



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

APR 24 1979

Commander
Naval Surface Weapons Center
ATTN: Code R15
Dahlgren, VA 22448

Gentlemen:

Subject: Interagency Agreement No. NRC-03-79-153

Pursuant to the authority contained in the Economy Act of 1932, as amended, 31 USC (686), the Nuclear Regulatory Commission (NRC) and the Naval Surface Weapons Center (NSWC) desire to enter into a cooperative agreement whereby NSWC would provide consulting services to the NRC in the area of "Effects on Explosives."

Accordingly, the Parties hereto mutually agree to the following terms of this agreement:

I. Period of Performance

The period of performance is May 1, 1979 through April 30, 1981.

II. Scope of Work

Under this agreement, NSWC will provide consulting services on an as-needed basis as follows:

- a) Provide technical assistance in the analysis of shock wave effects on nuclear power plant safety related structures;
- b) Technical assistance on the capabilities of various chemical compounds, including flammable liquified and/or compressed gases to generate explosive shock waves for specific plant reviews.
- c) Provide guidance in the preparation of reports on explosion effects;
- d) Provide expert testimony at hearings (as required); and
- e) Assist in evaluation of capability of safety related structures to withstand explosion shock waves.

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III. Reporting Requirements

1. A report is required at the completion of any identified segment of work.
2. Quarterly status reports shall be submitted to the NRC technical contact and the Division of Contracts. These reports should contain a listing of the work completed during the period and an estimate of the expenditures during the quarter, including cumulative to date.

IV. Estimate of Cost

The present estimate of cost of the effort described in paragraph II above is \$15,000.00.

V. Obligation of Funds

The amount presently obligated hereunder for the effort described is \$5,000.00, chargeable to the following B&R and FIN No.:

B&R: 20-19-01-02.1

FIN: B 6812-9

Additional obligations to cover the remainder of costs will be provided through unilateral modification to this agreement, subject to the availability of funds, until such obligations total \$15,000.00.

VII. Billing Instructions

NSWC, to receive reimbursement for costs incurred, shall quarterly submit a properly executed SF 1080, "Voucher and Schedule of Payment", to U.S. Nuclear Regulatory Commission, Office of the Controller, Washington, DC 20555, in three (3) copies and in two (2) copies to the Contracting Officer. NSWC should number each invoice consecutively and place the following legend on each invoice:

Two copies of the voucher have been submitted to the Contracting Officer.

VIII. Advance Notification

Whenever NSWC has reason to believe that the total cost of the work under this agreement will be substantially greater or less than the presently estimated cost of the work or whenever NSWC expects to incur costs in excess of the funds presently obligated, NSWC shall promptly notify NRC in writing. When the costs incurred equal 100% of such estimated total costs, NSWC shall not incur costs in excess of the estimated cost.

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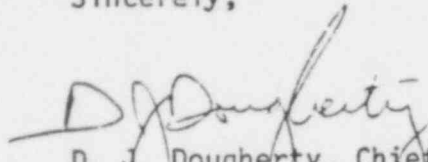
IX. NRC Contacts

Technical Contact: The NRC technical contact for the work hereunder is Mr. J. Reed, Division of Site Safety and Environmental Analysis, telephone number (301) 492-7917.

Contracts Contact: The NRC contact is Mr. A. F. Glagola, telephone number (301) 427-4480.

If this agreement is acceptable to NSWC, please so indicate by signing in the space below and returning three (3) copies to me. The fourth copy is for your records.

Sincerely,



D. J. Dougherty, Chief
Technical Assistance Contracts Branch
Division of Contracts
Office of Administration

ACCEPTED:

BY:  _____

M. BROWN
By direction

TITLE: _____

DATE: 15 MAY 1979 _____

~~Acceptance on a Reimbursable Basis~~

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