Department of Energy
National Nuclear Security Administration
Washington, DC 20585

May 23, 2008

MEMORANDUM FOR MICHAEL C. KANE
ASSOCIATE ADMINISTRATOR
FOR MANAGEMENT AND ADMINISTRATION

THROUGH: INGRID KOLB
DIRECTOR
OFFICE OF MANAGEMENT

FROM: ROBERT L. SMOLEN
DEPUTY ADMINISTRATOR
FOR DEFENSE PROGRAMS

SUBJECT: **ACTION:** Notice of Intent to Revise Department Of Energy (DOE) Order 452.1C, *Nuclear Explosive and Weapon Surety Program;* DOE Order 452.2C, *Nuclear Explosive Safety*; DOE Order 452.3, *Management of the Department of Energy Nuclear Weapons Complex;* DOE Order 452.6, *Nuclear Weapon Surety Interface with the Department of Defense*; DOE Manual, 452.2-1, *Nuclear Explosive Safety Manual.*

PURPOSE: To align the 452 Series of orders and manuals with the current organization structure and streamline and remove redundancy in the requirements. Additionally, correct some issues in the orders and manuals.

1. 452 series as a whole:

   - The responsibilities have been reviewed as they exist currently in the orders and manuals. They have been streamlined by removing duplicative responsibilities that derive from other orders and manuals and removal of superfluous requirements.

2. DOE Order 452.4, *Security and Control of Nuclear Explosives and Nuclear Weapons*, is currently in the revision process and the responsibilities changes will be reflected in that revision.

3. DOE Manual 452.2-2 is completing RevCom and revision and the responsibilities changes will be reflected prior to publishing.

4. In DOE O 452.1:

   - Surety Standards have been updated.

   - Reference changes that correct the references to superseded directives.

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- Removal of definitions that no longer apply to the order.

5. In DOE O 452.2:

   - Change the Nuclear Explosive Safety Standards to coincide with the new Surety Standards. The impetus for the change to the Nuclear Explosive Surety Standards stems from the Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 98-2 to the Secretary of Energy. The NNSA response was the Nuclear Explosive Safety (NES) Top-Down Review (TDR) which recommended changes to the Nuclear Explosive Surety Standards. This change incorporates changes as recommended by NES TDR and the Office of Nuclear Weapon Surety and Quality in conjunction with DNFSB and the Surety Community.

   - A change to 452.2 to change the prerequisite requirement for a Nuclear Explosive Safety Study to allow the safety basis to be in formal change control rather than having been "completed." This removes the ambiguity of the word "completed" and provides a start point that is traceable. In addition, the change incorporates a correction of the definition of Deliberate Unauthorized Use, bringing it up-to-date.

   - Change transportation requirements to prevent mixing of Nuclear Explosives with other items.

   - Removal of definitions that no longer apply to the order.

   - Clarify that Site Office Managers have the responsibility and authority to address and close post-start findings from NES evaluations.

6. In DOE M 452.2-1:

   - Change transportation requirements to prevent mixing of Nuclear Explosives with other items.

   - Add some missing pieces from AL SD 452.2 that should be in 452.2-1, i.e., electric equipment list, Cat 1 computer-controlled testers, metrology operations, some Cat 2 equipment expansion, and on-site transportation of Nuclear Explosives.

7. In DOE M 452.4-1B:

   - Updating to reflect current requirements, policy, and guidance.

   - Adjusting responsibilities to reflect changes in the organization.

JUSTIFICATION: The reorganization of Defense Programs has changed the NNSA line management structure substantially. These changes provide an opportunity to streamline

the requirements of the 452 series of orders and manuals, as well as, make some changes that are needed.

IMPACT: Changes have no impact beyond streamlining and implementing the new surety standards.

CONTACT: Point of contact for this revision is Fredrick G. Trussell at 202-586-0372.

RECOMMENDATION: Approve the subject directives for revision.

OFFICE OF MANAGEMENT'S RECOMMENDATION:

Recommend Approval: _____

Recommend Disapproval: _____

Timeframe: ___ 30 days ___ 60 days ___ 90 days ___ 120 days

Date: _____

NNSA'S DECISION:

Approved: _____

Disapproved: _____

Date: _____

Department of Energy
National Nuclear Security Administration
Washington, DC 20585

May 20, 2008

MEMORANDUM FOR: WILLIAM C. OSTENDORFF
CENTRAL TECHNICAL AUTHORITY

FROM: DON F. NICHOLS
for ACTING CHIEF OF DEFENSE NUCLEAR SAFETY

SUBJECT: ACTION: Concurrence with Notice of Intent to Revise Department of Energy (DOE) O 452.1C, *Nuclear Explosive and Weapon Surety Program;* DOE O 452.2C, *Nuclear Explosive Safety*; and DOE M 452.2-1, *Nuclear Explosive Safety Manual*

ISSUE: The proposed revision to DOE O 452.1C, DOE O 452.2C, and DOE M 452.2-1 requires Central Technical Authority (CTA) concurrence. These directives have the potential to impact nuclear safety.

BACKGROUND: The proposed revision to DOE O 452.1C, DOE O 452.2C, and DOE M 452.2-1 is necessary to support the alignment of the 452 series of Orders and Manuals with the current organizational structure of the Office of Defense Programs (NA-10). The proposed revision will also remove redundancy in the requirements. The attached memorandum from Robert L. Smolen, Deputy Administrator for Defense Programs, provides additional details regarding the proposed revision to DOE O 452.1C, DOE O 452.2C, and DOE M 452.2-1. The attached memorandum also references other 452 series Orders that are to be revised; however, these Orders do not require CTA concurrence.

Concurrence with the proposal to revise these directives will support their submittal to the DOE Review and Comment (RevCom) System. CTA concurrence will again be required prior to issuance of the revised directives.

SENSITIVITIES: None.

POLICY IMPACT: None.

URGENCY: None.

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RECOMMENDATION: That you concur with the Notice of Intent to revise the subject Orders and Manual by signing below:

APPROVE: _____

DISAPPROVE: _____

DATE: 5/30/08

Attachment

cc: J. McConnell
W. White