

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES
1 3

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

BPA NO.

1. DATE OF ORDER 4/10/2007		2. CONTRACT NO. (If any) NRC-04-04-062		6. SHIP TO:	
3. ORDER NO. TASK ORDER 007		4. REQUISITION/REFERENCE NO. RES-04-062 dtd 1/29 RES-C07-321 (FFS #)		a. NAME OF CONSIGNEE U. S. Nuclear Regulatory Commission	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: H. (Eddie) Colon, 301-415-7135 Mail Stop T-7-I-2 Washington, DC 20555		7. TO:		b. STREET ADDRESS Attn: Ronald Emrit, 301-415-6447 Mail Stop: T10-K44 11555 Rockville Pike	
a. NAME OF CONTRACTOR INFORMATION SYSTEMS LABORATORIES, INC ISL		b. COMPANY NAME ATTN: DR. JAMES F. MEYER		c. CITY Rockville	
c. STREET ADDRESS 11140 ROCKVILLE PIKE, SUITE 500		d. CITY ROCKVILLE		e. STATE MD	
d. CITY ROCKVILLE		e. STATE MD		f. ZIP CODE 20852	
9. ACCOUNTING AND APPROPRIATION DATA 76060171852 N6421 252A 31X0200.760 OBLIGATE: \$40,000.00 DUNS #: 107928806		10. REQUISITIONING OFFICE RES		8. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR _____ Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated. Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> d. WOMEN-OWNED		<input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> f. EMERGING SMALLBUSINESS		<input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED 12. F.O.B. POINT Destination	
13. PLACE OF a. INSPECTION		b. ACCEPTANCE		14. GOVERNMENT B/L NO.	
				15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) N/A	
				16. DISCOUNT TERMS Net 30	

17. SCHEDULE (See reverse for Rejections) See CONTINUATION Page

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	<p>Task Order No. 007 entitled "ASSISTANCE FOR DEVELOPING THE NEXT GENERATION NUCLEAR PLANT (NGNP) LICENSING STRATEGY"</p> <p>This confirms the authorization provided to ISL via email dated Feb. 8, 2007 to begin work under the subject task order effective February 12, 2007 with a temporary ceiling of \$10,000.00. The amount obligated amount herein with respect to this task is inclusive of the above stated temporary ceiling.</p> <p>In accordance with Section G.3 entitled "Task Order Procedures" of the subject contract, this order definitizes Task Order No. 007. This effort shall be performed in accordance with the enclosed Statement of Work, and the terms and conditions of NRC Contract No. NRC-04-04-062.</p> <p>Task Order No. 007 shall be effective <u>Feb. 12, 2007 through August 31, 2007</u> with a total cost ceiling of \$41,902.00. The amount of \$38,800.00 represents the reimbursable costs the amount of \$3,102.00 represents the fixed fee.</p>					

18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.	
21. MAIL INVOICE TO:					
a. NAME U.S. Nuclear Regulatory Commission Div. of Contracts, Mail Stop T-7-I-2					
b. STREET ADDRESS (or P.O. Box) Attn: NRC-04-04-062-T007 (SUBMIT INVOICES IN TRIPLICATE)					
c. CITY Washington		d. STATE DC		e. ZIP CODE 20555	
SEE BILLING INSTRUCTIONS ON REVERSE				\$40,000.00	
				17(h) TOTAL (Cont. pages)	
				17(i) GRAND TOTAL	

22. UNITED STATES OF AMERICA BY (Signature) 		23. NAME (Typed) Heriberto Colón, Jr. Contracting Officer TITLE: CONTRACTING/ORDERING OFFICER	
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TEMPLATE ADM001
FOR OFFICIAL USE ONLY
PREVIOUS EDITION NOT USABLE

SUNSI REVIEW COMPLETE

ADM002 (REV. 4/2006)
48 CFR 53.213(i)

**ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION**

PAGE NO.
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IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER

CONTRACT NO.

ORDER NO.

NRC-04-04-062

TASK ORDER 007

ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
	<p>Reference is made to your email proposal dated Feb. 7, 2007 in response to this effort.</p> <p>The issuance of this task order does not amend any other terms or conditions of the subject contract.</p> <p>Please indicate your acceptance of this Task Order No. 007 Accepted</p> <p>Name <u><i>Scott Newsberry</i></u> <i>SCOTT NEWSBERRY</i></p> <p>Title <u><i>VP</i></u></p> <p>Date <u><i>4-12-07</i></u></p>					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

ADDITIONAL TASK ORDER TERMS AND CONDITIONS

A.1 CONSIDERATION AND OBLIGATION--COST PLUS FIXED FEE (JUN 1988) ALTERNATE I (JUN 1991)

(a) The total estimated cost to the Government for full performance of **TASK ORDER 007** is \$41,902.00 of which the sum of 38,800.00 represents the estimated reimbursable costs, and of which \$3,102.00 represents the fixed fee.

(b) There shall be no adjustment in the amount of the Contractor's fixed fee by reason of differences between any estimate of cost for performance of the work under this contract and the actual cost for performance of that work.

(c) The amount currently obligated by the Government with respect to **TASK ORDER 007** is \$40,000.00, of which the sum of \$37,038.80 represents the estimated reimbursable costs, and of which \$2,961.20 represents the fixed fee.

(d) It is estimated that the amount currently allotted will cover performance through August 10, 2007.

STATEMENT OF WORK
TASK ORDER NO. 7 UNDER CONTRACT NO. NRC-04-04-062
JOB CODE N6421
(Task placed under Parent Task Order Job Code Y6912)

TITLE: " Assistance in Developing the Next Generation Nuclear Plant (NGNP) Licensing Strategy"

1. BACKGROUND

Section 644 of the Energy Policy Act of 2005 (Act) provides that the U.S. Nuclear Regulatory Commission (NRC) has the licensing and regulatory authority for any reactor that is authorized under Subtitle C of the Act. Section 644 also provides that the Secretary of the Department of Energy (DOE) and NRC Chairman shall jointly submit to Congress a licensing strategy for the Next Generation Nuclear Plant (NGNP) within 3 years of the date on which the Act was enacted (August 8, 2005). Both the NRC and the DOE have the responsibility under the licensing strategy to develop information for evaluation of the ways in which current NRC light water reactor (LWR) licensing requirements need to be adapted for the NGNP, the analytical tools that the NRC will need to develop to independently verify the NGNP design and its safety performance, and other research and development activities that the NRC will need to conduct to review an NGNP license application.

2. OBJECTIVE

The objective of the proposed work is to conduct an analysis of licensing approaches used by NRC to license commercial power reactors and an evaluation of the ways in which current NRC LWR licensing requirements need to be adapted for the NGNP, including identification of new technical and regulatory requirements or modification of existing requirements.

3. SCOPE OF WORK

The contractor shall analyze licensing options for NGNP, including Part 50 with appropriate modifications and exemptions; Part 52 with similar treatment, a blended approach which is partly risk-informed and partly prescriptive as in Part 50, or a fully risk-informed approach. In particular, the contractor shall analyze pros and cons of various options, and for each option considered, the contractor shall identify new technical and regulatory requirements that need to be developed and existing requirements that need to be modified. Further, the contractor shall identify any policy issues associated with the selection of a particular licensing option. The contractor shall work closely with the NRC staff in accomplishing the task objectives. To the maximum extent feasible, earlier work done by the contractor in relation to the risk-informed framework development shall be factored into the proposed analysis.

In addition to the above, the contractor may be called upon to provide support to the NRC technical staff during meetings and briefings on the subject.

4. DELIVERABLES AND SCHEDULE

The contractor shall submit a letter report to the NRC by May 31, 2007, containing the following information:

- a. Summary of pros and cons of various licensing options.
- b. For each licensing option considered (e.g., Part 50 straight), identification of sections of the regulation which are directly applicable to NGNP without change, sections which are partially applicable and changes required to make them fully applicable, sections which are not applicable, and new sections that need to be developed.
- c. For each licensing option considered, applicability or partial applicability of existing general design criteria (GDC), standard review plans (SRP), and regulatory guides (RG), as well as identification of new requirements.
- d. For each licensing option considered, policy issues that need to be addressed.

5. TECHNICAL AND OTHER QUALIFICATIONS REQUIRED

The proposed personnel must be thoroughly familiar with NRC's licensing framework for commercial nuclear power reactors. The personnel must also have familiarity with the high temperature gas reactor (HTGR) technology including past and ongoing international research and development work on HTGR technology with particular focus on safety and licensing approaches. The contractor shall identify key personnel and provide their résumés, indicating relevant experience and qualifications.

The NRC will rely on representations made by the contractor concerning the qualifications of the personnel assigned to this Task Order, including assurance that all information contained in the technical and cost proposal, including resumes, is accurate and truthful. In addition, the contractor and personnel assigned to this work must be approved for handling and working with proprietary information.

The use of key personnel and any proposed change to key personnel on this contract are subject to approval by the NRC Project Manager and Technical Monitor. This includes proposed use of principal persons (i.e., key contributors) during the life of the contract. Conflict of interest considerations shall apply to any proposed personnel.

For any work to be subcontracted or performed by consultants, the contractor shall obtain written approval from the NRC Project Manager and Technical Monitor, prior to the initiation of the subcontract effort. Conflict of interest considerations shall apply to any subcontracted effort.

6. REPORTING REQUIREMENTS

A Monthly Letter Status Report (MLSR) is to be submitted to the NRC Project Manager by the 20th of each month with copies provided to the following:

- (1) Division of Systems Analysis and Regulatory Effectiveness (Sharon Haggerty, Management Analyst, Mail Stop T-10E59)
- (2) Division of Contracts, Office of Administration (Mail Stop T-7 I2).

The MLSR will identify the title of the project, the job code, the Principal Investigator, the period of performance, the reporting period, summarize each month's technical progress, list monthly spending, total spending to date, and the remaining funds. Any administrative or technical difficulties which may affect the schedule or costs of the project shall be immediately brought to the attention of the NRC Project Manager.

The NRC has implemented a new document management system, Agencywide Documents Access and Management System (ADAMS). For the present, contractors' mail will not be placed in ADAMS. All documents mailed to the NRC (e.g., letters, technical reports, monthly letter reports, and other mail) will be entered into ADAMS unless the envelopes containing the documents are clearly marked "Addressee Only." Send mail for the addressee and cc's as separate mailings.

PUBLICATIONS NOTE

RES encourages the publication of the scientific results from RES sponsored programs in refereed scientific and engineering journals as appropriate. The contractor shall follow provisions of Management Directive 3.9, "NRC Staff and Contractor Speeches, Papers, and Journal Articles on Regulatory and Technical Subjects," with regard to all publications. If the contractor proposes to publish in the open literature or present the information at meeting, approval of the proposed article or presentation should be obtained from the NRC Project Manager. The RES Project Manager may disapprove or delay presentation or publication of papers on information that is subject to Commission approval that has not been ruled upon or which has been disapproved.

If the presentation or paper is in addition to the required technical reports and the RES Project Manager determines that it will benefit the RES project, the Project Manager may authorize payment of travel and publishing costs, if any, from the project funds. If the Project Manager determines that the article or presentation would not benefit the RES project, the costs associated with the preparation, presentation, or publication will be borne by the contractor. For any publication or presentations falling into this category, the NRC reserves the right to require that such presentation or publication will not identify the NRC's sponsorship of the work.

NEW STANDARDS FOR CONTRACTORS WHO PREPARE NUREG-SERIES MANUSCRIPTS

The NRC began to capture its official records electronically. The NRC will capture each final NUREG-series publication in its native application. Therefore, the contractor is required to submit the final manuscript that has been approved by the NRC Project Manager in both electronic and camera-ready copy.

All format guidance, as specified in NUREG-0650, Revision 2, remains the same with one exception. The contractor no longer is required to include the NUREG-series designator on the bottom of each page of the manuscript. The NRC will assign this designator when the camera-ready copy is sent to the printer and will place the designator on the cover, title page, and spine. The designator for each report will no longer be assigned when the decision to prepare a publication is made. The NRC's Publishing Services Branch will inform the NRC Project Manager for the publication of the assigned designator when the final manuscript is sent to the printer.

For the electronic manuscript, the text shall be prepared in WordPerfect, using any of the following file types for charts, spreadsheets, and the like.

File Types to be Used for NUREG-Series Publications	
File Type	File Extension
WordPerfect®	.wpd
Microsoft® PowerPoint®	.ppt
Corel® QuattroPro®	wb3
Corel® Presentations	.shw
Lotus® 1-2-3	.wk4
Portable Document Format	.pdf

This list is subject to change if new software packages come into common use at NRC or by our licensees or other stakeholders that participate in the electronic submission process. If a portion of the manuscript is from another source and the contractor cannot obtain an acceptable electronic file type for this portion (e.g., an appendix from an old publication), the NRC can, if necessary, create a tagged image file format (file extension .tif) for that portion of the report. The contractor should continue to submit original photographs, which will be scanned, since digitized photographs do not print well.

For a compact disk (CD) version of the manuscript, the contractor should use (1) a portable document format (PDF), (2) a WordPerfect 8/9 file format, or alternatively, (3) an Adobe Acrobat Reader with print instructions for obtaining a free copy of Adobe Acrobat Reader on the back cover insert of the jewel box.

7. MEETINGS AND TRAVEL REQUIREMENTS

No travel is anticipated for this effort.

8. PERIOD OF PERFORMANCE

The period of performance is February 12, 2007 through August 31, 2007.

9. NRC-FURNISHED MATERIAL

None.

10. RELATIONSHIP TO OTHER PROJECTS

In the course of this project, it is expected that the contractor will maintain full cognizance of all relevant research sponsored by the NRC, DOE, other U.S. government organizations and private institutions, and other international organizations involved in HTGR and/or NGNP technology.

11. CONFLICT OF INTEREST

The contractor shall list any work in the proposal that is similar to that previously performed, or is to be performed, by the contractor on behalf of another sponsor that might give rise to a perceived or actual organizational conflict of interest, including duplication of effort.

12. SUBCONTRACTING/CONSULTANT INFORMATION

The contractor shall identify the level of effort, by task, of any proposed subcontractor or consultant, if any, and provide an explanation of the need to subcontract the identified portion of the effort.

13. QUALITY OF NRC RESEARCH PROJECTS

The quality of NRC research programs are assessed each year by the Advisory Committee on Reactor Safeguards. Within the context of their reviews of RES programs, the definition of quality research is based upon several major characteristics:

- Results meet the objectives (75% of overall score)
- Justification of major assumptions (12%)
- Soundness of technical approach and results (52%)
- Uncertainties and sensitivities addressed (11%)

- Documentation of research results and methods is adequate (25% of overall score)
- Clarity of presentation (16%)
- Identification of major assumptions (9%)

It is the responsibility of the contractor to ensure that these quality criteria are adequately addressed throughout the course of the research that is performed. The NRC project manager and technical monitor will review all research products with these criteria in mind.

14. TECHNICAL DIRECTION

Technical direction under this task order will be provided by the following NRC staff:

Sudhamay Basu
U.S. Nuclear Regulatory Commission
Two White Flint North
11555 Rockville Pike, Mail Stop T-10K8
North Bethesda, MD 20852-2738

Telephone: 301-415-6774
Fax: 301-415-5160
Email: SXB2@nrc.gov