

informational impacts of this action on small businesses.

This proposed rule would impose no additional reporting or recordkeeping requirements on either small or large California dried prune handlers. As with all Federal marketing order programs, reports and forms are periodically reviewed to reduce information requirements and duplication by industry and public sector agencies.

The AMS is committed to complying with the E-Government Act, to promote the use of the Internet and other information technologies to provide increased opportunities for citizen access to Government information and services, and for other purposes.

USDA has not identified any relevant Federal rules that duplicate, overlap, or conflict with this rule.

A small business guide on complying with fruit, vegetable, and specialty crop marketing agreements and orders may be viewed at: <http://www.ams.usda.gov/fv/moab/html>. Any questions about the compliance guide should be sent to Jay Guerber at the previously mentioned address in the **FOR FURTHER INFORMATION CONTACT** section.

A 30-day comment period is provided to allow interested persons to respond to this proposed rule. Thirty days is deemed appropriate because: (1) The 2006–07 crop year began on August 1, 2006, and the marketing order requires that the rate of assessment for each crop year apply to all assessable prunes handled during such crop year; (2) the assessment rate is considerably lower than that which is currently in effect; and (3) handlers are aware of this action, which was unanimously recommended by the committee at a public meeting.

#### List of Subjects in 7 CFR Part 993

Marketing agreements, Plums, Prunes, Reporting and Recordkeeping requirements.

For the reasons set forth in the preamble, 7 CFR part 993 is proposed to be amended as follows:

#### **PART 993—DRIED PRUNES PRODUCED IN CALIFORNIA**

1. The authority citation for 7 CFR part 993 continues to read as follows:

**Authority:** 7 U.S.C. 601–674.

2. Section 993.347 is revised to read as follows:

##### **§ 993.347 Assessment rate.**

On and after August 1, 2006, an assessment rate of \$0.40 per ton of salable dried prunes is established for California dried prunes.

Dated: September 15, 2006.

**Lloyd C. Day,**

*Administrator, Agricultural Marketing Service.*

[FR Doc. 06–7867 Filed 9–21–06; 8:45 am]

**BILLING CODE 3410–02–P**

#### **NUCLEAR REGULATORY COMMISSION**

##### **10 CFR Parts 19, 20, and 50**

**RIN 3150–AH40**

#### **Occupational Dose Records, Labeling Containers, and the Total Effective Dose Equivalent**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Proposed rule.

**SUMMARY:** The Nuclear Regulatory Commission (NRC or Commission) is proposing to amend its regulations related to the reporting of annual dose to workers, the definition of the total effective dose equivalent (TEDE), the labeling of certain containers holding licensed material, and the determination of cumulative occupational radiation dose. The proposed rule would limit the routine reporting of annual doses to workers to those whose annual dose exceeds a specific dose threshold or who request a report. The proposed rule would also amend the definition of TEDE to be consistent with current Commission policy. The proposed rule would also modify the labeling requirements for certain containers holding licensed material within posted areas in nuclear power facilities. Finally, the proposed rule would remove the requirement that licensees attempt to obtain cumulative exposure records for workers unless these individuals are being authorized to receive a planned special exposure. These revisions would reduce the administrative and information collection burdens on NRC and Agreement State licensees without affecting the level of protection to either the health and safety of workers and the public or the environment.

**DATES:** Submit comments on this proposed rule by December 6, 2006. Submit comments on the information collection aspects of this proposed rule by October 23, 2006. Comments received after the above dates will be considered if it is practical to do so, but assurance of consideration cannot be given to comments received after these dates.

**ADDRESSES:** You may submit comments by any of the following methods. Please

include the following number RIN 3150–AH40 in the subject line of your comments. Comments on rulemakings submitted in writing or in electronic form will be made available for public inspection. Because your comments will not be edited to remove any identifying or contact information, the NRC cautions you against including personal information such as social security numbers and birth dates in your submission.

*Mail comments to:* Secretary, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001, ATTN: Rulemakings and Adjudications Staff.

*E-mail comments to:* [SECY@nrc.gov](mailto:SECY@nrc.gov). If you do not receive a reply e-mail confirming that we have received your comments, contact us directly at (301) 415–1966. You may also submit comments via the NRC's rulemaking Web site at <http://ruleforum.llnl.gov>. Address questions about our rulemaking Web site to Carol Gallagher (301) 415–5905; e-mail [cag@nrc.gov](mailto:cag@nrc.gov). Comments can also be submitted via the Federal eRulemaking Portal <http://www.regulations.gov>.

*Hand deliver comments to:* 11555 Rockville Pike, Rockville, Maryland 20852, between 7:30 a.m. and 4:15 p.m. Federal workdays. (Telephone (301) 415–1966).

*Fax comments to:* Secretary, U.S. Nuclear Regulatory Commission at (301) 415–1101.

Publicly available documents related to this rulemaking may be viewed electronically on the public computers located at the NRC's Public Document Room (PDR), O1 F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The PDR reproduction contractor will copy documents for a fee. Selected documents, including comments, may be viewed and downloaded electronically via the NRC rulemaking Web site at <http://ruleforum.llnl.gov>.

Publicly available documents created or received at the NRC after November 1, 1999, are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. From this site, the public can gain entry into the NRC's Agencywide Document Access and Management System (ADAMS), which provides text and image files of NRC's public documents. If you do not have access to ADAMS, contact the NRC Public Document Room (PDR) Reference staff at 1–800–397–4209, 301–415–4737 or by e-mail to [pdr@nrc.gov](mailto:pdr@nrc.gov).

You may submit comments on the information collections by the methods indicated in the Paperwork Reduction Act Statement.

**FOR FURTHER INFORMATION CONTACT:**

Stewart Schneider, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone (301) 415-4123; e-mail [sxs4@nrc.gov](mailto:sxs4@nrc.gov).

**SUPPLEMENTARY INFORMATION:**

- I. Background
- II. Discussion
- III. Public Comments in Response to the Federal Register Notice
- IV. Agreement State Comments on the Draft Rule Language
- V. Section-by-Section Analysis of Substantive Changes
- VI. Agreement State Compatibility
- VII. Availability of Documents
- VIII. Plain Language
- IX. Voluntary Consensus Standards
- X. Environmental Impact: Categorical Exclusion
- XI. Paperwork Reduction Act Statement
- XII. Regulatory Analysis
- XIII. Regulatory Flexibility Certification
- XIV. Backfit Analysis

**I. Background**

The NRC Strategic Plan, Fiscal Year 2000–Fiscal Year 2005, included, among NRC performance goals for nuclear reactor safety, a performance goal for reducing unnecessary regulatory burden on stakeholders. The Strategic Plan defines unnecessary regulatory burden as requirements that go beyond what is necessary and sufficient to provide reasonable assurance that the public health and safety, environment, and common defense and security will be protected.

To further this goal, the NRC published a notice of a public workshop and a request for comments in the *Federal Register* (66 FR 22134; May 3, 2001). The notice indicated that the workshop would focus on three areas associated with reducing unnecessary regulatory burden: (1) Risk informing portions of 10 CFR Part 50, (2) reforming outdated or paperwork oriented regulations, and (3) reviewing other regulatory requirements (*e.g.*, technical specifications) for burden reduction opportunities.

Following the May 31, 2001, public workshop, the Nuclear Energy Institute (NEI) provided a comment letter dated July 2, 2001 (ADAMS No. ML011870432), which contained industry suggestions for possible burden-reduction changes to various regulations. Under the category Radiation Protection, NEI proposed changes to 10 CFR 19.13, “Notifications and reports to individuals,” 10 CFR 20.1904, “Labeling containers,” and 10 CFR 20.2104, “Determination of prior occupational dose.”

In SECY-02-0081, “Staff Activities Related to the NRC Goal of Reducing

Unnecessary Regulatory Burden on Power Reactor Licensees,” dated May 13, 2002, the NRC staff described its interactions with stakeholders regarding ways to reduce unnecessary regulatory burden and requested Commission approval of its plans to reduce burden. In its Staff Requirements Memorandum (SRM) in response to SECY-02-0081, dated June 25, 2002, the Commission approved the proposal to reduce unnecessary regulatory burden on power reactor licensees by developing proposed rulemakings from short-term, limited-scope initiatives without preparing formal rulemaking plans.

This proposed rule addresses the regulatory changes that NEI suggested under the Radiation Protection category. The NRC has determined that the regulations suggested for revision by NEI currently impose an undue regulatory burden on licensees. Additional changes NEI proposed to other areas of the Commission’s regulations have been or are being assessed separately by the NRC.

The NRC also proposes in this proposed rule to revise 10 CFR 20.1003, “Definitions,” and 10 CFR 50.2, “Definitions,” to specify the use of effective dose equivalent in place of the deep-dose equivalent in the definition of total effective dose equivalent (TEDE) in 10 CFR Parts 20 and 50. This revision is consistent with current Commission policy.

As part of the development of this rule, the NRC prepared draft rule language. The NRC solicited comments from the Agreement States and Minnesota and Pennsylvania (two Agreement State candidates) on the draft rule language in All Agreement States Letter STP-04-002, dated January 9, 2004. The NRC also solicited public comment on the draft rule language (69 FR 8350; February 24, 2004). The NRC considered the comments received during the development of this proposed rule.

**II. Discussion**

Four principal amendments are being considered as part of this proposed rule.

**A. Annual Dose Report to Workers**

The first proposed amendment would revise paragraphs (b) and (d) of 10 CFR 19.13, “Notifications and reports to individuals,” and 10 CFR 20.2205, “Reports to individuals of exceeding dose limits.” The proposed revisions are intended to resolve two separate issues.

10 CFR 19.13(b) provides that each licensee shall advise each worker annually of the worker’s dose as shown in records maintained by the licensee pursuant to the provisions of 10 CFR

20.2106. 10 CFR 20.2106(a) requires that each licensee must maintain records of doses received by all individuals for whom monitoring was required pursuant to 10 CFR 20.1502.

10 CFR 20.1502, “Conditions requiring individual monitoring of external and internal occupational dose,” paragraph (a)(1), requires licensees to provide monitoring for individuals likely to receive, from sources external to the body, an annual dose that exceeds ten percent of the limits in 10 CFR 20.1201(a). Licensees conservatively determine who should be monitored under 10 CFR 20.1502 because there is uncertainty about who is likely to exceed this criterion and because this is a prospective determination. As a result of this conservatism many of the individuals monitored under 10 CFR 20.1502 receive very low doses. However, 10 CFR 20.2206, “Reports of individual monitoring,” requires licensees to submit an annual report to the Commission of the results of individual monitoring for each individual for whom monitoring was required under 10 CFR 20.1502. In addition, under 10 CFR 19.13(d) and 20.2205, these records of low doses must be reported to individuals. Further, 10 CFR 19.13(b) requires licensees to annually report doses to workers. This regulatory requirement results in licensees generating numerous reports of doses far below the regulatory limits in 10 CFR 20.1201(a).

The NRC is proposing a change to the notification requirement in 10 CFR 19.13(b) so that licensees would provide reports to occupationally exposed individuals whose annual dose exceeds 1 millisievert (mSv) (100 millirem (mrem)) TEDE or 1 mSv (100 mrem) to any individual organ or tissue in the preceding year. However, licensees would not be required to provide unsolicited annual dose reports to those individuals whose annual dose does not exceed these limits. Individuals whose annual dose does not exceed these limits would still be provided with their dose reports upon request. This criterion would be applicable to the whole body, to the lens of the eye, to the skin of the whole body, and to the skin of the extremities. The criterion of 1 mSv (100 mrem) was selected because it corresponds to the occupational dose threshold for requiring instruction to workers under 10 CFR 19.12, “Instruction to workers.”

In the draft rule language previously published by the NRC (69 FR 8350; February 24, 2004), the proposed threshold for reporting doses to individuals was two percent of the dose

limits in 10 CFR 20.1201(a). Use of a two-percent criterion would result in a different reporting threshold for doses to the whole body (*i.e.*, 1 mSv (100 mrem)), to the lens of the eye (*i.e.*, 3 mSv (300 mrem)), and to the skin of the whole body or to the skin of any extremity (*i.e.*, 10 mSv (1000 rem)). The NRC determined that it is preferable to use the requirement for instructions to workers in 10 CFR 19.12 as the basis for the reporting threshold. Because licensees are required to provide instructions when an individual is likely to receive an annual occupational dose in excess of 1 mSv (100 mrem), only one threshold for providing reports would apply to all of the occupational dose limits in 10 CFR 20.1201(a). This approach is simpler because there is one reporting threshold instead of three and results in the same reduction in burden.

Under 10 CFR 20.2206, seven categories of licensees are required to submit an annual report of radiation exposure for each monitored individual to the NRC. Each year, the NRC publishes a NUREG report that summarizes this occupational radiation exposure data. The latest publication, NUREG-0713, Volume 26, "Occupational Radiation Exposure at Commercial Nuclear Power Reactors and Other Facilities 2004" (December 2005), indicates that about 80 percent (*i.e.*, 94,534 individuals) of the 122,322 monitored individuals received a TEDE that did not exceed 1 mSv (100 mrem). Further, 61,725 of the monitored individuals received no measurable exposure.

Based upon this information, the proposed change to the regulations would result in a significant reduction in administrative and reporting burdens on licensees. The proposed amendment would not change the current requirements for recordkeeping or for reporting to the NRC. The proposed rule would still require licensees to make all dose information available to workers. Therefore, the proposed amendment would not affect the level of protection to either the health and safety of workers and the public or the environment.

The requirement to inform individuals of their routine annual doses, when determined through the results of individual monitoring and when such a report is provided to the Commission, appears multiple times in the regulations. The requirement appears in 10 CFR 19.13(d) through the reference to 10 CFR 20.2206. It also appears in 10 CFR 20.2205 through the reference to 10 CFR 20.2206. To improve regulatory efficiency, the proposed rule would remove the

reference to 10 CFR 20.2206 in 10 CFR 19.13(d) and 10 CFR 20.2205, and the requirement to report annual dose to the individual would be consolidated into a single requirement in 10 CFR 19.13(b).

NRC Form 3, "Notice to Employees," will also need to be revised to reflect the changes to the requirements for reporting doses to individuals if this rule is promulgated.

#### *B. Definition of Total Effective Dose Equivalent (TEDE)*

The second proposed amendment would revise the definition of TEDE in 10 CFR 20.1003, "Definitions," and 50.2, "Definitions." The TEDE is currently defined as the sum of the deep-dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures). The proposed change would allow licensees to substitute "effective dose equivalent" for "deep-dose equivalent" for external exposures.

The purpose of this revision is to clarify and make the definition of TEDE consistent with Commission policy as discussed in Regulatory Issue Summary (RIS) 2002-06, "Evaluating Occupational Dose for Individuals Exposed to NRC-Licensed Material and Medical X-Rays," dated April 16, 2002, and subsequently clarified in RIS 2003-04, "Use of the Effective Dose Equivalent in Place of the Deep Dose Equivalent in Dose Assessments," dated February 13, 2003, and RIS 2004-01, "Method for Estimating Effective Dose Equivalent From External Radiation Sources Using Two Dosimeters," dated February 17, 2004. This policy explains that the effective dose equivalent is the primary quantity in the definition of TEDE for external exposures but that licensees are required to use the deep-dose equivalent for the whole body in place of the effective dose equivalent when measuring dose from external exposure, unless the effective dose equivalent is determined by a dosimetry method approved by the NRC.

In 10 CFR 20.1201, paragraph (c) would also be revised to add the requirement that when the external exposure is determined by measurement with an external personal monitoring device, the deep-dose equivalent must be used in place of the effective dose equivalent, unless the effective dose equivalent is determined by a dosimetry method approved by the NRC. The current requirement in paragraph (c) that the assigned deep-dose equivalent must be for the part of the body receiving the highest exposure remains unchanged.

The proposed amendment would not affect the level of protection to either

the health and safety of workers and the public or the environment because the revised definition of TEDE does not decrease the ability to determine dose.

#### *C. Labeling Containers*

The third proposed amendment would revise 10 CFR 20.1905, "Exemptions to labeling requirements." 10 CFR 20.1905 currently provides exemptions to the labeling requirements in 10 CFR 20.1904 for situations where: (1) The amount of radioactive material is small enough not to present a significant radiation hazard; (2) packages which are in transport and are labeled pursuant to other regulations (*i.e.*, U.S. Department of Transportation) that provide for adequate labeling; or (3) equipment for which the type of equipment or the accessibility of the equipment may make labeling impractical.

The NRC is proposing to amend 10 CFR 20.1905 to add an exemption for containers holding licensed material (other than sealed sources that are either specifically or generally licensed) within nuclear power facilities licensed under 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," or 10 CFR Part 52, "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants," providing certain conditions are met. Licensees of these facilities would not be required to label containers holding licensed material that are within an area posted under 10 CFR 20.1902, "Posting requirements," if the containers are conspicuously marked (to indicate that they may contain licensed material) commensurate with the radiological hazard and are accessible only to individuals who have sufficient instructions to minimize radiation exposure while handling or working in the vicinity of the containers. However, the proposed revision would require the container to be appropriately labeled under the requirements of 10 CFR 20.1904 before being removed from the posted area.

In the **Federal Register** document that solicited public comment on the draft rule language (69 FR 8350; February 24, 2004), the NRC indicated that this proposed change would either revise 10 CFR 20.1905 or add a new requirement to 10 CFR Part 50. The NRC proposes that the new exemption to labeling requirements be contained in 10 CFR 20.1905 because it fits logically with the other exemptions in that section. In the February 24, 2004, **Federal Register** document, the NRC also asked whether in addition to nuclear power facilities, there were categories of materials

licensees to which this exemption might be applied and whether adequate controls for radioactive materials stored within these licensees' facilities could be provided by the conditions being considered for the exemption. No categories of materials licensees responded to this question. The NRC is proposing that this exemption apply only to nuclear power reactor licensees, not to materials or non-power reactor licensees.

Some nuclear power reactor licensees have interpreted 10 CFR 20.1904 to mean that all containers in a posted area, whether they contain licensed material or not, must be labeled because every container has the potential for internal contamination. This conservative interpretation of the regulations has put an undue burden on these licensees. The proposed revision to 10 CFR 20.1905 would require containers to be conspicuously marked commensurate with the radiological hazard. This would exempt the licensee from providing detailed labeling information such as the radionuclide or radionuclides present, an estimate of the quantity of radioactivity, the date for which the activity is estimated, radiation levels, types of materials, and mass enrichment as currently required under 10 CFR 20.1905. One purpose of adding conspicuous markings on the containers would be to indicate the potential for generating airborne contamination or high radiation dose rates if the containers were opened or mishandled. For example, these containers could be conspicuously marked by using a color-coding system to indicate high, medium, or low levels of activity or hazard. Containers such as 55-gallon steel drums holding contaminated gloves and booties could be marked with a color that represents low levels of activity or low potential for airborne contamination. At nuclear power facilities, containers located within a posted area are accessible only to individuals who have had instruction under 10 CFR 19.12 and who have been assigned a radiation work permit to control their activities. Workers would be instructed on the handling of marked containers before workers were given access to these containers.

The proposed container marking system would reduce licensee administrative and information collection burdens, but serve the same health and safety functions as the current labeling requirements. Therefore, the proposed amendment would not affect the level of protection to either the health and safety of workers and the public or the environment.

The NRC has determined that the exemption to labeling requirements under 10 CFR 20.1905 is not appropriate for materials licensees because of the many types of radioactive material in containers at facilities such as hospitals and universities. Also, the NRC proposes not to make this exemption applicable to non-power reactor licensees because the operations at these facilities are not routine and must be addressed on a case-by-case basis. Highly radioactive materials are frequently taken out of these reactors and exempting these reactors from the labeling requirements could potentially present a significant health and safety concern.

This proposed rule excludes sealed sources from the revision to the exemption to labeling requirements. This exclusion represents a change from the draft rule language (69 FR 8350; February 24, 2004). The NRC has determined that sealed sources such as those used for calibration or check sources should not be included in the proposed revision to 10 CFR 20.1905 because these sources are usually either specifically or generally licensed and should be managed, used, and stored in accordance with the regulations. Therefore, the proposed amendment would not exempt them from the labeling requirements.

#### *D. Cumulative Occupational Radiation Dose*

The fourth proposed amendment would remove the provision in 10 CFR 20.2104(a)(2) that requires licensees to attempt to obtain the records of cumulative occupational radiation dose for each worker requiring monitoring under 10 CFR 20.1502.

Initially, occupational exposures were restricted by the cumulative lifetime dose received and, under certain circumstances, an individual could receive as much as 0.12 Sv (12 rems) in a year. However, following revision to 10 CFR Part 20 (56 FR 23391; May 21, 1991), cumulative lifetime dose is no longer used in the Commission's regulations to restrict occupational exposures. The reduced occupational dose limit of 0.05 Sv (5 rems) per year in the current 10 CFR 20.1201(a)(1)(i) essentially accomplishes the same goal as the previous dose limit of 0.03 Sv (3 rems) per calendar quarter constrained by the then age-dependent, cumulative lifetime dose limit. (The goal is an average cumulative dose rate of 0.05 Sv (5 rems) per year to the individual.) Therefore, it is no longer necessary for licensees to obtain records of cumulative occupational dose.

The proposed amendment would not change the criterion under 10 CFR 20.1206, "Planned special exposures," that requires licensees to ascertain the exposure history of an individual's prior lifetime doses as required by 10 CFR 20.2104(b) before permitting an individual to participate in a planned special exposure.

The proposed amendment to 10 CFR 20.2104(a)(2) would result in a significant reduction in administrative and information collection burdens on licensees and would not affect the level of protection to either the health and safety of workers and the public or the environment, since the requirements to determine an individual's dose during the current year or cumulative dose prior to permitting a planned special exposure would not be amended.

In 10 CFR 20.2104, paragraphs (c) and (d) would also be revised to correct the omission of a reference to paragraph (b) in this section regarding planned special exposures. Paragraph (b) requires that prior to permitting an individual to participate in a planned special exposure, the licensee must determine the internal and external doses from all previous planned special exposures, and all doses in excess of the limits (including doses received during accidents and emergencies) received during the lifetime of the individual. This revision would add into paragraphs (c) and (d) that licensees obtain complete records of the worker's current and previously accumulated occupational dose in complying with the provisions of 10 CFR 20.2104(b).

### **III. Public Comments in Response to the Federal Register Notice**

The February 24, 2004, **Federal Register** document presenting the draft rule language (69 FR 8350) solicited public comment on a number of questions about the proposed language. The Commission received eight comment letters. Comment letters were received from utility representatives, power reactor licensees, a fuel facility licensee, an industry organization representing materials licensees, and a member of the public. The majority of comment letters supported NRC's approach. The significant comments discussed below are arranged by subject. No changes to the draft rule language were made as a result of the comment letters. Agreement State comments are addressed separately below in Section IV.

#### *A. Annual Dose Report to Workers*

All of the commenters supported the intent of the proposed revision to 10 CFR 19.13 to remove the requirement

that licensees provide unsolicited annual dose reports to workers who receive less than a threshold dose in a monitoring year. However, one industry commenter disagreed with the NRC's proposed threshold value of 1 mSv (100 mrem) and believed it should be linked to the monitoring threshold for occupational exposure.

*Comment.* One industry commenter stated that 10 CFR 20.1502 only requires licensees to monitor worker external exposure when there is reasonable expectation that the worker could exceed 5 mSv (500 mrem) in a year. The commenter therefore recommended that licensees should not be required to inform workers unless their annual exposure exceeds ten percent (*i.e.*, 5 mSv (500 mrem)) of the limits.

*Response.* The NRC disagrees with this comment. The criterion of 1 mSv (100 mrem) was selected because it corresponds to the occupational dose threshold for requiring instructions to workers under 10 CFR 19.12, "Instructions to workers." While the commenter's suggested threshold of 5 mSv (500 mrem) per year is a possible option, the occupational exposure data in NUREG-0713, Volume 26, indicates that raising the threshold from the proposed value of 1 mSv (100 mrem) would not significantly reduce administrative and information collection burdens on licensees.

*Comment.* Another commenter representing the nuclear power industry suggested that NRC clarify that the applicability of the criterion is limited to the occupational dose received from work activities at a specific facility, and is not applicable to the cumulative annual dose received from work activities at all (multiple) licensee facilities during the year.

*Response.* The NRC believes that the applicability of the criterion is clear and no further changes are required. Nuclear power reactor licensees generally provide a separate occupational dose record (NRC Form 5, "Occupational Dose Record for a Monitoring Period") to an individual for each facility reflecting the dose received at that facility. Under the proposed regulations, the licensee would be required to provide only those reports (NRC Forms 5) to an individual whose recorded dose exceeded the reporting threshold of 1 mSv (100 mrem) at that facility.

*Comment.* The NRC also solicited comment on whether the proposed changes would result in cost savings to licensees and, if so, how much. Further, the NRC requested that stakeholders estimate the costs of implementing this possible change. One commenter representing the nuclear power industry

stated that 10 CFR Part 50 licensees have estimated a cost savings of \$1,000 to more than \$5,000 per year due to the proposed change. Another commenter representing an alliance of six nuclear power utilities estimated the savings to be over \$1,000 per plant per year. Still another reactor industry commenter estimated that the cost savings would be approximately \$5,000 per site per year in administrative, supplies, and management time with a total estimated savings of \$85,000 to \$125,000 for the licensee's fleet of nuclear power plants and that implementation costs would be insignificant. Lastly, a commenter representing manufacturers and distributors of radiopharmaceuticals, radioactive sources, and research radionuclides stated that a manufacturing licensee who monitors 300 employees for radiation exposure and who manages the data electronically, might save only \$100 per year, but that a licensee who manages the data manually might realize substantially larger cost savings from the changes under consideration.

*Response.* The savings estimates provided by the three commenters from the nuclear power industry are generally consistent. The regulatory analysis in Section XII uses a \$3,000 cost-savings value, the midpoint of the values provided by the first commenter, to estimate the annual savings per nuclear power plant. The estimate that the savings might be only \$100 per year for materials licensees was based on the use of an electronic data management system. For all other licensees, NRC used an estimated savings of \$10 per individual, assuming that these licensees do not have an electronic data management system.

#### *B. Definition of Total Effective Dose Equivalent (TEDE)*

Seven commenters addressed this issue and all agreed with the proposed revision to the definition of TEDE in 10 CFR 20.1003 and 50.2.

#### *C. Labeling Containers*

In the **Federal Register** document, the NRC solicited comments on whether to revise 10 CFR 20.1905 or to add a new regulation to 10 CFR Part 50, and whether there are categories of materials licensees to which the labeling exemption might be applied.

Five industry commenters supported the proposed exemption to the labeling requirements. Three commenters favored revising 10 CFR 20.1905. Two commenters preferred adding a new regulation to 10 CFR Part 50. As discussed above in Section II, the NRC proposes that the new exemption to

labeling requirements be contained in 10 CFR 20.1905 because it fits logically with the other exemptions in this section.

The NRC received no comments from materials licensees that addressed the labeling exemption. As discussed above in Section II, the NRC proposes that this exemption apply only to nuclear power facilities, not to materials or non-power reactor licensees.

*Comment.* An industry commenter suggested that the rule should require the labeling of containers of radioactive material before they are removed from a restricted area instead of a posted area, and that container markings should be required only when the container was in an area not otherwise adequately posted and controlled.

*Response.* The NRC disagrees with this comment. The NRC has determined that the previously published draft language pertaining to this requirement is appropriate for the control of containers, and that the proposed language affords significant relief to the licensees while maintaining necessary controls on radioactive materials to protect workers from preventable contaminations or exposures. The proposed revision would also require the container to be appropriately labeled under the requirements of 10 CFR 20.1904 before being removed from the posted area.

*Comment.* In response to the NRC's request for comments on whether the proposed changes would result in cost savings to licensees, one commenter representing the nuclear power industry stated that 10 CFR Part 50 licensees have estimated a cost savings of \$10,000 to more than \$50,000 per year from the proposed change. A second commenter representing an alliance of six nuclear power utilities estimated the savings to be \$50,000 per year in technician and supervisory person-hours. A third commenter stated that licensees would realize a savings of about \$25,000 per year due to a reduction in the use of radioactive material labels and staff needed to ensure staging areas within the radiological controlled area have appropriate labels.

*Response.* The savings estimates provided by the three commenters from the nuclear power industry are generally consistent. The regulatory analysis in Section XII uses a \$30,000 cost-savings value, the midpoint of the values provided by the first commenter, to estimate the annual savings per nuclear power plant.

#### D. Cumulative Occupational Radiation Dose

*Comment.* All industry commenters agreed with the intent of the proposed revision to 10 CFR 20.2104 to delete the requirement that licensees obtain the records of cumulative dose for all workers who require monitoring. However, a member of the public expressed concern that the proposed rule change would give workers the impression that lifetime dose is not important.

*Response.* As explained above in Section II, the cumulative lifetime dose is no longer used in the Commission's regulations to restrict an individual's annual occupational exposure but it is used in special circumstances such as a planned special exposure. The proposed rule would not change the requirement in 10 CFR 20.1206 to ascertain an individual's cumulative lifetime dose prior to permitting the individual to participate in a planned special exposure.

*Comment.* In response to the NRC's request for comments on whether the proposed changes would result in cost savings to licensees, one commenter representing the nuclear power industry indicated that 10 CFR Part 50 licensees have estimated a cost savings of \$2,000 to more than \$15,000 per year from the proposed change. Another commenter representing an alliance of six nuclear power utilities estimated that the savings could be as much as \$100,000 per plant per year. Lastly, a commenter representing manufacturers and distributors of radiopharmaceuticals, radioactive sources, and research radionuclides noted that most recently hired employees in the manufacturing industry do not have prior dose records. As an example, this commenter also mentioned that one manufacturer with 250 radiation workers made only three requests for records in 2003. The estimated savings was \$30 per year for the three requests.

*Response.* The regulatory analysis in Section XII uses an \$8,500 cost-savings value, the midpoint of the values provided by the first commenter, to estimate the annual savings per nuclear power plant. The second commenter's estimate of \$100,000 per year was not used because it represented the savings for a few operating plants and is much higher than the savings estimated by the first commenter for the entire nuclear power industry. The NRC uses a savings of \$10 per individual for all other licensees. This is consistent with the information provided by the commenter representing materials licensees.

#### IV. Agreement State Comments on the Draft Rule Language

The NRC solicited comments from the Agreement States and Minnesota and Pennsylvania (two Agreement State candidates) in All Agreement States Letter STP-04-002, dated January 9, 2004. Comments on this letter were received from the Agreement States Illinois and Washington. No changes to the draft rule language were made as a result of the Agreement State comments.

*Comment.* The State of Washington commented that the proposed reporting threshold for providing annual dose reports to workers under 10 CFR 19.13(b) should be ten percent (5 mSv (500 mrem)) of the occupational dose limit for adults, not two percent (1 mSv (100 mrem)) of this dose limit.

*Response.* While the commenter's suggested threshold of 5 mSv (500 mrem) per year is a possible option, the occupational exposure data in NUREG-0713, Volume 26, indicates that raising the threshold from the proposed value of 1 mSv (100 mrem) would not significantly reduce administrative and information collection burdens on licensees. The NRC has determined that the proposed threshold of 1 mSv (100 mrem) reasonably balances reducing unnecessary regulatory burden and the need to keep individuals informed of their occupational dose.

*Comment.* The State of Washington suggested that facilities providing dosimetry to all individuals would most likely see a cost savings from the reduced administrative person-hours needed to prepare, send and track these reports and the lower cost to produce and distribute these reports. The State of Washington also stated that the actual cost savings cannot easily be quantified, as it is dependent on the number of monitored individuals and the method used to inform these individuals of their dose.

*Response.* The NRC agrees that it is difficult to estimate the savings to licensees from not having to prepare and distribute annual dose reports when the dose to an individual does not exceed 1 mSv (100 mrem). However, the NRC is using other commenters' estimates of savings in the regulatory analysis (see Section XII).

*Comment.* The State of Washington commented that the exemption to labeling requirements for containers holding radioactive material in a posted area in a nuclear power facility should be in 10 CFR Part 50.

*Response.* As discussed in Section II, the NRC proposes that the new exemption to labeling requirements be contained in 10 CFR 20.1905 because it

fits logically with the other exemptions in this section.

*Comment.* The State of Washington commented that quantifying the actual cost savings from not having to obtain prior dose records depends on the number of individuals for whom prior dose histories were required and the processes used to obtain the information.

*Response.* The NRC agrees that it is difficult to estimate the savings to licensees from not having to attempt to obtain the lifetime dose records for individuals. However, the NRC is using other commenters' estimates for savings in the regulatory analysis (see Section XII).

#### V. Section-by-Section Analysis of Substantive Changes

The Commission is proposing to amend 10 CFR 19.13, 20.1003, 20.1201, 20.1905, 20.2104, 20.2205, and 50.2.

##### Section 19.13—Notifications and Reports to Individuals

Paragraph (b) would be revised to require a licensee to provide an annual dose report to an individual when the individual's occupational dose exceeds 1 mSv (100 mrem) TEDE or 1 mSv (100 mrem) to any individual organ or tissue, or when the individual requests a report of the individual's annual dose, and that all dose records shall be made available to workers onsite.

In order to consolidate the requirement to report annual dose to the individual into a single requirement in 10 CFR 19.13(b), paragraph (d) would be revised to remove the reference to 10 CFR 20.2206.

##### Section 20.1003—Definitions

In 10 CFR 20.1003, the definition of *total effective dose equivalent* (TEDE) would be revised to state that TEDE is the sum of the effective dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures).

##### Section 20.1201—Occupational Dose Limits for Adults

Paragraph (c) would be revised to add the requirement that when the external exposure is determined by measurement with an external personal monitoring device, the deep-dose equivalent must be used in place of the effective dose equivalent, unless the effective dose equivalent is determined by a dosimetry method approved by the NRC.

##### Section 20.1905—Exemptions to Labeling Requirements

A new paragraph (g) would be added to 10 CFR 20.1905 to provide an

exemption for containers holding licensed material (other than sealed sources that are either specifically or generally licensed) that are in an area posted under the requirements of 10 CFR 20.1902 at a nuclear power facility. The regulations would not require the licensee to label the container per the requirements of 10 CFR 20.1904 if it is conspicuously marked (such as by color coding) commensurate with the radiological hazard and accessible only to individuals who have sufficient instructions to minimize radiation exposure while handling or working in the vicinity of the containers. The container would have to be appropriately labeled as required by 10 CFR 20.1904 before being removed from the posted area. The exemption to the labeling requirements for containers holding licensed material would not apply to non-power reactor and materials licensees, or for sealed sources.

*Section 20.2104—Determination of Prior Occupational Dose*

Paragraph (a)(2) would be removed to delete the requirement that licensees attempt to obtain the records of cumulative occupational radiation dose. Paragraphs (a) and (a)(1) would then be combined and designated as paragraph (a). Paragraphs (c) and (d) would also be revised to add a reference to paragraph (b) in this section regarding planned special exposures.

*Section 20.2205—Reports to Individuals of Exceeding Dose Limits*

Section 20.2205 would be revised to remove the reference to 10 CFR 20.2206, in order to consolidate the requirement to report annual dose to the individual into a single requirement in 10 CFR 19.13(b).

*Section 50.2—Definitions*

In 10 CFR 50.2, the definition of *total effective dose equivalent* (TEDE) would

be revised to state that TEDE is the sum of the effective dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures).

**VI. 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** (62 FR 46517; September 3, 1997), this proposed rule would be a matter of compatibility between NRC and the Agreement States, that provides for consistency between Agreement State and NRC requirements. The NRC analyzed the proposed rule under the procedure established in Part III, “Categorization Process for NRC Program Elements,” of Handbook 5.9 to Management Directive 5.9, “Adequacy and Compatibility of Agreement State Programs” (which may be viewed at <http://www.hsr.d.ornl.gov/nrc/home.html>). The NRC has determined that the compatibility categories for the sections amended in this proposed rule would be the same as for the sections in the current regulations, except for the new exemption (g) added to 10 CFR 20.1905.

The revisions to 10 CFR 19.13 and 20.2205 are classified as Compatibility Category C. A Compatibility Category C designation means the Agreement State should adopt the essential objectives of the requirement to avoid conflicts, duplications, or gaps.

The revisions to 10 CFR 20.1003 and 20.1201(c) are classified as Compatibility Category A. A Compatibility Category A designation means the requirement is a basic radiation protection standard or related definition, sign, label, or term necessary for a common understanding of radiation protection principles. Agreement State requirements

designated Compatibility Category A should be essentially identical to NRC requirements.

The new exemption (g) added to 10 CFR 20.1905 is classified as Compatibility Category NRC. A Compatibility Category NRC designation means the Agreement State is not required to adopt the requirement for purposes of compatibility. These are NRC program elements that address regulatory items that cannot be relinquished to Agreement States under the Atomic Energy Act or CFR provisions.

The revision to 10 CFR 20.2104(a) is classified as Compatibility Category D. A Compatibility Category D designation means the Agreement State is not required to adopt the requirement for compatibility.

**VII. Availability of Documents**

The NRC is making the documents identified below available to interested persons through one or more of the following methods.

Public Document Room (PDR). The NRC Public Document Room is located at 11555 Rockville Pike, Rockville, Maryland.

Rulemaking Web site (RuleForum). The NRC’s Interactive rulemaking Web site is located at <http://ruleforum.llnl.gov>. These documents may be viewed and downloaded electronically via this Web site.

NRC’s Agency-wide Documents Access and Management System (ADAMS). The NRC’s PARS Library is located at <http://www.nrc.gov/reading-rm/adams.html>.

The NRC staff contact (NRC Staff). Stewart Schneider, U.S. Nuclear Regulatory Commission, Mail Stop O–12D3, Washington, DC 20555–0001; telephone (301) 415–4123; [sxs4@nrc.gov](mailto:sxs4@nrc.gov).

Document	PDR	RuleForum	ADAMS	NRC staff
Comments received .....	X	X		X
NEI comment letter, July 2, 2001 .....	X	X	ML011870432	
NRC Strategic Plan FY 2000–2005 .....	X	X		
SECY–02–0081, “Staff Activities Related to the NRC Goal of Reducing Unnecessary Burden,” (May 13, 2002) .....	X	X	ML020420137	
SRM–SECY–02–0081(June 25, 2002) .....	X	X	ML021760768	
Agreement State Letter STP–04–002 .....	X	X	ML040090486	
NRC Form 3, “Notice to Employees” .....	X	X		X
NRC Form 4, “Cumulative Occupational Dose History” .....	X	X		X
Form 5, “Occupational Dose Record for a Monitoring Period” .....	X	X		X
NUREG–0713, Vol. 26 .....	X			X
NUREG–1350, Vol. 17 .....	X			X
NUREG/BR–0184 .....	X			X
NUREG/BR–0058 .....	X			X
56 FR 23391; May 21, 1991 .....	X	X		



Copies of NUREGs may be purchased from The Superintendent of Documents, U.S. Government Printing Office, Mail Stop SSOP, Washington, DC 20402-0001; Internet: <http://bookstore.gpo.gov>; (202) 512-1800. Copies are also available from the National Technical Information Service, Springfield, VA 22161-0002; <http://www.ntis.gov>; 1-800-553-6847 or, locally, (703) 605-6000. Some publications in the NUREG series are included in the document collections in the Electronic Reading Room on NRC's Web site at <http://www.nrc.gov/reading-rm.html>.

### VIII. Plain Language

The Presidential memorandum "Plain Language in Government Writing" published June 10, 1998 (63 FR 31883), directed that the Government's documents be in clear and accessible language. The NRC requests comments on the proposed rule specifically with respect to the clarity and reflectiveness of the language used. Comments should be sent to the address listed under the **ADDRESSES** caption of this notice.

### IX. Voluntary Consensus Standards

The National Technology Transfer and Advancement 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 using such a standard is inconsistent with applicable law or is otherwise impractical. In this proposed rule, the NRC is proposing to revise requirements for the reporting of annual dose to workers, the definition of the total effective dose equivalent (TEDE), the labeling of certain containers holding licensed material, and the determination of cumulative occupational radiation dose. This proposed regulatory action does not constitute the establishment of a standard that contains generally applicable requirements.

### X. Environmental Impact: Categorical Exclusion

The NRC has determined that the proposed amendments to 10 CFR Parts 19, 20, and 50 are the type of actions described in categorical exclusion 10 CFR 51.22(c). Therefore, neither an environmental impact statement nor an environmental assessment has been prepared for this regulatory action. Specifically, the proposed revision to 10 CFR 19.13(b) to limit the routine reporting of annual doses to workers comes under the categorical exclusion in 10 CFR 51.22(c)(1), which covers all revisions to 10 CFR Part 19. The proposed amendments to the definition of TEDE in 10 CFR 20.1003 and 50.2

and to 10 CFR 20.1201(c) to add the requirement that the effective dose equivalent be determined by a dosimetry method approved by the NRC come under the categorical exclusion in 10 CFR 51.22(c)(2) because this revision is of a minor nature and does not substantially modify existing regulations. For the proposed amendments to 10 CFR 20.1905 to revise the requirements for labeling containers and to 10 CFR 20.2104 to remove the requirement to obtain lifetime exposure records, these revisions involve recordkeeping requirements and thus come under the categorical exclusion in 10 CFR 51.22(c)(3)(ii). Finally, because the proposed amendment to 10 CFR 20.2205 involves a reporting requirement, this revision comes under the categorical exclusion in 10 CFR 51.22(c)(3)(iii).

### XI. Paperwork Reduction Act Statement

This proposed rule amends information collection requirements that are subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 *et seq.*). The rule would reduce the burden for existing information collection requirements. This rule has been submitted to the Office of Management and Budget for review and approval of the paperwork requirements.

*Type of submission, new or revision:* Revision.

*The title of the information collection:* 10 CFR Parts 19, 20, and 50;

"Occupational Dose Records, Labeling Containers, and the Total Effective Dose Equivalent," proposed rule.

*The form number if applicable:* NRC Form 4; "Cumulative Occupational Dose History."

*How often the collection is required:* 10 CFR 19, 20, and NRC Form 4—on occasion.

*Who will be required or asked to report:* Nuclear power reactor licensees and materials licensees.

*An estimate of the number of annual responses:* 10 CFR Part 19: 4,621 (104 power reactor licensee recordkeepers and 4,517 materials licensee recordkeepers; NRC Form 4: 227 (104 nuclear power reactor recordkeepers and 123 materials recordkeepers).

*The estimated number of annual respondents:* 10 CFR Part 19: 4,621 recordkeepers (104 power reactor licensees and 4,517 materials licensees); NRC Form 4: 227 (104 nuclear power reactor licensees and 123 materials licensees).

An estimate of the total number of hours needed annually to complete the requirement or request: A reduction of 10,882 hours total for 10 CFR Part 19

(-6,588 hours for nuclear power reactor licensees [-63.3 hours per licensee] and -4,294 hours for materials licensees [-1 hour per licensee]); and a reduction of 9,969 hours total for NRC Form 4 (-8,751 hours for nuclear power reactor licensees [-84 hours per licensee] and a reduction of 1,218 hours for materials licensees [-10 hours per licensee]).

*Abstract:* The U.S. Nuclear Regulatory Commission is proposing to revise several administrative requirements related to the reporting of dose to workers, the labeling of certain containers holding licensed material, and the determination of cumulative occupational radiation dose. The proposed rule would limit the routine reporting of annual doses to workers to those whose annual dose exceeds a specific dose threshold or who request a report. The proposed rule would also modify the labeling requirements for certain containers holding licensed material within posted areas in nuclear power facilities. The proposed rule would also remove the requirement that licensees attempt to obtain cumulative exposure records for workers unless these individuals are being authorized to receive a planned special exposure. These revisions would reduce the administrative and information collection burdens on licensees without affecting the level of protection to either the health and safety of workers and the public or the environment.

The U.S. Nuclear Regulatory Commission is seeking public comment on the potential impact of the information collections contained in this proposed rule and on the following issues:

1. Is the proposed information collection necessary for the proper performance of the functions of the NRC, including whether the information will have practical utility?
2. Is the estimate of burden accurate?
3. Is there a way to enhance the quality, utility, and clarity of the information to be collected?
4. How can the burden of the information collection be minimized, including the use of automated collection techniques?

A copy of the OMB clearance package may be viewed free of charge at the NRC Public Document Room, One White Flint North, 11555 Rockville Pike, Room O-1 F21, Rockville, MD 20852. The OMB clearance package and rule are available at the NRC worldwide Web site: <http://www.nrc.gov/public-involve/doc-comment/omb/index.html> for 60 days after the signature date of this notice and are also available at the rule forum site, <http://ruleforum.llnl.gov>.



Send comments on any aspect of these proposed information collections, including suggestions for reducing the burden and on the above issues, by October 23, 2006 to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet electronic mail to [INFOCOLLECTS@NRC.GOV](mailto:INFOCOLLECTS@NRC.GOV) and to the Desk Officer, John A. Asalone, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0005, 3150-0014, and 3150-0044), Office of Management and Budget, Washington, DC 20503. Comments received after this date will be considered if it is practical to do so, but assurance of consideration cannot be given to comments received after this date. You may also e-mail comments to [John\\_A.\\_Asalone@omb.eop.gov](mailto:John_A._Asalone@omb.eop.gov) or comment by telephone at (202) 395-4650.

### Public Protection Notification

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

### XII. Regulatory Analysis

The NRC has prepared a regulatory analysis on this proposed rule and has included it in this **Federal Register** notice. The analysis examines the costs and benefits of the alternatives considered by the NRC.

#### 1. Statement of the Problem and Objective

The NRC has determined that the regulations proposed for revision in 10 CFR 19.13, 20.1003, 20.1201, 20.1905, 20.2104, and 50.2 currently impose an undue regulatory burden on licensees. This proposed rule would amend certain requirements for notification of workers, revise the definition of total effective dose equivalent, amend certain container labeling requirements, and remove the requirement that licensees attempt to obtain the records of cumulative occupational radiation dose for certain individuals. These revisions are intended to reduce administrative and information collection burdens on NRC and Agreement State licensees without affecting the level of protection to either the health and safety of workers and the public or the environment.

#### 2. Identification of Regulatory Alternatives

This regulatory analysis evaluates the savings and costs of two regulatory

alternatives. The following subsections describe these two alternatives.

#### 2.1 No-Action Alternative

The no-action alternative retains the current regulations as described above in Section II. Licensees would continue to be required to: (1) Provide annual dose reports to all monitored individuals, (2) determine the total effective dose equivalent (TEDE) by summing the deep-dose equivalent (for external exposures) and the committed effective dose equivalent (for external doses), (3) use the current exemptions to labeling requirements for containers holding licensed material, and (4) attempt to obtain the records of lifetime occupational radiation dose for all individuals. The no-action alternative is the baseline for analyzing the proposed alternative. The no-action alternative would not accomplish the stated objective.

#### 2.2 Proposed Rule Alternative

Under the proposed rule alternative, the NRC would revise its regulations in 10 CFR Parts 19, 20, and 50 for: (1) Reporting dose to workers, (2) the definition of TEDE, (3) the labeling of certain containers holding licensed material, and (4) the requirement that licensees attempt to obtain the records of cumulative occupational radiation dose for all individuals. This alternative would make the regulations consistent with current Commission policy and reduce administrative and information collection burdens on NRC and Agreement State licensees. Because this action was undertaken to ease burden, the rulemaking process is the only regulatory option appropriate to make the proposed changes effective.

#### 3. Analysis of Values and Impacts of Proposed Rulemaking

##### 3.1 Identification of Affected Attributes

The attributes that the proposed rule could affect were identified by using the list of potential attributes provided in Chapter 5 of NUREG/BR-0184, "Regulatory Analysis Technical Evaluation Handbook" (January 1997).

*Industry Implementation.* This attribute would be affected by three of the four principal revisions: The revisions to the requirements for the annual dose reports to workers, the labeling of containers holding licensed material, and the attempt to obtain the records of cumulative occupational radiation dose for an individual. In implementing the proposed changes, licensees would incur the costs of revising procedures.

*Industry Operation.* This attribute would be affected by three of the four principal revisions. Licensees would realize savings by only having to provide annual dose reports to individuals when their dose exceeds 1 mSv (100 mrem), by not having to label containers holding licensed material (except sealed sources that are already labeled) in a posted area in a nuclear power facility, and by not having to ascertain the exposure history of an individual's prior lifetime doses except to permit an individual to participate in a planned special exposure.

*NRC Implementation.* The NRC would incur costs to make minor revisions to NRC Form 3, "Notice to Employees," to account for the proposed changes to the reporting of annual dose to workers. The NRC would also incur the costs of completing this regulatory action.

*Regulatory Efficiency.* All four of the principal revisions would enhance regulatory efficiency. The revisions are intended to reduce administrative and information collection burdens on NRC and Agreement State licensees without affecting the level of protection to either the health and safety of workers and the public or the environment.

#### 3.2 Methodology

The incremental savings and costs of the proposed regulatory action were analyzed relative to the baseline described in Section 2.1 of this regulatory analysis. The savings come from any desirable changes in the affected attributes, while the costs come from any undesirable changes in the affected attributes.

Under Office of Management and Budget guidance and NUREG/BR-0058, "Regulatory Analysis Guidelines of the U.S. Nuclear Regulatory Commission," Revision 4 (September 2004), the results of the analysis are presented using a discounted flow of funds at a 3 and 7 percent rate.

Under 10 CFR 20.2206, seven categories of NRC licensees are required to submit to the NRC annual radiation exposure reports for monitored individuals: Commercial nuclear power reactors, industrial radiographers, fuel processors (including uranium enrichment), fabricators and reproducers, manufacturers and distributors of byproduct material, independent spent fuel storage installations, facilities for land disposal of low-level waste, and geologic repositories for high-level waste. (No NRC licensees are currently involved in operating low-level waste disposal facilities or geologic repositories for high-level waste.) In addition, 10 CFR 20.2206(b) requires that licensees

submit annual reports using NRC Form 5, "Occupational Dose Record for a Monitoring Period," or electronic media containing all the information required by NRC Form 5. For the above licensees, the value-impact analysis uses the latest occupational exposure data maintained in the NRC's Radiation Exposure Information and Reporting System (REIRS) database (NUREG-0713, Volume 26, "Occupational Radiation Exposure at Commercial Nuclear Power Reactors and Other Facilities 2004" (December 2005)). To simplify the analysis, the seven categories of licensees are consolidated into two groups. The first group contains only commercial nuclear power reactor licensees (nuclear power reactor licensees) and the second group contains all of the other licensee categories listed above (REIRS materials licensees).

The seven categories of licensees specified in 10 CFR 20.2206 do not include all NRC licensees. Most NRC licensees (e.g., hospitals, medical facilities, universities, radiological services, disposal) are not required to submit annual radiation exposure reports for monitored individuals. These licensees (non-REIRS materials licensees) constitute the third group of licensees for whom a value-impact analysis was done. This group contains both Agreement State and NRC licensees. For this group of licensees, the NRC has no records of the number of monitored individuals or the annual doses they received (except in the rare case of an overexposure). Based on professional judgment, the NRC assumes that 500,000 individuals are monitored annually by non-REIRS materials licensees. In addition, it is assumed that about 70 percent of them receive an annual dose that does not exceed 1 mSv (100 mrem). This factor is derived from the data in NUREG-0713 for REIRS materials licensees and is assumed to be applicable to non-REIRS materials licensees.

The following assumptions and data were used to assess the incremental values and impacts associated with the proposed regulatory action.

- Based on NUREG-0713, the number of nuclear power reactor licensees is 104 (NRC licensees only).
- Based on NUREG-0713, the number of REIRS materials licensees is 123 (NRC licensees only).
- Based on NUREG-1350, Volume 17, "NRC Information Digest: 2005-2006 Edition" (July 2005), there are approximately 17,298 Agreement State licensees.
- The number of non-REIRS materials licensees (Agreement State and NRC

licensees) was estimated as follows. A review of the NRC Licensing Tracking System database in October 2005 indicated that a total of 4,517 materials licensees are administered by the NRC. Correcting for the 123 REIRS materials licensees in the database and accounting for Agreement State licensees, the total number of Agreement State and NRC licensees designated as non-REIRS materials licensees is approximately 21,692 licensees (17,298 Agreement State licensees + 4,517 NRC materials licensees - 123 REIRS materials licensees).

- The number of NRC licensees designated as non-REIRS materials licensees is 4,394 licensees (4,517 NRC materials licensees - 123 REIRS materials licensees).
- Based on NUREG-0713, the number of individuals working for all nuclear power reactor licensees is 110,290.
- The average number of individuals working at each of the 104 nuclear power plants is estimated to be 1,060.
- Based on NUREG-0713, the number of individuals working for all REIRS materials licensees is 12,032.
- Based on professional judgment, the NRC assumes that 500,000 individuals are monitored annually by non-REIRS materials licensees (Agreement State and NRC licensees).
- Based on NUREG-0713, 70 percent of the individuals monitored by nuclear power reactor licensees receive an annual dose that does not exceed 1 mSv (100 mrem).
- Based on NUREG-0713, 80 percent of the individuals monitored by REIRS materials licensees receive an annual dose that does not exceed 1 mSv (100 mrem).
- Based on NUREG-0713 and professional judgment, the NRC assumes that 80 percent of the individuals monitored by non-REIRS materials licensees receive an annual dose that does not exceed 1 mSv (100 mrem).
- The NRC estimates that procedural revisions would require about 20 hours for each of the 104 nuclear power plants.
- For REIRS and non-REIRS materials licensees, the time needed to revise procedures ranges from 2 to 20 hours, depending on the size of the facility. This analysis uses 10 hours as the average time to revise procedures for each of the proposed changes.
- For nuclear power reactor licensees, it is assumed that the average life remaining for power reactor facilities is 49 years. For 3 and 7 percent discount rates, the analysis uses present value multiplication factors of 25.50 and

13.77, respectively, following the guidance in NUREG/BR-0184.

- For REIRS and non-REIRS materials licensees, it is assumed that the average life remaining for the facilities is 20 years. For 3 and 7 percent discount rates, the analysis uses factors of 14.9 and 10.6, respectively, following the guidance in NUREG/BR-0184.

### 3.3 Analysis

#### 3.3.1 Annual Dose Report to Workers Nuclear Power Reactor Licensees

In implementing the proposed regulatory action, nuclear power reactor licensees would incur a one-time cost to revise procedures. The NRC estimates it would take 20 hours to revise the procedures for each of the 104 nuclear power plants. Assuming a staff rate of \$100 per hour, the one-time cost of implementing the proposed action would be \$2,000 per nuclear power plant (20 hours × \$100/hour) and \$210,000 for the nuclear power industry (104 licensees × \$2,000/licensee).

With respect to industry operation, there would be a savings from not having to provide unsolicited annual dose reports (NRC Form 5) to workers when their doses do not exceed 1 mSv (100 mrem). Based on public comment, the NRC estimates the annual savings to be \$3,000 per nuclear power plant and \$310,000 for the nuclear power industry (\$3,000 × 104 licensees). For a discounted flow of funds at a 3 percent rate, the estimated savings per nuclear power plant and for the nuclear power industry are \$77,000 (\$3,000 × 25.50) and \$8 million (\$310,000 × 25.50), respectively. For a discounted flow of funds at a 7 percent rate, the estimated savings per nuclear power plant and for the nuclear power industry are \$41,000 (\$3,000 × 13.77) and \$4.3 million (\$310,000 × 13.77), respectively.

For this analysis, the NRC estimates it would take 5 minutes (0.083 hour) for a licensee to prepare an annual dose report for each worker. Using the 2004 data in NUREG-0713, it was determined that about 80 percent of the monitored individuals had an annual dose that did not exceed 1 mSv (100 mrem). It is further assumed that 90 percent of this population would not request an annual dose report. Assuming an average of 1,060 workers per nuclear power plant, the annual burden reduction from implementing the proposed action is estimated to be 63 hours per nuclear power plant (1,060 workers × 0.083 hour × 0.8 × 0.9) and the total annual industry burden reduction is 6,600 hours (63 hours/licensee × 104 licensees).

### REIRS Materials Licensees

In implementing the proposed regulatory action, REIRS materials licensees would incur a one-time cost to revise procedures. The NRC estimates it would take 10 hours to revise the procedures for each of the 123 REIRS materials licensees. Assuming a staff rate of \$100 per hour, the one-time cost of implementing the proposed action would be \$1,000 per licensee (10 hours  $\times$  \$100/hour) and \$120,000 for all licensees in this category (123 licensees  $\times$  \$1,000/licensee).

With respect to industry operation, using the 2004 data in NUREG-0713, it was determined that 8,254 workers (about 70 percent of the monitored individuals) had an annual dose that did not exceed 1 mSv (100 mrem). Assuming these workers are equally distributed among the 123 licensees in this group, about 67 workers per licensee would not receive an annual dose report. It is further assumed that 90 percent of this population would not request an annual dose report (NRC Form 5). The NRC estimates a savings of \$10 per worker not receiving a dose report. Thus, the estimated annual savings is \$600 per licensee (67 workers/licensee  $\times$  \$10/worker  $\times$  0.9) and \$74,000 for all licensees in this category (\$600/licensee  $\times$  123 licensees). For a discounted flow of funds at a 3 percent rate, the estimated savings per licensee and for all licensees in this category are \$9,000 (\$600  $\times$  14.9) and \$1.1 million (\$74,000  $\times$  14.9), respectively. For a discounted flow of funds at a 7 percent rate, the estimated savings per licensee and for all licensees in this category are \$6,000 (\$670  $\times$  10.6) and \$780,000 (\$74,000  $\times$  10.6), respectively.

For this analysis, the NRC estimates it would take 5 minutes (0.083 hour) for a licensee to prepare an annual dose report for each worker. Assuming that 90 percent of the 67 workers per licensee would not request a dose report, the annual burden reduction from implementing the proposed action is estimated to be 5 hours per licensee (67 workers  $\times$  0.083 hour  $\times$  0.9) and 620 hours for all licensees in this category (5 hours/licensee  $\times$  123 licensees).

### Non-REIRS Materials Licensees

In implementing the proposed regulatory action, non-REIRS materials licensees would incur a one-time cost to revise procedures. The NRC estimates it would take 10 hours to revise the procedures for each of the 21,692 non-REIRS materials licensees. Assuming a staff rate of \$100 per hour, the one-time cost of implementing the proposed

action would be \$1,000 per licensee (10 hours  $\times$  \$100/hour) and \$22 million for all licensees in this category (21,692 licensees  $\times$  \$1,000/licensee).

With respect to industry operation, the NRC assumes 500,000 monitored workers, 21,692 non-REIRS licensees, 23 workers per licensee, and a savings of \$10 for each worker who does not receive a dose report. In addition, the previously defined factor of 70 percent for REIRS materials licensees is used to estimate the fraction of workers who would not receive an annual dose report (NRC Form 5). Thus, 16 workers per licensee are assumed not to receive an annual dose report. It is further assumed that 90 percent of this population would not request an annual dose report. The estimated annual savings is \$140 per licensee (16 workers/licensee  $\times$  \$10/worker  $\times$  0.9) and \$3 million for all licensees in this category (\$140/licensee  $\times$  21,692 licensees). For a discounted flow of funds at a 3 percent rate, the estimated savings per licensee and for all licensees in this category are \$2,000 (\$140  $\times$  14.9) and \$44.7 million (\$3 million  $\times$  14.9), respectively. For a discounted flow of funds at a 7 percent rate, the estimated savings per licensee and for all licensees in this category are \$1,500 (\$140  $\times$  10.6) and \$32 million (\$3 million  $\times$  10.6), respectively.

For this analysis, the NRC estimates it would take 5 minutes (0.083 hour) for a licensee to prepare an annual dose report for each worker. Assuming that 90 percent of the 16 workers per licensee would not request a dose report, the annual burden reduction from implementing the proposed action is estimated to be 1.2 hours per licensee (16 workers  $\times$  0.083 hour  $\times$  0.9) and 26,000 hours for all licensees in this category (1.2 hours/licensee  $\times$  21,692 licensees). For NRC licensees only, the total annual burden reduction is estimated to be 5,300 hours (1.2 hours/licensee  $\times$  4,394 NRC licensees).

### 3.3.2 Definition of Total Effective Dose Equivalent (TEDE)

The costs and savings associated with the proposed revision to the definition of TEDE are minimal. The proposed revision would clarify that the TEDE is defined in terms of the effective dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures). This revision would eliminate the need for licensees to repeatedly request guidance from the NRC and, in some cases, to request a license amendment to clarify the current definition.

### 3.3.3 Labeling Containers

The proposed revision to 10 CFR 20.1905, "Exemptions to labeling requirements," applies only to nuclear power reactor licensees. These licensees would incur one-time implementation costs to revise procedures. The NRC estimates it would take 20 hours to revise the procedures for each of the 104 nuclear power plants. Assuming a staff rate of \$100 per hour, the one-time cost of implementing the proposed action would be \$2,000 per licensee (20 hours  $\times$  \$100/hour) and \$210,000 for the nuclear power industry (104 licensees  $\times$  \$2,000/licensee).

With respect to industry operation, based on public comments, the NRC estimates an annual savings of \$30,000 per nuclear power plant if the proposed exemption to the labeling containers is granted. For the entire nuclear power industry, the NRC estimates a savings of \$3.1 million (104 licensees  $\times$  \$30,000/licensee). For a discounted flow of funds at a 3 percent rate, the estimated savings per nuclear power plant and for the nuclear power industry are \$770,000 (\$30,000  $\times$  25.50) and \$79 million (\$3.1 million  $\times$  25.50), respectively. For a discounted flow of funds at a 7 percent rate, the estimated savings per nuclear power plant and for the nuclear power industry are \$410,000 (\$30,000  $\times$  13.77) and \$43 million (\$3.1 million  $\times$  13.77), respectively.

Using an annual savings of \$30,000 per nuclear power plant and a staff rate of \$100 per hour, the annual burden reduction from implementing the proposed action is estimated to be 300 hours per plant (\$30,000/licensee  $\div$  \$100/hour) and the total annual industry burden reduction is 31,000 hours (300 hours/licensee  $\times$  104 licensees).

### 3.3.4 Cumulative Occupational Radiation Dose

#### Nuclear Power Reactor Licensees

In implementing the proposed regulatory action, nuclear power reactor licensees would incur a one-time cost to revise procedures. The NRC estimates it would take 20 hours to revise the procedures for each of the 104 nuclear power plants. Assuming a staff rate of \$100 per hour, the one-time cost of implementing the proposed action would be \$2,000 per nuclear power plant (20 hours  $\times$  \$100/hour) and \$210,000 for the nuclear power industry (104 licensees  $\times$  \$2,000/licensee).

With respect to industry operation, there would be a savings from not having to obtain the records of cumulative occupational radiation dose (NRC Form 4) for a worker, unless these

individuals are being authorized to receive a planned special exposure. Based on public comments, the NRC estimates the annual savings to be \$8,500 per nuclear power plant and \$880,000 for the nuclear power industry ( $\$8,500 \times 104$  licensees). For a discounted flow of funds at a 3 percent rate, the estimated savings per nuclear power plant and for the nuclear power industry are \$220,000 ( $\$8,500 \times 25.50$ ) and \$22 million ( $\$880,000 \times 25.50$ ), respectively. For a discounted flow of funds at a 7 percent rate, the estimated savings per nuclear power plant and for the nuclear power industry are \$120,000 ( $\$8,500 \times 13.77$ ) and \$12 million ( $\$880,000 \times 13.77$ ), respectively.

Using an annual savings of \$8,500 per nuclear power plant and a staff rate of \$100 per hour, the annual burden reduction from implementing the proposed action is estimated to be 85 hours per plant ( $\$8,500/\text{licensee} \div \$100/\text{hour}$ ) and the total annual industry burden reduction is 8,800 hours ( $85 \text{ hours}/\text{licensee} \times 104 \text{ licensees}$ ).

#### REIRS Materials Licensees

In implementing the proposed regulatory action, REIRS materials licensees would incur a one-time cost to revise procedures. The NRC estimates it would take 10 hours to revise the procedures for each of the 123 REIRS materials licensees. Assuming a staff rate of \$100 per hour, the one-time cost of implementing the proposed action would be \$1,000 per licensee (10 hours  $\times$  \$100/hour) and \$120,000 for all licensees in this category (123 licensees  $\times$  \$1,000/licensee).

With respect to industry operation, using the 2004 data in NUREG-0713, the number of individuals working for REIRS materials licensees is 12,032. Assuming these workers are equally distributed among the 123 licensees in this group, there are about 98 workers per licensee. For this analysis, the NRC assumes that 20 percent of all workers would be affected and that 0.5 hour is required to complete, review, and authorize each NRC Form 4, "Cumulative Occupational Dose History." Using a staff rate of \$100 per hour, the estimated savings is \$50 per worker ( $\$100/\text{hour} \times 0.5 \text{ hour}$ ) by not being required to complete NRC Form 4. The NRC is not aware of any licensee having authorized a planned special exposure. For this analysis, it is assumed that 99 percent of the NRC Forms 4 would not be needed as the basis for authorizing a planned special exposure. Thus, the estimated annual savings is \$970 per licensee (98 workers/licensee  $\times$  \$50/worker  $\times$  0.2  $\times$  .99) and \$120,000 for all licensees in

this category ( $\$970/\text{licensee} \times 123$  licensees). For a discounted flow of funds at a 3 percent rate, the estimated savings per licensee and for all licensees in this category are \$14,000 ( $\$970 \times 14.9$ ) and \$1.8 million ( $\$120,000 \times 14.9$ ), respectively. For a discounted flow of funds at a 7 percent rate, the estimated savings per licensee and for all licensees in this category are \$10,000 ( $\$980 \times 10.6$ ) and \$1.3 million ( $\$120,000 \times 10.6$ ), respectively.

The annual burden reduction from implementing the proposed action is estimated to be 10 hours per licensee (98 workers/licensee  $\times$  0.5 hour/worker  $\times$  0.2  $\times$  0.99) and 1,200 hours for all licensees in this category (10 hours/licensee  $\times$  123 licensees).

#### Non-REIRS Materials Licensees

In implementing the proposed regulatory action, non-REIRS materials licensees would incur a one-time cost to revise procedures. The NRC estimates it would take 10 hours to revise the procedures for each of the 21,692 non-REIRS materials licensees. Assuming a staff rate of \$100 per hour, the one-time cost of implementing the proposed action would be \$1,000 per licensee (10 hours  $\times$  \$100/hour) and \$22 million for all licensees in this category (21,692 licensees  $\times$  \$1,000/licensee).

With respect to industry operation, the analysis assumes 500,000 individuals working under 21,692 non-REIRS licensees and an even distribution of workers per licensee (23 workers/licensee). The NRC also assumes that 20 percent of all workers would be affected and that 0.5 hour is required to complete, review, and authorize each NRC Form 4. Using a staff rate of \$100 per hour, the estimated savings is \$50 per worker ( $\$100/\text{hour} \times 0.5 \text{ hour}$ ) by not being required to complete NRC Form 4. The NRC is not aware of any licensee having authorized a planned special exposure. For this analysis, it is assumed that 99 percent of the NRC Forms 4 would not be needed as the basis for authorizing a planned special exposure. Thus, the estimated annual savings is \$230 per licensee (23 workers/licensee  $\times$  \$50/worker  $\times$  0.2  $\times$  0.99) and \$5 million for all licensees in this category ( $\$230/\text{licensee} \times 21,692$  licensees). For a discounted flow of funds at a 3 percent rate, the estimated savings per licensee and for all licensees in this category are \$3,400 ( $\$230 \times 14.9$ ) and \$75 million ( $\$5 \text{ million} \times 14.9$ ), respectively. For a discounted flow of funds at a 7 percent rate, the estimated savings per licensee and for all licensees in this category are \$2,400 ( $\$230 \times 10.6$ ) and \$53 million ( $\$5 \text{ million} \times 10.6$ ), respectively.

Using an annual savings of \$230 per licensee and a staff rate of \$100 per hour, the annual burden reduction from implementing the proposed action is estimated to be 2.3 hours per licensee ( $\$230/\text{licensee} \div \$100/\text{hour}$ ) and 50,000 hours for all licensees in this category (2.3 hours/licensee  $\times$  21,692 licensees). For NRC licensees only, the total annual burden reduction is estimated to be 10,100 hours (2.3 hours/licensee  $\times$  4,394 NRC licensees).

#### 3.3.5 NRC Implementation and Operating Impacts

##### Annual Dose Report to Workers

The NRC would incur costs to make minor revisions to NRC Form 3, "Notice to Employees," to account for the proposed revision to the reporting of annual dose to workers under 10 CFR 19.13(b). The one-time cost for this task is estimated to be \$28,000 (320 staff-hours at \$88 per hour). This is the only impact to the NRC for the proposed action.

##### Definition of Total Effective Dose Equivalent (TEDE)

The NRC would incur no implementation or operating impacts due to the proposed revision to the definition of TEDE.

##### Labeling Containers

The NRC would incur no implementation or operating impacts due to the proposed revision to the labeling of containers holding licensed material.

##### Cumulative Occupational Radiation Dose

The NRC would incur no implementation impacts due to the proposed revision to remove the requirement that licensees attempt to obtain cumulative occupational radiation dose records for workers unless these individuals are being authorized to receive a planned special exposure.

With respect to NRC operation, there would be a savings from not having inspectors review the information on NRC Form 4, or its equivalent, and supporting records maintained by licensees. For nuclear power reactor licensees, it is estimated that 1 hour of inspection time is spent reviewing such records at each of the 104 nuclear power plants. Assuming an NRC staff rate of \$88 per hour, the estimated annual savings to the NRC is \$9,200 (1 hour  $\times$  104 licensees  $\times$  \$88/hour). For a discounted flow of funds at a 3 and 7 percent rate, the estimated savings to the NRC are \$235,000 ( $\$9,200 \times 25.50$ )

and \$130,000 (\$9,200 × 13.77), respectively.

For each of the 123 REIRS materials licensees, it is estimated that 6 minutes (0.1 hour) of inspection time is spent reviewing NRC Form 4, or its equivalent, and supporting records. The NRC is not aware of any licensee having authorized a planned special exposure. For this analysis, it is assumed that 99 percent of the NRC Forms 4 would not need to be inspected as the basis for authorizing a planned special exposure. Assuming an NRC staff rate of \$88 per hour, the estimated annual savings to the NRC is \$1,100 (0.1 hour × 123 licensees × \$88/hour × 0.99). For a discounted flow of funds at a 3 and 7 percent rate, the estimated savings to the NRC are \$16,000 (\$1,100 × 14.9) and \$12,000 (\$1,100 × 10.6), respectively.

For each of the 4,394 NRC licensees designated as non-REIRS materials licensees, it is estimated that 6 minutes (0.1 hour) of inspection time is spent reviewing NRC Form 4, or its equivalent, and supporting records. As discussed above, it is assumed that 99 percent of the NRC Forms 4 would not need to be inspected as the basis for authorizing a planned special exposure. Assuming an NRC staff rate of \$88 per

hour, the estimated annual savings to the NRC is \$38,000 (0.1 hour × 4,394 licensees × \$88/hour × 0.99). For a discounted flow of funds at a 3 and 7 percent rate, the estimated savings to the NRC are \$570,000 (\$38,000 × 14.9) and \$400,000 (\$38,000 × 10.6), respectively.

**Cost of the Regulatory Action**

The NRC would incur 0.8 full time equivalent (FTE) of staff time to complete this rulemaking after publishing the proposed rule. The cost for this action is estimated to be \$126,000 (0.8 FTE at \$157,000 per FTE).

**3.3.6 Other Government Implementation and Operating Impacts**

The Agreement States would incur no implementation or operating impacts due to the proposed revisions to the reporting of annual dose to workers, the definition of TEDE, or the labeling of containers holding licensed material.

**Cumulative Occupational Radiation Dose**

For each of the 17,298 Agreement State licensees designated as non-REIRS materials licensees, it is estimated that 6 minutes (0.1 hour) of inspection time

is spent reviewing NRC Form 4, or its equivalent, and supporting records. As discussed above, it is assumed that 99 percent of the NRC Forms 4 would not need to be inspected as the basis for authorizing a planned special exposure. Assuming an Agreement State staff rate of \$88 per hour, the estimated annual savings to the Agreement States is \$150,000 (0.1 hour × 17,298 licensees × \$88/hour × 0.99). For a discounted flow of funds at a 3 and 7 percent rate, the estimated savings to the Agreement States are \$2.2 million (\$150,000 × 14.9) and \$1.6 million (\$150,000 × 10.6), respectively. The annual burden reduction to the Agreement States from implementing the proposed action is estimated to be 1,700 hours (0.1 hour × 17,298 licensees × 0.99).

The annual burden reduction to the Agreement States from implementing the proposed action is estimated to be 1,700 hours (0.1 hour × 17,298 licensees × 0.99).

**4. Presentation of Results**

The results of the NRC's value-impact assessment for industry implementation and operation are summarized in the following table.

**TABLE 1.—SUMMARY OF INDUSTRY IMPLEMENTATION AND OPERATING SAVINGS (COSTS)**

Proposed regulatory action	Licensee category	Implementation savings (costs) (\$1,000)	Operating savings (costs)	
			Using 7 percent discount rate (\$1,000)	Using 3 percent discount rate (\$1,000)
Annual dose report to workers .....	Nuclear power reactor .....	(210)	4,300	8,000
	REIRS materials .....	(120)	780	1,100
	Non-REIRS materials .....	(22,000)	32,000	45,000
TEDE .....	Nuclear power reactor .....	N/A	( <sup>1</sup> )	( <sup>1</sup> )
	REIRS materials .....	N/A	( <sup>1</sup> )	( <sup>1</sup> )
	Non-REIRS materials .....	N/A	( <sup>1</sup> )	( <sup>1</sup> )
Labeling containers .....	Nuclear power reactor .....	(210)	43,000	79,000
	REIRS materials .....	N/A	N/A	N/A
	Non-REIRS materials .....	N/A	N/A	N/A
Cumulative occupational radiation dose.	Nuclear power reactor .....	(210)	12,000	22,000
	REIRS materials .....	(120)	1,300	1,800
	Non-REIRS materials .....	(22,000)	53,000	75,000
Subtotals .....	Nuclear power reactor .....	(630)	59,300	109,000
	REIRS materials .....	(240)	2,080	2,900
	Non-REIRS materials .....	(44,000)	85,000	120,000
Total (rounded) .....	.....	(45,000)	146,000	232,000

<sup>1</sup>Minimal.

The results of the NRC's value-impact assessment for NRC implementation and operation are summarized in the following table.

TABLE 2.—SUMMARY OF NRC IMPLEMENTATION AND OPERATING SAVINGS (COSTS)

Proposed regulatory action	Licensee category	Implementation savings (costs) (\$1,000)	Operating savings (costs)	
			Using 7 percent discount rate (\$1,000)	Using 3 percent discount rate (\$1,000)
Annual dose report to workers .....	Nuclear power reactor .....			
	REIRS materials .....	(28)	N/A	N/A
	Non-REIRS materials .....			
TEDE .....	Nuclear power reactor .....			
	REIRS materials .....	N/A	N/A	N/A
	Non-REIRS materials .....			
Labeling containers .....	Nuclear power reactor .....			
	REIRS materials .....	N/A	N/A	N/A
	Non-REIRS materials .....			
Cumulative occupational radiation dose .....	Nuclear power reactor .....		130	235
	REIRS materials .....	N/A	12	16
	Non-REIRS materials .....		570	400
Cost of the regulatory action .....		(126)	N/A	N/A
Total (rounded) .....		(154)	710	650

The results of the NRC's value-impact assessment for Agreement States implementation and operation are summarized in the following table.

TABLE 3.—SUMMARY OF AGREEMENT STATES IMPLEMENTATION AND OPERATING SAVINGS (COSTS)

Proposed regulatory action	Implementation savings (costs) (\$1,000)	Operating savings (costs)	
		Using 7 percent discount rate (\$1,000)	Using 3 percent discount rate (\$1,000)
Annual dose report to workers .....	N/A	N/A	N/A
TEDE .....	N/A	N/A	N/A
Labeling containers .....	N/A	N/A	N/A
Cumulative occupational radiation dose .....	N/A	1,600	2,200
Total (rounded) .....	N/A	1,600	2,200

The results of the NRC's assessment of licensee and industry annual burden reduction in hours per in the following table.

TABLE 4.—SUMMARY OF ANNUAL BURDEN REDUCTION PER LICENSEE AND INDUSTRY

Proposed regulatory action	Licensee category	Annual burden reduction (hours)	
		Licensee	Industry
Annual dose report to workers .....	Nuclear power reactor .....	63	6,600
	REIRS materials .....	5	620
	Non-REIRS materials .....	1.2	26,000
TEDE .....	Nuclear power reactor .....	N/A	N/A
	REIRS materials .....	N/A	N/A
	Non-REIRS materials .....	N/A	N/A
Labeling containers .....	Nuclear power reactor .....	300	31,000
	REIRS materials .....	N/A	N/A
	Non-REIRS materials .....	N/A	N/A
Cumulative occupational radiation dose .....	Nuclear power reactor .....	85	8,800
	REIRS materials .....	10	1,200
	Non-REIRS materials .....	2.3	50,000
Subtotals .....	Nuclear power reactor .....	448	46,400
	REIRS materials .....	15	1,820
	Non-REIRS materials .....	3.5	76,000
Total (rounded) .....		500	124,000

The results of the NRC's assessment of annual burden reduction in hours per NRC and Agreement States are summarized in the following table.

TABLE 5.—SUMMARY OF ANNUAL BURDEN REDUCTION PER NRC AND AGREEMENT STATES

Proposed regulatory action	Annual burden reduction (hours)	
	NRC	Agreement states
Annual dose report to workers .....	N/A	N/A
TEDE .....	N/A	N/A
Labeling containers .....	N/A	N/A
Cumulative occupational radiation dose .....	555	1,700
<b>Total</b> .....	<b>555</b>	<b>1,700</b>

The total implementation cost to the NRC for the proposed regulatory action is \$154,000. The total operating impact to the NRC for a discounted flow of funds at a 3 and 7 percent rate is an estimated savings of \$650,000 and \$710,000, respectively.

There are no implementation impacts to the Agreement States for the proposed regulatory action. The total operating impact to the Agreement States for a discounted flow of funds at a 3 and 7 percent rate is an estimated savings of \$1.6 million and \$2.2 million, respectively.

The net present value of the proposed action is \$197 million at a 3 percent discount rate [industry operation (\$239 million) + NRC operation (\$650,000) + Agreement State Operation (2.2 million)] – [NRC implementation (\$154,000) + industry implementation (\$45 million)]. The net present value of the proposed action is \$103 million at a 7 percent discount rate [industry operation (\$146 million) + NRC operation (\$710,000) + Agreement State Operation (1.6 million)] – [NRC implementation (\$154,000) + industry implementation (\$45 million)].

The total reduction in annual burden from implementing the proposed action is estimated to be 126,000 hours [industry (124,000 hours) + NRC (555 hours) + Agreement States (1,700 hours)].

Several comments were received on the costs and benefits of the draft rule language (69 FR 8350; February 24, 2004) and are included above in Section III. These comments were considered in the development of this regulatory analysis.

5. Decision Rationale

The net present value of this proposed action is \$197 million and \$103 million for 3 and 7 percent discount rates, respectively. The total industry reduction in annual burden from implementing the proposed action is estimated to be 126,000 hours. These savings are obtained by reducing

administrative and information collection requirements on licensees. The NRC recommends proceeding with the proposed rule because the changes improve the effectiveness of NRC regulations and reduce unnecessary regulatory burden without affecting the level of protection to either the health and safety of workers and the public or the environment.

6. Implementation Schedule

After the publication of the proposed rule in the **Federal Register** and the consideration and resolution of the public comments, a final rule would be published, that would become effective 30 days after publication.

The Commission requests public comments on the draft regulatory analysis. Comments on the draft analysis may be submitted to the NRC as indicated under the **ADDRESSES** heading.

XIII. Regulatory Flexibility Certification

As required by the Regulatory Flexibility Act of 1980, 5 U.S.C. 605(b), the Commission certifies that this proposed rule, if adopted, would not have a significant economic impact upon a substantial number of small entities. Although three of the changes (i.e., the reporting of annual dose to workers, the definition of TEDE, and the determination of cumulative occupational radiation dose) in the proposed rule pertain to all 21,692 licensees regulated by the NRC and Agreement States, licensees, including the affected small entities, could continue their current practices and remain in compliance with the proposed regulation. Licensees would be expected to incur the costs of changing their procedures only if they determine that the changes are cost effective, therefore, the NRC has determined that the changes would not have a significant economic impact on licensees defined as small entities. The change related to labeling containers

would affect only licensees authorized to operate nuclear power reactors. These licensees do not fall within the scope of the definition of “small entities” in the Regulatory Flexibility Act or the scope of the size standards established by the NRC in 10 CFR 2.810.

XIV. Backfit Analysis

The NRC has determined that the backfit rule does not apply to this proposed rule and that a backfit analysis is not required for this proposed rule because these amendments do not involve any provisions that would impose backfits as defined in 10 CFR Chapter I.

List of Subjects

10 CFR Part 19

Criminal penalties, Environmental protection, Nuclear materials, Nuclear power plants and reactors, Occupational safety and health, Radiation protection, Reporting and recordkeeping requirements, Sex discrimination.

10 CFR Part 20

Byproduct material, Criminal penalties, Licensed material, Nuclear materials, Nuclear power plants and reactors, Occupational safety and health, Packaging and containers, Radiation protection, Reporting and recordkeeping requirements, Source material, Special nuclear material, Waste treatment and disposal.

10 CFR Part 50

Antitrust, Classified information, Criminal penalties, Fire protection, Intergovernmental relations, Nuclear power plants and reactors, Radiation protection, Reactor siting criteria, Reporting and recordkeeping requirements.

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. 553, the NRC is proposing to adopt the following



amendments to 10 CFR parts 19, 20, and 50.

## PART 19—NOTICES, INSTRUCTIONS AND REPORTS TO WORKERS: INSPECTION AND INVESTIGATIONS

1. The authority citation for part 19 continues to read as follows:

**Authority:** Secs. 53, 63, 81, 103, 104, 161, 186, 68 Stat. 930, 933, 935, 936, 937, 948, 955, as amended, sec. 234, 83 Stat. 444, as amended, sec. 1701, 106 Stat. 2951, 2952, 2953 (42 U.S.C. 2073, 2093, 2111, 2133, 2134, 2201, 2236, 2282 2297f); sec. 201, 88 Stat. 1242, as amended (42 U.S.C. 5841); Pub. L. 95–601, sec. 10, 92 Stat. 2951 (42 U.S.C. 5851); sec. 1704, 112 Stat. 2750 (44 U.S.C. 3504 note).

2. In § 19.13, paragraphs (b) and (d) are revised to read as follows:

### § 19.13 Notifications and reports to individuals.

\* \* \* \* \*

(b) Each licensee shall make dose information available to workers as shown in records maintained by the licensee under the provisions of 10 CFR 20.2106. The licensee shall provide an annual report to each individual monitored under 10 CFR 20.1502 of the dose received in that monitoring year if:

(1) The individual's occupational dose exceeds 1 mSv (100 mrem) TEDE or 1 mSv (100 mrem) to any individual organ or tissue; or

(2) The individual requests his or her annual dose report.

\* \* \* \* \*

(d) When a licensee is required by §§ 20.2202, 20.2203 or 20.2204 of this chapter to report to the Commission any exposure of an individual to radiation or radioactive material, the licensee shall also provide the individual a report on his or her exposure data included in the report to the Commission. This report must be transmitted no later than the transmittal to the Commission.

\* \* \* \* \*

## PART 20—STANDARDS FOR PROTECTION AGAINST RADIATION

3. The authority citation for part 20 continues to read as follows:

**Authority:** Secs. 53, 63, 65, 81, 103, 104, 161, 182, 186, 68 Stat. 930, 933, 935, 936, 937, 948, 953, 955, as amended, sec. 1701, 106 Stat. 2951, 2952, 2953 (42 U.S.C. 2073, 2093, 2095, 2111, 2133, 2134, 2201, 2232, 2236, 2297f), secs. 201, as amended, 202, 206, 88 Stat. 1242, as amended, 1244, 1246 (42 U.S.C. 5841, 5842, 5846); sec. 1704, 112 Stat. 2750 (44 U.S.C. 3504 note).

4. In § 20.1003, the definition of Total Effective Dose Equivalent is revised to read as follows:

### § 20.1003 Definitions.

\* \* \* \* \*

*Total Effective Dose Equivalent* (TEDE) means the sum of the effective dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures).

\* \* \* \* \*

5. In § 20.1201, paragraph (c) is revised to read as follows:

### § 20.1201 Occupational dose limits for adults.

\* \* \* \* \*

(c) When the external exposure is determined by measurement with an external personal monitoring device, the deep-dose equivalent must be used in place of the effective dose equivalent, unless the effective dose equivalent is determined by a dosimetry method approved by the NRC. The assigned deep-dose equivalent must be for the part of the body receiving the highest exposure. The assigned shallow-dose equivalent must be the dose averaged over the contiguous 10 square centimeters of skin receiving the highest exposure. The deep-dose equivalent, lens-dose equivalent, and shallow-dose equivalent may be assessed from surveys or other radiation measurements for the purpose of demonstrating compliance with the occupational dose limits, if the individual monitoring device was not in the region of highest potential exposure, or the results of individual monitoring are unavailable.

\* \* \* \* \*

6. In § 20.1905, paragraph (f) is revised and paragraph (g) is added to read as follows:

### § 20.1905 Exemptions to labeling requirements.

\* \* \* \* \*

(f) Installed manufacturing or process equipment, such as reactor components, piping, and tanks; or

(g) Containers holding licensed material (other than sealed sources that are either specifically or generally licensed) at a facility licensed under parts 50 or 52 of this chapter, not including non-power reactors, that are within an area posted under the requirements in § 20.1902 if the containers are:

(1) Conspicuously marked (such as by providing a system of color coding of containers) commensurate with the radiological hazard;

(2) Accessible only to individuals who have sufficient instructions to minimize radiation exposure while handling or working in the vicinity of the containers; and

(3) Subject to plant procedures to ensure they are appropriately labeled, as specified at § 20.1904 before being removed from the posted area.

7. In § 20.2104, the introductory text of paragraphs (a) and (c), and paragraph (d) are revised to read as follows:

### § 20.2104 Determination of prior occupational dose.

(a) For each individual who is likely to receive an annual occupational dose requiring monitoring under § 20.1502, the licensee shall determine the occupational radiation dose received during the current year:

\* \* \* \* \*

(c) In complying with the requirements of paragraphs (a) or (b) of this section, a licensee may—

\* \* \* \* \*

(d) The licensee shall record the exposure history of each individual, as required by paragraphs (a) or (b) of this section, on NRC Form 4, or other clear and legible record, including all of the information required by NRC Form 4.<sup>4</sup> The form or record must show each period in which the individual received occupational exposure to radiation or radioactive material and must be signed by the individual who received the exposure. For each period for which the licensee obtains reports, the licensee shall use the dose shown in the report in preparing the NRC Form 4. For any period in which the licensee does not obtain a report, the licensee shall place a notation on the NRC Form 4 indicating the periods of time for which data are not available.

\* \* \* \* \*

8. Section 20.2205 is revised to read as follows:

### § 20.2205 Reports to individuals of exceeding dose limits.

When a licensee is required by §§ 20.2203 or 20.2204 to report to the Commission any exposure of an identified occupationally exposed individual, or an identified member of the public, to radiation or radioactive material, the licensee shall also provide the individual a report on his or her exposure data included in the report to the Commission. This report must be transmitted no later than the transmittal to the Commission.

<sup>4</sup> Licensees are not required to partition historical dose between external dose equivalent(s) and internal committed dose equivalent(s). Further, occupational exposure histories obtained and recorded on NRC Form 4 before January 1, 1994, might not have included effective dose equivalent, but may be used in the absence of specific information on the intake of radionuclides by the individual.

## PART 50—DOMESTIC LICENSING OF PRODUCTION AND UTILIZATION FACILITIES

9. The authority citation for part 50 continues to read as follows:

**Authority:** Secs. 102, 103, 104, 161, 182, 183, 186, 189, 68 Stat. 936, 937, 938, 948, 953, 954, 955, 956, as amended, sec. 234, 83 Stat. 444, as amended (42 U.S.C. 2132, 2133, 2134, 2135, 2201, 2232, 2233, 2236, 2239, 2282); secs. 201, as amended, 202, 206, 88 Stat. 1242, as amended, 1244, 1246 (42 U.S.C. 5841, 5842, 5846); sec. 1704, 112 Stat. 2750 (44 U.S.C. 3504 note).

Section 50.7 also issued under Pub. L. 95–601, sec. 10, 92 Stat. 2951 (42 U.S.C. 5841). Section 50.10 also issued under secs. 101, 185, 68 Stat. 955, as amended (42 U.S.C. 2131, 2235); sec. 102, Pub. L. 91–190, 83 Stat. 853 (42 U.S.C. 4332). Sections 50.13, 50.54(dd), and 50.103 also issued under sec. 108, 68 Stat. 939, as amended (42 U.S.C. 2138). Sections 50.23, 50.35, 50.55, and 50.56 also issued under sec. 185, 68 Stat. 955 (42 U.S.C. 2235). Sections 50.33a, 50.55a and Appendix Q also issued under sec. 102, Pub. L. 91–190, 83 Stat. 853 (42 U.S.C. 4332). Sections 50.34 and 50.54 also issued under sec. 204, 88 Stat. 1245 (42 U.S.C. 5844). Sections 50.58, 50.91, and 50.92 also issued under Pub. L. 97–415, 96 Stat. 2073 (42 U.S.C. 2239). Section 50.78 also issued under sec. 122, 68 Stat. 939 (42 U.S.C. 2152). Sections 50.80–50.81 also issued under sec. 184, 68 Stat. 954, as amended (42 U.S.C. 2234). Appendix F also issued under sec. 187, 68 Stat. 955 (42 U.S.C. 2237).

10. In § 50.2, the definition of *Total Effective Dose Equivalent* is revised to read as follows:

### § 50.2 Definitions.

\* \* \* \* \*

*Total Effective Dose Equivalent* (TEDE) means the sum of the effective dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures).

\* \* \* \* \*

Dated at Rockville, Maryland, this 13th day of September, 2006.

For the Nuclear Regulatory Commission,  
**Annette L. Vietti-Cook**,  
*Secretary for the Commission.*  
 [FR Doc. E6–15502 Filed 9–21–06; 8:45 am]

**BILLING CODE 7590–01–P**

## DEPARTMENT OF TRANSPORTATION

### Office of the Secretary

#### 14 CFR Part 399

[Docket No. OST–2005–23194]

RIN 2105–AD56

#### Price Advertising

**AGENCY:** Office of the Secretary (OST), U.S. Department of Transportation (DOT).

**ACTION:** Withdrawal of Notice of Proposed Rulemaking.

**SUMMARY:** This document withdraws the Notice of Proposed Rulemaking (NPRM) that sought comments on whether and, if so, how the Department should amend 14 CFR 399.84, its air-transportation price-advertising rule. As a matter of enforcement policy, the Department has long allowed limited exceptions to the strict terms of the rule. The NPRM called for comments on several options: Maintain the current practice with or without codifying all of its elements in the rule, enforce the rule as written, revise the rule to eliminate most or all requirements for airfare advertisements but to specify that consumers must be told the total price before any purchase is made, or eliminate the rule altogether. The Department has decided based on the comments that the public interest will best be served by maintaining the status quo.

**ADDRESSES:** You can get a copy of this document from the DOT public docket through the Internet at <http://dms.dot.gov>, docket number OST–2005–23194 (click “search,” type just the last five digits, and click “search” again). If you do not have access to the Internet, you can get a copy of this document by United States mail from the Docket Management System, U.S. Department of Transportation, Room PL–401, 400 Seventh Street, SW., Washington, DC 20590. Specify Docket OST–2005–23194 and request a copy of the “Withdrawal of Proposed Rulemaking.” You can review the public docket in person in the Docket office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The Docket office is on the plaza level of the Department of Transportation. Finally, you can also get a copy of this document from the **Federal Register** Web site at <http://www.gpo.gov>.

#### FOR FURTHER INFORMATION CONTACT:

Betsy L. Wolf, Senior Trial Attorney, Office of the Assistant General Counsel for Aviation Enforcement and

Proceedings (C–70), U.S. Department of Transportation, 400 Seventh St. SW., Room 4116, Washington, DC 20590, tel: (202) 366–9342, fax: (202) 366–7152, e-mail: [Betsy.Wolf@DOT.GOV](mailto:Betsy.Wolf@DOT.GOV).

#### SUPPLEMENTARY INFORMATION:

##### Background

##### *The Current Rule and Enforcement Policy*

The Department’s price-advertising rule for air transportation, 14 CFR 399.84 (adopted December 20, 1984), states that any advertisement of passenger air transportation which states a price that is not the entire price the consumer must pay is an unfair and deceptive practice in violation of 49 U.S.C. 41712. Section 41712 empowers the Department to ban unfair and deceptive practices and unfair methods of competition in air transportation and its sale. Congress modeled section 41712 on section 5 of the Federal Trade Commission (“FTC”) Act, 15 U.S.C. 45. The FTC Act, however, by its own terms, cannot be enforced against air carriers. Moreover, as the States are preempted from regulating price advertising by air carriers, 49 U.S.C. 41713, *see Morales v. Trans World Airline*, 504 U.S. 374, 112 S.Ct. 2031, 119 L.Ed.2d 157 (1992), only this Department can adopt consumer-protection regulations in this area.

As a matter of enforcement discretion, the Office of Aviation Enforcement and Proceedings (“Enforcement Office”), has long allowed the following exceptions to the requirement that any advertised fare represent the consumer’s total cost:

- Government-imposed taxes and fees that the carrier collects on a per-passenger basis may be excluded from the advertised fare, provided that they are not *ad valorem*, and provided that the advertisement shows the existence and amount of these charges clearly so that consumers can easily determine the total fare.

- If multiple destinations are advertised and not all entail the same government-imposed charges, the advertisement may state a maximum fee, a fee for each destination, or a range of fees. The word “approximately” or a range of amounts may be used to account for minor fluctuations in currency exchange.

- Advertising “two-for-one” fares where the fare that must be bought is higher than the carrier’s other fares in the same market is deceptive unless this fact is prominently and clearly disclosed.

- Advertisements of each-way fares that are available only when bought for round-trip travel must disclose the