



Accountability
Performance
Accuracy

The Nuclear Materials Management Safeguards System

NMMSS

2016

Annual Users Training Meeting

May 9-12, 2016 | New Orleans, LA

Updates to NUREG/BR-0006, NUREG/BR-007

Mirabelle Shoemaker, *NRC*
and Dave Ditto, *NRC*



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Overview

- Updating NUREG/BR-0006 and NUREG/BR-0007
- Soliciting industry feedback
- Improving guidance in the Inspection Manual



Brief History of NMMSS and Regulatory Guidance

- Atomic Energy Commission and the Nuclear Material Information System (1940s-1960s)
 - AEC Forms 388 and 578 (commercial sector)
 - AEC Forms 101 and 577 (government)
- Nuclear Regulatory Commission and the Nuclear Materials Management and Safeguards System (1976 to present)
 - DOE/NRC Forms 741 and 742 (all)
- Instructions for completing Forms 741 and 742 can be found in NUREG/BR-0006 and NUREG/BR-0007, respectively

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Updating NUREG/BR-0006 and NUREG/BR-0007

- NUREG/BR-0006, Rev. 7 (Jan 1, 2009)
- NUREG/BR-0007, Rev. 6 (Jan 1, 2009)
- Goals
 - Minimizes reporting burden on licensees
 - Allows uniform and streamlined reporting



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Highlighting Historic Updates to NMMSS

- 2009:
 - Licenses with less than 350 grams of fissile nuclear material required to report, and reconcile, their inventory with NMMSS
 - List of Foreign Obligation codes updated
- 2003:
 - Country Control Number reporting eliminated
 - Foreign Obligation Tracking and Reporting implemented
 - Initial list of Foreign Obligation codes included in NUREGs
 - Number of “Ownership” codes reduced from eight to two
 - DOE/NRC Form-741A eliminated
- 1999:
 - The “Z” process code established for industry use





Examples – Updates to Form 741

- Clarification on guidance for AM transactions
 - Block 26c. Type of Inventory Change applies to AM transactions.
 - Block 26h Composition/Facility Code does not apply to AM transactions involving rounding adjustments.
 - Block 26p Weight % Isotope does not apply to AM transactions involving rounding adjustments.
- Requirement to report total waste volume
- Clarification on acceptable reporting media
- Wording to address IAEA comments regarding IAEA selected facility reporting



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Examples- Updates to Form 742

- Provide a definition for what is meant by “annual” reporting.
- Include updated table of obligation codes.
- Clarify when comp codes apply by facility type.
- Clarify that a “Nuclear Production” entry should be a positive number



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Soliciting Industry Feedback

- Accepting comments and feedback for NUREG/BR-0006 and NUREG/BR-007.
- Please provide input to Mirabelle Shoemaker, NRC Project Manager for NMMSS.
- Input will be considered for inclusion in the updated NUREGs.
- Status of update will be provided prior to next Annual 2017 NMMSS Users Training Meeting.



Update of Inspection Procedures

- Several updates to the Fuel Cycle Facility Inspection Procedures
- Inspection Procedure suites for CAT I and CAT III fuel cycle facilities have been updated.
 - All inspection procedures now include
 - “Implementation of applicable inspection requirements will constitute completion of this procedure. Individual inspection samples and breadth of review will be determined by the inspector based on requirement compliance, risk significance of activity, and extent of the activity or records available.”
 - Inspection procedure 85311 now includes, “The inspector should verify MC&A staff has collaborated with site security to ensure an effective problem identification and resolution of the inventory difference to correct deficiencies involving human performance, programs and procedures for the detection of unauthorized removal of SNM from the facility.”