

RULEMAKING ISSUE AFFIRMATION

October 2, 2002

SECY-02-0179

FOR: The Commissioners

FROM: William D. Travers
Executive Director for Operations

SUBJECT: FINAL RULE: MATERIAL CONTROL AND
ACCOUNTING AMENDMENTS

PURPOSE:

To request Commission approval for publication of the final rule.

BACKGROUND:

In a Staff Requirements Memorandum (SRM) dated May 8, 2001 (Attachment 1), the Commission approved publication of the proposed rule that would amend the material control and accounting (MC&A) regulations (SECY-01-0066, April 20, 2001). The proposed rule was published in the Federal Register on May 30, 2001 (66 FR 29251). The comment period closed on August 13, 2001, and four comment letters were received. The commenters were the two Category I licensees, the Nuclear Energy Institute (NEI), and a consulting firm. These comments are discussed in the final rule (Attachment 2).

DISCUSSION:

The staff has considered whether this rulemaking should proceed at this time or be placed on hold until completion of the staff's reevaluation of the safeguards and physical security programs. The staff has concluded that this rulemaking should go forward. This rulemaking clarifies the MC&A requirements by removing the inconsistencies between Category I, II, and III requirements. This should improve the staff's ability to focus on the more risk significant aspects of the requirements. The rulemaking also results in a single location for all the MC&A requirements which will help both the NRC and stakeholders to locate those requirements that apply to a given facility. The majority of the contemplated changes should not be impacted by

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the planned reevaluation. The requirements to report receipt and transfers of special nuclear material are not being changed by this rulemaking. The staff is not aware of any reason that this rulemaking should not go forward at this time.

The current regulations require Material Balance Reports (DOE/NRC-742) and Inventory Composition Reports (DOE/NRC-742C) to be completed within 30 days of March 31 and September 30 of each year. These reports are typically based on book values, as opposed to physical inventory results, because the dates do not always coincide with the time frame for a facility's physical inventory. The data from a physical inventory is significantly more meaningful than the book value reported during the interim periods. The final rule changes the reporting time frame to coincide with the requirement for a physical inventory and provides additional time to complete the report, except for Category I licensees. Identification of an actual loss or theft of material would still be reported within one hour per the current regulations.

In comments on the proposed rule, the NRC's two Category I licensees requested that the proposed change not be implemented because it would have the unintended consequence of potentially increasing burden. Because Category I licensees are required to conduct a semi-annual inventory, they would not gain any benefit from the proposed changes. Therefore, because the intent of the proposed change was to reduce unnecessary regulatory burden, the current requirements for submitting the Material Balance Reports and Inventory Composition Reports will be retained as requested by the commenters. Category I licensees will continue to submit their reports within 30 days of March 31 and September 30 of each year. Because most licensees are only required to conduct an annual physical inventory, they will benefit from the change with a decrease in reporting frequency from twice a year to once a year.

The current regulations for Category II facilities require the conduct of physical inventories every 2 to 6 months, depending on the material; the final rule changes the frequency to every 9 months. By revising the time frame to complete the reports to coincide with the physical inventory and providing additional time to complete the paperwork, most licensees will be provided with more flexibility and the regulatory burden will be reduced. The change will also allow licensees to devote additional attention to the more risk significant aspects of their programs. Reactor and material licensees will benefit from these changes, except the Category I licensees. The industry has indicated support for this initiative through the Nuclear Materials Management and Safeguards System (NMMSS) users group and in comments on the proposed rule.

Current MC&A requirements for Category II facilities and the general MC&A requirements have been interspersed among the safety and general licensing requirements of 10 CFR Part 70. The final amendments will consolidate the MC&A requirements for Category II facilities with the rest of the MC&A requirements for Categories I and III facilities in 10 CFR Part 74. Furthermore, portions of the current rules regarding Category II material in Part 70 are not risk-informed. Some of the current requirements for Category II facilities are more restrictive than those for Category I facilities. These requirements will be made more risk-informed, consistent with the existing MC&A requirements for Categories I and III facilities. Conforming changes will also be made to 10 CFR Parts 61, 73, 75, 76, and 150 to reflect the relocations. The relocation of the MC&A requirements and the modification to the Category II requirements will enhance

the regulatory process by providing any future Category II licensees with a better understanding of the procedures and requirements for MC&A. Moving the remaining MC&A requirements from Part 70 to Part 74 will also simplify locating the requirements for all licensees.

In addition, the categorical exclusion for the requirement to perform an environmental review will be broadened to include amendments of safeguards plans, as well as be made general enough to cover all safeguards plans and amendments for all licenses issued under the Nuclear Regulatory Commission's (NRC) authority in 10 CFR Chapter 1, to avoid the need to amend the subsection when new licensing parts are added. The final rule will also correct typographical errors, remove old implementation dates, and update and add some terminology to reflect current practice.

The final rule will reduce the regulatory burden on both licensees and the NRC staff, while maintaining adequate safeguards. There will be no impact on safety. The MC&A requirements for Category II facilities and the general MC&A requirements for all facilities would be easier to locate, thereby improving the efficiency and effectiveness of the regulations. The efficiency of NMMSS should be improved as it will no longer get all the material status reports simultaneously. Public confidence would not be affected by this final rule change.

In SECY-01-0175, the staff informed the Commission of licensee activities and NRC staff plans associated with the two fuel rods apparently missing from the spent fuel pool at Millstone Unit 1. This final rule does not change the inventory or record retention requirements for reactor licensees. As part of the staff actions, the staff has committed to evaluating the current NRC requirements for tracking and reporting SNM transactions to identify changes that may be necessary to prevent similar incidents from occurring. In the April 30, 2002, lessons-learned report about MC&A at power reactors, the staff did not identify any problems with the regulations.

The staff has also evaluated this rulemaking against the ongoing actions, outlined in SECY-02-0093 and the subsequent July 25, 2002 SRM, to respond to the October 2001, Department of Energy Inspector General report on NMMSS. The staff is not aware of any conflicts between this rulemaking and the actions outlined in SECY-02-0093 or the SRM.

AGREEMENT STATE ISSUES:

Changes impacting 10 CFR 70.51(a) and (b), and conforming changes to 10 CFR 61.80(g), 10 CFR 70.19(c), 10 CFR 150.20(b), and new 10 CFR 74.19(a) are classified as Category C compatibility items. Agreement States would be required to adopt the essential objectives; however, the manner in which these essential objectives are addressed would not need to be the same as NRC's. A conforming change to 10 CFR 70.8(b) is a Category D compatibility item. Agreement States do not need to adopt this program element for purposes of compatibility. The final amendment does not revise the MC&A requirements that potentially impact Agreement States--it merely relocates the requirements. Therefore, it is not expected that Agreement States will need to make any conforming changes to their regulations. The other changes are Category NRC compatibility items and, therefore, are areas of NRC exclusive authority. No comments were received from the Agreement States.

RESOURCES:

Resources to complete and implement the rule are included in the current budget. The rule will not result in any NMMSS contract savings.

COORDINATION:

The Office of the General Counsel has no legal objection to the final rule. The Office of the Chief Financial Officer has reviewed this Commission Paper for resource implications and has no objection.

RECOMMENDATIONS:

That the Commission:

1. Approve for publication in the Federal Register the attached final rule (Attachment 2).
2. To satisfy the requirement of the Regulatory Flexibility Act, 5 U.S.C. 605 (b), certify that this rule does not have significant impact on a substantial number of small entities. This certification is included in the attached final rule.
3. Note:
 - a. That the Chief Counsel for Advocacy of the Small Business Administration will be informed of the certification and the reasons for it, as required by the Regulatory Flexibility Act, 5 U.S.C. 605(b);
 - b. That a final Regulatory Analysis has been prepared for this rulemaking;
 - c. That a final Environmental Assessment has been prepared for this rulemaking (Attachment 3);
 - d. That the staff has determined that this action is not a "major rule," as defined in the Small Business Regulatory Enforcement Fairness Act (SBREFA) of 1996 [5 U.S.C. 804(2)] and has confirmed this determination with the Office of Management and Budget (OMB). The appropriate Congressional and General Accounting Office contacts will be informed (Attachment 4);
 - e. That the appropriate Congressional committees will be informed;
 - f. That a press release will be issued by the Office of Public Affairs when the final rulemaking is filed with the Office of the Federal Register; and

- g. That the final rule contains amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501, et seq.) that have been already approved by the OMB.

/RA/

William D. Travers
Executive Director
for Operations

Attachments:

1. Staff Requirements Memorandum dated May 8, 2001
2. Final Rule
3. Environmental Assessment
4. SBREFA forms

May 8, 2001

MEMORANDUM TO: William D. Travers
Executive Director for Operations

FROM: Annette Vietti-Cook, Secretary **/RA/**

SUBJECT: STAFF REQUIREMENTS - SECY-01-0066 - PROPOSED RULE:
MATERIAL CONTROL AND ACCOUNTING AMENDMENTS

The Commission has approved publication in the Federal Register of the proposed amendments related to material control and accounting subject to the changes noted in the attachment.

(EDO) (SECY Suspense: 6/15/01)

Attachment: Changes to the Federal Register Notice in SECY-01-0066

cc: Chairman Meserve
Commissioner Dicus
Commissioner Diaz
Commissioner McGaffigan
Commissioner Merrifield
OGC
CFO
OCA
OIG
OPA
Office Directors, Regions, ACRS, ACNW, ASLBP (via E-Mail)
PDR

Attachment

Changes to the Federal Register Notice in SECY-01-0066

1. On page 3, revise lines 1 and 2 to read ‘ ... Commission proposes to amend has identified an aspect of the MC&A requirements so as to where it could reduce unnecessary regulatory burden and to provide additional’
2. On page 5, last paragraph, revise lines 9 and 10 to read ‘ ... on the same schedule. (Note that the term “licensee”, as it is used within this statement of considerations, includes the gaseous diffusion plants as it is used within the statements of consideration, unless otherwise stated.)’
3. On page 8, 1st full paragraph, revise line 4 to read ‘However, an environmental assessment (EA) would’
4. On page 10, paragraph 1, next to last line, correct the spelling of ‘would’.
5. On page 11, item (1), revise the 2nd sentence to read ‘From a safeguards risk and graded approach perspective, This would be consistent with’
6. On page 12, item (6), revise the 2nd sentence to read ‘From a safeguards risk and graded approach perspective, This compares to the annual requirement’
7. On page 20, Section 74.59, revise the last line to read ‘ ... Office of Nuclear Material Safety and Safeguards.’
8. On page 21, Section 150.20, revise line 2 to read ‘ ... the new reference to §§ 74.11, 74.15, and 74.19 Part 74.’
9. On page 26, last paragraph, revise lines 1 and 2 to read ‘ ... Commission proposes to amend has identified an aspect of the MC&A requirements so as where it would be desirable to reduce the regulatory burden and to provide additional’
10. On page 33, last paragraph, revise line 8 to read ‘ ... from the NMMSS to reconcile their its’
11. On page 43, item (a), revise line 1 to read ‘Before to license termination’
12. On page 49, Section 74.2, paragraph (a) could be misinterpreted if the reader thinks the phrase “who possesses special nuclear ...” refers to the licensees in the previous phrase. To ensure correct interpretation of paragraph (a), the phrase “except licensees whose ...” should be made into a separate sentence.
13. On page 73, Section 150.20, paragraph (b), revise the last line to read ‘ ... §§ 74.11, 74.15, and 74.19 of Part 74 of this chapter; and to the’
14. In general, the Federal Register notice should be reviewed for additional editorial, typographical, etc. changes.

NUCLEAR REGULATORY COMMISSION

10 CFR Parts 51, 61, 70, 72, 73, 74, 75, 76, and 150

RIN 3150-AG69

Material Control and Accounting Amendments

AGENCY: Nuclear Regulatory Commission.

ACTION: Final rule.

SUMMARY: The Nuclear Regulatory Commission (NRC) is amending its material control and accounting (MC&A) regulations. The reporting requirements for submitting Material Balance Reports and Inventory Composition Reports are being revised to change both the frequency and timing of the reports for all licensees, except for Category I licensees. The reporting requirements for Category I facilities remain unchanged. The categorical exclusion for approving safeguards plans is being revised to specifically include approval of amendments to safeguards plans. The MC&A requirements for Category II facilities are being revised to be more risk-informed. The amendments are intended to reduce unnecessary burden on licensees and the NRC without adversely affecting public health and safety.

EFFECTIVE DATES: This final rule is effective on **(insert 90 days from date of publication)**.

FOR FURTHER INFORMATION CONTACT: Merri Horn, telephone (301) 415-8126, e-mail mlh1@nrc.gov, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

SUPPLEMENTARY INFORMATION:

Background

The Commission is amending its MC&A requirements to reduce unnecessary regulatory burden and to provide additional flexibility to licensees required to submit Material Balance Reports and Inventory Composition Reports (also called Physical Inventory Listing Reports). The current regulations require these reports to be compiled as of March 31 and September 30 of each year and submitted within 30 days after the end of the period covered by the report. These twice yearly reports are typically based on book values as opposed to physical inventory results because the dates do not always coincide with the time frame for a facility's physical inventory. Physical inventories for Category III facilities are conducted on an annual basis, semiannually for Category I facilities, and every 2 to 6 months for Category II facilities. The term "Material Status Reports" refers to both the Material Balance Report and the Inventory Composition Report and is used in Part 75.

A Category I licensee is one that is licensed to possess and use formula quantities of strategic special nuclear material (SSNM) (e.g., 5 kilograms of uranium enriched to 20 percent or more in the uranium-235 isotope). SSNM means uranium-235 (contained in uranium enriched to 20 percent or more in the uranium-235 isotope), uranium-233, or plutonium. There are currently two licensed Category I facilities. A Category II licensee is one that is licensed to possess and use

special nuclear material (SNM) of moderate strategic significance (e.g., 10 kilograms of uranium enriched to 10 percent or more but less than 20 percent in the uranium-235 isotope, with limited quantities at higher enrichments). Currently, there is only one licensed Category II facility, General Atomics, and it has a possession-only license and is undergoing decommissioning. General Atomics will not be required to make changes to meet the new requirements. A Category III licensee is one that is licensed to possess and use quantities of SNM of low strategic significance (e.g., uranium enriched to less than 10 percent in the uranium-235 isotope, with limited quantities at higher enrichments). See Table 1 for more specific information on limits for Category I, II, and III licensees.

Table 1 Categorization of Material

Material	Form	Category I	Category II	Category III
Plutonium	Any	2 kg or more	Less than 2 kg but more than 500 g	500 g or less
Uranium-235	Uranium enriched to 20 percent U-235 or more.	5 kg or more	Less than 5 kg but more than 1 kg	1 kg or less
	Uranium enriched to 10 percent U-235 but less than 20 percent.	10 kg or more	Less than 10 kg
	Uranium enriched above natural, but less than 10 percent U-235	10 kg or more

Material	Form	Category I	Category II	Category III
Uranium-233	Any	2 kg or more	Less than 2 kg but more than 500 g	500 g or less

In 1982, the NRC initiated an effort to move the MC&A requirements from 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material," to 10 CFR Part 74, "Material Control and Accounting of Special Nuclear Material." The initiative also included efforts to make the requirements more performance oriented. In 1985, the MC&A requirements for Category III facilities were made more performance oriented and moved to Part 74 (50 FR 7575; February 25, 1985). The requirements for Category I facilities were similarly moved in 1987 (52 FR 10033; March 30, 1987). The MC&A requirements for Category II facilities and the general MC&A requirements are still interspersed among the safety and general licensing requirements of Part 70. The requirements regarding Category II material are also overly prescriptive.

In addition, Part 74 includes several typographical errors, old implementation dates, and some terminology that are being updated to reflect current practice.

Finally, the currently effective categorical exclusion for approval of safeguards plans does not clearly include the approval of an amendment to a safeguards plan.

Proposed Rule

The NRC published the proposed rule, "Material Control and Accounting Amendments" in the Federal Register on May 30, 2001 (66 FR 29251). The NRC received 4 comment letters on the proposed rule. These comments and the responses are discussed in the "Summary of Public Comments on the Proposed Rule" section.

Discussion

The NRC staff has considered whether this rulemaking should proceed at this time or be placed on hold until completion of the NRC staff's reevaluation of the safeguards and physical security programs. The NRC staff has concluded that this rulemaking should go forward. This rulemaking clarifies the MC&A requirements by removing the inconsistencies between Category I, II, and III requirements. This should improve the NRC staff's ability to focus on the more risk significant aspects of the requirements. The rulemaking also results in a single location for all the MC&A requirements which will help both the NRC and stakeholders to locate those requirements that apply to a given facility.

Material Status Reports.

A licensee authorized to possess SNM at any one time or location in a quantity totaling more than 350 grams of contained uranium-235, uranium-233, or plutonium, or any combination thereof, must complete and submit in a computer-readable format a Material Balance Report concerning SNM received, produced, possessed, transferred, consumed, disposed of, or lost. A Material Balance Report is a summary of nuclear material changes from one inventory period to the next. Currently, this report must be compiled as of March 31 and September 30 of each year and filed within 30 days after the end of the period. Under §§ 76.113, 76.115, and 76.117, the gaseous diffusion plants (certificate holders) are also required to submit the report twice yearly on the same schedule. (Note that the term "licensee", as it is used within this statement of considerations, includes the gaseous diffusion plants unless otherwise stated.) Each licensee is also required to file a statement of the composition of the ending inventory with the Material Balance Report. An Inventory Composition Report is a report of the actual inventory listed by

specified forms of material (e.g., irradiated versus unirradiated fuel at power reactors). However, a licensee required to submit a Material Status Report under § 75.35 is directed to submit this report only in accordance with the provisions of that section (i.e., at the time of a physical inventory). Section 75.35 applies only to those facilities that have been selected to report under the Agreement Between the United States and the International Atomic Energy Agency (IAEA) for the Application of Safeguards in the United States. For those facilities reporting under Part 75, the frequency of reporting is dependent on the frequency of the physical inventory, which is dependent on the Category of facility (i.e., Category I, II, or III). The report would be required either once (Category III) or twice (Category I and II) per year.

The principal purpose of the Material Status Report is the periodic reconciliation of licensee records with the records in the Nuclear Materials Management and Safeguards System (NMMSS). The NMMSS is the national database for tracking source and SNM. The database is maintained by a contractor under a Department of Energy contract. The data from the NMMSS are then used to satisfy the requirement of the US/IAEA Safeguards Agreement to provide the annual Material Balance Report for facilities selected under the Agreement or associated Protocol.

The proposed rule would have modified the regulations to require the Material Balance Report and the Physical Inventory Listing Report at the time of a physical inventory as is currently stated in § 75.35 for all licensees. The proposed rule would have required the reports to be completed within 60 days of the beginning of the physical inventory for independent spent fuel storage installations, reactors, and Category I, II, and III facilities. The modifications in the final rule do not affect licensees reporting under Part 75. Because most facilities are only required to conduct a physical inventory once a year, the reporting frequency would be reduced from twice a year to once a year. For most licensees, reconciliation once a year instead of twice a year does not appear to be a problem because the number of transactions is such that reconciliation is

manageable. For the gaseous diffusion plants that have a significantly larger number of transactions, reconciliation could be more difficult if performed once a year. However, the gaseous diffusion plants, by practice, currently reconcile their records with the NMMSS on a bimonthly basis and can continue this practice under the revised regulation.

Based on public comments, the final rule has been modified from the proposed rule. The reporting requirements for Category I facilities will remain unchanged from the current requirements. Category I licensees will still be required to compile the reports as of March 31 and September 30 of each year and submit the Material Balance Reports and the Physical Inventory Listing Reports within 30 days after the end of the period covered by the report. The requirements for all other facilities will be revised as outlined in the proposed rule.

As indicated, a licensee is required to submit the semiannual Material Balance Report and Inventory Composition Report within 30 days of March 31 and September 30 of each year. The preestablished timing of the submittal has two drawbacks. Specifically, the reports rarely coincide with a physical inventory, and all of the reports for a given period are provided to the NMMSS at the same time. The data from a physical inventory is significantly more meaningful than the book values reported during the interim periods. Staggering the submittals would benefit the NMMSS contractor because not all licensees conduct inventories at the same time. Requirements for the NMMSS contractor would likely be spread more evenly throughout the year. Modifying the requirement to stipulate that the Material Balance Report and the Inventory Composition Report be submitted at the time of the physical inventory could alleviate these problems, provide more meaningful data, and be more efficient and effective.

Another consideration is whether there would be an adverse impact on meeting IAEA safeguards requirements. Only one Material Status Report is required per year under the terms of the US/IAEA Safeguards Agreement and § 75.35. Consequently, there would be no adverse

impact on meeting IAEA safeguards requirements.

The final rule revises the timing to complete the Material Balance Report and Physical Inventory Listing Report to coincide with a facility's physical inventory, except for Category I licensees. The final rule also provides additional time to complete the paperwork, except for Category I licensees and those licensees reporting under Part 75. Identification of an actual loss or theft of material would still be reported within one hour per the current regulations. These changes provide most licensees with additional flexibility and reduce the regulatory burden. The final rule uses Physical Inventory Listing Report instead of Inventory Composition Reports to be consistent with the name of the actual form (DOE/NRC Form 742C).

Categorical Exclusion.

The categorical exclusion (§ 51.22(c)(12)) covers the issuance of an amendment to a license under 10 CFR Parts 50, 60, 61, 70, 72, or 75 relating to safeguards matters or approval of a safeguards plan. It does not address amendments to safeguards plans. As written, the categorical exclusion can be used for approval of a safeguards plan. However, an environmental assessment (EA) may be necessary for approval of an amendment to the safeguards plan. Initial approval is covered by the categorical exclusion, but amendments do not appear to be covered. This inconsistency appears to be inadvertent in that the Statement of Considerations for the rulemaking that included this categorical exclusion stated the this categorical exclusion was needed to implement new safeguards regulations through incorporation of provisions into licenses, as well as to "permit modifications to licensees' safeguards programs established under existing requirements." See 49 Fed. Reg. 9352, at 9373 (March 12, 1984). The final rule adds language covering revisions to safeguards plans to rectify this omission. Safeguards plans

include physical protection related plans and material control and accounting related plans. In addition, the categorical exclusion currently lists several parts to which it applies, however, Part 76 is not included in the listing and should be included. Providing a generic reference to any part of 10 CFR Chapter I corrects the current listing and avoids the need for revising the categorical exclusion when new parts need to be added to the listing.

The NRC staff consulted with the Council on Environmental Quality (CEQ) concerning this amendment to the categorical exclusion in 10 CFR 52.22(c)(12). CEQ determined that this amendment addresses the requirements of the CEQ regulations for agency procedures.

General and Category II MC&A Requirements.

In 1982, the NRC began an effort to move the MC&A requirements from Part 70 to Part 74 and make the requirements more performance oriented. Subsequent rulemakings on February 25, 1985 (50 FR 7575) and March 30, 1987 (52 FR 10033), moved the requirements for Category I and III facilities. The MC&A requirements for Category II facilities and the general MC&A requirements are currently interspersed among the safety and general licensing requirements of Part 70. The requirements regarding Category II material are also overly prescriptive as they include some requirements that are more stringent than the requirements for Category I facilities. This rule moves the remaining general MC&A requirements and the requirements for Category II facilities from Part 70 to Part 74. The rule also makes the MC&A requirements for the Category II facilities more risk-informed. The risk-informed approach for the Category II facilities is consistent with the current MC&A regulations that apply to Category I and III facilities. In addition, the rule makes needed modifications that were missed in earlier updates of the MC&A regulations, corrects typographical errors, deletes old implementation dates, clarifies

some definitions, and includes several new definitions.

Specifically, the rule clarifies the definitions for "Category IA material" and "inventory differences" and makes them consistent with the current practice. The terms "beginning inventory," "plant," "removals from inventory," and "removals from process," are newly defined. The definition for "removals" is deleted. There has been some confusion by licensees over the term "removals." The term "removals" is replaced by the terms "removals from process" and "removals from inventory." The definitions are consistent with the current practice. In addition, both the terms "beginning inventory" and "plant" are used in the current rule language, but were never defined in the rule. The definitions are consistent with the definitions contained in the current regulatory guides. The changes to the Category II requirements are discussed under the Category II heading.

General Requirements.

The current general MC&A requirements in Part 70 require a licensee to keep records showing the receipt, inventory, disposal, and transfer of all SNM. The requirements also specify the retention period for those records. These recordkeeping requirements are not being changed, just relocated. The general requirements currently in §§ 70.51(b)(1) through (b)(5) are captured in new §§ 74.19 (a)(1) through (a)(4). Furthermore, the reporting requirements currently in § 70.52 requiring a licensee to report loss or theft of SNM remain unchanged and are included in § 74.11. The requirements for a Nuclear Material Transfer Report in § 70.54 remain unchanged and are captured by § 74.15. The existing requirement in § 70.51(d) for all licensees authorized to possess more than 350 grams of contained SNM to conduct an annual physical inventory of all SNM is retained and is moved to new § 74.19(c). The requirement currently in § 70.51(c) for all

licensees authorized to possess SNM in a quantity exceeding one effective kilogram of SNM to establish, maintain, and follow written MC&A procedures that are sufficient to enable the licensee to account for the SNM, is moved to new § 74.19(b). The requirements in § 70.53 are moved to §§ 74.13 and 74.17.

Category II Requirements.

Current domestic MC&A regulations in Part 70 for licensees who possess greater than one effective kilogram of strategic special nuclear material in irradiated fuel reprocessing operations or moderate strategic special nuclear material have been interspersed among the safety and general licensing requirements in Part 70. These MC&A requirements are being moved to Part 74 to avoid confusion with the safety requirements in Part 70, to allow the requirements to be presented in a more orderly manner, and to make them more risk-informed. Emphasis has been given to performance requirements rather than prescriptive requirements to allow licensees to select the most cost-effective way to satisfy NRC requirements.

The basic MC&A requirements for Category II facilities are being retained in Part 74 but are presented in a more organized manner. The performance objectives for Category II facilities are: (1) confirmation of the presence and location of SNM; (2) prompt investigation and resolution of any anomalies indicating a possible loss of SNM; (3) rapid determination of whether an actual loss of a significant quantity of SNM has occurred; and (4) timely generation of information to aid in the investigation and recovery of missing SNM in the event of an actual loss. Implementation of these objectives is commensurate with the amount and type of material. The principal differences between the MC&A requirements in this final rule and those in the previous regulations are:

- (1) The revised regulations reduce the required frequencies of Category II physical inventories from the current frequency of 2 months for SSNM and 6 months for everything else to 9 months. From a safeguards risk and graded approach perspective, this is consistent with the annual frequency for Category III facilities and semiannual frequency for Category I facilities;
- (2) The concept of Inventory Difference (ID) and Standard Error of the Inventory Difference (SEID) is used to replace the Material Unaccounted For (MUF) concept in the statistical

program. This is consistent with the statistical terms and methods used in Part 74 for Category I and III facilities and with NRC guidance and reference documents;

(3) The significance testing of ID with a three SEID limit is less restrictive than the test level of two SEID specified in previous § 70.51(e)(5). This is consistent with Category I facilities that use a three-SEID limit with a constraint on SEID of 0.10 percent of active inventory. The measurement quality constraint for Category II remains at 0.125 percent of active inventory for SEID. This change results in a reduction of unwarranted, disruptive, and costly investigations, reports, or responses to ID threshold actions;

(4) An item control program for Category II facilities that is consistent with Category III facilities is added. Category II item control requirements are less costly than the more stringent Category I item monitoring. The item control requirements mainly consist of providing current knowledge of location, identity, and quantity of plant-wide items existing for at least 14 days. The performance-based program allows a licensee to propose its item control method and frequency;

(5) The combined standard error concept and a de minimus quantity for plutonium and uranium in the evaluation of shipper-receiver differences is used. This is consistent with the requirements for Category I and III facilities in Part 74; and

(6) The required frequency for the independent review and assessment of the facility's MC&A program is changed from annual to a minimum of 18 months. From a safeguards risk and graded approach perspective, this compares to the annual requirement for Category I and the every 2-year requirement for Category III.

The consolidation of regulations completes NRC's regulatory reform goal of providing a graded approach to MC&A regulation. It also reduces the regulatory burden by making it easier for a licensee to find the MC&A requirements that apply to its facility.

The NRC has made changes to the final rule based on public comments (see the

"Summary of Public Comments on the Proposed Rule" section). In summary the changes to the final rule include (1) retaining the current material status reporting requirements for Category I licensees; (2) retaining the current allowance for alarm resolution calls (§ 74.57(c)) to be made on the next scheduled workday when falling on a holiday or weekend; and (3) clarifying that the Category II requirements continue to apply to irradiated fuel reprocessing facilities as is in the current regulations.

Summary of Public Comments on the Proposed Rule

This analysis presents a summary of the comments received on the proposed rule, the NRC's response to the comments, and changes made to the final rule as a result of these comments.

The NRC received four comment letters on the proposed rule. Three were from industry (including NEI) and one from a consulting firm.

In general, two commenters were opposed to specific aspects of the proposed rule (the change in material balance reporting and the change to the alarm resolution notification), both of these commenters are Category I facilities. NEI and the consulting firm generally supported the rulemaking, although the consulting firm was opposed to the change requiring alarm resolution notifications made to the NRC Operations Center. The consulting firm also provided specific recommendations to improve the final rule. The comments on the proposed rule are generally contained within four categories. The first category contains general comments, followed by comments on the material balance reporting, comments on the Category II requirements, and other comments.

A. General comments on the proposed rule.

1. Support of the proposed rule.

Comment: Two of the commenters provided specific comments in support of the proposed rule. NEI indicated that the decreased frequency of SNM inventory reporting for Category II and III facilities will reduce the regulatory burden on licensees and that the partial harmonization of the inventory reporting requirements of 10 CFR parts 74 and 75 was commendable. Overall NEI indicated support of the proposed amendments and believe that they will reduce resource demands placed on both the NRC and individual licensees. The consulting firm indicated that without the proposed changes, the MC&A requirements for SNM in amounts of moderate strategic significance (Category II) would remain prescriptive and irrationally more restrictive than those for formula quantities of strategic significance (Category I).

Response: The NRC is not making any changes to the final rule that the NRC believes would negate the industry's general support for this rulemaking.

2. Elimination of MC&A regulations for irradiated fuel reprocessing plants.

Comment: One commenter expressed concern that the MC&A requirements for irradiated fuel reprocessing plants that are located in 10 CFR 70.51(e) were eliminated. The commenter noted that if this was the intent then it should have been highlighted in the Statement of Considerations. The commenter believes that it was prudent to keep in place these key regulations, which may not be easily replaced if a need were to arise. The commenter offered specific suggestions to move the reprocessing requirements to § 74.41, clarify the performance objectives, and rename Subpart D to include SNM in Irradiated Fuel Reprocessing Operations.

Response: It was not the NRC's intent to eliminate the requirements for irradiated fuel

reprocessing plants. MC&A requirements for reprocessing plants were originally considered in the proposed rule for MC&A requirements for facilities that use formula quantities of strategic SNM (49 FR 4091; February 2, 1984). These requirements were dropped from the final rule because of unresolved questions on whether an irradiated fuel reprocessing facility could comply with all regulatory requirements and the negative outlook for domestic reprocessing (52 FR 10033; March 30, 1987). Although a reprocessing facility would likely be considered a Category I facility based on possession limits for plutonium, language was inserted in § 70.51(e) to cover reprocessing facilities. The requirements for an irradiated fuel reprocessing facility were the same as for a facility possessing SNM of moderate significance (Category II), no changes specific to reprocessing were introduced. In this final rule, the language in § 74.41 has been clarified to identify the applicability to irradiated fuel reprocessing facilities. However, it is important to note that if reprocessing in this country were to become viable, the NRC would likely develop MC&A requirements specific for reprocessing.

3. Table 1.

Comment: One commenter stated that Table 1 was incorrect for this rulemaking. The commenter stated the table contained authorized possession and use limits rather than specific information on possession limits for Category I, II, and III licensees. The commenter noted that it is incorrect to state that all such SNM is unirradiated as this would only be true for physical protection requirements.

Response: The table was intended to simplify the complexities of the possession thresholds for Category I, II, and III facilities. The commenter is correct that the term unirradiated should be removed and the table has been revised. The table originated from Appendix M of 10 CFR Part 110.

B. Material Balance Reporting.

1. Tying Material Balance Reports and Physical Inventory Listing Reports to the physical inventory.

Comment: Two commenters (both Category I facilities) were opposed to changing the reporting dates for the Material Balance Reports and the Physical Inventory Listing Report. The commenters preferred that the set dates of March 31 and September 30 be retained. One commenter stated that tying the reporting dates to the physical inventory would place a burden on the licensee during the time period in which licensee efforts are placed on inventory reconciliation and that the new time could have an adverse impact on the quality of the inventory difference. The other commenter indicated that because they also have similar DOE reporting requirements for DOE material at their site, the proposed change would have the effect of forcing them to make quarterly reports. The commenter was concerned that different DOE and NRC reporting requirements would cause confusion and inconsistencies. The commenter also stated that the proposed 45 day limit for high enriched uranium would result in licensees having to complete three different reports simultaneously.

Response: The proposed changes to the material balance reporting requirements were intended to provide more flexibility to licensees, while reducing the burden and providing better data to the NMMSS. This is accomplished for the majority of licensees impacted by the proposed rule change. Because Category I facilities are required to conduct a physical inventory semiannually, these facilities do not receive the major benefit of the change (i.e. less frequent reporting). Both Category I facilities requested that these changes not be adopted by NRC because it would increase their burden for making these reports. Imposing an increased burden on Category I facilities was not intended, therefore, the current requirements for Category I

facilities will be retained. Category I facilities will continue to compile the Material Balance Reports and Inventory Composition Reports as of March 31 and September 30 of each year and submit the reports within 30 days after the end of the period covered by the report. The final rule reflects the retention of the current Category I requirements. The change will be retained for all other facilities. The final rule requires the reports to be completed within 60 days of the beginning of the physical inventory for all other facilities

C. Category II Requirements.

1. Sealed sources.

Comment: One commenter stated that § 74.41(a) should be reworded to bring it into line with the current § 70.51(e), which excluded SNM used in sealed form. The commenter stated that emphasis for exception should be more on the use of sealed sources rather than possession. The commenter further stated that strategic SNM (plutonium, uranium-233, and uranium highly enriched in uranium-235) should not be part of this exclusion and that only Category II low-enriched uranium quantities possessed and used as sealed sources is appropriate.

Response: The proposed rule did include an exclusion for sealed sources when determining if a licensee fell under the comprehensive requirements for a Category II facility. This exclusion is consistent with the current requirements. The NRC disagrees with the remainder of the comment. A distinction cannot be made between possession and use of sealed sources. The NRC may not have knowledge if a specific sealed source was actually used by any given licensee versus merely possessed by the licensee. Trying to make this distinction would impose unnecessary burden on both the licensee and the NRC. Most licenses authorize possession and use of sealed sources. Although the sealed sources may not count towards the threshold for a Category II facility, the sealed sources are included in a facility's physical inventory. The current

regulations include strategic SNM sealed sources in the exclusion and the commenter has not provided sufficient justification to support the change.

D. Information Collection.

1. Burden estimate.

Comment: NEI noted that as the NRC's Electronic Information Exchange system is not yet functional for Parts 70 and 76 licensees and that both licensees and the NRC could possibly incur significant resources implementing electronic data submission protocols. NEI indicated that if the electronic data submission formats closely resemble those of DOE/NRC Forms 742 and 742C, no change in licensee resources should be expected.

Response: Licensees have been required to submit DOE/NRC Forms 742 and 742C in electronic form since 1994. Approximately 72 percent of licensees submitted the information electronically in 2000. Implementation of the Electronic Information Exchange should not impact the electronic submission of Forms 742 and 742C.

2. Changes to guidance documents.

Comment: One commenter noted that no provision had been made to update NRC guidance documents (e.g. NUREG/BR-007) with the new amendments.

Response: NRC agrees that a minor revision to NUREG/BR-007 will be necessary to implement the rule changes. The NUREG currently states that "Reports are to be made as of March 31 and September 30 of each year, or alternate dates if authorized by the NRC and filed within thirty (30) days after the end of the period covered by the report." Although the rule changes result in an authorized alternate date for submission of the reports, the NUREG will be modified to reflect that the reports are to be filed within sixty (60) days for facilities handling less

than a Category I quantity, but at least 350 grams of fissile material. Because this is considered a minor change, the NRC staff does not plan to solicit public comment on this change to the NUREG. An errata sheet containing the change will be issued at the time the rule becomes effective.

3. Evaluation of data library.

Comment: One commenter recommended that the NRC evaluate the data library that is created through the NMMSS system to assure that it can be readily accessed and the data retrieved in various combinations.

Response: All of the subject data submitted by a licensee is available and accessible to the licensee. The licensee can resolve technical concerns or questions about reading or accessing the licensee's data by directing their questions to the NMMSS operator who warehouses the data for the NRC. The NMMSS operator can provide licensees their data in electronic format that would allow the licensee to sort and combine the data as necessary.

E. Other comments.

9. Alarm Resolution

Comment: Two commenters (both Category I facilities) objected to the elimination of the notification exception for holidays and weekends in § 74.57(c). Currently, notification would occur on the next scheduled workday. The reason provided by one of the commenters is that the facility has a 5-day work week. Two commenters objected to providing the alarm resolution notifications in §§ 74.57(c) and 74.57(f)(2) to the Operations Center. One commenter believes that notification should be made to the Safety and Safeguards Support Branch, NMSS or to the NRC Resident

Inspector due to the staff's knowledge of the complexity of the process and the variability associated with certain process monitoring units. The other commenter stated that notification to the Operations Center of unresolved alarms would be an unnecessary added burden to both licensees and the NRC. The commenter stated that it would not be risk-informed nor performance-based. The commenter stated that the Operations Center would not have on duty, staff with the performance capability necessary to take meaningful action, except to notify NMSS licensing staff. These notifications should continue to be reported directly to NRC licensing staff who already would be aware of the initiation of the licensee's investigative procedures and following progress with the assistance of NRC inspectors for appropriate response. The rule should name the Director of NMSS, but in practice, the specific NMSS licensing unit - with regular and emergency telephone numbers- could be listed as the contact and updated in each licensee's NRC-approved fundamental nuclear material control plan. The commenter stated that this graded, working-level approach has proven suitable over 30 years without overaction or a compelling need for change.

Response: The NRC agrees to reinsert the notification exception for weekends and holidays in § 74.57(c). Both Category I facilities impacted by the change objected and requested the exception be retained. A short delay in notification on weekends and holidays is acceptable. Any discovery of an actual loss or theft of SNM requires the licensee to report within 1 hour of discovery under § 74.11. The final rule reflects the retention of the exception for weekends and holidays. Notification would occur on the next scheduled workday.

The NRC does not agree with the commenters' request to change the notification from the NRC Operations Center to either the licensing unit or the Resident Inspector. NRC staff members are not always available to take calls from licensees due to leave, training, travel, etc. The call could easily be routed to voice mail or to an individual not familiar with the facility. While the

licensee may have technically notified the NRC by leaving a voice mail message for a staff member, the NRC may not have actual knowledge until the staff person returns to the office. Notification to the Operations Center provides a record of the call and ensures that the appropriate NRC staff will be notified so that the necessary follow-up actions can occur. The Operations Center is manned 24-hours-a-day, 7-days-a-week, so that the licensee can be sure that someone is available to take the call. The NRC does not believe that calling the Operations Center instead of a staff member is an unnecessary burden. Either way, the licensee makes a phone call and provides pertinent information. In both cases, NRC staff would contact the licensee for follow-up information, as appropriate. When the Operations Center receives a notification from a licensee, they will notify the appropriate staff in NMSS. The NMSS or regional staff will conduct any follow-up activities. According to the NMSS licensing staff, the NRC receives approximately one of these notifications per year.

2. Threshold possession limits.

Comment: One commenter stated that the threshold for SNM of low strategic significance would result in an overlapping in coverage between Category III SNM and that proposed for moderate strategic significance or Category II. The example provided by the commenter is that the comprehensive Category III measures would not be triggered until authorized possession and use levels reach 1001 grams of plutonium, uranium-233, or high enriched uranium (or some combination) which is far beyond the 501-gram point where Category II would begin. The commenter pointed out that the beginning point for Category III facility implementation should not be set above the floor for Category II. There should be no gaps or overlapping between the scopes of Category I, II, and III MC&A programs to have a meaningful graded safeguards program in terms of risk and expected performance. The commenter stated that the proposed § 74.41

threshold is more appropriate, and that the threshold used in current § 70.51(e) of a quantity exceeding one effective kilogram of strategic special nuclear material is inappropriate for Category II because it would take a formula quantity of uranium enriched to 20 percent (5 kilograms uranium-235), which would be a Category I amount, to reach one effective kilogram. The commenter indicated that the NRC should fully understand the ramifications from using the concept of greater than one effective kilogram when grading across Categories I, II, and III.

Response: The NRC understands the commenter's concern. The NRC did not propose a change to the threshold limits for Category I or III in the proposed rule, only for Category II. The comment concerning the threshold value for Category III is beyond the scope of this rulemaking. The commenter is correct that the comprehensive Category III measures would not be triggered until a licensee was authorized to possess and use one effective kilogram of SNM of low strategic significance. If a licensee were to possess 1001 grams of plutonium or uranium-233, the licensee would have exceeded the upper threshold for a Category III license and would actually be a Category II facility. The definition for SNM of low strategic significance very clearly states that the upper threshold is less than the amount of SNM of moderate strategic significance. Quantities over 1000 grams of high enriched uranium or over 500 grams of plutonium or uranium-233 would cause a facility to become a Category I or II facility. The effective kilogram of SNM of low strategic significance does not include only high enriched uranium, plutonium, and uranium-233, but also includes uranium at lower enrichments. A licensee can not possess an effective kilogram of only high enriched uranium, plutonium, and uranium-233 and still be considered a Category III facility. The beginning point for the comprehensive Category III measures is not set above the floor for Category II as stated by the commenter. Although the use of one effective kilogram is confusing, the definition of SNM of low strategic significance prevents the overlap. The one effective

kilogram has been retained for irradiated fuel reprocessing facilities, it does not apply to the moderate strategic significance material. If reprocessing ever becomes viable in this country, the NRC would likely develop requirements specifically for a reprocessing facility.

Summary of Final Revisions

This final rule makes several changes to Parts 51, 61, 70, 72, 73, 74, 75, 76, and 150, which are characterized as follows: The timing and frequency for submitting Material Balance Reports and Inventory Composition Reports in Parts 72 and 74 are amended. The remaining MC&A requirements in Part 70 are moved to Part 74. The MC&A requirements for Category II facilities are made more risk-informed. Part 51 is amended to clarify that the categorical exclusion for safeguards plans also applies to amendments to the safeguards plan. Conforming changes are made to Parts 61, 70, 73, 75, 76, and 150 to reflect the relocation of the MC&A requirements.

Section 51.22 Criterion for categorical exclusion; identification of licensing and regulatory actions eligible for categorical exclusion or otherwise not requiring environmental review.

This section is revised to clarify that the categorical exclusion used for issuance of an approval of a safeguards plan can also be used for issuance of an approval for an amendment to the safeguards plan. Additionally, the listing of Parts 50, 60, 61, 70, 72, and 75 is changed to a more generic reference to 10 CFR Chapter I. This change avoids an incomplete listing (e.g., Part 76 was inadvertently left out).

Section 61.80 Maintenance of records, reports, and transfers.

This section is revised to delete the reference to §§ 70.53 and 70.54, and add the new reference to §§ 74.13 and 74.15.

Section 70.8 Information collection requirements: OMB approval.

This section is revised to change the OMB information collection requirements to reflect the sections being deleted from Part 70.

Section 70.19 General license for calibration or reference sources.

This section is revised to delete the reference to §§ 70.51 and 70.52, and add the new reference to §§ 74.11 and 74.19.

Section 70.20a General license to possess special nuclear material for transport.

This section is revised to include a reference to § 74.11.

Section 70.22 Contents of applications.

This section is revised to delete the reference to § 70.58 and add the new reference to § 74.41.

Section 70.23 Requirements for the approval of applications.

This section is revised to correct a reference from a nonexistent section to the correct section.

Section 70.32 Conditions of licenses.

This section is revised to reflect the transfer of the MC&A requirements from Part 70 to Part 74, to correct an error in wording, and to clarify that changes to a licensee's MC&A program that represent a decrease in effectiveness must be made via an amendment application pursuant to § 70.34, consistent with current licensing policy.

Section 70.51 Material balance, inventory, and records requirements.

This section is revised to rename the section and delete the MC&A requirements because they would be replaced by the requirements in Part 74. Paragraphs (b)(6), (b)(7), (i)(1), and (i)(2) would be redesignated as paragraphs (a), (b), (c)(1), and (c)(2) respectively.

Section 70.52 Reports of accidental criticality or loss or theft or attempted theft of special nuclear material.

This section is renamed to reflect the relocation of the reporting of theft or loss of SNM. The section is revised to delete paragraphs (b) and (d) because they would be covered by the requirements found in § 74.11. The remaining paragraphs are redesignated. Paragraph (a) and new paragraph (b) are revised to remove the loss of SNM.

Section 70.53 Material status reports.

This section is deleted in its entirety, the requirements in this section are covered by the requirements found in §§ 74.13 and 74.17.

Section 70.54 Nuclear material transfer reports.

This section is deleted in its entirety. The requirements in this section are covered by the requirements found in § 74.15.

Section 70.57 Measurement control program for special nuclear materials control and accounting.

This section is deleted in its entirety. The requirements in this section are replaced by the requirements found in Part 74, Subpart D.

Section 70.58 Fundamental nuclear material controls.

This section is deleted in its entirety. The requirements in this section are replaced by the requirements found in Part 74, Subpart D.

Section 72.76 Material status reports.

This section is revised to change the timing of the submittal of the Material Status Reports from every March 31 and September 30 to within 60 calendar days of the beginning of the physical inventory. The language is revised to reflect the wording in § 74.13 to avoid any confusion over the term “Material Status Reports.” The language clearly states that both the Material Balance Report and the Physical Inventory Listing Report are to be submitted.

Section 73.67 Licensee fixed site and in-transit requirements for the physical protection of special nuclear material of moderate and low strategic significance.

This section is revised to delete the reference to § 70.54 and add a new reference to § 74.15.

Section 74.1 Purpose.

This section is revised to reflect the addition to Part 74 of the general MC&A requirements and the requirements for SNM of moderate strategic significance. The reference to §§ 70.51, 70.57, and 70.58 is deleted.

Section 74.2 Scope.

This section is revised to reflect the relocation of the general reporting and recordkeeping requirements, and exempt Part 72 licensees from the general reporting and recordkeeping

requirements, as they are currently covered under the Part 72 requirements.

Section 74.4 Definitions.

This section is revised to clarify the definitions for “Category IA material” and “inventory differences.” The terms “beginning inventory,” “plant,” “removals from inventory,” and “removals from process” are newly defined. The definition for “removals” is deleted. There has been some confusion by licensees over the term “removals.” The term “removals” is replaced by the terms “removals from process” and “removals from inventory.” The definitions are consistent with the current practice. In addition, both the terms “beginning inventory” and “plant” are used in the current rule language, but were never defined in the regulations. The definitions are consistent with the definitions contained in the current regulatory guides.

Section 74.8 Information collection requirements: OMB approval.

This section is revised to change the OMB collection requirements to reflect the relocation of provisions from Part 70.

Section 74.13 Material status reports.

This section is revised to delete paragraph (b), and redesignate paragraphs (a)(1) and (a)(2) as (a) and (b), respectively. The new paragraph (a) is revised to require a Material Balance Report and Physical Inventory Listing Report to be submitted: (1) within 60 calendar days of the beginning of physical inventory as required in §§ 74.19(c), 74.31(c)(5), 74.33(c)(4), or 74.43(c)(6); or (2) for licensees subject to the requirements of § 74.51 to compile a report as of March 31 and September 30 of each year and file it within 30 days after the end of the period covered by the report. The original paragraph (b) is deleted because the requirements would be replaced by the

new Subpart D.

Section 74.17 Special nuclear material physical inventory summary report.

This section is revised to reflect the relocation of the MC&A requirements and to change the address for reporting physical inventory results in paragraph (c). The reports are to be submitted to the Director, Office of Nuclear Material Safety and Safeguards, instead of the regions to be consistent with paragraphs (a) and (b).

Section 74.19 Recordkeeping.

A new section is added to address the general recordkeeping requirements for MC&A that were previously included in § 70.51. These requirements originate from §§ 70.51(b)(1) through (b)(5), 70.51(c), and 70.51(d).

Section 74.31 Nuclear material control and accounting for special nuclear material of low strategic significance.

This section is revised to delete implementation dates that are no longer applicable. This section is also revised to change 9 kilograms to 9000 grams because the use of 9 kg implied that the NRC will accept a rounding to the nearest kg, when in fact the NRC requires rounding to the nearest gram.

Section 74.41 Nuclear material control and accounting for special nuclear material of moderate strategic significance.

A new section is added to provide the general performance objectives, implementation schedule and system capabilities and requirements for special nuclear material of moderate

strategic significance.

Section 74.43 Internal controls, inventory, and records.

A new section is added to provide the requirements for internal controls, inventory, and recordkeeping for special nuclear material of moderate strategic significance.

Section 74.45 Measurements and measurement control.

A new section is added to provide the requirements for measurements and measurement control for special nuclear material of moderate strategic significance.

Section 74.51 Nuclear material control and accounting for strategic special nuclear material.

This section is revised to delete paragraphs (c)(1) and (c)(2) to eliminate implementation dates that are no longer relevant. Paragraph (c) is revised to reflect that new Fundamental Nuclear Material Control plans would be implemented upon issuance of a license or amendment, or by the date specified in a license condition. Paragraph (d)(1) is deleted because it is no longer necessary to provide an 18-month exemption for implementation. Paragraph (d)(2) is redesignated as paragraph (d).

Section 74.57 Alarm resolution.

This section is revised to reflect an NRC organizational change: the "Domestic Safeguards and Regional Oversight Branch" and the "Division of Safeguards and Transportation" are no longer used as names of organizational units. Also, the stated phone number is no longer applicable. Notifications would be made to the NRC Operations Center.

Section 74.59 Quality assurance and accounting requirements.

This section is revised to provide proper identification of acronyms, correct the accidental omission of the phrase "contained in high enriched uranium," provide improved punctuation, correct typographical errors, and require that reports be submitted to the Director, Office of Nuclear Material Safety and Safeguards.

Section 75.21 General requirements.

This section is revised to delete the reference to § 70.51 and add the new reference to § 74.15.

Section 76.113 Formula quantities of strategic special nuclear material - Category I.

This section is revised to delete the reference to § 70.51 and replace it with the new reference to § 74.19.

Section 76.115 Special nuclear material of moderate strategic significance - Category II.

This section is revised to delete the reference to §§ 70.51, 70.52, 70.53, 70.54, 70.57, and 70.58 and add the new reference to §§ 74.19, 74.41, 74.43, and 74.45.

Section 76.117 Special nuclear material of low strategic significance - Category III.

This section is revised to delete the reference to § 70.51 and add the new reference to § 74.19.

Section 150.20 Recognition of Agreement State licenses.

This section is revised to delete the reference to §§ 70.51, 70.53, and 70.54 and add the new reference to §§ 74.11, 74.15, and 74.19.

Criminal Penalties

For the purpose of Section 223 of the Atomic Energy Act (AEA), the Commission is issuing the final rule to amend 10 CFR Parts 70, 72, and 74 under one or more of Sections 161b, 161i, or 161o of the AEA. Willful violations of the rule are subject to criminal enforcement.

Agreement State Compatibility

Under the “Policy Statement on Adequacy and Compatibility of Agreement State Programs” approved by the Commission on June 30, 1997, and published in the Federal Register on September 3, 1997 (62 FR 46517), most of this final rule is classified as compatibility Category “NRC.” However, certain parts of the final rule are a matter of consistency among States and Federal safety requirements. The revisions to Part 61 and §§ 70.19(c), 70.51(a), 70.51(b), 150.20(b), and new § 74.19(a) would be classified as Category C. A conforming change to § 70.8(b) would be classified as Category D. Although these sections are subject to various degrees of compatibility regarding the Agreement States, the amendments are not expected to impact existing Agreement States regulations. The actual requirements are not changing, they are only being moved to a new location. Therefore, it is not expected that Agreement States will need to make conforming changes to their regulations.

Category C means the provisions affect a program element, the essential objectives of which should be adopted by the State to avoid conflicts, duplications, or gaps in the national program. The manner in which the essential objectives are addressed need not be the same as NRC, provided the essential objectives are met. Category D means the program element does not need to be adopted by the States for purposes of compatibility. Compatibility is not required

for Category “NRC” regulations. The NRC program elements in this category are those that relate directly to areas of regulation reserved to the NRC by the Atomic Energy Act of 1954, as amended (AEA), or the provisions of 10 CFR Chapter I. Although an Agreement State may not adopt program elements reserved to NRC, it may wish to inform its licensees of certain requirements via a mechanism that is consistent with the particular State’s administrative procedure laws, but does not confer regulatory authority on the State.

Voluntary Consensus Standards

The National Technology Transfer Act of 1995 (Pub. L. 104-113) requires that Federal agencies use technical standards that are developed or adopted by voluntary consensus standards bodies unless the use of such a standard is inconsistent with applicable law or otherwise impractical. In this final rule, the NRC would revise the MC&A regulations. This action does not constitute the establishment of a standard that establishes generally applicable requirements.

Environmental Impact: Categorical Exclusion

The NRC has determined that the changes to Part 51, the changes to the reporting requirements, and the movement of the MC&A requirements to Part 74 are the types of actions described in categorical exclusion 10 CFR 51.22(c)(2) and (3). Therefore neither an environmental impact statement nor an environmental assessment has been prepared for these portions of the final rule. An environmental assessment has been prepared for the remainder of

the final rule.

Finding of No Significant Environmental Impact: Availability

The Commission has determined under the National Environmental Policy Act of 1969, as amended, and the Commission's regulations in Subpart A of 10 CFR Part 51, not to prepare an environmental impact statement for this final rule because the Commission has concluded based on an EA that this final rule would not be a major Federal action significantly affecting the quality of the human environment. The EA prepared to support this rulemaking covers the changes to the Category II requirements.

The determination of this EA is that there will be no significant impact to the public from this action. The NRC requested public comments on the environmental assessment and on any environmental justice considerations that may be related to this rule. No comments were received.

The NRC requested the views of the States on the environmental assessment for this rule. No comments were received.

Paperwork Reduction Act Statement

This final rule amends information collection requirements that are subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). These requirements were approved by the Office of Management and Budget, approval number 3150-0004, -0009, -0058, and -0123.

Because the rule will reduce existing information collection requirements, the public burden for this information collection is expected to be decreased by approximately 7 hours per licensee for licensees reporting annually, instead of semiannually, on NRC Forms 742 and 742C. This reduction includes the time required for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the information collection. There is essentially no change in overall burden for the requirements in 10 CFR Part 70 that are being moved to 10 CFR Part 74. Send comments on any aspect of these information collections, including suggestions for further reducing the burden, to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet electronic mail at INFOCOLLECTS@NRC.GOV; and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0004, -0009, -0058, and -0123), Office of Management and Budget, Washington, DC 20503.

Public Protection Notification

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for an information collection requirement unless the requesting document displays a currently valid OMB control number.

Regulatory Analysis

Statement of the Problem and Objective:

The Commission is amending an aspect of the MC&A requirements to reduce the

regulatory burden and provide additional flexibility to licensees required to submit Material Balance Reports and Inventory Composition Reports. The current regulations require a licensee authorized to possess, at any one time or location, SNM in a quantity totaling more than 350 grams of contained uranium-235, uranium-233, or plutonium, or any combination thereof, to complete and submit in a computer-readable format Material Balance Reports concerning SNM received, produced, possessed, transferred, consumed, disposed of, or lost. These reports are to be compiled as of March 31 and September 30 of each year and filed within 30 days after the end of the period. Each licensee is also required to file a statement of the composition of the ending inventory (also called the Physical Inventory Listing Report) along with the Material Balance Report. These twice yearly reports are typically based on book values as opposed to physical inventory results because the dates do not always coincide with the timeframe for a facility's physical inventory. Physical inventories for Category III facilities are conducted on an annual basis, semiannually for Category I facilities, and every 2 to 6 months for Category II facilities. By revising the timeframe to complete their Material Balance Reports and Physical Inventory Listing reports to coincide with the physical inventory and providing additional time to complete the paperwork, the regulatory burden on most licensees will be reduced. At this time, the NRC is not changing the reporting period for Category I facilities.

The categorical exclusion (§ 51.22(c)(12)) covers the issuance of an amendment to a license under 10 CFR Parts 50, 60, 61, 70, 72, or 75, relating to safeguards matters or approval of a safeguards plan. However, an EA would be necessary for approval of an amendment to the safeguards plan. This inadvertent omission of a categorical exclusion for amendments is rectified in the final rule by adding language covering revisions to safeguards plans. In addition, the categorical exclusion currently lists several parts. Part 76 is not included in the listing but should be included. Providing a generic reference to any part of 10 CFR Chapter I corrects the current

listing and avoids the need for changes due to new parts being added. These changes will enhance the NRC's efficiency and reduce potential burden on its staff.

In 1982, the NRC initiated an effort to move the MC&A requirements from 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material," to 10 CFR Part 74, "Material Control and Accounting of Special Nuclear Material." The initiative also included efforts to make the requirements more performance oriented. In 1985, the MC&A requirements for Category III facilities were made more performance oriented and moved to Part 74 (50 FR 7575; February 25, 1985). The requirements for Category I facilities were similarly moved in 1987 (52 FR 10033; March 30, 1987). The MC&A requirements for Category II facilities and some of the general MC&A requirements are still interspersed among the safety and general licensing requirements of Part 70. The requirements regarding Category II material are also overly prescriptive, in some cases having more stringent requirements than those for a Category I facility. Although there are no current operating Category II licensed facilities (the only Category II facility has a possession only license and is undergoing decommissioning), it is still beneficial to move the requirements and make them less prescriptive. These modifications will enhance the regulatory process by providing any future Category II licensee with a better understanding of the procedures and requirements for MC&A, and will complete consolidation of the MC&A requirements in Part 74. Conforming changes are also being made to Parts 61, 73, 75, 76, and 150 to reflect the relocations of the MC&A requirements.

In addition, the final rule corrects several typos, old implementation dates, and some terminology that is being updated to reflect current practice and for consistency with the regulatory guides.

Identification and Analysis of Alternative Approaches to the Problem:

Option 1 - Conduct a rulemaking that would address the regulatory problems described above.

The final rule will revise the timing to complete the Material Balance Reports and Physical Inventory Listing Reports to coincide with a facility's physical inventory, except for Category I licensees. The final rule will also provide additional time to complete the reports, except for a licensee who is reporting under Part 75. These changes will provide most licensees with additional flexibility and reduce the regulatory burden. The final rule will require that the Material Balance Reports and Physical Inventory Listing Reports be filed within 60 days of the beginning of the physical inventory. The majority of licensees are only required to conduct an annual physical inventory (the exceptions being Category I and II facilities) and will, therefore, file the reports once a year instead of twice a year. This will reduce the burden on industry in preparing the reports by about half. Category I licensees will continue to submit reports within 30 days of the end of the reporting period (March 31 and September 30 of each year).

This final rule will also revise the categorical exclusion covering approval of safeguards plans, move the MC&A requirements to Part 74, and make the Category II requirements more risk-informed. The final rule represents the final stage of an effort that started in 1982, and will result in the movement of the remaining general MC&A requirements and the requirements for Category II facilities. The risk-informed approach is consistent with the existing MC&A regulations that apply to Category I and III facilities. In addition, the final rule will make modifications that were missed in earlier updates of the MC&A regulations, correct typographical errors, delete outdated implementation dates, clarify some definitions, and include several new definitions.

Option 2 - No Action.

One alternative to amending the regulations is to maintain the current regulations without change. The advantages of the no action alternative is that the resources expended on the

rulemaking would be conserved. Further, there is no urgency to make the changes to the Category II requirements because there are currently no active Category II licensees. The current system has worked reasonably well, and the changes to consolidate the MC&A requirements in Part 74 may be desirable, but not necessary. The disadvantages of the no action alternative is that the identified regulatory problems would not be addressed. The regulatory burden reductions to be gained for most licensees by changing the timing and frequency for submittal of the Material Balance Reports and the Physical Inventory Listing Reports would not be achieved. In addition, the location of the MC&A requirements in both Part 70 and Part 74 can cause confusion, particularly for a licensee who refers to the general requirements in Part 70. Consolidation of domestic MC&A requirements would not occur. The requirements for Category II facilities would remain more stringent than the requirements for Category I facilities.

Estimation and Evaluation of Values and Impacts:

The principal purpose of the Material Balance Report and the Physical Inventory Listing Report is the periodic reconciliation of licensee records with the records in the NMMSS. A secondary purpose is the use of these records to satisfy the requirement of the US/IAEA Safeguards Agreement to provide an annual Material Balance Report for facilities selected under the Agreement or associated Protocol.

The final rule modifies the regulations to require the Material Balance Report and the Physical Inventory Listing Report at the time of a physical inventory, except for Category I licensees. The final rule will require the reports to be completed within 60 days of the beginning of the physical inventory for independent spent fuel storage installations, reactors, and Category II and III facilities. This modification does not affect licensees reporting under Part 75. Because most licensees conduct annual inventories, the reporting burden will be reduced. Reconciliation

once a year instead of twice a year does not appear to be a problem for most licensees because the number of transactions is such that reconciliation of records would be manageable. In the case of the gaseous diffusion plants (GDPs) and their large number of transactions, reconciliation could be more difficult. This change does not preclude the GDPS from continuing to request monthly summaries from the NMMSS and reconciling its records with the NMMSS on a bimonthly basis, which is the current practice. One Material Balance Report and Physical Inventory Listing Report per year at the time of the physical inventory still provides for adequate safeguards for Category III facilities. In addition to reducing the regulatory burden on a licensee, the change will enhance the efficiency of the NMMSS.

Licensees are currently required to submit the semiannual Material Balance Reports and Physical Inventory Listing Reports within 30 days of March 31 and September 30 of each year. The preestablished timing of the submittals has two drawbacks. Specifically, the reports rarely coincide with a physical inventory, and the NMMSS contractor receives all of the reports for a given period simultaneously. The data from a physical inventory is significantly more meaningful than the book values reported during the interim periods. Staggering the submittals should benefit the NMMSS contractor, as not all licensees conduct inventories at the same time. Requirements for the NMMSS contractor would likely be spread more evenly throughout the year. By modifying the requirement to stipulate that the Material Balance Report and Physical Inventory Listing Report shall be submitted at the time of the physical inventory, these problems could be alleviated, and the data from the reports would be more meaningful.

Another consideration is whether there would be an adverse impact on meeting IAEA safeguards requirements. Under the terms of the US/IAEA Safeguards Agreement and § 75.35, only one Material Balance Report and Physical Inventory Listing Report is required per year. Consequently, there would be no adverse impact.

As the final rule will tie submittal of the reports to the physical inventory, the majority of licensees will only need to submit the reports once a year instead of twice a year. This will result in reducing the industry burden for preparing and filing the Material Balance Report and the Physical Inventory Listing Reports by about half. The Material Balance Reports are filed using DOE/NRC Form 742. The burden for preparation and submission of each DOE/NRC Form 742 is estimated to be 45 minutes. There are currently about 200 licensees who submit two forms per year. With the submittal of only one report per year for 198 licensees, the burden is reduced by about 149 hours. The Physical Inventory Listing Reports are filed on DOE/NRC Form 742C. The burden for preparing this form is 6 hours. With about 178 licensees submitting the form annually, the total burden reduction is 1068 hours per year. Because some licensees are also required to submit DOE/NRC Form 742 to cover foreign origin source material, the number of licensees required to submit NRC Form 742 is higher than the number submitting DOE/NRC Form 742C.

The burden on the NRC staff will also be reduced because there will be fewer reports to review. NRC review time is approximately 5 minutes per report. With a reduction of 376 reports per year, NRC staff would save about 31 hours per year. In addition, the NRC staff receives five to eight requests per year from licensees who are asking for more time to file the reports. With the additional time being provided for filing the reports, the NRC staff does not expect to receive any requests in the future. The applicant will save the effort necessary in preparing the request, and the staff will save time in reviewing and approving the request.

The rulemaking will also result in the consolidation of the MC&A requirements in Part 74 and adoption of more risk-informed regulations for Category II facilities. These modifications will enhance the regulatory process by providing any future Category II licensees a better understanding of the procedures and requirements for MC&A. The principal cost for this action would be the modest expenditure of NRC staff resources to issue this rulemaking. However, there

are no currently active Category II licensees that would benefit from the revised regulations for Category II facilities. Another advantage is that domestic MC&A requirements would be consolidated and would provide a graded, risk-informed approach to MC&A regulation. In addition, the existing typographical errors, outdated terminology, and old implementation dates would be corrected.

Presentation of Results:

The recommended action is to adopt the first option because it will reduce the burden on licensees in preparing and filing their Material Balance Reports and Physical Inventory Listing Reports. The process will become more efficient, and the industry burden of producing the reports will be reduced by a total of approximately 1,217 staff-hours. In addition to reducing unnecessary regulatory burden on licensees, the changes will enhance the operational efficiency of the NMMSS contractor by spreading the report submittals evenly throughout the year. This change will not preclude the gaseous diffusion plants with their large number of transactions from continuing to request monthly summaries from the NMMSS to reconcile their records. The final rule will also consolidate the MC&A requirements in Part 74 and adopt more risk-informed regulations for Category II facilities. These modifications should enhance the regulatory process by providing any future Category II licensee a better understanding of the procedures and requirements for MC&A. The principal cost for this action would be the modest expenditure of NRC staff resources to issue this rulemaking. The total cost of this rulemaking to the NRC is estimated at 1.2 FTE. The total savings to the industry is about 1,217 hours per year. The action is considered to be cost beneficial to licensees and will improve the operational efficiency of the NMMSS contractor. Adequate safeguards would be maintained. Consequently, the Commission believes public confidence would not be adversely affected by this rulemaking.

Decision Rationale:

Based on the discussion of the benefits and impacts of the alternatives, the NRC concludes that the requirements of the final rule are commensurate with the NRC's responsibilities for public health and safety and the common defense and security. This rulemaking will save both NRC staff and licensee resources. No other available alternative is believed to be as satisfactory. Thus, this action is recommended.

Regulatory Flexibility Certification

In accordance with the Regulatory Flexibility Act of 1980, (5 U.S.C. 605(b)), the Commission certifies that this rule does not have a significant economic impact on a substantial number of small entities. The majority of companies that own these plants do not fall within the scope of the definition of "small entities" set forth in the Regulatory Flexibility Act or the size standards adopted by the NRC (10 CFR 2.810).

Backfit Analysis

The NRC has determined that the backfit rule (§§ 50.109, 72.62, or 76.76) does not apply to this final rule because these amendments do not involve any provisions that would impose backfits as defined in the backfit rule. Therefore, a backfit analysis is not required.

Small Business Regulatory Enforcement Fairness Act

In accordance with the Small Business Regulatory Enforcement Fairness Act of 1996, the NRC has determined that this action is not a major rule and has verified this determination with the Office of Information and Regulatory Affairs of OMB.

List of Subjects

10 CFR Part 51 - Administrative practice and procedure, Environmental impact statement, Nuclear materials, Nuclear power plants and reactors, Reporting and recordkeeping requirements.

10 CFR Part 61 - Criminal penalties, Low-level waste, Nuclear materials, Reporting and recordkeeping requirements, Waste treatment and disposal.

10 CFR Part 70 - Criminal penalties, Hazardous materials transportation, Material control and accounting, Nuclear materials, Packaging and containers, Radiation protection, Reporting and recordkeeping requirements, Scientific equipment, Security measures, Special nuclear material.

10 CFR Part 72 - Administrative practice and procedures, Criminal penalties, Manpower training programs, Nuclear materials, Occupational safety and health, Penalties, Radiationprotection, Reporting and recordkeeping requirements, Security measures, Spent fuel, Whistleblowing.

10 CFR Part 73 - Criminal penalties, Export, Hazardous materials transportation, Import, Nuclear materials, Nuclear power plants and reactors, Reporting and recordkeeping requirements,

Security measures.

10 CFR Part 74 - Accounting, Criminal penalties, Hazardous materials transportation, Material control and accounting, Nuclear materials, Packaging and containers, Radiation protection, Reporting and recordkeeping requirements, Scientific equipment, Special nuclear material.

10 CFR Part 75 - Criminal penalties, Intergovernmental relations, Nuclear materials, Nuclear power plants and reactors, Reporting and recordkeeping requirements, Security measures.

10 CFR Part 76 - Certification, Criminal penalties, Radiation protection, Reporting and recordkeeping requirements, Security measures, Special nuclear material, Uranium enrichment by gaseous diffusion.

10 CFR Part 150 - Criminal penalties, Hazardous materials transportation, Intergovernmental relations, Nuclear materials, Reporting and recordkeeping requirements, Security measures, Source material, Special nuclear material.

For the reasons set out in the preamble and under the authority of the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974, as amended, and 5 U.S.C. 552 and 553, the NRC is adopting the following amendments to 10 CFR Parts 51, 61, 70, 72, 73, 74, 75, 76, and 150.

PART 51 - ENVIRONMENTAL PROTECTION REGULATIONS FOR DOMESTIC LICENSING
AND RELATED REGULATORY FUNCTIONS

1. The authority citation for Part 51 continues to read as follows:

AUTHORITY: Sec. 161, 68 Stat. 948, as amended, sec. 1701, 106 Stat. 2951, 2952, 2953 (42 U.S.C. 2201, 2297f); secs. 201, as amended, 202, 88 Stat. 1242, as amended, 1244 (42 U.S.C. 5841, 5842). Subpart A also issued under National Environmental Policy Act of 1969, secs. 102, 104, 105, 83 Stat. 853 - 854, as amended (42 U.S.C. 4332, 4334, 4335); and Pub. L. 95 - 604, Title II, 92 Stat. 3033 - 3041; and sec. 193, Pub. L. 101 - 575, 104 Stat. 2835, (42 U.S.C. 2243). Sections 51.20, 51.30, 51.60, 51.80, and 51.97 also issued under secs. 135, 141, Pub. L. 97 - 425, 96 Stat. 2232, 2241, and sec. 148, Pub. L. 100 - 203, 101 Stat. 1330 - 223 (42 U.S.C. 10155, 10161, 10168). Section 51.22 also issued under sec. 274, 73 Stat. 688, as amended by 92 Stat. 3036 - 3038 (42 U.S.C. 2021) and under Nuclear Waste Policy Act of 1982, sec. 121, 96 Stat. 2228 (42 U.S.C. 10141). Sections 51.43, 51.67, and 51.109 also under Nuclear Waste Policy Act of 1982, sec. 114(f), 96 Stat. 2216, as amended (42 U.S.C. 10134(f)).

2. In § 51.22, paragraph (c)(12) is revised to read as follows:

§ 51.22 Criterion for categorical exclusion; identification of licensing and regulatory actions eligible for categorical exclusion or otherwise not requiring environmental review.

(c)

* * * *

(12) Issuance of an amendment to a license implementing any requirement of this chapter relating solely to safeguards matters (i.e., protection against sabotage or loss or diversion of special nuclear material), or issuance of an approval of a safeguards plan (or a revision of a safeguards plan) submitted pursuant to a requirement of any part of this chapter, provided that the amendment or approval does not involve any significant construction impacts. These amendments and approvals are confined to:

- (i) Organizational and procedural matters;
- (ii) Modifications to systems used for security and/or materials accountability;
- (iii) Administrative changes; and
- (iv) Review and approval of transportation routes pursuant to 10 CFR 73.37.

* * * *

PART 61 - LICENSING REQUIREMENTS FOR LAND DISPOSAL OF RADIOACTIVE WASTE

3. The authority citation for Part 61 continues to read as follows:

AUTHORITY: Secs. 53, 57, 62, 63, 65, 81, 161, 182, 183, 68 Stat. 930, 932, 933, 935, 948, 953, 954, as amended (42 U.S.C. 2073, 2077, 2092, 2093, 2095, 2111, 2201, 2232, 2233); secs. 202, 206, 88 Stat. 1244, 1246 (42 U.S.C. 5842, 5846); secs. 10 and 14, Pub. L. 95 - 601, 92 Stat. 2951 (42 U.S.C. 2021a and 5851) and Pub. L. 102 - 486, sec. 2902, 106 Stat. 3123 (42 U.S.C. 5851).

4. In § 61.80, paragraph (g) is revised to read as follows:

§ 61.80 Maintenance of records, reports, and transfers.

* * * *

(g) Each licensee shall comply with the safeguards reporting requirements of §§ 30.55, 40.64, 74.13, and 74.15 of this chapter if the quantities or activities of materials received or transferred exceed the limits of these sections. Inventory reports required by these sections are not required for materials after disposal.

* * * *

PART 70 - DOMESTIC LICENSING OF SPECIAL NUCLEAR MATERIAL

5. The authority citation for Part 70 continues to read as follows:

AUTHORITY: Secs. 51, 53, 161, 182, 183, 68 Stat. 929, 930, 948, 953, 954, as amended, sec. 234, 83 Stat. 444, as amended (42 U.S.C. 2071, 2073, 2201, 2232, 2233, 2282, 2297f); secs. 201, as amended, 202, 204, 206, 88 Stat. 1242, as amended, 1244, 1245, 1246 (42 U.S.C. 5841, 5842, 5845, 5846). Sec. 193, 104 Stat. 2835 as amended by Pub. L. 104-134, 110 Stat. 1321, 1321-349 (42 U.S.C. 2243).

Sections 70.1(c) and 70.20a(b) also issued under secs. 135, 141, Pub. L. 97-425, 96 Stat. 2232, 2241 (42 U.S.C. 10155, 10161). Section 70.7 also issued under Pub. L. 95-601, sec. 10, 92 Stat. 2951 (42 U.S.C. 5851). Section 70.21(g) also issued under sec. 122, 68 Stat. 939 (42 U.S.C. 2152). Section 70.31 also issued under sec. 57d, Pub. L. 93-377, 88 Stat. 475 (42 U.S.C. 2077). Sections 70.36 and 70.44 also issued under sec. 184, 68 Stat. 954, as amended (42 U.S.C. 2234). Section 70.81 also issued under secs. 186, 187, 68 Stat. 955 (42 U.S.C. 2236, 2237). Section 70.82 also issued under sec. 108, 68 Stat. 939, as amended (42 U.S.C. 2138).

6. In § 70.8, paragraphs (b) and (c) are revised to read as follows:

§ 70.8 Information collection requirements: OMB approval.

* * * *

(b) The approved information collection requirements contained in this part appear in §§ 70.9, 70.17, 70.19, 70.20a, 70.20b, 70.21, 70.22, 70.24, 70.25, 70.32, 70.33, 70.34, 70.38, 70.39, 70.42, 70.50, 70.51, 70.52, 70.59, 70.61, 70.62, 70.64, 70.65, 70.72, 70.73, 70.74, and Appendix A.

(c) This part contains information collection requirements in addition to those approved under the control number specified in paragraph (a) of this section. These information collection requirements and the control numbers under which they are approved are as follows:

(1) In § 70.21, Form N-71 is approved under control number 3150-0056.

(2) In § 70.38, NRC Form 314 is approved under control number 3150-0028.

7. In § 70.19, the introductory text of paragraph (c) is revised to read as follows:

§ 70.19 General license for calibration or reference sources.

* * * *

(c) The general license in paragraph (a) of this section is subject to the provisions of §§ 70.32, 70.50, 70.55, 70.56, 70.61, 70.62, and 70.71; the provisions of §§ 74.11, and 74.19 of this chapter; and to the provisions of parts 19, 20, and 21 of this chapter. In addition, persons who receive title to, own, acquire, deliver, receive, possess, use or transfer one or more calibration or reference sources pursuant to this general license:

* * * *

8. In § 70.20a, paragraph (a) is revised to read as follows:

§ 70.20a General license to possess special nuclear material for transport.

(a) A general license is hereby issued to any person to possess formula quantities of strategic special nuclear material of the types and quantities subject to the requirements of §§ 73.20, 73.25, 73.26, and 73.27 of this chapter, and irradiated reactor fuel containing material of the types and quantities subject to the requirements of § 73.37 of this chapter, in the regular course of carriage for another or storage incident thereto. Carriers generally licensed under § 70.20b are exempt from the requirements of this section. Carriers of irradiated reactor fuel for the United States Department of Energy are also exempt from the requirements of this section. The general license is subject to the applicable provisions of §§ 70.7(a) through (e), 70.32(a) and (b), and §§ 70.42, 70.52, 70.55, 70.61, 70.62, 70.71, and 10 CFR 74.11.

* * * *

9. In § 70.22, paragraph (b) is revised to read as follows:

§ 70.22 Contents of applications.

* * * *

(b) Each application for a license to possess special nuclear material, to possess equipment capable of enriching uranium, to operate an uranium enrichment facility, to possess and use at any one time and location special nuclear material in a quantity exceeding one effective kilogram, except for applications for use as sealed sources and for those uses involved in the operation of a nuclear reactor licensed pursuant to part 50 of this chapter and those involved

in a waste disposal operation, must contain a full description of the applicant's program for control and accounting of such special nuclear material or enrichment equipment that will be in the applicant's possession under license to show how compliance with the requirements of §§ 74.31, 74.33, 74.41, or 74.51 of this chapter, as applicable, will be accomplished.

* * * *

10. In § 70.23, paragraph (a)(6) is revised to read as follows:

§ 70.23 Requirements for the approval of applications.

(a) ***

(6) Where the applicant is required to submit a summary description of the fundamental material controls provided in his procedures for the control of and accounting for special nuclear material pursuant to § 70.22 (b), the applicant's proposed controls are adequate;

* * * *

11. In § 70.32, paragraphs (c)(1)(i), (ii), and (iii) are revised to read as follows:

§ 70.32 Conditions of licenses.

* * * *

(c) ***

(1) ***

(i) The program for control and accounting of uranium source material at an uranium enrichment facility and special nuclear material at all applicable facilities as implemented pursuant to § 70.22(b), or §§ 74.31(b), 74.33(b), 74.41(b), or 74.51(c) of this chapter, as appropriate;

(ii) The measurement control program for uranium source material at an uranium

enrichment facility and for special nuclear material at all applicable facilities as implemented pursuant to §§ 74.31(b), 74.33(b), 74.45(c), or 74.59(e) of this chapter, as appropriate; and

(iii) Other material control procedures as the Commission determines to be essential for the safeguarding of uranium source material at an uranium enrichment facility or of special nuclear material and providing that the licensee shall make no change that would decrease the effectiveness of the material control and accounting program implemented pursuant to § 70.22(b), or §§ 74.31(b), 74.33(b), 74.41(b), or 74.51(c) of this chapter, and the measurement control program implemented pursuant to §§ 74.31(b), 74.33(b), 74.41(b), or 74.59(e) of this chapter without the prior approval of the Commission. A licensee desiring to make changes that would decrease the effectiveness of its material control and accounting program or its measurement control program shall submit an application for amendment to its license pursuant to § 70.34.

* * * *

12. Section 70.51 is revised to read as follows:

§ 70.51 Records requirements.

(a) Before license termination, licensees shall forward the following records to the appropriate NRC Regional Office:

(1) Records of disposal of licensed material made under 10 CFR 20.2002 (including burials authorized before January 28, 1981¹), 20.2003, 20.2004, 20.2005;

¹A previous § 20.304 permitted burial of small quantities of licensed materials in soil before January 28, 1981, without specific Commission authorization. See § 20.304 contained in the 10 CFR, parts 0 to 199, edition revised as of January 1, 1981.

(2) Records required by 10 CFR 20.2103(b)(4); and

(3) Records required by § 70.25(g).

(b) If licensed activities are transferred or assigned in accordance with § 70.32(a)(3), the licensee shall transfer the following records to the new licensee and the new licensee will be responsible for maintaining these records until the license is terminated:

(1) Records of disposal of licensed material made under 10 CFR 20.2002 (including burials authorized before January 28, 1981¹), 20.2003, 20.2004, 20.2005;

(2) Records required by 10 CFR 20.2103(b)(4); and

(3) Records required by § 70.25(g).

(c)(1) Records which must be maintained pursuant to this part may be the original or a reproduced copy, or microform if the reproduced copy or microform is duly authenticated by authorized personnel, and the microform is capable of producing a clear and legible copy after storage for the period specified by Commission regulations. The record may also be stored in electronic media with the capability for producing legible, accurate, and complete records during the required retention period. Records such as letters, drawings, and specifications, must include all pertinent information such as stamps, initials, and signatures. The licensee shall maintain adequate safeguards against tampering with and loss of records.

(2) If there is a conflict between the Commission's regulations in this part, license condition, or other written Commission approval or authorization pertaining to the retention period for the same type of record, the retention period specified in the regulations in this part for these records shall apply unless the Commission, pursuant to § 70.14, has granted a specific exemption from the record retention requirements specified in the regulations in this part.

13. Section 70.52 is revised to read as follows:

§ 70.52 Reports of accidental criticality.

- (a) Each licensee shall notify the NRC Operations Center¹ within one hour after discovery of any case of accidental criticality.
- (b) This notification must be made to the NRC Operations Center via the Emergency Notification System if the licensee is party to that system. If the Emergency Notification System is inoperative or unavailable, the licensee shall make the required notification via commercial telephonic service or other dedicated telephonic system or any other method that will ensure that a report is received by the NRC Operations Center within one hour.

§ 70.53 [Removed]

14. Section 70.53 is removed.

§ 70.54 [Removed]

15. Section 70.54 is removed.

§ 70.57 [Removed]

16. Section 70.57 is removed.

¹Commercial telephone number of the NRC Operations Center is (301) 816-5100.

§ 70.58 [Removed]

17. Section 70.58 is removed.

PART 72 - LICENSING REQUIREMENTS FOR THE INDEPENDENT STORAGE OF SPENT NUCLEAR FUEL AND HIGH-LEVEL RADIOACTIVE WASTE

18. The authority citation for Part 72 continues to read as follows:

AUTHORITY: Secs. 51, 53, 57, 62, 63, 65, 69, 81, 161, 182, 183, 184, 186, 187, 189, 68 Stat. 929, 930, 932, 933, 934, 935, 948, 953, 954, 955, as amended, sec. 234, 83 Stat. 444, as amended (42 U.S.C. 2071, 2073, 2077, 2092, 2093, 2095, 2099, 2111, 2201, 2232, 2233, 2234, 2236, 2237, 2238, 2282); sec. 274, Pub. L. 86-373, 73 Stat. 688, as amended (42 U.S.C. 2021); sec. 201, as amended, 202, 206, 88 Stat. 1242, as amended, 1244, 1246 (42 U.S.C. 5841, 5842, 5846); Pub. L. 95-601, sec. 10, 92 Stat. 2951 as amended by Pub. L. 102 - 486, sec. 7902, 106 Stat. 3123 (42 U.S.C. 5851); sec. 102, Pub. L. 91-190, 83 Stat. 853 (42 U.S.C. 4332); secs. 131, 132, 133, 135, 137, 141, Pub. L. 97-425, 96 Stat. 2229, 2230, 2232, 2241, sec. 148, Pub. L. 100-203, 101 Stat. 1330-235 (42 U.S.C. 10151, 10152, 10153, 10155, 10157, 10161, 10168).

Section 72.44(g) also issued under secs. 142(b) and 148(c), (d), Pub. L. 100-203, 101 Stat. 1330-232, 1330-236 (42 U.S.C. 10162(b), 10168(c),(d)). Section 72.46 also issued under sec. 189, 68 Stat. 955 (42 U.S.C. 2239); sec. 134, Pub. L. 97-425, 96 Stat. 2230 (42 U.S.C. 10154). Section 72.96(d) also issued under sec. 145(g), Pub. L. 100-203, 101 Stat. 1330-235 (42

U.S.C. 10165(g)). Subpart J also issued under secs. 2(2), 2(15), 2(19), 117(a), 141(h), Pub. L. 97-425, 96 Stat. 2202, 2203, 2204, 2222, 2244, (42 U.S.C. 10101, 10137(a), 10161(h)). Subparts K and L are also issued under sec. 133, 98 Stat. 2230 (42 U.S.C. 10153) and sec. 218(a), 96 Stat. 2252 (42 U.S.C. 10198).

19. In § 72.76, paragraph (a) is revised to read as follows:

§ 72.76 Material status reports.

(a) Except as provided in paragraph (b) of this section, each licensee shall complete in computer-readable format and submit to the Commission a Material Balance Report and a Physical Inventory Listing Report in accordance with instructions (NUREG/BR-0007 and NMMSS Report D - 24 "Personal Computer Data Input for NRC Licensees"). Copies of these instructions may be obtained from the U.S. Nuclear Regulatory Commission, Division of Fuel Cycle Safety and Safeguards, Washington, DC 20555-0001. These reports provide information concerning the special nuclear material possessed, received, transferred, disposed of, or lost by the licensee. Each report must be submitted within 60 days of the beginning of the physical inventory required by § 72.72(b). The Commission may, when good cause is shown, permit a licensee to submit Material Balance Reports and Physical Inventory Listing Reports at other times. The Commission's copy of this report must be submitted to the address specified in the instructions. These prescribed computer-readable forms replace the DOE/NRC Forms 742 and 742C which have been previously submitted in paper form.

* * * *

PART 73 - PHYSICAL PROTECTION OF PLANTS AND MATERIALS

20. The authority citation for Part 73 continues to read as follows:

AUTHORITY: Secs. 53, 161, 68 Stat. 930, 948, as amended, sec. 147, 94 Stat. 780 (42 U.S.C. 2073, 2167, 2201); sec. 201, as amended, 204, 88 Stat. 1242, as amended, 1245, sec. 1701, 106 Stat. 2951, 2952, 2953 (42 U.S.C. 5841, 5844, 2297f).

Section 73.1 also issued under secs. 135, 141, Pub. L. 97 - 425, 96 Stat. 2232, 2241 (42 U.S.C. 10155, 10161). Section 73.37(f) also issued under sec. 301, Pub. L. 96 - 295, 94 Stat. 789 (42 U.S.C. 5841 note). Section 73.57 is issued under sec. 606, Pub. L. 99 - 399, 100 Stat. 876 (42 U.S.C. 2169).

21. In § 73.67, paragraph (e)(2)(ii) is revised to read as follows:

§ 73.67 Licensee fixed site and in-transit requirements for the physical protection of special nuclear material of moderate and low strategic significance.

* * * *

(e)***

(2)***

(ii) Notify the shipper of receipt of the material as required in § 74.15 of this chapter, and

* * * *

PART 74 - MATERIAL CONTROL AND ACCOUNTING OF SPECIAL NUCLEAR MATERIAL

22. The authority citation for Part 74 continues to read as follows:

AUTHORITY: Secs. 53, 57, 161, 182, 183, 68 Stat. 930, 932, 948, 953, 954, as amended, sec. 234, 83 Stat. 444, as amended, sec. 1701, 106 Stat. 2951, 2952, 2953 (42 U.S.C. 2073, 2077, 2201, 2232, 2233, 2282, 2297f); secs. 201, as amended, 202, 206, 88 Stat. 1242, as amended, 1244, 1246 (42 U.S.C. 5841, 5842, 5846).

23. In § 74.1, paragraph (a) is revised to read as follows:

§ 74.1 Purpose.

(a) This part has been established to contain the requirements for the control and accounting of special nuclear material at fixed sites and for documenting the transfer of special nuclear material. General reporting requirements as well as specific requirements for certain licensees possessing special nuclear material of low strategic significance, special nuclear material of moderate strategic significance, and formula quantities of strategic special nuclear material are included. Requirements for the control and accounting of source material at enrichment facilities are also included.

* * * *

24. Section 74.2 is revised to read as follows:

§ 74.2 Scope.

(a) The general reporting and recordkeeping requirements of subpart B of this part apply to each person licensed pursuant to this chapter who possess special nuclear material in a quantity greater than 350 grams of contained uranium-235, uranium-233, or plutonium, or any

combination thereof; or who transfers or receives a quantity of special nuclear material of 1 gram or more of contained uranium-235, uranium-233, or plutonium. The general reporting and recordkeeping requirements of subpart B of this part do not apply to licensees whose MC&A reporting and recordkeeping requirements are covered by §§ 72.72, 72.76, and 72.78 of this chapter.

(b) In addition, specific control and accounting requirements are included in subparts C, D, and E for certain licensees who:

- (1) Possess and use formula quantities of strategic special nuclear material;
- (2) Possess and use special nuclear material of moderate strategic significance;
- (3) Possess and use special nuclear material of low strategic significance; or
- (4) Possess uranium source material and equipment capable of producing enriched uranium.

(c) As provided in part 76 of this chapter, the regulations of this part establish procedures and criteria for material control and accounting for the issuance of a certificate of compliance or the approval of a compliance plan.

25. In § 74.4, definition for “Removals” is removed; the definitions of “Category IA material” and “Inventory difference (ID)” are revised; and the definitions for “Beginning inventory (BI),” “Plant,” “Removals from inventory,” and “Removals of material from process” are added in alphabetical order to read as follows:

§ 74.4 Definitions.

* * * *

Beginning inventory (BI) means the book inventory quantity at the beginning of an

inventory period, and is the reconciled physical inventory entered into the books as an adjusted inventory at the completion of the prior inventory period.

* * * *

Category IA material means SSNM directly useable in the manufacture of a nuclear explosive device, except if:

- (1) The dimensions are large enough (at least two meters in one dimension, greater than one meter in each of two dimensions, or greater than 25cm in each of three dimensions) to preclude hiding the item on an individual;
- (2) The total weight of an encapsulated item of SSNM is such that it cannot be carried inconspicuously by one person (i.e., at least 50 kilograms gross weight); or
- (3) The quantity of SSNM (less than 0.05 formula kilograms) in each container requires protracted diversions to accumulate five formula kilograms.

* * * *

Inventory difference (ID) means the arithmetic difference obtained by subtracting the quantity of SNM tabulated from a physical inventory from the book inventory quantity. Book inventory quantity is equivalent to the beginning inventory (BI) plus additions to inventory (A) minus removals from inventory (R), while the physical inventory quantity is the ending inventory (EI) for the material balance period in question (as physically determined). Thus mathematically,

$$ID = (BI + A - R) - EI \quad \text{or} \quad ID = BI + A - R - EI$$

* * * *

Plant means a set of processes or operations (on the same site, but not necessarily all in the same building) coordinated into a single manufacturing, R&D, or testing effort. A scrap recovery operation, or an analytical laboratory, serving both onsite and offsite customers (or more than one onsite manufacturing effort) should be treated as a separate plant.

* * * *

Removals from inventory means measured quantities of special nuclear material contained in:

- (1) Shipments;
- (2) Waste materials transferred to an onsite holding account via a DOE/NRC Form 741 transaction;
- (3) Measured discards transported offsite; and
- (4) Effluents released to the environment.

Removals of material from process (or removals from process) means measured quantities of special nuclear material contained in:

- (1) Effluents released to the environment;
- (2) Previously unencapsulated materials that have been encapsulated as sealed sources;
- (3) Waste materials that will not be subject to further onsite processing and which are under tamper-safing;
- (4) Ultimate product placed under tamper-safing; and
- (5) Any materials (not previously designated as *removals from process*) shipped offsite.

* * * *

26. In § 74.8, paragraph (b) is revised to read as follows:

§ 74.8 Information collection requirements: OMB approval.

* * * *

- (b) The approved information collection requirements contained in this part appear in

§§ 74.11, 74.13, 74.15, 74.17, 74.19, 74.31, 74.33, 74.41, 74.43, 74.45, 74.51, 74.57, and 74.59.

* * * *

27. The heading of Subpart B is revised to read as follows:

Subpart B--General Reporting and Recordkeeping Requirements

28. Section 74.13 is revised to read as follows:

§ 74.13 Material status reports.

(a) Each licensee, including nuclear reactor licensees as defined in §§ 50.21 and 50.22 of this chapter, authorized to possess at any one time and location special nuclear material in a quantity totaling more than 350 grams of contained uranium-235, uranium-233, or plutonium, or any combination thereof, shall complete and submit, in computer-readable format Material Balance Reports concerning special nuclear material that the licensee has received, produced, possessed, transferred, consumed, disposed of, or lost. This prescribed computer-readable report replaces the DOE/NRC Form 742 which has been previously submitted in paper form. The Physical Inventory Listing Report must be submitted with each Material Balance Report. This prescribed computer-readable report replaces the DOE/NRC Form 742C which has been previously submitted in paper form. Each licensee shall prepare and submit the reports described in this paragraph in accordance with instructions (NUREG/BR-0007 and NMMSS Report D-24 "Personal Computer Data Input for NRC Licensees"). Copies of these instructions may be obtained from the U.S. Nuclear Regulatory Commission, Division of Fuel Cycle Safety and Safeguards, Washington,

DC 20555-0001. Each licensee subject to the requirements of § 74.51 shall compile a report as of March 31 and September 30 of each year and file it within 30 days after the end of the period covered by the report. All other licensees subject to this requirement shall submit a report within 60 calendar days of the beginning of the physical inventory required by §§ 74.19(c), 74.31(c)(5), 74.33(c)(4), or 74.43(c)(6). The Commission may permit a licensee to submit the reports at other times for good cause.

(b) Any licensee who is required to submit routine Material Status Reports pursuant to § 75.35 of this chapter (pertaining to implementation of the US/IAEA Safeguards Agreement) shall prepare and submit these reports only as provided in that section (instead of as provided in paragraph (a)(1) of this section).

29. Section 74.17 is revised to read as follows:

§ 74.17 Special nuclear material physical inventory summary report.

(a) Each licensee subject to the requirements of §§ 74.31 or 74.33 of this part shall submit a completed Special Nuclear Material Physical Inventory Summary Report on NRC Form 327 not later than 60 calendar days from the start of each physical inventory required by §§ 74.31(c)(5) or 74.33(c)(4). The licensee shall report the physical inventory results by plant and total facility to the Director, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

(b) Each licensee subject to the requirements of § 74.41(a) of this part shall submit a completed Special Nuclear Material Physical Inventory Summary Report on NRC Form 327 not later than 60 calendar days from the start of each physical inventory required by § 74.43(c)(7). The licensee shall report the physical inventory results by plant and total facility to the Director,

Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission,
Washington, DC 20555-0001.

(c) Each licensee subject to the requirements of § 74.51 shall submit a completed Special Nuclear Material Physical Inventory Summary Report on NRC Form 327 not later than 45 calendar days from the start of each physical inventory required by § 74.59(f). The licensee shall report the physical inventory results by plant and total facility to the Director, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

30. A new § 74.19 is added to read as follows:

§ 74.19 Recordkeeping.

(a) Licensees subject to the recordkeeping requirements of §§ 74.31, 74.33, 74.43, or 74.59 of this part are exempt from the requirements of paragraphs (a)(1) through (4) of this section. Otherwise:

(1) Each licensee shall keep records showing the receipt, inventory (including location and unique identity), acquisition, transfer, and disposal of all special nuclear material in its possession regardless of its origin or method of acquisition.

(2) Each record relating to material control or material accounting that is required by the regulations in this chapter or by license condition must be maintained and retained for the period specified by the appropriate regulation or license condition. If a retention period is not otherwise specified by regulation or license condition, the licensee shall retain the record until the Commission terminates the license that authorizes the activity that is subject to the recordkeeping requirement.

(3) Each record of receipt, acquisition, or physical inventory of special nuclear material that

must be maintained pursuant to paragraph (a)(1) of this section must be retained as long as the licensee retains possession of the material and for 3 years following transfer or disposal of the material.

(4) Each record of transfer of special nuclear material to other persons must be retained by the licensee who transferred the material until the Commission terminates the license authorizing the licensee's possession of the material.

(b) Each licensee that is authorized to possess special nuclear material in a quantity exceeding one effective kilogram at any one time shall establish, maintain, and follow written material control and accounting procedures that are sufficient to enable the licensee to account for the special nuclear material in its possession under license. The licensee shall retain these procedures until the Commission terminates the license that authorizes possession of the material and retain any superseded portion of the procedures for 3 years after the portion is superseded.

(c) Other than licensees subject to §§ 74.31, 74.33, 74.41, or 74.51, each licensee who is authorized to possess special nuclear material, at any one time and site location, in a quantity greater than 350 grams of contained uranium-235, uranium-233, or plutonium, or any combination thereof, shall conduct a physical inventory of all special nuclear material in its possession under license at intervals not to exceed 12 months. The results of these physical inventories need not be reported to the Commission, but the licensee shall retain the records associated with each physical inventory until the Commission terminates the license that authorized the possession of special nuclear material.

(d) Records that must be maintained pursuant to this part may be the original or a reproduced copy or a microform if the reproduced copy or microform is duly authenticated by authorized personnel and the microform is capable of producing a clear and legible copy after storage for the period specified by Commission regulations. The record may also be stored in

electronic media with the capability for producing legible, accurate, and complete records during the required retention period. Records such as letters, drawings, or specifications must include all pertinent information such as stamps, initials, and signatures. The licensee shall maintain adequate safeguards against tampering with and loss of records.

31. In § 74.31, paragraphs (b) and (c)(4) are revised as follows:

§ 74.31 Nuclear material control and accounting for special nuclear material of low strategic significance.

* * * *

(b) *Implementation:* Each applicant for a license, and each licensee that, upon application for modification of its license, would become newly subject to the performance objectives of paragraph (a) of this section, shall submit a fundamental nuclear material control (FNMC) plan describing how the requirements of paragraph (c) of this section will be met. The FNMC plan shall be implemented when a license is issued or modified to authorize the activities being addressed in paragraph (a) of this section, or by the date specified in a license condition.

(c) ***

(4) In each inventory period, control total material control and accounting measurement uncertainty so that twice its standard error is less than the greater of 9,000 grams of U-235 or 0.25 percent of the active inventory, and assure that any measurement performed under contract is controlled so that the licensee can satisfy this requirement;

* * * *

Subpart D---Special Nuclear Material of Moderate Strategic Significance

32. Sections 74.41, 74.43, and 74.45 are added to Subpart D to read as follows:

§ 74.41 Nuclear material control and accounting for special nuclear material of moderate strategic significance.

(a) *General performance objectives.* Each licensee who is authorized to possess special nuclear material (SNM) of moderate strategic significance or SNM in a quantity exceeding one effective kilogram of strategic special nuclear material in irradiated fuel reprocessing operations other than as sealed sources and to use this material at any site other than a nuclear reactor licensed pursuant to part 50 of this chapter; or as reactor irradiated fuels involved in research, development, and evaluation programs in facilities other than irradiated fuel reprocessing plants; or an operation involved with waste disposal, shall establish, implement, and maintain a Commission-approved material control and accounting (MC&A) system that will achieve the following performance objectives:

- (1) Maintain accurate, current, and reliable information on, and confirm, the quantities and locations of SNM in the licensee's possession;
- (2) Conduct investigations and resolve any anomalies indicating a possible loss of special nuclear material;
- (3) Permit rapid determination of whether an actual loss of a significant quantity of SNM has occurred, with significant quantity being either:
 - (i) More than one formula kilogram of strategic SNM; or
 - (ii) 10,000 grams or more of uranium-235 contained in uranium enriched up to 20.00 percent.
- (4) Generate information to aid in the investigation and recovery of missing SNM in the event of an actual loss.

(b) *Implementation schedule.* Each applicant for a license, and each licensee that, upon application for modification of its license, would become newly subject to the requirements of paragraph (a) of this section shall:

(1) Submit a fundamental nuclear material control (FNMC) plan describing how the performance objectives of § 74.41(a) will be achieved, and how the system capabilities required by § 74.41(c) will be met; and

(2) Implement the NRC-approved FNMC plan submitted pursuant to paragraph (b)(1) of this section upon the Commission's issuance or modification of a license or by the date specified in a license condition.

(c) *System capabilities.* To achieve the performance objectives specified in § 74.41(a), the MC&A system must include the capabilities described in §§ 74.43 and 74.45, and must incorporate checks and balances that are sufficient to detect falsification of data and reports that could conceal diversion of SNM by:

(1) A single individual, including an employee in any position; or
(2) Collusion between two individuals, one or both of whom have authorized access to SNM.

§ 74.43 Internal controls, inventory, and records.

(a) Licensees subject to § 74.41 shall maintain the internal control, inventory, and recordkeeping capabilities required in paragraphs (b), (c), and (d) of this section.

(b) *Internal controls.*
(1) A management structure shall be established, documented, and maintained that assures:

(i) Clear overall responsibility for material control and accounting (MC&A) functions;

(ii) Independence from production and manufacturing responsibilities; and

(iii) Separation of key responsibilities.

(2) The overall planning, coordination, and administration of the MC&A functions for special nuclear material (SNM) shall be vested in a single individual at an organizational level sufficient to assure independence of action and objectiveness of decisions.

(3) The licensee shall provide for the adequate review, approval, and use of written MC&A procedures that are identified in the approved FNMC plan as being critical to the effectiveness of the described system.

(4) The licensee shall assure that personnel who work in key positions where mistakes could degrade the effectiveness of the MC&A system are trained to maintain a high level of safeguards awareness and are qualified to perform their duties and/or responsibilities.

(5) The licensee shall establish, document, and maintain an item control program that:

(i) Provides current knowledge of SNM items with respect to identity, element and isotope content, and stored location; and

(ii) Assures that SNM items are stored and handled, or subsequently measured, in a manner such that unauthorized removal of 200 grams or more of plutonium or uranium-233 or 300 grams or more of uranium-235, as one or more whole items and/or as SNM removed from containers, will be detected.

(6) Exempted from the requirements of paragraph (b)(5) of this section are items that exist for less than 14 calendar days and licensee-identified items each containing less than 200 grams of plutonium or uranium-233 or 300 grams or more of uranium-235 up to a cumulative total of one formula kilogram of strategic SNM or 17 kilograms of uranium-235 contained in uranium enriched to 10.00 percent or more but less than 20.00 percent in the uranium-235 isotope.

(7) Conduct and document shipper-receiver comparisons for all SNM receipts, both on an

individual batch basis and a total shipment basis, and ensure that any shipper-receiver difference that is statistically significant and exceeds twice the estimated standard deviation of the difference estimator and 200 grams of plutonium or uranium-233 or 300 grams of uranium-235 is investigated and resolved; and

(8) Perform independent assessments of the total MC&A system, at intervals not to exceed 18 months, that assess the performance of the system, review its effectiveness, and document management's action on prior assessment recommendations and identified deficiencies. These assessments must include a review and evaluation of any contractor who performs SNM accountability measurements for the licensee.

(c) *Inventory control and physical inventories.* The licensee shall:

(1) Provide unique identification for each item on inventory and maintain inventory records showing the identity, location, and quantity of SNM for these items;

(2) Document all transfers of SNM between designated internal control areas within the licensee's site;

(3) Maintain and follow procedures for tamper-safing of containers or vaults containing SNM, if tamper-safe seals are to be used for assuring the validity of prior measurements, which include control of access to, and distribution of, unused seals and to records showing the date and time of seal application;

(4) Maintain and follow procedures for confirming the validity of prior measurements associated with unencapsulated and unsealed items on ending inventory;

(5) Maintain and follow physical inventory procedures to assure that:

(i) The quantity of SNM associated with each item on ending inventory is a measured value;

(ii) Each item on ending inventory is listed and identified to assure that all items are listed

and no item is listed more than once;

(iii) Cutoff procedures for transfers and processing are established so that all quantities are inventoried and none are inventoried more than once;

(iv) Cutoff procedures for records and reports are established so that only transfers for the inventory and material balance interval are included in the records for the material balance period in question;

(v) Upon completion of the physical inventory, all book and inventory records, for total plant and individual internal control areas, are reconciled with and adjusted to the results of the physical inventory; and

(vi) Measurements will be performed for element and isotope content on all quantities of SNM not previously measured.

(6) Conduct physical inventories according to written instructions for each physical inventory which:

(i) Assign inventory duties and responsibilities;

(ii) Specify the extent to which each internal control area and process is to be shut down, cleaned out, and/or remain static;

(iii) Identify the basis for accepting previously made measurements and their limits of error; and

(iv) Designate measurements to be made for physical inventory purposes and the procedures for making these measurements.

(7) Conduct physical inventories of all possessed SNM for each plant at intervals not to exceed 9 calendar months; and

(8) Within 60 calendar days after the start of each physical inventory required by paragraph (c)(7) of this section:

(i) Calculate, for the material balance period terminated by the physical inventory, the inventory difference (ID) and its associated standard error of inventory difference (SEID) for both element and isotope;

(ii) Reconcile and adjust the book record of quantity of element and isotope content, as appropriate, to the results of the physical inventory; and

(iii) Investigate and report to the Director, Office of Nuclear Material Safety and Safeguards, any occurrence of SEID exceeding 0.125 percent of active inventory, and any occurrence of ID exceeding both three times SEID and 200 grams of plutonium or uranium-233 or 300 grams of uranium-235 contained in high enriched uranium, or 9000 grams of uranium-235 contained in low enriched uranium. The report shall include a statement of the probable reasons for the excessive inventory difference and the corrective actions taken or planned.

(d) *Recordkeeping.* The licensee shall:

(1) Maintain records of the receipt, shipment, disposal, and current inventory associated with all possessed SNM;

(2) Maintain records of the quantities of SNM added to and removed from process;

(3) Maintain records of all shipper-receiver evaluations associated with SNM receipts;

(4) Retain each record pertaining to receipt and disposal of SNM until the Commission terminates the license; and

(5) Establish records that will demonstrate that the performance objectives of § 74.41(a)(1) through (4), the system capabilities of paragraphs (b) and (c) of this section and § 74.45(b) and (c) have been met, and maintain these records in an auditable form, available for inspection, for at least 3 years, unless a longer retention time is specified by § 74.19(b), part 75 of this chapter, or by a specific license condition.

§ 74.45 Measurements and measurement control.

(a) Licensees subject to § 74.41 of this part shall establish and maintain the measurement and measurement control capabilities required by paragraphs (b) and (c) of this section.

(b) *Measurements.* The licensee shall:

(1) Establish, maintain, and use a program for the measurement of all SNM received, produced, transferred between internal control areas, on inventory, or shipped, discarded, or otherwise removed from inventory, except for:

- (i) Sealed sources that have been determined by other means to contain less than 10 grams of uranium-235, uranium-233, or plutonium each;
- (ii) Samples received, transferred between internal control areas, or on inventory that have been determined by other means to contain less than 10 grams of uranium-235, uranium-233, or plutonium each;
- (iii) Receipt of sealed sources, of any quantity, previously manufactured and shipped by the licensee and which are returned to the licensee, provided the unique identity and encapsulation integrity have not been compromised, and the booked receipt quantity equals the previously shipped quantity for the involved sealed sources; and
- (iv) Heterogeneous scrap that cannot be accurately measured in its as received form, provided this scrap is measured after dissolution within 18 months of receipt. The after dissolution measurement must include measurement of both the resulting solution and any undissolved residues, before any co-mingling with other scrap solutions or residues.

(2) Maintain and follow a program for the development and use of written procedures that includes documented review and approval of these procedures, and any revisions thereof, before use, for:

- (i) Preparing or acquiring, maintaining, storing, and using reference standards;

(ii) Calibrating measurement systems, performing bulk mass and volume measurements, conducting nondestructive assay measurements, obtaining samples, and performing laboratory analyses for element concentration and isotope abundance; and

(iii) Recording, reviewing, and reporting measurements.

(c) *Measurement control.* To maintain measurement quality and to estimate measurement uncertainty values, the licensee shall:

(1) Assign responsibility for planning, developing, coordinating, and administering a measurement control program to an individual who has no direct responsibility for performing measurements or for SNM processing or handling, and who holds a position at an organizational level which permits independence of action and has adequate authority to obtain all the information required to monitor and evaluate measurement quality as required by this section.

(2) Ensure that any contractor who performs MC&A measurements services conforms with applicable requirements in paragraphs (c)(5), (6), (7), (10) and (11) of this section. Conformance must include reporting by the contractor of sufficient measurement control data to allow the licensee to calculate bias corrections and measurement limits of error.

(3) Ensure that potential sources of sampling error are identified and that samples are representative by performing process sampling tests using well characterized materials to establish or verify the applicability of utilized procedures for sampling SNM and for maintaining sample integrity during transport and storage. These sampling tests or sample integrity tests, as appropriate, shall be conducted whenever:

(i) A new sampling procedure or technique is used, or new sampling equipment is installed;

(ii) A sampling procedure, technique, or sampling equipment is modified to the extent that a systematic sampling error could be introduced; and

(iii) Sample containers, sample transport methods, or sample storage conditions are

changed or modified to the extent that a systematic sampling error could be introduced.

(4) Establish and maintain a measurement control program so that for each inventory period the SEID is less than 0.125 percent of the active inventory, and assure that any MC&A measurements performed under contract are controlled so that the licensee can satisfy this requirement.

(5) Generate current data on the performance of each measurement system used during each material balance period for the establishment of measured values and estimated measurement uncertainties, including estimates of bias, variance components for calibration, sampling, and repeat measurements. The program data must reflect the current process and measurement conditions existing at the time the control measurements are made.

(6) Use standards on an ongoing basis for the calibration and control of all measurement systems used for SNM accountability. Calibrations shall be repeated whenever any significant change occurs in a measurement system or when program data indicate a need for recalibration. Calibrations and control standard measurements shall be based on standards whose assigned values are traceable to certified reference standards or certified standard reference materials. Additionally, control standards shall be representative of the process material or items being measured by the measurement system in question.

(7) Conduct control measurements to provide current data for the determination of random error behavior. On a predetermined schedule, the program shall include, as appropriate:

- (i) Replicate analyses of individual samples;
- (ii) Analysis of replicate process samples;
- (iii) Replicate volume measurements of bulk process batches;
- (iv) Replicate weight measurements of process items and bulk batches, or alternatively, the use of data generated from the replicate weighings of control standard weights as derived from the

control standard program; and

(v) Replicate NDA measurements of individual process containers (items), or alternatively, the use of data generated from the replicate measurements of NDA control standards as derived from the control standard program.

(8) Use all measurements and measurement controls generated during the current material balance period for the estimation of the SEID.

(9) Evaluate with appropriate statistical methods all measurement system data generated in paragraph (c)(5) of this section to determine significant contributors to the measurement uncertainties associated with inventory differences and shipper-receiver differences, so that if SEID exceeds the limits established in paragraph (c)(4) of this section, the cause of the excessive SEID can be identified for corrective action with respect to controlling the standard error within applicable limits.

(10) Establish and maintain a statistical control system, including control charts and formal statistical procedures, designed to monitor the quality of each measurement device or system. Control chart limits must be established to be equivalent to levels of significance of 0.05 and 0.001.

(11) Promptly investigate and take any appropriate corrective action whenever a control datum exceeds an 0.05 control limit, and whenever a control datum exceeds an 0.001 control limit, the measurement system that generated the datum shall immediately be placed out-of-service with respect to MC&A measurements until the deficiency has been corrected and the system brought into control within the 0.05 control limits.

33. In § 74.51, paragraphs (c) and (d) are revised to read as follows:

§ 74.51 Nuclear material control and accounting for strategic special nuclear material.

* * * *

(c) Implementation dates. Each applicant for a license, and each licensee that, upon application for modification of a license, would become newly subject to paragraph (a) of this section, shall submit a fundamental nuclear material control (FNMC) plan describing how the MC&A system shall satisfy the requirement of paragraph (b) of this section. The FNMC plan shall be implemented when a license is issued or modified to authorize the activities being addressed in paragraph (a) of this section, or by the date specified in a license condition.

(d) Notwithstanding § 74.59(f)(1), licensees shall perform at least three bimonthly physical inventories after implementation of the NRC approved FNMC Plan and shall continue to perform bimonthly inventories until performance acceptable to the NRC has been demonstrated and the Commission has issued formal approval to perform semiannual inventories. Licensees who have prior experience with process monitoring and/or can demonstrate acceptable performance against all Plan commitments may request authorization to perform semiannual inventories at an earlier date.

34. In § 74.57, the introductory text of paragraph (c) and paragraph (f)(2) are revised to read as follows:

§74.57 Alarm resolution.

* * * *

(c) Each licensee shall notify the NRC Operations Center by telephone of any MC&A alarm that remains unresolved beyond the time period specified for its resolution in the licensee's fundamental nuclear material control plan. Notification must occur within 24 hours except when a

holiday or weekend intervenes in which case the notification must occur on the next scheduled workday. The licensee may consider an alarm to be resolved if:

* * * *

(f) ***

(2) Within 24 hours, the licensee shall notify the NRC Operations Center by telephone that an MC&A alarm resolution procedure has been initiated.

35. In § 74.59, paragraphs (d)(1),(f)(1)(i) and (iii), and (h)(2)(ii) are revised to read as follows:

§ 74.59 Quality assurance and accounting requirements.

* * * *

(d) ***

(1) Substantiate the plutonium element and uranium element and isotope content of all SSNM received, produced, transferred between areas of custodial responsibility, on inventory, or shipped, discarded, or otherwise removed from inventory;

* * * *

(f) ***

(1) ***

(i) Calculate the inventory difference (ID); estimate the standard error of the inventory difference (SEID); and investigate and report any SEID estimate of 0.1 percent or more of active inventory, and any ID that exceeds both three times SEID and 200 grams of plutonium or uranium-233, or 300 grams of uranium-235 contained in high enriched uranium.

* * * *

(iii) Investigate and report to the Director, Office of Nuclear Material Safety and Safeguards, any difference that exceeds three times the standard deviation determined from the sequential analysis;

* * * *

(h) ***

(2) ***

(ii) Any scrap measured with a standard deviation greater than five percent of the measured amount is recovered so that the results are segregated by inventory period and recovered within six months of the end of the inventory period in which the scrap was generated except where it can be demonstrated that the scrap measurement uncertainty will not cause noncompliance with § 74.59(e)(5).

* * * *

PART 75 - SAFEGUARDS ON NUCLEAR MATERIAL - IMPLEMENTATION OF US/IAEA AGREEMENT

36. The authority citation for Part 75 continues to read as follows:

AUTHORITY: Secs. 53, 63, 103, 104, 122, 161, 68 Stat. 930, 932, 936, 937, 939, 948, as amended (42 U.S.C. 2073, 2093, 2133, 2134, 2152, 2201); sec. 201, 88 Stat. 1242, as amended (42 U.S.C. 5841).

Section 75.4 also issued under secs. 135, 141, Pub. L. 97 - 425, 96 Stat. 2232, 2241 (42 U.S.C. 10155, 10161).

37. In § 75.21, paragraph (c)(2) is revised to read as follows:

§ 75.21 General requirements.

* * * *

(c) ***

(2) Until installation information has been submitted by the licensee, the procedures shall be sufficient to document changes in the quantity of nuclear material in or at its installation. Observance of the procedures described in §§ 40.61 or 74.15 of this chapter (or the corresponding provisions of the regulations of an Agreement State) by any licensee subject thereto shall constitute compliance with this paragraph.

* * * *

PART 76 - CERTIFICATION OF GASEOUS DIFFUSION PLANTS

38. The authority citation for Part 76 continues to read as follows:

AUTHORITY: Secs. 161, 68 Stat. 948, as amended, secs. 1312, 1701, as amended, 106 Stat. 2932, 2951, 2952, 2953, 110 Stat. 1321-349 (42 U.S.C. 2201, 2297b-11, 2297f); secs. 201, as amended, 204, 206, 88 Stat. 1244, 1245, 1246 (42 U.S.C. 5841, 5842, 5845, 5846). Sec. 234(a), 83 Stat. 444, as amended by Pub. L. 104-134, 110 Stat. 1321, 1321-349 (42 U.S.C. 2243(a)).

Sec. 76.7 also issued under Pub. L. 95-601, sec. 10, 92 Stat. 2951 (42 U.S.C. 5851). Sec.

76.22 is also issued under sec. 193(f), as amended, 104 Stat. 2835, as amended by Pub. L. 104-134, 110 Stat. 1321, 1321-349 (42 U.S.C. 2243(f)). Sec. 76.35(j) also issued under sec. 122, 68 Stat. 939 (42 U.S.C. 2152).

39. In § 76.113, paragraph (a) is revised to read as follows:

§ 76.113 Formula quantities of strategic special nuclear material - Category I.

(a) The requirements for material control and accounting for formula quantities of strategic special nuclear material (Category I) are contained in §§ 74.11, 74.13, 74.15, 74.17, 74.19, 74.51, 74.53, 74.55, 74.57, 74.59, 74.81, and 74.82 of this chapter.

* * * *

40. In § 76.115, paragraph (a) is revised to read as follows:

§ 76.115 Special nuclear material of moderate strategic significance - Category II.

(a) The requirements for material control and accounting for special nuclear material of moderate strategic significance (Category II) are contained in §§ 74.11, 74.13, 74.15, 74.17, 74.19, 74.41, 74.43, 74.45, 74.81, and 74.82 of this chapter.

* * * *

41. In § 76.117, paragraph (a) is revised to read as follows:

§ 76.117 Special nuclear material of low strategic significance - Category III.

(a) The requirements for material control and accounting for special nuclear material of low

strategic significance (Category III) are contained in §§ 74.11, 74.13, 74.15, 74.17, 74.19, 74.33, 74.81, and 74.82 of this chapter. However, inventories of uranium outside of the enrichment processing equipment conducted at least every 370 days are deemed to satisfy the requirements of § 74.19(c).

* * * *

PART 150 - EXEMPTIONS AND CONTINUED REGULATORY AUTHORITY IN AGREEMENT STATES AND IN OFFSHORE WATERS UNDER SECTION 274

42. The authority citation for Part 150 continues to read as follows:

AUTHORITY: Sec. 161, 68 Stat. 948, as amended, sec. 274, 73 Stat. 688 (42 U.S.C. 2201, 2021); sec. 201, 88 Stat. 1242, as amended (42 U.S.C. 5841).

Sections 150.3, 150.15, 150.15a, 150.31, 150.32 also issued under secs. 11e(2), 81, 68 Stat. 923, 935, as amended, secs. 83, 84, 92 Stat. 3033, 3039 (42 U.S.C. 2014e(2), 2111, 2113, 2114). Section 150.14 also issued under sec. 53, 68 Stat. 930, as amended (42 U.S.C. 2073). Section 150.15 also issued under secs. 135, 141, Pub. L. 97 - 425, 96 Stat. 2232, 2241 (42 U.S.C. 10155, 10161). Section 150.17a also issued under sec. 122, 68 Stat. 939 (42 U.S.C. 2152). Section 150.30 also issued under sec. 234, 83 Stat. 444 (42 U.S.C. 2282).

43. In § 150.20, the introductory text of paragraph (b) is revised to read as follows:

§ 150.20 Recognition of Agreement State licenses.

* * * *

(b) Notwithstanding any provision to the contrary in any specific license issued by an Agreement State to a person engaging in activities in a non-Agreement State, in an area of exclusive Federal jurisdiction within an Agreement State, or in offshore waters under the general licenses provided in this section, the general licenses provided in this section are subject to all the provisions of the Act, now or hereafter in effect, and to all applicable rules, regulations, and orders of the Commission including the provisions of §§ 30.7 (a) through (f), 30.9, 30.10, 30.14(d), 30.34, 30.41, and 30.51 to 30.63, inclusive, of part 30 of this chapter; §§ 40.7 (a) through (f), 40.9, 40.10, 40.41, 40.51, 40.61, 40.63 inclusive, 40.71 and 40.81 of part 40 of this chapter; §§ 70.7 (a) through (f), 70.9, 70.10, 70.32, 70.42, 70.52, 70.55, 70.56, 70.60 to 70.62 of part 70 of this chapter; §§ 74.11, 74.15, and 74.19 of part 74 of this chapter; and to the provisions of 10 CFR parts 19, 20 and 71 and subparts C through H of part 34, §§ 39.15 and 39.31 through 39.77, inclusive, of part 39 of this chapter. In addition, any person engaging in

activities in non-Agreement States, in areas of exclusive Federal jurisdiction within Agreement States, or in offshore waters under the general licenses provided in this section:

* * * *

Dated at Rockville, Maryland, this _____ day of _____, 2002.

For the Nuclear Regulatory Commission.

Annette Vietti-Cook,
Secretary of the Commission.

**ENVIRONMENTAL ASSESSMENT AND FINDING OF
NO SIGNIFICANT IMPACT
FOR THE
FINAL RULE**
AMENDING 10 CFR PARTS 51, 61, 70, 72, 73, 74, 75, 76, and 150
Material Control and Accounting Amendments

Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
March 2002

I. THE PROPOSED ACTION

The proposed action is to amend the material control and accounting (MC&A) regulations.

The MC&A requirements for facilities possessing special nuclear material (SNM) of moderate strategic significance (also called Category II facilities) are being revised to be risk informed.

II. THE NEED FOR THE PROPOSED ACTION

In 1982, NRC staff initiated an effort to move the MC&A requirements from Part 70 to Part 74 and to make the requirements more risk informed and performance oriented. In 1985, the MC&A requirements for Category III facilities were made more performance oriented and moved to Part 74. The requirements for Category I facilities were made more performance oriented and moved in 1987. The MC&A requirements for Category II facilities and the general MC&A requirements are still interspersed among the safety and general licensing requirements of Part 70. In addition, the requirements for Category II facilities still contain some overly prescriptive requirements. The rule represents the final stage and would result in the movement of the remaining general and Category II MC&A requirements and in making the Category II requirements risk informed.

III. ENVIRONMENTAL IMPACTS OF PROPOSED ACTION

The amendments to make the MC&A requirements for Category II facilities more risk informed should not have any measurable or identifiable impact on the environment. The basic requirements remain unchanged. The rule will not result in changes in a licensee's processes or manufacturing procedures and, therefore, will not affect or alter any release of effluents to the environment. There could be some occupational radiation exposure resulting from safeguards related activities such as data recording, inspection support, sample taking, and laboratory support. All of these activities are normal and are currently required and are expected to be a tiny fraction of those required for overall plant operations. The safeguards activities that take place are procedural in nature and are a minor fraction of overall plant operation. The amendments will not involve any significant environmental impact.

IV. ENVIRONMENTAL JUSTICE

The NRC has committed to complying with Executive Order 12898 - Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, dated February 11, 1994, in all its actions. The NRC uses the following working definition of "environmental justice": the fair treatment and meaningful involvement of all people, regardless of race, ethnicity, culture, income, or educational level with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. No significant environmental impacts have been identified, and the NRC has determined that there are no disproportionate, high, and adverse impacts on minority and low-income populations. Consequently, further evaluation of environmental justice concerns, as outlined in Executive Order 12898, is not warranted.

V. ALTERNATIVES TO THE PROPOSED ACTION

This proposed action will provide a risk-informed regulatory base for the MC&A requirements for a Category II facility. The alternative to this proposed action is to take no action. This would leave in place the more prescriptive requirements and not provide potential licensees with the flexibility to operate its MC&A program in the more efficient and less burdensome manner. This alternative was rejected because it would not provide the benefits to the licensee of a more flexible program.

VI. ALTERNATIVE USE OF RESOURCES

There are no irreversible commitments of resources determined in this assessment.

VII. AGENCIES AND PERSONS CONTACTED

No agencies or persons outside the NRC were contacted in connection with the preparation of this environmental assessment. The NRC requested the views of the States on the environmental assessment for this rule. The NRC did not receive any comments from the States.

VIII. FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined under the National Environmental Policy Act of 1969, as amended, and the Commission's regulations in Subpart A of 10 CFR Part 51, that the proposed

amendments are not a major Federal action significantly affecting the quality of the human environment, and therefore, an environmental impact statement is not required. The proposed amendments would establish risk-informed MC&A requirements for Category II facilities. The proposed amendments are procedural in nature, and of themselves would have no significant impact on the environment.

The determination of this environmental assessment is that there will be no significant impact to the public from this action. However, the general public should note that the NRC welcomes public participation. The NRC has also committed to complying with Executive Order 12898 - Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, dated February 11, 1994, in all its actions. Therefore, the NRC has also determined that there are no disproportionate, high, and adverse impacts on minority and low-income populations. The NRC requested public comments on any environmental justice considerations that may be related to this rule. The NRC did not receive any comments on the environmental assessment.



Submission of Federal Rules Under the Congressional Review Act

President of the Senate

Speaker of the House of Representatives

GAO

Please fill the circles electronically or with black pen or #2 pencil.

1. Name of Department or Agency

U.S. Nuclear Regulatory Commission

2. Subdivision or Office

Nuclear Material Safety and Safeguards

3. Rule Title

Material Control and Accounting Amendments

4. Regulation Identifier Number (RIN) or Other Unique Identifier (if applicable)

RIN 3150-AG-69

5. Major Rule Non-major Rule

6. Final Rule Other

7. With respect to this rule, did your agency solicit public comments?

Yes No N/A

8. Priority of Regulation (fill in one)

Economically Significant; or
Significant; or
Substantive, Non Significant

Routine and Frequent or
Informational/Administrative/Other
(Do not complete the other side of this form
if filled in above.)

9. Effective Date (if applicable)

10. Concise Summary of Rule (fill in one or both) attached stated in rule

Submitted by: _____ (signature)

Name: **Dennis K. Rathbun**

Title: **Director, Office of Congressional Affairs**

For Congressional Use Only:

Date Received: _____

Committee of Jurisdiction: _____

Yes	No	N/A
-----	----	-----

- | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|
| A. With respect to this rule, did your agency prepare an analysis of costs and benefits? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| B. With respect to this rule, by the final rulemaking stage, did your agency | | | |
| 1. certify that the rule would not have a significant economic impact on a substantial number of small entities under 5 U.S.C. § 605(b)? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2. prepare a final Regulatory Flexibility Analysis under 5 U.S.C. § 604(a)? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| C. With respect to this rule, did your agency prepare a written statement under § 202 of the Unfunded Mandates Reform Act of 1995? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| D. With respect to this rule, did your agency prepare an Environmental Assessment or an Environmental Impact Statement under the National Environmental Policy Actg (NEPA)? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| E. Does this rule contain a collection of information requiring OMB approval under the Paperwork Reduction Act of 1995? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| F. Did you discuss any of the following in the preamble to the rule? | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| ● E.O. 12612, Federalism | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ● E.O. 126630, Government Actions and Interference with Constitutionally Protected Property Rights | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ● E.O. 12866, Regulatory Planning and Review | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ● E.O. 12875, Enhancing the Intergovernmental Partnership | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ● E.O. 12988, Civil Justice Reform | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ● E.O. 13045, Protection of Children from Environmental Health Risks and Safety Risks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ● Other statutes or executive orders discussed in the preamble concerning the rulemaking process (please specify) | <hr/> <hr/> <hr/> | | |



Submission of Federal Rules Under the Congressional Review Act

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8. Priority of Regulation (fill in one)

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Significant; or
Substantive, Non Significant

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(Do not complete the other side of this form
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9. Effective Date (if applicable)

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Submitted by: _____ (signature)

Name: **Dennis K. Rathbun**

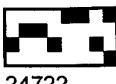
Title: **Director, Office of Congressional Affairs**

For Congressional Use Only:

Date Received: _____

Committee of Jurisdiction: _____

	Yes	No	N/A
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B. With respect to this rule, by the final rulemaking stage, did your agency			
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E. Does this rule contain a collection of information requiring OMB approval under the Paperwork Reduction Act of 1995?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. Did you discuss any of the following in the preamble to the rule?			
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● E.O. 126630, Government Actions and Interference with Constitutionally Protected Property Rights	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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● E.O. 12875, Enhancing the Intergovernmental Partnership	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
● E.O. 12988, Civil Justice Reform	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
● E.O. 13045, Protection of Children from Environmental Health Risks and Safety Risks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
● Other statutes or executive orders discussed in the preamble concerning the rulemaking process (please specify)			



24722

Submission of Federal Rules Under the Congressional Review Act

 President of the Senate Speaker of the House of Representatives GAO

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U.S. Nuclear Regulatory Commission

2. Subdivision or Office

Nuclear Material Safety and Safeguards

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