

TASK AGREEMENT
BETWEEN
THE U. S. NUCLEAR REGULATORY COMMISSION
AND
BATTELLE COLUMBUS LABORATORIES
FOR
"MARCH SIMULATION OF THE FIRST 190 MINUTES
OF THE TMI TRANSIENT"

This Task Agreement No. 11 is effective March 30, 1979 under Contract No. NRC-04-76-293 between the parties and is subject to all applicable provisions of said contract, and to the provisions set forth below:

1. Identification - This Task Agreement shall be identified as Contract No. NRC-04-76-293-11.
2. Scope of Work - The Contractor shall perform the classified work set forth in Appendix A hereto and by this reference made a part of this Task Agreement No. 11.
3. Term - The term of this Task Agreement No. 11 shall be from March 30, 1979 through May 31, 1979 unless sooner as elsewhere provided in this contract or extended by mutual agreement.
4. Estimates of Cost, Fixed Fee, Obligation of Funds
 - A. Estimates of Cost - The presently estimated cost of the work under this Task Agreement No. 11 exclusive of Contractor's fixed fee is \$52,807.00.
 - B. Fixed Fee - The fixed fee payable to the Contractor for the performance of the work under this Task Agreement No. 11 is \$5,249.00.
 - C. Obligation of Funds - The total amount presently obligated with respect to this Task Agreement No. 11 is \$58,056.00.
5. Reports - The Contractor shall furnish the following reports in six (6) copies and a reproducible master to the Director, Office of Nuclear Regulatory Research, Nuclear Regulatory Commission, Washington, D.C., 20555:
 - (1) Topical Reports
 - (2) Final Report
6. Key Personnel - The key person in this research project shall be R. S. Denning.

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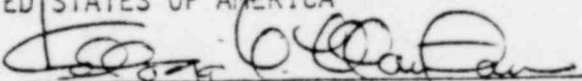
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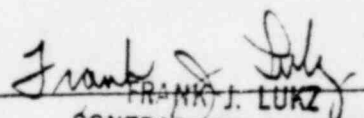
Task Agreement No. 11 Under
Contract No. NRC-04-76-293
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IN WITNESS WHEREOF, the parties have executed this document.

UNITED STATES OF AMERICA

BY: 
Kellogg V. Morton, Chief
Research Contracts Branch
(Title)

Nuclear Regulatory Commission
BATTELLE COLUMBUS LABORATORIES

BY: 
FRANK J. LUKZ
CONTRACTING OFFICER
(Title)

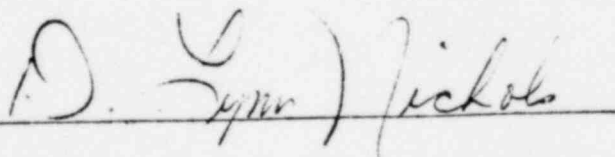
I, D. L. NICHOLS, certify that I am the _____
(Attestor)
ATTESTING OFFICER of the Contractor named under this document
(Title)

on behalf of said Contractor was then FRANK J. LUKZ
(Signatory)

who signed this document on behalf of said Contractor was then _____
CONTRACTING OFFICER of said Contractor; that this document was

duly signed for and on behalf of said Contractor by authority of its governing body
and is within the scope of its legal powers.

IN WITNESS WHEREOF, I have hereunto affixed my hand and the seal of said Contractor.



(SEAL)

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APPENDIX A
STATEMENT OF WORK

The Contractor shall furnish all personnel, materials, equipment, facilities, and services (except as may be furnished by the Government) necessary to perform and shall herewith perform to its best efforts, the following technical scope of work:

The Contractor shall perform the work set forth in its proposal No. 587-J-5162 dated July 30, 1979 entitled "MARCH Simulation of the First 190 Minutes of the TMI Transient," which proposal is incorporated by reference and made a part hereof. Specifically, the following analyses shall be performed:

1. Primary System Hydraulics Analysis
2. Hydrogen Explosion Potential Analysis
3. MARCH/CORRAL Code Analyses
4. Containment Venting and Filter System Analyses
5. Pebble Bed Modelling of Damaged Assemblies
6. Retention of Degraded Core Analysis
7. MARCH Code Prediction of Core Uncovery