

January 31, 1994

Mr. John D. Wagoner, Manager
Richland Operating Office
U.S. Department of Energy
P.O. Box 550
Richland, Washington 99353

Dear Sir:

SUBJECT: PLACEMENT OF TASK ORDER NO. 3 UNDER J-2035

This letter transmits the statement of work for the subject task order which has been discussed and agreed upon with Ms. Cindy Stevens of PNL and is based on the PNL proposal of January 27, 1994. The cost ceiling established for this task order is \$11,000. The funds allocated to this task order will not be redirected to other task orders within this Job Code Number without prior written authorization from the NRC. PNL is authorized to proceed in performing the work specified in the enclosed statement of work.

In accordance with the procedures contained in this project statement of work, please confirm your acceptance of this task order by signing below and returning this letter to me within 10 working days of receipt.

If you have any questions concerning acceptance of this task order, please call the Project Manager Amira M. Gill on 301-504-1212. Thank you for your assistance.

Sincerely,
Original signed by F. Congel
Frank Congel, Director
Division of Radiation Safety and
Safeguards
Office of Nuclear Reactor Regulation

Enclosures:
As stated

002093

cc w/enclosures:
G. Cicotte, PNL
C. Stevens, PNL

PEC-1A (Contracts Proposals)
x PEC-1-3 (Subcontractors)
x 48M-7 (Doc)

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By concurring in this contract action, I certify that I do not have a personal or financial interest in the contractor who will be performing the work.

Accepted: 030061
DOE/PNL

DATE

OFC	DRSS:NRR	DRSS:NRR			
NAME	AGill <i>Amg</i>	FCongel	<i>JK</i>		
DATE	1/31/94	1/31/94	<i>gill</i>		
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STATEMENT OF WORK

TITLE: EMERGENCY ACTION LEVELS REVIEWS

JOB CODE #: J-2035

B&R NUMBER: 1404

TAC #s: Callaway: M88479
Wolf Creek: M88435
WNP2: M88504

NRR PRIORITY NUMBER: 1

NRC TECHNICAL MONITOR: Lawrence K. Cohen, NRR/PEPB
301-504-2923

NRC PROJECT MANAGER: Amira M. Gill, NRR/DRSS
301-504-1212

A. BACKGROUND

Section 50.47(b)(4) of 10 CFR Part 50 requires each reactor licensee to develop... "A standard emergency classification and action level scheme, the bases of which include facility system and effluent parameters..." The guidance in NUREG-0654/FEMA-REP-1 repeats the planning standard and further defines this scheme by providing amplifying information in the form of evaluation criteria. The criteria stipulate that "specific instruments, parameters or equipment status shall be shown for establishing each emergency class...and...shall identify the parameter values and equipment status for each emergency class." The guidance further states that the initiating conditions shall include the example conditions found in Appendix 1 of NUREG-0654.

It is on the basis of the above information that the licensees develop emergency action levels to ensure that the various initiating conditions are appropriately recognized, the correct emergency classification is declared, and the necessary operator actions are initiated.

In April 1990, the Nuclear Management and Resources Council, Inc. (NUMARC) published a document entitled "Methodology for Development of Emergency Action Levels," NUMARC/NESP-007. In January 1992, NUMARC published Revision 2 of this document based upon NRC and industry comments. The document provides licensees with an alternative approach to the development of emergency action level schemes for nuclear power plants. The NRC has endorsed this document in Revision 3 to Regulatory Guide 1.101 as an acceptable alternative to the guidance in NUREG-0654, Appendix 1.

B. OBJECTIVE

The objective of this solicitation is to obtain the services of technical experts in emergency planning and nuclear power plant operations to assist the Emergency Preparedness Branch (PEPB) in reviewing revisions to the emergency classification and emergency action level (EAL) schemes of Callaway, Wolf Creek, and WNP2 nuclear power plants. Standards and criteria for these reviews are embodied in NRC regulations and guidance.

Technical and Other Special Qualifications Required

To perform this task described above, the contractor shall have the following combination of experience and qualifications:

1. Broad experience in operational aspects of nuclear power plants.
 - Comprehensive knowledge of plant systems, operations, and procedures.
2. Extensive knowledge of and experience in emergency preparedness at nuclear power plants.
 - a. In-depth knowledge of plant systems and operations in response to upset conditions and accident transients.
 - b. Thorough familiarity with plant classification schemes and their relationship to Emergency Action Levels (EALs), based on observable plant parameters, using NUREG-0654 and NUMARC/NESP-007 guidance.
 - c. Thorough familiarity with Emergency Operating Procedures (EOPs), Emergency Preparedness Implementing Procedures (EPIPs), and their interrelationship and use during emergencies.
 - d. Technical familiarity with Emergency Response Facilities (ERFs) staffing, functions and operations.
 - e. In-depth knowledge of the duties and responsibilities of control room and technical support staff for routine and emergency operations.
 - f. In-depth knowledge of emergency dose projection systems and offsite interface functions.
 - g. Extensive experience in observing the implementation of emergency action level procedures by control room and technical support center staff in NRC-evaluated exercises.
 - h. Thorough knowledge of radiation protection practices onsite and offsite during the mitigation activities following an accident.

- i. Experience in the writing and evaluation and review of emergency plans and EIPs for nuclear power plants.

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 task order including assurance that all information contained in the technical and cost proposals, including resumes, is accurate and truthful.

C. WORK REQUIREMENTS AND SCHEDULE

1. The contractor shall provide the necessary qualified personnel, facilities, materials, and services to review the licensee submittals of revisions to their emergency classification and EAL schemes against current NRC regulations and guidance or against previously approved EALs, as appropriate. The technical monitor will direct the contractor.
2. The contractor shall provide a draft report for initial review by the technical monitor followed by a final version incorporating NRC's comments. All reports should be typed and on a 3½-inch diskette in a format allowing NRC to revise output using WordPerfect 5.1.
3. For each EAL submittal reviewed, the contractor shall perform the following and document it in a technical evaluation report:
 - a. State and describe the proposed changes.
 - b. Identify applicable guidance from examples in NUMARC/NESP-007, Revision 2.
 - c. Compare the proposed version with applicable NRC guidance in NUMARC/NESP-007, Revision 2.
 - d. Evaluate any differences to determine whether the proposed changes are consistent with the NRC guidance and will meet NRC standards.
4. If, in the course of a review, questions arise concerning the adequacy or acceptability of EALs or other emergency plan items which are not part of the submittal, the contractor shall bring the matter to the attention of the technical monitor, who may ask the contractor to provide the following in writing for each such EAL or item:
 - a. A statement of the current EAL or emergency plan item.
 - b. A statement of the applicable NRC criteria or example conditions in NUMARC/NESP-007, Revision 2.

- c. A description of the differences, if any, between the emergency plan item or the licensee's EAL and pertinent NRC requirements and guidance.
 - d. An evaluation of whether the item or EAL in question meets NRC requirements.
5. If the licensee's submittal does not include sufficient information for any reviews being conducted under this contract, the contractor will describe to NRC what additional information should be requested from the licensee and review such material when received and incorporate the new information into its report.
6. The contractor should identify minor changes such as editorial changes or other nonsubstantive changes in licensees' submittals and should not analyze or review such changes.
7. To fully satisfy the objectives, the contractor shall support the NRC staff following delivery of the final deliverables specified above. This support shall consist of, for example, answering staff questions on the final deliverables and attending meetings with NRC management and others to discuss the results of the work specified in this statement of work. The contractor shall be available to provide such support throughout the task order period of performance. All such support shall be coordinated through the NRC technical monitor.

8. Task

Completion Schedule

Draft Report

Within two weeks of receipt of the licensee's submittal and other supporting documentation as required by the contractor.

Final Report

Within one week after receiving NRC's comments.

D. MEETINGS AND TRAVEL

No trips are anticipated to discuss these EAL schemes.

Except for local travel, the contractor shall obtain prior oral or written approval of the NRC technical monitor for any travel to be taken under this task order.

E. ESTIMATED LEVEL OF EFFORT

The level of effort is 2 man weeks/EAL scheme.

F. PERIOD OF PERFORMANCE

The period of performance shall begin on January 15, 1994, and shall continue through March 30, 1994.

G. APPLICABLE SPECIAL PROVISIONS

The work specified in this SOW is fee recoverable.

It is the responsibility of the contractor to assign technical staff, employees, subcontractors, or consultants 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 task order including assurance that all information contained in the technical and cost proposals, including resumes, is accurate and truthful.

H. NRC FURNISHED MATERIALS

Work packages will be provided by the technical monitor in agreement with Section C of the basic contract. This will include the following:

1. Current or proposed emergency plan, EAL scheme or implementing procedures needed to perform review.
2. Previously approved emergency plan, EAL scheme or implementing procedures needed to perform review.
3. Any supporting documentation from the licensee which is required to adequately perform review.