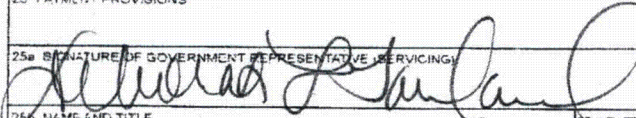
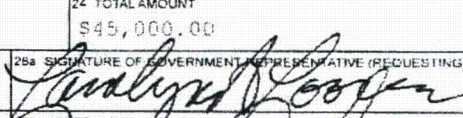


INTERAGENCY AGREEMENT		1 IAA NO NRC-HQ-20-15-T-0032		PAGE OF 1 2	
2 ORDER NO		3 REQUISITION NO NRR-15-0255		4 SOLICITATION NO	
5 EFFECTIVE DATE 08/31/2015		6 AWARD DATE 08/26/2015		7 PERIOD OF PERFORMANCE 08/31/2015 TO 01/31/2016	
8 SERVICING AGENCY OAK RIDGE NATIONAL LAB ALC: DUNS: 012075756 +4: US DEPARTMENT OF ENERGY OAK RIDGE NATION LABORATORY SITE OFFICE BUILDING 4500N MS 6269 PO BOX 2008 OAK RIDGE TN 37831-6269 POC Deborah Garland, CG TELEPHONE NO (865) 241-9566			9 DELIVER TO DUANE HARDESTY US NUCLEAR REGULATORY COMMISSION ONE WHITE FLINT NORTH BUILDING 11555 ROCKVILLE PIKE MAIL STOP Q-12D20 ROCKVILLE MD 20852		
10 REQUESTING AGENCY ACQUISITION MANAGEMENT DIVISION ALC: 31000001 DUNS: 040535809 +4: US NUCLEAR REGULATORY COMMISSION TWO WHITE FLINT NORTH 11545 ROCKVILLE PIKE MAIL STOP T-5E3 ROCKVILLE MD 20852-2738 POC Carolyn A. Cooper TELEPHONE NO (301)415-6734			11 INVOICE OFFICE US NUCLEAR REGULATORY COMMISSION ONE WHITE FLINT NORTH 11555 ROCKVILLE PIKE MAILSTOP Q3-E17A ROCKVILLE MD 20852-2738		
12 ISSUING OFFICE US NRC - HQ ACQUISITION MANAGEMENT DIVISION MAIL STOP TWFN-5E03 WASHINGTON DC 20555-0901			13 LEGISLATIVE AUTHORITY Energy Reorganization Act of 1974		
			14 PROJECT ID		
			15 PROJECT TITLE UPDATE NON-POWER REACTOR INSTRUMENTATION AND CONTR		
16 ACCOUNTING DATA 2015-X0200-FEEBASED-20-20D0006-11-4-178-1061-253D					
17 ITEM NO	18 SUPPLIES/SERVICES	19 QUANTITY	20 UNIT	21 UNIT PRICE	22 AMOUNT
	NRC-HQ-25-14-D-0004/NRC-HQ-20-15-T-0032 The NRC and the DOE Laboratory (ORNL) hereby enter into this Task Order No. NRC-HQ-20-15-T-0032, for the project entitled, "Update Interim Staff Guidance for Licensing Instrumentation and Control System Upgrades for Non-Power Reactors." NRC COR: Duane Hardesty (301)415-3724 NRC Alt. COR: Linh Tran (301)415-4103 Continued ...				
23 PAYMENT PROVISIONS			24 TOTAL AMOUNT \$45,000.00		
25a SIGNATURE OF GOVERNMENT REPRESENTATIVE (SERVICING) 			25a SIGNATURE OF GOVERNMENT REPRESENTATIVE (REQUESTING) 		
25b NAME AND TITLE Deborah L. Garland Contracting Officer		25c DATE 8/31/15	25b CONTRACTING OFFICER CAROLYN A. COOPER		25c DATE 8/26/2015

SUNSI REVIEW COMPLETE

TEMPLATE - ARMMm

SEP 10 2015 ARMM02

STATEMENT OF WORK

NRC Agreement Number NRC-HQ-25-14-D-0004	NRC Agreement Modification Number N/A	NRC Task Order Number (If Applicable) NRC-HQ-20-15-T-0032	NRC Task Order Modification Number (If Applicable)
Project Title Update Interim Staff Guidance for Licensing Instrumentation and Control System Upgrades for Non-Power Reactors			
Job Code Number TBD	B&R Number 11-4-178	DOE Laboratory Oak Ridge National Laboratory (ORNL)	
NRC Requisitioning Office NRR			
NRC Form 187, Contract Security and Classification Requirements <input type="checkbox"/> Applicable X Note Applicable		<input type="checkbox"/> Involves Proprietary Information <input type="checkbox"/> Involves Sensitive Unclassified	
X Non Fee-Recoverable		<input type="checkbox"/> Fee-Recoverable (If checked, complete all applicable sections below)	
Docket Number (If Fee-Recoverable/Applicable) N/A		Inspection Report Number (If Fee Recoverable/Applicable) N/A	
Technical Assignment Control Number (If Fee-Recoverable/Applicable)		Technical Assignment Control Number Description (If Fee-Recoverable/Applicable)	

1.0 BACKGROUND

The Nuclear Regulatory Commission (NRC) has the authority and responsibility to review and evaluate requests for licensing actions made by its licensees and publish guidance documentation. The NRC staff, with technical support from Oakridge National Laboratory (ORNL), intends to publish a final version of the Interim Staff Guidance (ISG) for licensing instrumentation and control (I&C) systems at non-power reactors (NPRs).

The NRC staff anticipates receiving comments from licensees, members of the public, industry representatives and other stakeholders, after the ISG is published in the Federal Register. The NRC staff is entering into this agreement in order to obtain additional technical support necessary to review and respond to the comments received in a timely manner. Specifically, ORNL will be required to review and evaluate the comments and propose revisions, as appropriate, for the ISG and provide responses indicating how each comment was adjudicated. ORNL will also perform other updates, as necessary, to the ISG, to incorporate any applicable developments in the licensing of I&C systems since ORNL developed the draft ISG in 2012.

2.0 OBJECTIVE

The objective of this task order is to update the draft I&C ISG, incorporating comments received from the public comment period and provide a proposed draft ISG revision that incorporates the responses to public comments, as appropriate, and updates the ISG for any applicable changes to licensing I&C systems relevant to NPRs.

3.0 SCOPE OF WORK

The purpose of this task order is to develop the final ISG for the licensing of I&C upgrades to augment the guidance provided in NUREG-1537, "Guidance for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors," Part 1, "Format and Content," and NUREG-1537, Part 2, "Standard Review Plan and Acceptance Criteria." This ISG will form the basis for licenses and applicants to prepare licensing applications (Part 1) and for the NRC staff's use in reviewing applications for licensing I&C systems (Part 2).

The DOE Oak Ridge National Laboratory shall provide all resources necessary to accomplish the tasks and deliverables described in this (SOW), which shall be provided to the NRC Contracting Officer's Representative (COR). Specifically, the following shall be performed:

- Kick-off Meeting;
- Propose updated relevant guidance;
- Bin comments received in public comment period and propose responses and update ISG, as appropriate;
- Provide an updated ISG addressing needed updates and responses to public comments;
- Other related tasks, as necessary

4.0 SPECIFIC TASKS

ORNL shall perform the following tasks:

Task 1: Kick Off Meeting

Prior to the initiation of work, the NRC COR will conduct a kickoff meeting via a telephone conference call to discuss the status of the draft I&C ISG and discuss any questions from ORNL. Routine telephone conversations between the NRC COR and ORNL will occur as necessary throughout the contract period.

Task 2: Proposed Draft ISG Revisions

Following the kickoff meeting, ORNL shall develop an outline of proposed revisions to the draft ISG, by subject area and system, for inclusion in the final ISG, based on knowledge of recent updates to guidance for licensing I&C upgrades. After NRC approval of the approach, ORNL shall provide a markup proposed draft I&C ISG including revisions documenting the proposed revisions to the ISG.

Task 3: Binning of Public Comments, Comment Responses and Updated Draft ISG

Following Task 2, ORNL shall review the comments received from the public comment period, bin the comments by subject area, provide responses to each comment suitable for responding, and provide a proposed draft revision to the ISG documenting the evaluation of the received comments.

Task 4: Updated Final ISG

The NRC staff will provide ORNL with comments on the proposed draft ISG revisions; ORNL shall address the staff's comments and generate the final proposed draft ISG revision. If ORNL finds other technical issues with the ISG, the Laboratory shall bring this to the attention of the NRC COR via email or telephone to obtain the NRC COR's approval prior to beginning incorporation of these other revisions.

The proposed draft ISG revisions shall be provided to the NRC COR as a Microsoft Word file, and must follow the guidance in NUREG-1379, "NRC Editorial Style Guide," Rev. 2. The proposed draft ISG revisions shall be submitted to the NRC COR by the established due date as reflected in Section 5-Deliverables and/or Milestones Schedule and shall be technically acceptable, with no spelling or grammatical errors and in a format that is compatible with the 2012 draft ISG.

5.0 DELIVERABLES AND/OR MILESTONES SCHEDULE

All deliverables shall be delivered no later than the date specified in the task order schedule and shall be submitted to the NRC COR electronically with a copy provided to the NRC Contracting Officer (CO). Any changes in the schedule must be issued via a bilateral modification to the task order. Deliverables shall be transmitted with a cover letter addressed to the NRC COR, on ORNL's letterhead, describing the contents and identifying task order number and title. Below is an estimated delivery schedule. The specific dates for these deliverables will be agreed upon between the NRC COR and ORNL after task order award.

Task Number	Deliverable/Milestone Description <i>(include NRG criteria if applicable)</i>	Due Date <i>(if any)</i>
1	ORNL to participate in Kick-Off Meeting via teleconference with NRC COR.	Within 5 days of task order award.
2	Proposed Draft ISG Revisions	One Month after task order award
3	Binning of Public Comments, Comment Responses and Updated Draft ISG.	One Month after Comment period for FRN closes
4	Updated Final ISG	Two weeks following receipt of the NRC staff comments on the proposed draft ISG revisions document.

NOTE: It is anticipated the NRC COR will require approximately two (2) weeks to review the proposed draft ISG revisions.

6.0 TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED

Specialized experience for ORNL personnel performing under this task order must meet the minimum requirements for education and experience. NRC requests resumes for each individual proposed to fill these labor categories and reserves the right to approve/disapprove individuals proposed for each labor category.

The work must be coordinated by a principal investigator who will be the staff's primary point of contact throughout the performance of the agreement. The evaluation of public comment responses and incorporation of responses and other technical content into the draft ISG must be performed by senior technical laboratory personnel with experience and familiarity with the current guidance for licensing I&C systems for NPRs, as published in NUREG-1537, "Guidance for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors," dated February 1996 and the Draft ISG to Chapter 7 of NUREG-1537 produced in 2013. The ISG updates must be performed by a senior key technical subject matter expert that has 1) B.S. in Electrical Engineering or similar technical field, and 2) minimum 3 years technical expertise in research and test reactor I&C systems similar to those at facilities currently licensed by the U.S. NRC.

7.0 MEETINGS AND TRAVEL

All travel requires written Government approval from the CO, unless otherwise delegated to the COR. The following is supported under this agreement:

It is anticipated that for performance of work, one ORNL senior key staff member will be required to attend one meeting at NRC Headquarters located in Rockville, Maryland

8.0 REPORTING REQUIREMENTS

ORNL is responsible for structuring the deliverable to follow agency standards. The current agency standard is Microsoft Office Suite 2010. The current agency Portable Document Format (PDF) standard is Adobe Acrobat 9 Professional. Deliverables must be submitted free of spelling and grammatical errors and conform to requirements stated in this section.

Monthly Letter Status Reports

In accordance with Management Directive 11.7, NRC Procedures for Placement and Monitoring of Work with the U.S. Department of Energy, the DOE Laboratory must electronically submit a Monthly Letter Status Report (MLSR) by the 20th day of each month to the Contracting Officer Representative (COR) with copies to the Contracting Officer (CO) and the Office Administration/Division of Contracts to ContractsPOT.Resource@nrc.gov. If a project is a task ordering agreement, a separate MLSR must be submitted for each task order with a summary project MLSR, even if no work has been performed during a reporting period. Once NRC has determined that all work on a task order is completed and that final costs are acceptable, a task order may be omitted from the MLSR.

The MLSR must include the following: agreement number; task order number, if applicable; job code number; title of the project; project period of performance; task order performance period, if applicable; COR's name, telephone number, and e-mail address; full name and address of the

performing organization; principal investigator's name, telephone number, and e-mail address; and reporting period. At a minimum, the MLSR must include the information discussed in Attachment 1. The preferred format for a MLSR can also be found in Attachment 1.

9.0 PERIOD OF PERFORMANCE

The duration of this Task Order will be from August 31, 2015 through January 31, 2016.

10.0 CONTRACTING OFFICER'S REPRESENTATIVE

The NRC COR monitors all technical aspects of the agreement/task order and assists in its administration. The COR is authorized to perform the following functions: assure that ORNL performs the technical requirements of the agreement/task order; perform inspections necessary in connection with task order performance; maintain written and oral communications with ORNL concerning technical aspects of the agreement/task order; issue written interpretations of technical requirements, including Government drawings, designs, specifications; monitor ORNL's performance and notify the ORNL of any deficiencies; coordinate availability of NRC-furnished material and/or GFP; and provide site entry of ORNL personnel.

Contracting Officer's Representative

Name: Duane A. Hardesty
Agency: U.S. Nuclear Regulatory Commission
Office: NRR
Mail Stop: 012D0
Washington, DC 20555-0001
Email: duane.hardesty@nrc.gov
Phone: 301-415-3724

Alternate Contracting Officer's Representative

Name: Linh Tran
Agency: U.S. Nuclear Regulatory Commission
Office: NRR
Mail Stop: 012D20
Washington, DC 20555-0001
Email: linh.tran@nrc.gov
Phone: 301-415-4103

11.0 MATERIALS REQUIRED N/A

12.0 NRC-FURNISHED PROPERTY/MATERIALS

The NRC COR will provide the following documents to ORNL in performance of work under this task order:

- The Draft ISG to Chapter 7 of NUREG-1537, Part 1 and Part 2.
- Comments provided during FRN public comment period;
- Other related information, as necessary

13.0 RESEARCH QUALITY N/A

**14.0 STANDARDS FOR CONTRACTORS WHO PREPARE NUREG-SERIES
MANUSCRIPTS N/A**

15.0 OTHER CONSIDERATIONS

References

N/A

Access to Non-NRC Facilities/Equipment

N/A

Applicable Publications

N/A

Controls over document handling and non-disclosure of materials

N/A