

# ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

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

BPA NO.

1. DATE OF ORDER <b>NOV 07 2005</b>		2. CONTRACT NO. (If any) NRC-04-04-062		6. SHIP TO:	
3. ORDER NO. TASK ORDER 001		4. REQUISITION/REFERENCE NO. RES-04-062 RES-C05-451		a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission Attn: Ronald Emrit	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Jeffrey R. Mitchell, 301-415-6465 Mail Stop T-7-I-2 Washington, DC 20555				b. STREET ADDRESS Mail Stop: T10-K44 11555 Rockville Pike	
				c. CITY Rockville	e. ZIP CODE 20852
7. TO:				f. SHIP VIA	
a. NAME OF CONTRACTOR INFORMATION SYSTEMS LABORATORIES, INC				8. TYPE OF ORDER	
b. COMPANY NAME ATTN: DR. JAMES F. MEYER				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 11140 ROCKVILLE PIKE, SUITE 500				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/task 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.	
d. CITY ROCKVILLE		e. STATE MD	f. ZIP CODE 20852		
9. ACCOUNTING AND APPROPRIATION DATA Note: \$60,000.00 previously obligated as part of the minimum guarantee under the basic contract is to be allotted for Task Order No. 1				10. REQUISITIONING OFFICE RES	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT Destination	
<input type="checkbox"/> a. SMALL	<input type="checkbox"/> b. OTHER THAN SMALL	<input type="checkbox"/> c. DISADVANTAGED	<input type="checkbox"/> d. WOMEN-OWNED	<input type="checkbox"/> e. HUBZone	<input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED
13. PLACE OF				14. GOVERNMENT B/L NO.	
a. INSPECTION		b. ACCEPTANCE		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	
				16. DISCOUNT TERMS	

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)
	Task Order No. 1 Entitled "Assistance for screening analysis of generic issue 199"  In accordance with Section G.3 entitled "Task Order Procedures" of the subject contract, this order definitizes Task Order No. 1. This effort shall be performed in accordance with the enclosed Statement of Work.  Task Order No. 1 shall be effective November 14, 05 through April 30, 2006 with a total cost ceiling of \$98,070.00. The amount of \$91,114.00 represents the reimbursable costs amount of \$6,956.00 represents the fixed fee.					

18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
21. MAIL INVOICE TO:						
a. NAME U.S. Nuclear Regulatory Commission Payment Team, Mail Stop T-7-I-2						
b. STREET ADDRESS (or P.O. Box) Attn: (NRC-04-04-062-001)						
c. CITY Washington		d. STATE DC	e. ZIP CODE 20555		17(i). GRAND TOTAL	

22. UNITED STATES OF AMERICA  
BY (Signature)

23. NAME (Typed)  
Stephen M. Pool  
Contracting Officer

TITLE: CONTRACTING/ORDERING OFFICER

AUTHORIZED FOR LOCAL REPRODUCTION  
PREVIOUS EDITIONS NOT USABLE

TEMPLATE - ADM001

SISP REVIEW COMPLETE

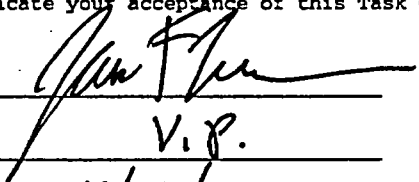
OPTIONAL FORM 347 (REV. 3/2005)  
PRESCRIBED BY OMB, 5 CFR 53.213(e)

ADM002

# 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. NRC-04-04-062		ORDER NO. TASK ORDER 001		
ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
	<p>Funds in the amount of \$60,000.00 were transferred from the Base Award to this Task Order</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. 1. Accepted</p> <p>Name <u></u></p> <p>Title <u>V.P.</u></p> <p>Date <u>11/7/05</u></p>					
TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))						



**TASK ORDER TERMS AND CONDITIONS**

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NOT SPECIFIED IN THE CONTRACT

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**A.1 NRC Acquisition Clauses - (NRCAR) 48 CFR Ch. 20**

**A.2 Other Applicable Clauses**

☐ See Addendum for the following in full text (if checked)

☐ 52.216-18, Ordering

☐ 52.216-19, Order Limitations

☐ 52.216-22, Indefinite Quantity

☐ 52.217-6, Option for Increased Quantity

☐ 52.217-7, Option for Increased Quantity Separately Priced Line Item

☐ 52.217-8, Option to Extend Services

☐ 52.217-9, Option to Extend the Term of the Contract

**A.3 SEAT BELTS**

Contractors, subcontractors, and grantees, are encouraged to adopt and enforce on-the-job seat belt policies and programs for their employees when operating company-owned, rented, or personally owned vehicles.

**STATEMENT OF WORK  
NRC-04-04-062 TASK ORDER NO. 1  
JOB CODE Y6912**

**TITLE: Assistance for Screening Analysis of Generic Issue 199, "Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States"**

**I. BACKGROUND**

New generic issues (GIs) of potential safety significance to groups of licensed facilities continue to arise from licensing actions, safety research programs, and operational experience. Generic issues address concerns that may affect the design, construction, operation, or decommissioning of all, several, or a class of licensees or certificate holders. In order to maintain safety, the NRC has an effective program that uses up-to-date, probabilistic risk assessment (PRA) methods for the timely resolution of those GIs that have the greatest potential for safety enhancement. All new GIs identified are subjected a screening analysis, in accordance with NRC Management Directive (MD) 6.4, "Generic Issues Program."

**II. OBJECTIVE**

The objective of this task is to develop a probabilistic screening analysis of GI-199, "Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States," for use in the NRC screening of the issue, in accordance with NRC MD 6.4.

**III. SCOPE OF WORK**

GI-199 addresses the concern for the higher seismic hazard on current nuclear power plants in the Central and Eastern United States. The contractor shall use the information on GI-199 provided by the NRC to develop a probabilistic screening analysis (prioritization) in accordance with guidelines of Section 3.3 and Appendix B.3.2 of NUREG-1489, "A Review of NRC Staff Uses of Probabilistic Risk Assessment."

Specifically, the contractor will develop an estimate of the change in core damage frequency resulting from new, larger probabilities of exceedance of the safe shutdown earthquake ground motion reported by the United States Geological Survey for 29 reactor sites in the central and eastern United States. The increase in the reference probability value is primarily due to recent developments in the modeling of earthquake ground motion in the central and eastern US. The NRC/RES staff will supply this information.

This type of estimate has been developed before in the screening analysis of Generic Issue 194, "Revised Seismic Hazard Curve," which is described in NUREG-0933. This screening analysis used a method described in a paper by R. P. Kennedy, "Overview of Methods for Seismic PRA and Margin Analysis Including Recent Innovations," which is available in the Proceedings of the OECD/NEA Workshop on Seismic Risk, Tokyo, Japan, August 1999. The contractor may make use of this method, or may propose an equivalent alternative.

#### **IV. REPORTING REQUIREMENTS**

Refer to Section F.5 "PLACE OF DELIVERY—REPORTS (JUNE 1988)" under the Contract and replace paragraph (a) with the following (applies only for this task):

"(a) Ronald Emrit  
Division of Systems Analysis and Regulatory Effectiveness  
Office of Nuclear Regulatory Research  
Mail Stop: T-10-E50  
Washington, DC 20555

Kimberly Jones  
Division of Systems Analysis and Regulatory Effectiveness  
Office of Nuclear Regulatory Research  
Mail Stop: T-10-E32  
Washington, DC 20555"

NOTE: 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) should have "Addressee Only" on the envelope to keep it from being entered into ADAMS. Send mail for the addressee and cc's as separate mailings.

#### **V. DELIVERABLES AND DELIVERY SCHEDULE**

The contractor shall submit a letter report to the NRC with the technical analysis of GI-199, in accordance with the work scope outlined above, no later than 90 days after receipt of this Task Order.

#### **VI. MEETINGS AND TRAVEL REQUIREMENTS**

No travel is required by the contractor.

#### **VII. PERIOD OF PERFORMANCE**

The period of performance is from the November 14, 2005 to April 30, 2006.

#### **VIII. TECHNICAL DIRECTION**

Technical direction will be provided by the following NRC staff:

Ronald Emrit  
Division of Systems Analysis and Regulatory Effectiveness  
Office of Nuclear Regulatory Research  
Mail Stop: T-10-E50  
Washington, DC 20555

## IX. PUBLICATIONS

RES encourages the publication of the scientific results from RES-sponsored programs in refereed scientific and engineering journals as appropriate. If the laboratory proposes to publish in the open literature or present the information at meeting in addition to submitting the required technical reports, approval of the proposed article or presentation should be obtained from the NRC Project Manager. The RES Project Manager shall either approve the material as submitted, approve it subject to NRC suggested revisions, or disapprove it. In any event, 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. Additional information regarding the publication of NRC sponsored research is contained in NRC Management Directives 3.8, "Unclassified Contractor and Grantee Publications in the NUREG Series," and 3.9, "NRC Staff and Contractor Speeches, Papers, and Journal Articles on Regulatory and Technical Subjects."

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 will begin to capture its official records electronically on January 1, 2000. The NRC will capture each final NUREG-series publication in its native application. Therefore, commencing January 1, 2000, please submit your final manuscript that has been approved by your NRC Project Officer in both electronic and camera-ready copy.

All format guidance, as specified in NUREG-0650, Revision 2, will remain the same with one exception. You will no longer be required to include the NUREG-series designator on the bottom of each page of the manuscript. The NRC will assign this designator when we send the camera-ready copy 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 Officer for the publication of the assigned designator when the final manuscript is sent to the printer.

For the electronic manuscript, prepare the text in WordPerfect 8, and use 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
	.shw

Corel® Presentations	
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 your manuscript is from another source and you 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 your report. Note that you should continue to submit original photographs, which will be scanned, since digitized photographs do not print well.

If you chose to publish a compact disk (CD) of your publication, place on the CD copies of the manuscript in both (1) a portable document format (PDF); (2) a WordPerfect 8/9 file format, and (3) an Adobe Acrobat Reader, or, alternatively, print instructions for obtaining a free copy of Adobe Acrobat Reader on the back cover insert of the jewel box.

## **X. QUALITY ASSURANCE**

Section 515 of the Treasury and General Government Appropriations Act for Fiscal Year 2001 (Public Law 106-554) directs the Office of Management and Budget (OMB) to issue government-wide guidelines (Federal Register, Volume 67, No. 36, pp. 8452 - 8460) that "provide policy and procedural guidance to federal agencies for ensuring and maximizing the quality, objectivity, utility, and integrity of information (including statistical information) disseminated by federal agencies." NRC Information Quality Guidelines are provided in the Federal Register, Vol. 67, No. 190, pp. 61695 - 61699.

## **XI. NRC-FURNISHED MATERIAL**

No materials are to be furnished by the NRC during the performance of the work required by this Task Order.

## **XII. TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED**

The contractor shall provide personnel that have detailed knowledge and understanding PRA technology and its applications. It is the responsibility of the contractor to assign its technical staff, employees, subcontractors, or specialists who have the required educational background, experience, or combination thereof to meet both the technical objectives of the work specified in this Statement of Work. 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.