter on Safety System Functional Inspections. Both will be provided by the Team Leader prior to the start of the inspection.

II. OBJECTIVE

The objective of this task order is to obtain expert technical assistance (one mechanical and one electrical system design engineer) to assist the NRC inspection team in the performance of the subject emergency service water system Safety System Functional Inspection.

III. DESIRED EXPERIENCE

The mechanical and electrical system design engineers shall be thoroughly familiar with the design requirements of nuclear plant emergency service water systems, NRC inspection techniques, standard U.S. nuclear industry design practices and regulatory requirements, and have had both design and supervisory experience at an architect engineering firm. Both candidates shall have been on past NRC inspections, preferably on a service water inspection or other SSFI.

IV. WORK REQUIREMENTS

The work specified in this statement of work falls within Section C.1.3 of the basic contract statement of work. The contractor shall provide the qualified specialists, and the necessary facilities, material, and services to assist the NRC staff in preparing for, conducting, and documenting the inspection activities and findings for the subject emergency service water Safety System Functional Inspection. Specific tasks under this task order are:

Tasks

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.
2. Perform the subject inspection.
The mechanical and electrical system design engineers will be assigned specific inspection tasks by the Team Leader. These will include: review the Emergency Service Water System (ESW) design bases and design calculations and analysis to assure ESW functionality, verify that system thermal hydraulic performance requirements are satisfied, evaluate ESW single failure vulnerabilities, verify adequacy of design features to detect and prevent systems biofouling and other forms of flow degradation, isolation of safety from non-safety portions of the system under accident conditions, review sample of modification packages, and review electrical separation and electrical power requirements.
3. Prepare inspection report input.

Completion Schedule

Preparation will be conducted on or about April 6-10, 1992, in the NRC Region I office.

The inspection is to take place on or about April 13-17, 1992, and April 27 - May 1, 1992, with an intervening home-office review period on April 20-24, 1992.

Documentation of the inspection report at the contractor's Office on or about the week of May 4-8, 1992.

NOTE: The contractors will receive escorted access at the site.

V. DOCUMENTATION:

At the completion of Task 1, provide inspection plan input to the NRC Team Leader. The format and scope of this input shall be as provided by the NRC Team Leader.

At the completion of the first inspection week the contractor's specialists 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 Team Leader, this input will consist of a handwritten summary of the specialist's inspection findings.

At the completion of Task 3, the contractors shall deliver the specialist's final inspection report input to the Team Leader with one hard copy and one computer diskette version in WordPerfect 5.0. The format and scope of the final report inputs shall be as provided by the NRC team leader.

The specialist's 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, the specialist's report input shall include the following:

- Identity of the licensee's individuals (name and title) that provided information to the specialist's during the inspection.
- For each area inspected, a description of the scope of what was to be inspected; the findings of the inspection in the area inspected, and an overall conclusions and assessment of the area reviewed.
- For each area or concern or unsatisfactory finding, a discussion of the concern or finding with the technical and regulatory bases for the finding.

VI. NRC FURNISHED MATERIAL

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

VII. MEETINGS AND TRAVEL

One, two-person, five day trip to the Region I office to assist NRC in preparing the inspection.

Two, two-person, five day trips to the plant site in Oswego, NY to assist NRC in conducting the inspection.

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

VIII. ESTIMATED LEVEL OF EFFORT

<u>Number</u>	<u>Discipline</u>	<u>Hours</u>
1	Project Manager	30
1	Mechanical System Engineer	220
1	Electrical System Engineer	220
1	Support Staff	10

The estimated level of effort of the specialists consists of 40 hours of inspection preparation, 100 hours for two on-site inspection activities, 40 hours for home office inspection related review during the intervening period between the on-site inspection periods and 40 hours for inspection documentation at the Regional office as requested by the Team Leader.