

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1 2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

BPA NO.

1. DATE OF ORDER

SEP 2 2005

2. CONTRACT NO. (If any)

NRC-03-00-003

6. SHIP TO:

3. ORDER NO.

T033

MODIFICATION NO.

4. REQUISITION/REFERENCE NO.

NRC-03-00-003

a. NAME OF CONSIGNEE

U.S. Nuclear Regulatory Commission
Ofc. of Nuclear Reactor Regulation

b. STREET ADDRESS

Attn: Lawrence Ruth
MailStop: OWF 10A1

c. CITY

Washington

d. STATE

DC

e. ZIP CODE

20555

5. ISSUING OFFICE (Address correspondence to)

U.S. Nuclear Regulatory Commission
Division of Contracts
Contract Management Branch 2
Mail Stop T-7-I-2
Washington, DC 20555

R. Glaros

7. TO:

a. NAME OF CONTRACTOR

INFORMATION SYSTEMS LABORATORIES

b. COMPANY NAME

c. STREET ADDRESS

11140 ROCKVILLE PIKE STE 500

d. CITY

ROCKVILLE

e. STATE

MD

f. ZIP CODE

208522310

9. ACCOUNTING AND APPROPRIATION DATA

520-15-111-113 J-3238 252A 31X0200.520
FFS#: NRR0000333 OBLIGATE: \$20,000

10. REQUISITIONING OFFICE NRR

Ofc. of Nuclear Reactor Regulation

11. BUSINESS CLASSIFICATION (Check appropriate box(es))

☒ a. SMALL

☐ b. OTHER THAN SMALL

☐ c. DISADVANTAGED

☐ g. SERVICE-DISABLED VETERAN-OWNED

12. F.O.B. POINT

N/A

☐ d. WOMEN-OWNED

☐ e. HUBZone

☐ f. EMERGING SMALL BUSINESS

13. PLACE OF

a. INSPECTION

b. ACCEPTANCE

14. GOVERNMENT B/L NO.

15. DELIVER TO F.O.B. POINT
ON OR BEFORE (Date)
SEE BELOW

16. DISCOUNT TERMS

N/A

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
	<p>ISSUANCE OF TASK ORDER NO. 033 UNDER NRC-03-00-003</p> <p>Title: Technical Support for TRACG Operating BWR Stability Licensing Topical Report Review</p> <p>Period of Performance: Date of Award through 12/31/2005</p> <p>Estimated Reimbursable Costs: \$20,017 Fixed Fee: \$1,565 Total Cost Ceiling: \$21,582</p> <p>Period of Performance - Date of Award through 12/31/2005</p> <p>SEE ATTACHED PAGE 2 OF 2 FOR DESCRIPTION OF TASK ORDER #033</p>					

18. SHIPPING POINT

19. GROSS SHIPPING WEIGHT

20. INVOICE NO.

21. MAIL INVOICE TO:

a. NAME

U.S. Nuclear Regulatory Commission
Division of Contracts

b. STREET ADDRESS (or P.O. Box)

MailStop: T-7-I-2

c. CITY

Washington

d. STATE

DC

e. ZIP CODE

20555

17(h)
TOTAL
(Cont.
pages)

17(i).
GRAND
TOTAL

22. UNITED STATES OF AMERICA
BY (Signature)

Stephen Pool

23. NAME (Typed)

Stephen Pool
Contracting Officer

TITLE: CONTRACTING/ORDERING OFFICER

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION NOT USABLE

OPTIONAL FORM 347 (REV. 3/2005)
PRESCRIBED BY GSA/FAR 48 CFR 53.213(e)

TEMPLATE - ADM001

SISP REVIEW COMPLETE

ADM002

In accordance with Section G.5, Task Order Procedures, of contract number NRC-03-00-003, this definitizes Task Order No. 033. The effort shall be performed in accordance with the enclosed Statement of Work.

Task Order No. 033 shall be in effect from date of award through December 31, 2005, with a cost ceiling of \$21,582. The amount of \$20,017 represents the estimated reimbursable costs, and the amount of \$1,565 represents the fixed fee.

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.

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: Lawrence Ruth
Project Officer
(301) 415-1211

Contractual Matters: Rachel Glaros
Contract Specialist
(301) 415-0115

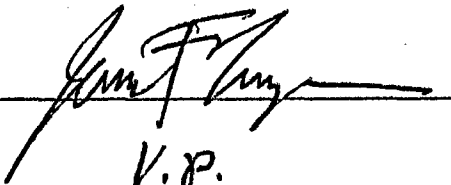
Acceptance of Task Order No. 033 should be made by having an official, authorized to bind your organization, execute three copies of this document in the space provided and return two copies to the Contract Specialist. You should retain the third copy for your records.

ACCEPTED: Task Order No. 033

NAME

TITLE

DATE


V.P.
9/22/05

STATEMENT OF WORK
TASK ORDER No. 33 Under JCN J-3238

Title: Technical Support for TRACG Operating BWR Stability Licensing Topical Report Review

Project Manager:	L. Ruth, 301-415-1211
Technical Monitor:	Tai L. Huang, 301-415-2867
TAC Number:	TBD
NRC Priority Number:	2
LEVEL OF EFFORT:	3 weeks
CONTRACTOR:	ISL

BACKGROUND

General Electric submitted the TRACG Code for operating BWR stability analysis licensing topical report (LTR) for staff to review in March 2004. The LTR will provide a technical basis for the TRACG code application regarding the Detection and Suppress (DSS-CD) methodology. The capability of the TRACG code to calculate conservative regional and whole core power oscillation amplitude, frequency and MCPR is the necessary technical basis for the approval of DSS-CD. The approval of MELLLA+ operation over BRUNSWICK has to be done after the DSS-CD is approved.

OBJECTIVE

Expert support is needed to complete review on the remaining issues of the accuracy and the adequacy of TRACG 1-D and 3-D integration scheme and corresponding physics package for modeling density-wave type of two-phase flow oscillations.

TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED

At least one expert is to be provided who has the experience and the knowledge of TRAC-BF1/TRAC-BD1 1-D and 3-D integration scheme and the implicit or explicit coupled fluid flow and conduction solver. In addition, the expert shall have extensive knowledge of TRAC-BF1/TRAC-BD1 physics model.

It is the responsibility of the contractor to assign technical staff, employees, subcontractors, or specialists who have the required educational background, experience, or combination thereof to meet both the technical and regulatory objectives of the work specified in this SOW. The NRC will rely on representations made by the contractor concerning the qualifications of the personnel assigned to this work including assurance that all information contained in the technical cost proposals, including resumes, is accurate and truthful.

WORK REQUIREMENTS AND SCHEDULE

The expert support is expected to perform the detailed review of the TRACG TH integration scheme and physics package with an focus on its application for operating BWR instability. Also, this person is expected to review the LTR and provide Request for Additional Information (RAIs) and the Technical Evaluation Reports.

Task**Scheduled Completion**

- | | | |
|----|--|--|
| 1. | Complete a top-down review of the TRACG thermal-hydraulic and physics package. Identify major issues and issue first round of RAIs if necessary to conclude with high confidence about whether the TRACG code can conservatively calculate the power oscillation amplitude and MCPR. Also, review additional GE response to the staff questions. | Two weeks from initiation of work |
| 2. | Review and evaluate the responses provided by GNF-A | Two weeks from receipt of responses |
| 3. | Prepare a Technical Evaluation Report (TER) | |
| a. | Draft TER | Three weeks from receipt of responses |
| b. | Incorporate NRC comments and prepare final TER | Two weeks from receipt of NRC's comments |

LEVEL OF EFFORT

The level of effort is estimated at three professional staff weeks. Apportioned among the tasks as follows for planning purposes:

<u>TASKS</u>	<u>LEVEL OF EFFORT (WEEKS)</u>
1.	1.50
2.	0.75
3.	0.75
Total Weeks	3.00

PERIOD OF PERFORMANCE

The period of performance shall be from date of task order award through December 31, 2005.

SPENDING PLAN

As part of the proposed work plan prior to each fiscal year, the contractor shall submit for NRC concurrence and acceptance a proposed spending plan for the fiscal year, broken down on a monthly basis. This spending plan should consider not only expenses costed in the performance of task work as specified in the SOW, but also other commitments (other contract work, vacation, etc.) which the contract anticipates in that fiscal year. In addition, the contractor shall propose a modified spending plan for NRC concurrence and acceptance any time there is a significant deviation (10% of the FY total) from the spending plan in effect.

MEETINGS AND TRAVEL

Monthly tele-conference will be held on an as-needed basis. One trip for one person of two days duration is expected between ISL (Albuquerque, NM) and NRC Headquarters, Rockville,

MD.

NRC-FURNISHED MATERIALS

Materials will be provided by the Technical Monitor as required to complete the effort.

OTHER APPLICABLE INFORMATION

The material to be used under this task order is Proprietary documentation, will be provided by the NRC in the form of CD-ROMs, and must be handled and protected consistent with the terms of the non-disclosure agreement of the contract.

LICENSE FEE RECOVERY

The work specified in this SOW is license fee recoverable.