Kinney, Penelope

From: Sent:

Cook, John

Friday, July 31, 2009 3:07 PM

To: Cc: Kinney, Penelope Pstrak, David

Subject:

Revised ORNL STATEMENT OF WORK

Attachments:

New STATEMENT OF WORK Rev2.doc

Penny-

Please find attached revised ORNL statement of work - minor changes made to contamination task, SFTRA review task schedule, and other items. Left concurrence package (including hardcopy of the attached version) on your chair. Call with any questions. Thanks.

-John

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STATEMENT OF WORK

Project Title: Program Support International and Domestic Transportation Safety Regulatory

Job Code Number:

B&R No.:

Technical Project Manager (TPM): John Cook, SFST, (301) 492-3318

Technical Assistance

Project Manager (TAPM): Performing Organization: Penny Kinney, PMDA, (301) 415-7805 Oak Ridge National Laboratory (ORNL)

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1.0 Background

The roles of the Department of Transportation (DOT) and the Nuclear Regulatory Commission (NRC) in the regulation of the transportation of radioactive materials were described in a memorandum of understanding (MOU) signed on June 8, 1979. Generally, the DOT is responsible for regulating safety in transportation of all hazardous materials, including radioactive materials, and the NRC is responsible for regulating safety in receipt, possession, use, and transfer of byproducts, source, and special nuclear materials. The NRC reviews and approves or denies approval of package designs for fissile materials and for other radioactive materials (other than low specific activity materials) in quantities exceeding Type A limits, as defined in 10 CFR Part 71.

The MOU recognizes DOT as the national competent authority with respect to the administrative requirements set forth in the regulations for the Safe Transport of Radioactive Materials of the International Atomic Energy Agency (IAEA). Under the MOU, the NRC is responsible for providing to the national competent authority (DOT) technical support and advice pertaining to the transportation of radioactive materials.

The DOT also acts as the representative of the United States to the IAEA and other international groups on matters pertaining to the administrative and safety regulatory aspects of the transportation of radioactive materials. Under the MOU, the NRC is responsible for providing technical support and advice to the DOT in this capacity.

The American National Standards Institute (ANSI) N14 Committee engages in the development of industry standards that benefit radioactive material packaging and transportation safety. NRC is supporting the continuing operation of this Committee to preserve accrual of these safety benefits to the transport community.

NRC engages in research activities to support the international and domestic transportation safety regulatory program. NRC requires technical support in this regard.

The objective of this agreement is to support NRC's safety mission in the transportation of radioactive materials. Specific support activities include the following:

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- Development, review and revision of international (e.g., IAEA) transportation safety regulations and guidance, including development, review and comment of related documents, participation in Coordinated Research Projects (CRP), international meetings or conferences, or other activities.
- Development, review and revision of domestic transportation safety regulations and guidance, other supporting documents and activities, including those addressed in the DOT/NRC MOU.
- Development, evaluation or review of transportation environmental impacts, including statements and assessments, and expert peer review of NUREGS and other reports.
- ANSI N14 Committee activities.

3.0 Purpose

The purpose of this agreement is to obtain the technical assistance necessary for the NRC to satisfy transportation safety programmatic needs. Since the NRC provides significant support for international and domestic transportation safety regulation, specialized technical assistance in fulfilling its obligations is required. This includes support for compatible or adjunct domestic transportation safety regulatory activities. The assistance needed under this agreement is recurring; however, specific needs in terms of subject area or level of effort required cannot be entirely forecast in advance. Therefore work will be added under tasks as needs develop.

4.0 Expertise and Disciplines Required

The performing organization shall assure that the principal investigator is a nationally and internationally recognized radioactive material technical expert. The principal investigator shall be a scientist or engineer with in-depth experience in IAEA, U.S. DOT and NRC transportation safety and security responsibilities, internal organizations and their functions and rulemaking activities. In particular, the principal investigator shall have had experience in the development of current and previous IAEA, U.S. DOT, and NRC transportation safety and security regulations and guides. The principal investigator shall have demonstrated recent IAEA experience. The principal investigator must possess outstanding oral and written communication skills.

For the Peer Review Panel of Experts further described in Task 5 below, the Panel member's nationally and/or internationally recognized expertise will include structural, mechanical, thermal, materials, spent fuel composition and behavior, finite element modeling, and analytical codes including PRONTO, PRESTO, and MELCOR and transportation risk assessment codes including RADTRAN and RISKIND.

5.0 Work to be Performed

The principal investigator shall either perform or provide technical oversight and continuity for all work performed on this project.

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All work under this agreement will be assigned on a task basis. Currently the NRC has identified work under the following tasks. Additional tasks with work requirements and funding will be incorporated into this agreement as new needs arise.

Task 1. International Transportation Safety

ORNL shall develop draft revisions and review and comment on proposed revisions to the international (e.g., IAEA) radioactive material transportation safety regulations, guidance and related documents. ORNL shall also prepare materials for and participate in Coordinated Research Projects (CRP), international meetings or conferences, or other activities. ORNL shall provide support for international regulatory and guidance changes related to radioactive material transportation safety and security, including preparation of rule and guidance text and impact assessments for Subtasks 1 and 2 below.

Subtask 1. Package surface contamination support.

A proposal for package surface contamination limits has been developed for TRANSSC, that is dose-based, radionuclide-specific, and provides relief for SNF package surface contamination, yet still retains the 4 Bq/cm² (beta and gamma emitters) and 0.4 Bq/cm² (alpha emitters) values for those member states with commitments to that value. This task involves coordination among parties including the United Kingdom's (U.K.) Health Protection Agency (HPA) and member states to confirm dose-based contamination limit values and capping rules. The practicality and complexity (or ease of) implementing the recommendations and methodology proposed for this proposal should be addressed. The evaluation should include identification and resolution of possible issues and problems. The results of these analyses shall be presented in letter reports, technical papers and presentations as needed to support the presentation of results to IAEA and other forums.

Subtask 2. Naturally Occurring Radioactive Material (NORM)

This task shall evaluate the apparent double standard related to exemptions for shipments of natural ores or NORM as compared with materials that are intended to be processed for their radionuclides, and develop the basis for a similar exemption for material with equivalent risk. Evaluation results shall be provided in letter reports and submitted to the TPM. This task includes detailed analysis of the exposure scenarios and treatment of daughter products in setting the exemption values, particularly to determine if the exposure scenarios are appropriate for: Th-natural, U-natural, a mixture of radionuclides representative of pipe scale, and a mixture of radionuclides typical of a rare earth ore. ORNL shall determine if there is any adequate risk-basis or other bases for differentiating between materials that are intended for processing to use their radionuclides and other materials, taking the daughter products into account in both cases.

ORNL shall provide support for NRC participation in the IAEA Coordinated Research Program (CRP) on exemptions for low level materials. Technical analysis shall be performed as described in the U.S. proposed research agreement "Evaluation of Public and Worker Doses due to the Transport of Low Level Material". This effort includes preparing for and participating in one or more foreign meetings related to the CRP. Results shall be documented and reported to the IAEA CRP and may include one foreign trip.

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Deleted: ORNL shall develop a path forward for SNF package surface contamination limits and provide technical support regarding contamination issues. Technical analysis shall be performed to evaluate alternative contamination limits for transport packages and potential implications of these limits for public and worker doses due to contamination on spent nuclear fuel casks. These evaluations shall build on previous results and shall support development of proposed changes to the IAEA Regulations for the Safe Transport of Radioactive Material The CRP Basic Model and the WNTI model results shall be used with a suitable reference dose to define defensible radionuclide-specific package contamination limits. These limits shall be evaluated using the methodology of NUREG/CR-6841 to determine the degree to which they are risk-informed. The results of these analyses shall be presented in technical papers and presentations as needed to support the presentation of results to the appropriate IAEA forums. ¶

More specifically, a

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Deleted: This task involves coordination among parties including the United Kingdom's (U.K.) Health Protection Agency (HPA) and member states to confirm dosebased contamination limit values and capping rules.

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Subtask 3. A₁/A₂ values

The general transportation safety aspects for radioactive materials in transit shall be reviewed by reconsideration of the A1/A2 values, based on revision of ICRP dose coefficients and other factors. This work may also include review and possible revision of the Q-system, and contributing to the development of computer codes to calculate A_1/A_2 values. This subtask may require coordination with the U.K. HPA. ORNL shall provide support for international regulatory and guidance changes regarding A_1/A_2 and exemption values, including preparation of rule and guidance text and impact assessments. One foreign trip may be required to support this subtask.

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Task 2. Domestic Transportation Safety

ORNL shall develop, review and revise domestic radioactive material transportation safety regulations and guidance, and other supporting documents and activities, including those addressed in the DOT/NRC MOU.

Subtask 1. ORNL shall support current NRC rulemaking activity for compatibility changes to 49 CFR and 10 CFR and for other domestic regulatory changes, including preparation of rule and guidance text and impact assessments.

Subtask 2. ORNL shall update and provide laminated charts that summarize domestic radioactive material transportation safety requirements for NRC and state inspectors.

Subtask 3. ORNL shall update NUREG-1660 "U.S.-Specific Schedules of Requirements for Transport of Specified Types of Radioactive Material Consignments" (January 1999) based on the most recently published IAEA Schedules and US Department of Transportation regulations.

Task 3. Transportation Impact Assessments

ORNL shall develop, evaluate or review transportation environmental impacts, including statements and assessments, and conduct expert peer review of NUREGs and other reports.

Subtask 1. Expert Peer Review of Draft NUREG on Spent Fuel Transportation Risk

Assessment prepared by Sandia National Laboratories (SNL)

Oak Ridge shall convene a panel of internationally recognized experts on spent fuel transportation to review and provide comment on the SNL Draft NUREG on Spent Fuel Transportation Risk Assessment, and, at request of the NRC TPM, review and provide comment on SNL proposed responses to public comments on the draft NUREG. The Panel member's areas of expertise shall include structural, mechanical, thermal, materials, spent fuel composition and behavior, finite element modeling, analytical codes including PRONTO, PRESTO, and MELCOR and transportation risk assessment codes including RADTRAN and RISKIND.

The Panel shall commence its review of the Draft NUREG once the document has been provided by the NRC TPM. The Panel should consider previous related efforts for background and context for its review. In conducting its review, the Panel should determine whether the assumptions are appropriate and whether the results are accurate, and may include verification of input and output values, and full confirmatory analyses are not required but may be performed if deemed necessary. The Panel shall comment on Draft NUREG technical bases, assumptions, summaries, results and comparisons, including identification of any errors of commission or omission. The Panel comments shall also

address text clarity, cohesiveness, conciseness, and overall accessibility to content for members of the public, including the layout, figures, tables and diagrams. The Panel shall also address in its comments individual factors or values that could understate or overstate actual likely spent fuel transportation risks, and provide an overall assessment in this regard. Members of the Panel shall participate in a meeting at Sandia National Laboratories to identify, discuss, and resolve comments on the Draft NUREG. The Panel may be asked to support a public meeting on the Draft NUREG.

At the direction of the NRC TPM, the Panel may also be asked to review and comment on SNL's proposed responses to public comments to ensure comments have been appropriately binned/combined, that issues have been properly characterized/summarized, and that responses are clear, complete, and have sound technical bases. The Panel shall provide its comments to the NRC TPM.

Subtask 2. Transportation Incident Database

ORNL shall determine the feasibility of developing and maintaining a capability to produce U.S. data entry to IAEA's EVTRAM, and produce reports on annual U.S. radioactive material transportation incidents and accidents. This subtask has the following three subtasks:

Subtask 2.1. Conduct a scoping study to determine the requirements to establish the database: 1) examine data needs; 2) identify data resources; 3) identify/resolve compatibility issues and other potential problems. Issues to address include how to expand/supplement the 40 data fields collected in Hazardous Materials Incident Reports (HMIR) to satisfy the 80 data fields requested by IAEA shall be identified and proposed solutions to those issues developed. Also, for accidents involving Type B or fissile packages, approaches shall be identified on how to collect information on accident forces that currently are not captured by DOT or IAEA. The Department of Energy's Transportation's Radioactive Material Incident Reports (RMIR) and the Nuclear Material Event Database (NMED) should be considered as possible starting points. (Note: no actual data collection, analysis, etc. is to be conducted in this phase); and 4) provide an estimate of the costs to establish and maintain a database annually.

Subtask 2.2. Establish test database using input from information provided to DOT via Hazardous Material Information Reports (HMIR) and other sources as identified in Phase 1. Provide presentation on test results to TPM.

Subtask 2.3. Upon NRC approval, conduct ongoing effort to collect the incident information and add it to the database, provide the U.S. input to EVTRAM electronically, and prepare annual summary reports as a metric of radioactive material transport safety.

Task 4. Development of National Consensus Standards

ORNL shall ensure the operation of the N14 Committee as an American National Standards Institute (ANSI) accredited Standards Development Organization. N14 shall develop and maintain ANSI approved standards for the packaging and transportation of radioactive material, including spent nuclear fuel.

The N14 Committee shall perform specific activities to ensure the continued functioning and accreditation of N14. Specifically, N14 shall continue to:

1. Provide management and administrative functions required for all N14 proper initiation of new standards projects; circulating standards for balloting; ensuring proper handling of balloting results and comment resolution; formal sübmission of approved standards to ANSI for final compliance with these procedures; and performing other activities required to maintain N14's accredited status with ANSI;

2. Assist ANSI in the performance of periodic audits of N14 including providing records and

2. Assist ANSI in the performance of periodic audits of N14, including providing records and information as needed;

- 3. Organize and host the annual N14 Committee and N14 Management Committee meeting;
- 4. Initiate the development of new standards or the revision of existing standards that are of particular interest to governmental and industry bodies involved in spent fuel packaging and transportation activities:
- 5. Provide easy access to N14 standards, both electronically and in print; and
- 6. As requested by the NRC TPM, initiate the development of specific standards related to spent fuel packaging and transportation.

The N14 Committee shall be continued as an American National Standards Institute accredited Standards Development Organization. N14 shall:

- Respond to ANSI audit findings, identify any revisions needed to its operating procedures, and implement these revisions
- 2. Ensure the timely revision and maintenance of standards related to radioactive material packaging, particularly those related to spent fuel transportation
- 3. Establish web-based access to the N14 standards

ORNL shall prepare all draft and final products in an appropriate format. All reports shall be edited and reviewed by ORNL and checked in accordance with the quality assurance requirements addressed under Section 13. Within the schedule identified under Section 6 and after receipt of NRC comments, the performing organization shall revise the draft report, incorporate the resolution of comments, and submit a camera-ready copy and an NRC-compatible, electronic media copy of the final report.

The letter reports that shall be prepared for the above tasks are identified in section 10.0.

6.0 Deliverables and Schedule

The deliverables required under each subtask with the anticipated time for delivery are provided below. All deliverables shall be provided to the NRC TPM.

Task 1. International

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Subtask 1 (Contamination)

Provide response to comments on the IAEA change proposal on package surface contamination limits in TS-R-1 and related guidance in TS-G-1.1 (dates to be determined by IAEA). Any operational or implementation issues shall be identified and resolved.

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Subtask 2 (NORM)

Prepare for and participate in the 3rd Research Coordination Meeting of the NORM Coordinated Research Project at IAEA Headquarters in Vienna (November 2009). Complete development and execution of the U.S. (NRC) NORM research plan, and provide a letter report on the effort by December 31, 2009. Provide responses to member state comments on the IAEA change proposal on NORM exemption limits in TS-R-1 and related guidance in TS-G-1.1 (dates to be determined by IAEA). Any operational or implementation issues shall be identified and resolved.

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At the direction of the TPM, support a consultants meeting (date to be determined by IAEA) to prepare a final report on the Coordinated Research Program.

Subtask 3. (A₁/A₂ values)

Provide a letter report summarizing revised A_1/A_2 values, other work completed, and any codes developed. [Work not yet started; dates TBA.]

Task 2. Domestic

Subtask 1. (Domestic rules) Provide rule and guidance text, impact assessments and supporting materials on the schedule to be established by the NRC's Office of Federal and State Materials and Environmental Management Programs (FSME).

Subtask 2. (Charts) Provide updated laminated charts summarizing NRC and DOT transportation safety regulations by June 30, 2010.

Subtask 3. (Schedules) Provide final copy of domestic transportation schedules by September 30, 2010.

Task 3. Assessments

Subtask 1. (Peer review)

Provide Peer Review comments on SNL Draft SFTRA NUREG in a letter report.

At direction of NRC TPM, provide Peer Review comments on draft SNL responses to public comments on Draft SFTRA NUREG in a letter report.

The following table provides an estimate of the dates and periods for the Peer Review Group NUREG review and comment related activities. The dates and sequence of these activities are subject to change:

Rev 0 draft NUREG to NRC	12/18/09	*			
NRC comments to SNL	2/12/2010				
Peer review (ORNL)	3/8 - 7/20/2010				
NRC provides Rev 1 draft NUREG to peer review group 3/8/10					
Peer review group questions to SNL	4/30/10				
SNL presentation to peer review group	5/3-4/10				
Peer review preliminary findings	6/1/10				
Peer review clarifications	6/8/10				
Peer review final findings	7/6/10				
SNL provides Rev 2 draft NUREG	7/20/10				
Publish Draft & Public comment	9/1 – 11/2/2010				
Final draft NUREG to NRC	1/11/2011				

Subtask 2. (Database)

Subtask 2.1. Provide a scoping study, including a description and resolution of data collection/database issues.

Subtask 2.2. Provide a test database, including a presentation/demonstration.

Deleted: Participate in the final Research Coordination Meeting, November 2009, in Vienna, Austria.¶.

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NUREG 8 wks 3/31/10 . Tue 5/25/10 ¶ Public Comment Period & Initial Peer Review . . 9 wks . 5/26/10 . Tue 7/27/10 ¶ Support Public Meetings days . . Wed 6/30/10 . Mon 7/5/10 ¶ Continued Peer Review days . Wed 7/28/10 . Thu 11/18/10 \P NRC provides report and comments to Peer Rev. 4 wks . Wed 7/28/10 . Tue 8/24/10 ¶ Peer review group questions to SNL . . 4 wks . Wed 8/25/10 . Tue 9/21/10 ¶ Sandia presentation to peer review group (at SNL) . 2 days . . Wed 9/22/10 . Thu 9/23/10 ¶ Peer review preliminary findings 4 wks . . Fri 9/24/10 . Thu 10/21/10 ¶ Peer review final findings wks . . Fri 10/22/10 . Thu 11/18/10 ¶ [Report Comment Resolution - by SNL . 130 days . Fri 10/22/10 . Thu 4/21/11] ¶ Peer review clarifications wks . . Fri 10/22/10 . Thu 11/11/10 ¶ [Public and peer review responses by SNL . . 10 wks . . Fri 11/19/10 . Thu 1/27/11] ¶ Iterations on final report. 12 wks . . Fri 1/28/11 . Thu 4/21/11 §

Subtask 2.3. Provide database, data updates, data input to IAEA, and summary reports of transportation incidents.

Provide letter status report of all 3 subtasks by November 15, 2011.

Task 4. (ANSI)

Provide management and administrative functions as described, including hosting meetings, conducting audits, and providing access to N14 Committee Standards and documents. This is an ongoing task, with continuing annual level of effort. The TPM may audit meetings of N14, and/or its partner organization, the Institute of Nuclear Materials Management (INMM), to monitor progress and outcomes.

7.0 Period of Performance

The period of performance for this project commences on August 1, 2009 and shall continue until November 30, 2011.

8.0 Estimated Level of Effort

The estimated level of effort for this project is identified below.

Task 1. 14 staff weeks

Task 2. 13 staff weeks

Task 3. 38 staff weeks

Task 4. 21 staff weeks

9.0 Meetings and Travel

It is estimated that one trip to Rockville, MD to consult with NRC technical staff on Tasks 1 and 2 during each year will be required. Task 1 might require one foreign trip each year. Approval from the NRC is required prior to each foreign trip and a trip report shall be submitted to the TPM.

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Task 3 includes 3 person-trips to review SNL draft NUREG, and identify and resolve peer and public comments. Task 3 may include 3 person-trips to support a public meeting on the draft NUREG. Task 3 may also include 1 foreign trip for a foreign expert to participate in peer review and comment and resolution process. Approval from the NRC is required prior to each foreign trip and a trip report shall be submitted to the TPM.

Task 4 may require 3 person trips of 3 days each - 2 for N14 meetings in Washington, DC and 1 for the INMM Executive Committee meeting. An additional 2 trips are anticipated for Subtask 1 of Task 4.

NRC personnel may meet at the performing organization's facilities, as mutually agreed, to review interim progress on tasks throughout the period of performance. Meeting notes shall be taken and distributed in accordance with Section 11.0 of this SOW.

10.0 Project Status Reports

The performing organization shall submit a Monthly Letter Status Report (MLSR) by the 20th day of each month with distribution as shown below. The MLSR should contain, at a minimum, all of the required information as shown MD 11.7, Exhibit 12, "Monthly Letter Status Report Requirements."

11.0 Distribution of Deliverables

The following summarizes the required report distribution under this SOW. The NMSS TPM shall provide the performing organization with current NRC mailing addresses for this distribution.

TASKS 1-4

-	Monthly Letter Status	Meetings Workshops & Trip	Draft Formal Tech.	Final Formal Tech.
Distribution	Reports	Reports	Reports	Reports
NMSS TPM	1	1	1	1
NMSS TAPM	1	1	5	1*
SFST Pgm				
Coordinator	1			
Div. of Freedom of				
info. and Pub.				
Services (FIPS)	0	0	0	1 ·

^{*} Camera-ready and electronic media

12.0 Technical/Project Direction

Technical Assistance Project Manager (TAPM): Technical Project Manager (TPM):

Penny Kinney John Cook

The NMSS TAPM is the focal point for all contract-related activities. All work assignments and program funding actions are initiated by the NMSS TAPM. All proposed work scope or schedule changes must be processed through the NMSS TAPM.

The NMSS TPM is responsible for providing technical guidance to the performing organization regarding staff interpretations of the technical aspects of regulatory requirements along with copies of relevant documents (e.g. Regulatory Guides) when requested by the performing organization. All work products must be reviewed and approved by the NMSS TPM before they are submitted as final documents. All technical direction given to the performing organization must be consistent with the work scope and schedule. The NMSS TPM is not authorized to unilaterally make changes to the approved work scope or schedule or give the performing organization any direction that would increase costs over approved levels.

Directions for changes in cost or period of performance will be provided by the DOE Operations Office after receipt of an approved Standard Order for DOE Work (SOEW) (NRC Form 173) from the Office of Nuclear Material Safety and Safeguards. If the performing organization receives guidance which is believed to be invalid under the criteria cited above, the performing organization shall immediately notify the NMSS TAPM. If the NMSS TAPM and the performing organization are unable to resolve the question within five days, the performing organization shall notify the DOE Operations Office.

13.0 Quality Assurance

- 13.1 For all draft and final reports delivered under this agreement, the performing organization shall assure that an independent review and verification of all numerical computations and mathematical equations and derivations are verified by qualified personnel other than the original author(s) of the reports. If the performing organization proposes to verify/check less than 100 percent of all computations and mathematical equations and derivations in the report(s) (such as might be the case when there are a large number of routine, repetitive calculations), the performing organization must first obtain written approval from the NMSS TPM. Computer generated calculations will not require verification where the computer program has already been verified. The NMSS TPM has the option of auditing all documentation including project correspondence, drafts, calculations and unrefined data.
- 13.2 In addition, all reports, including those which do not contain numerical analyses, must be reviewed by the performing organization's management and approved with two signatures, one of which is for the performing organization's management at a level above the program manager.
- 13.3 When revisions for the reports are issued, a section must be included in the revised report to document dates of, reasons for, and the scope of all changes made since the issuance of the first performing organization's approved report.
- 13.4 NRC has the option of appointing a Peer Group to review the draft report and make changes to the final report. The performing organization may recommend candidates for the Peer Group for approval by the NMSS TPM. On the occasion of dissent in the content of the final report, the dissenting party will have the option of stating its viewpoints and findings in a section of the report. Alternative QA plans should be submitted for NRC review and approval.

14.0 Conflict of Interest

DOE recognizes that Section 170A of the Atomic Energy Act of 1954, as amended, requires that NRC be provided with disclosures on potential conflicts when NRC obtains technical, consulting, research and other support services. DOE further recognizes that the assignment of NRC work to DOE laboratories must satisfy NRC's conflicts standards. Accordingly, when NRC enters into an agreement with a DOE laboratory to perform work for NRC, and during the life of the agreement, the laboratory shall review its current work, planned work and where appropriate past work for DOE and others (meaning, organizations, in the same/similar technical area as the NRC project scope of work, e.g., (included but not limited to), NRC licensees, vendors, industry groups or research institutes that represent or are substantially comprised of nuclear utilities) to determine whether such work is in the same or similar area as the proposed NRC project. Should that review reveal current or planned work for DOE or others in the same or similar technical area as the proposed NRC work, the laboratory shall provide name of organization, dollar value, and period of performance of the work identified as

well as descriptions of such potentially conflicting present/planned/past work to NRC. NRC shall then determine whether a conflict would result and, if one does, determine, after consultation with the laboratory and DOE, the appropriate action NRC or DOE should take to avoid the conflict or when appropriate under NRC procedures, waive the conflict.

15.0 Disposal of Property

Management of property purchased under this Interagency Agreement will follow the procedures as stated in Part VIII of Management Directive (MD) 11.7.

16.0 DOE-Acquired Material

In accordance with MD 11.7, Part IX, Section B, the laboratory proposal must include a description of the property required for project performance that has an estimated acquisition cost of \$500 or more. The proposal must also identify the potential development of NRC-funded software during the project. NRC-funded software is software specifically developed for NRC by the laboratory and is generally the deliverable for the project. After the NRC reviews the list of property and NRC-funded software included in the laboratory proposal, any questions regarding the acquisition of property or the development of NRC funded software will be addressed with the laboratory during negotiations. After negotiating project terms and conditions, NRC shall issue NRC Form 173, "Standard Order for DOE Work" authorizing the work and approving acquisition of property or development of NRC funded software.

Laboratories shall submit a written request to the NRC project manager for approval to develop additional NRC-funded software or purchase additional property with an estimated acquisition cost of \$500 or more after work initiation. The project manager shall approve or disapprove the acquisition or development of any additional items in writing.

DOE Laboratories shall report property, including software, with an acquisition cost of \$500 or more in the monthly letter status report in the month the property or software was acquired. DOE laboratories shall forward a copy of all monthly letter status reports to the NRC Division of Contracts, Office of Administration, in addition to regular distribution, DOE laboratories shall provide the information listed in MD 11.7, Part IX, Section B, paragraph (1), item (f) for each item reported as appropriate, in the monthly letter status report.

17.0 NRC-Furnished Material

None