

July 6, 1999

SECY-99-175

FOR: The Commissioners

FROM: William D. Travers /s/
Executive Director for Operations

SUBJECT: PROPOSED RULE: 10 CFR PART 72 - CLARIFICATION AND
ADDITION OF FLEXIBILITY

PURPOSE:

To request Commission approval for publication of the proposed rule.

BACKGROUND:

Part 72 provides regulations for two types of licenses - general or specific - that may be used to store spent fuel. A general license is available to persons authorized to possess or operate nuclear power reactors under 10 CFR Part 50. A specific license is issued to a person upon receipt of an application filed pursuant to regulations in Part 72. Part 72 does not clearly specify which sections, other than Subpart K, apply to general licensees. Subpart L, "Approval of Spent Fuel Storage Casks," applies to applicants and holders of Certificates of Compliance (CoC). However, Part 72 also does not clearly specify which sections, other than Subpart L, apply to certificate holders.

The staff anticipates that the Nuclear Regulatory Commission (NRC) may receive several applications for specific licenses for independent spent fuel storage installations (ISFSIs) that will propose using storage cask designs previously approved under Subpart L of Part 72 (listed in § 72.214). Under the current regulation, the adequacy of the design of these previously approved casks could be at issue during the hearing process in each specific license application. This proposed rule would establish that previously approved cask designs will not be the subject of hearings.

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(301) 415-6191

Francis Young, NMSS/SFPO
(301) 415-3207

Section 72.234(c) does not permit an applicant for a CoC to begin cask fabrication before the NRC issues the CoC. Over the last four years, the NRC has issued six exemptions from this regulation and has one additional request pending. The Commission granted these exemption requests based on the applicant's performance of the fabrication under an NRC-approved quality assurance (QA) program and under the premise that the applicant bears any risks associated with fabrication.

The Commission approved the staff's rulemaking plan to clarify and add flexibility to Part 72 in a Staff Requirements Memorandum dated July 17, 1998 (Attachment 1).

DISCUSSION:

This proposed rulemaking would eliminate the regulatory uncertainty that now exists in Part 72 and would clearly specify which sections apply to general licensees, specific licensees, and certificate holders. This clarification is consistent with past staff licensing practice and would eliminate any ambiguity for licensees, certificate holders, and applicants by making explicit which portions of Part 72 apply to their activities. This clarification would also reduce NRC staff burden spent in clarifying the requirements for applicants, licensees, certificate holders, and the public.

This proposed rulemaking would also add flexibility to Part 72 in two areas:

First, this proposed rulemaking would eliminate the necessity for repetitious reviews of cask design issues that the Commission previously considered during approval of the cask design. NRC staff anticipates that the Commission may receive several applications for specific licenses for ISFSIs that will propose using storage cask designs previously approved by the NRC. Applicants for a specific license presently have the authority under § 72.18 to incorporate by reference information contained in previous applications, statements, or reports filed with the Commission into their application, including information from the Safety Analysis Report for a cask design previously approved by the NRC under the provisions of Subpart L. The staff believes previously reviewed and approved cask designs should be excluded from the scope of a license hearing. This is because the public had the right to comment on the adequacy of the cask design during the Subpart L approval process. The right of the public to comment on cask designs would not be affected by this rulemaking. In addition, the right of the public to petition the Commission under § 2.206, to raise new safety issues on the adequacy of the cask design, would not be affected by this rulemaking.

Second, the proposed rule would permit an applicant for approval of a spent fuel storage cask design under Subpart L to begin fabrication of casks before the NRC has approved the cask design and issued the CoC. Currently, an applicant for a CoC is not permitted under § 72.234(c) to begin cask fabrication until after the CoC is issued. Applicants for a specific license, and their contractors, are currently allowed to begin fabrication of casks before the Commission issues their license. However, general licensees and their contractors (i.e., the certificate holder) are not allowed to begin fabrication before the CoC is issued. Consequently, this proposed rule would eliminate NRC's disparate treatment between general and specific licensees. In addition to allowing an applicant for a CoC to begin fabrication of a cask prior to issuance of the CoC, comments would be requested on the need for a similar provision for

general licensees. The Commission and the staff have previously determined that exemptions from the fabrication prohibition are authorized by law and do not endanger life or property, the common defense, or security, and are otherwise in the public interest. The staff anticipates that additional cask designs will be submitted to the NRC for approval, and the staff also expects that exemption requests to permit fabrication prior to issuance of the CoC would also be received. This rulemaking would eliminate the need for such exemption requests.

This proposed rule would revise the QA regulations in Subpart G of Part 72 to require that an applicant for a CoC, who voluntarily wishes to begin cask fabrication, must conduct cask fabrication under an NRC-approved QA program. Currently, applicants for a CoC are required by § 72.234(b) to conduct design, fabrication, testing, and maintenance activities under a QA program that meets the requirements of Subpart G. Prior NRC approval of the applicant's QA program is not required by § 72.234(b). However, § 72.234(c) precludes cask fabrication until after the CoC is issued. The staff believes this proposed rule is a conditional relaxation to permit fabrication before the CoC is issued. Since staff would approve the applicant's QA program as part of issuance of the CoC, staff approval of the QA program prior to fabrication becomes a question of timing (e.g., when the program is approved as opposed to imposing a new requirement for approval of a program). The staff expects that any financial or scheduler risk associated with fabrication of casks prior to issuance of the CoC would be borne by the applicant. This rule would require that a cask for which fabrication was initiated before issuance of the CoC must conform to the issued CoC before it may be used. The proposed rule is not a backfit because § 72.62 applies to licensees and does not apply to applicants.

This proposed rule would also require a specific license applicant, who voluntarily wishes to begin fabrication of casks before the license is issued, to conduct fabrication under an NRC-approved QA program. Currently, an applicant for a specific license is required by § 72.140(c) to obtain NRC approval of its QA program before spent fuel is loaded into the ISFSI. Staff does not believe this proposed rule would impose a separate requirement; rather, as in the case of the CoC applicant, it would require different timing on the QA program approval. This proposed rule would also revise § 72.140(d) to allow a licensee, applicant for a license, certificate holder, and applicant for a CoC to use an existing NRC-approved Part 50, 71, or 72 QA program.

The proposed rule is dependent upon the regulatory requirements in two other final rules. These are: first, the final rule on "Changes, Tests, and Experiments" to Parts 50 and 72 forwarded to the Commission via SECY-99-130 on May 12, 1999 and approved for publication by the Commission in an SRM dated June 22, 1999; and second, the final rule on "Expand Applicability of Part 72 to Holders of, and Applicants for, Certificates of Compliance and Their Contractors and Subcontractors," forwarded to the Commission via SECY-99-174 on July 6, 1999. Specifically, changes to § 72.140 in this proposed rule are dependent on changes being made to § 72.140 in the "Expand Applicability of Part 72" rulemaking. Changes to § 72.13 in this proposed rule are dependent on new §§ 72.244, 72.246, and 72.248 that are being added in the "Changes, Tests, and Experiments" rulemaking. In addition, new §§ 72.240 and 72.242 are being added in the "Expand Applicability of Part 72" rulemaking. Therefore, the staff wishes to notify the Commission that these two final rules must be published in the Federal Register before publication of the attached proposed rule to avoid inconsistency in Part 72 requirements.

Ideally, the changes to Part 72 contained in the two final rules described above and this

proposed rule should come to the Commission as either a single rulemaking or sequentially to avoid any problems with publication and the potential for inconsistency among Part 72 requirements. However, the "Expand the Applicability of Part 72" rule and this proposed rule are part of a larger effort involving six rulemakings to update Part 72. Staff determined that the regulatory actions for this larger effort be accomplished as separate rulemakings, because of the complexity of the issues. Unfortunately, the various rulemakings are being tracked separately with the result that this rulemaking is now out of sequence with the other three rules.

RESOURCES:

Resources to complete this rulemaking are currently budgeted. Potential NMSS savings, resulting from implementation of this rule, will be addressed during development of the FY 2001 budget.

RECOMMENDATIONS:

That the Commission:

1. Approve publication in the Federal Register of the attached notice of proposed rulemaking (Attachment 2), allowing 75 days for public comment.
2. To satisfy the requirements of the Regulatory Flexibility Act, 5 U.S.C. 605 (b), certify that this rule, if promulgated, will not have significant impact on a substantial number of small entities. This certification is included in the attached Federal Register notice.
3. NOTE:
 - a. The appropriate Congressional Committees will be informed (Attachment 3);
 - b. A press release will be issued by the Office of Public Affairs when the proposed rulemaking is filed with the Office of the Federal Register (Attachment 4);
 - c. A table is attached to aid in specifying the sections in Part 72 that apply to general licensees, specific licensees, and certificate holders (Attachment 5);
 - d. The Chief Counsel for Advocacy of the Small Business Administration will be informed of the certification regarding economic impact on small entities and the reasons for it, as required by the Regulatory Flexibility Act.
 - e. The proposed rule contains amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501, et seq.) that must be submitted to OMB for its review and approval.

- f. This rule will be published in the Federal Register after publication of the final rules on “Changes, Tests, and Experiments” and “Expand Applicability of Part 72 to Holders of, and Applicants for, Certificates of Compliance and Their Contractors and Subcontractors.”

COORDINATION:

The Office of the General Counsel has no legal objection to the proposed rule. The Office of the Chief Financial Officer has reviewed the proposed rule for resource implications and has no objections. The Office of the Chief Information Officer has reviewed the Commission paper for information technology and information management implications and concurs in it.

William D. Travers
Executive Director
for Operations

- Attachments
1. SRM dated 7/17/98
 2. Federal Register Notice
 3. Congressional Letters
 4. Press Release
 5. Table of Applicability

July 17, 1998

MEMORANDUM TO: L. Joseph Callan
Executive Director for Operations

FROM: John C. Hoyle, Secretary /s/

SUBJECT: STAFF REQUIREMENTS - SECY-98-148 - RULEMAKING PLAN:
10 CFR PART 72 - CLARIFICATION AND ADDITION OF
FLEXIBILITY

This is to advise you that the Commission has not objected to the proposed rulemaking plan to amend Part 72. The staff should complete the rulemaking as expeditiously as possible while resources are available, particularly in light of the administrative nature of many of the changes.

cc: Chairman Jackson
Commissioner Diaz
Commissioner McGaffigan
OGC
CIO
CFO
OCA
OIG
Office Directors, Regions, ACRS, ACNW, ASLBP (via E-Mail)
PDR
DCS

NUCLEAR REGULATORY COMMISSION

10 CFR Part 72

RIN 3150-AG15

Clarification and Addition of Flexibility to Part 72

AGENCY: Nuclear Regulatory Commission.

ACTION: Proposed rule.

SUMMARY: The Nuclear Regulatory Commission (NRC) is proposing to amend its regulations on spent fuel storage to specify those sections of 10 CFR Part 72 that apply to general licensees, specific licensees, applicants for a specific license, certificate holders, and applicants for a certificate. The proposed amendment is consistent with past NRC staff licensing practice and would eliminate any ambiguity for these persons by clarifying which portions of Part 72 apply to their activities. This proposed rule would eliminate the necessity for repetitious Part 72 specific license hearing reviews of cask design issues that the Commission previously considered and resolved during approval of the cask design. This proposed rule would also allow an applicant for a Certificate of Compliance (CoC) to begin cask fabrication under an NRC-approved quality assurance (QA) program before the CoC is issued.

DATES: Submit comments by (Insert date 75 days after publication date). Comments received after this date will be considered if it is practical to do so, but the Commission is able to ensure

consideration only for comments received on or before this date.

ADDRESSES: Comments may be sent by mail to the Secretary, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, Attention: Rulemakings and Adjudications Staff.

Hand deliver comments to: 11555 Rockville Pike, Rockville, Maryland, between 7:30 am and 4:15 pm on Federal workdays.

You may also provide comments via the NRC's interactive rulemaking web site through the NRC home page (<http://www.nrc.gov>). This site provides the availability to upload comments as files (any format), if your web browser supports that function. For information about the interactive rulemaking site, contact Ms. Carol Gallagher (301) 415-5905; e-mail CAG@nrc.gov.

Certain documents related to this rulemaking, including comments received, the regulatory analysis, and a Table of Applicability, may be examined at the NRC Public Document Room, 2120 L Street NW. (Lower Level), Washington, DC. These same documents also may be viewed and downloaded electronically via the interactive rulemaking website established by NRC for this rulemaking.

FOR FURTHER INFORMATION CONTACT: Anthony DiPalo, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, telephone (301) 415-6191, or e-mail at AJD@nrc.gov.

SUPPLEMENTARY INFORMATION:

Background

The Commission's regulations at 10 CFR Part 72 were originally designed to provide specific licenses for the storage of spent nuclear fuel in an independent spent fuel storage installation (ISFSI) (45 FR 74693; November 12, 1980). In 1990, the Commission amended Part 72 to include a process for approving the design of spent fuel storage casks and issuing a CoC (Subpart L) and for granting a general license to reactor licensees (Subpart K) to use NRC-approved casks for the storage of spent nuclear fuel (55 FR 29181; August 17, 1990). Although the Commission intended that the requirements imposed in Subpart K for general licensees be used in addition to, rather than in lieu of, appropriate existing requirements, ambiguity exists as to which Part 72 requirements, other than those in Subpart K, are applicable to general licensees.

In addition, the Commission has identified two aspects of Part 72 where it would be desirable to reduce the regulatory burden and provide additional flexibility to applicants for a specific license or for a CoC.

First, the staff anticipates that the Commission may receive several applications for specific licenses for ISFSI's that will propose using storage cask designs previously approved by NRC under the provisions of Subpart L of Part 72 (i.e., cask designs that have been issued a CoC and are listed in § 72.214). Section 72.18, "Elimination of repetition," permits an applicant to incorporate by reference information contained in previous applications, statements, or reports filed with the NRC, including cask designs approved under Subpart L. Section 72.46 requires that in an application for a license under Part 72, the Commission shall issue or cause to be issued a notice of proposed action and opportunity for a license hearing in accordance

with 10 CFR Part 2. Under current Part 72 regulations, the adequacy of the design of these previously approved casks could be at issue during a § 72.46 license hearing for a specific license application (i.e., issues on the cask design which have been previously addressed by the Commission, including resolution of public comments, that could be the subject of license hearings).

Second, § 72.234(c), which was part of the 1990 amendments to Part 72, prohibits an applicant for a CoC from beginning fabrication of a spent fuel cask before the NRC issues a CoC for the cask design. However, an applicant for a specific license is currently allowed to begin fabrication of spent fuel storage casks before the license is issued. At the time the 1990 rule was proposed, a commenter suggested that a fabricator (i.e. applicant for a CoC) be allowed to take the risk of beginning fabrication before the receipt of the CoC. However, the Commission took the position, “[i]f a vendor has not received the certificate, then the vendor does not have the necessary approved specifications and may design and fabricate casks to meet incorrect criteria,” (FR 29185; August 17, 1990).

Since 1990, the Commission has reviewed and approved several cask designs. These reviews and follow-up requests for additional information have established the NRC’s expectation as to how its criteria for cask design and fabrication should be met. In January 1997, the NRC published NUREG-1536, “Standard Review Plan for Dry Cask Storage Systems,” informing CoC applicants of its expectations in reviewing cask designs. Since then, the Commission has granted six exemptions from § 72.234(c) allowing applicants to begin fabrication prior to issuance of the CoC. One exemption request is currently under review by NRC. Additional exemption requests from § 72.234(c) requirements are anticipated.

Discussion

Clarification:

This proposed rulemaking would eliminate the regulatory uncertainty that now exists in Part 72 by adding a new section § 72.13 which specifies which Part 72 regulations apply to general licensees, specific licensees, applicants for a specific license, certificate holders, and applicants for a CoC.

Flexibility:

First, this proposed rule would eliminate the necessity for repetitious § 72.46 specific license hearing board reviews of cask design issues that the Commission has previously considered during approval of the cask design. The Commission anticipates receipt of several applications, for specific ISFSI licenses, that will propose using storage cask designs previously approved by the NRC. Applicants for a specific license presently have the authority under § 72.18 to incorporate by reference into their application, information contained in previous applications, statements, or reports filed with the Commission, including information from the Safety Analysis Report on a cask design previously approved by the NRC under the provisions of Subpart L. The Commission believes previously reviewed cask design issues should be excluded from the scope of a license hearing. This is because the public had the right during the Subpart L approval process to comment on the adequacy of the cask design. The right of the public to comment on cask designs would not be affected by this rulemaking. For new cask design issues, this rulemaking would not limit the scope of staff's review of the application or of license hearings. For example, a cask's previously reviewed and approved thermal, criticality, and structural designs could not be raised as issues in a licensing hearing. However, design

interface issues between the approved cask design and specific site characteristics (e.g., meteorological, seismological, radiological, and hydrological) or changes to the cask's approved design may be raised as issues at a potential hearing. Furthermore, the rights of the public to petition the Commission under § 2.206 to raise new safety issues on the adequacy of the cask design would not be affected by this rulemaking.

Second, the proposed rule would permit an applicant for approval of a spent fuel storage cask design under Subpart L to begin fabrication of casks before the NRC has approved the cask design and issued the CoC. Currently, an applicant for a CoC is not permitted under § 72.234(c) to begin cask fabrication until after the CoC is issued. Applicants for a specific license, and their contractors, are currently allowed to begin fabrication of casks before the Commission issues their license. However, general licensees and their contractors (i.e, the certificate holder) are not allowed to begin fabrication before the CoC is issued. Consequently, this proposed rule would eliminate NRC's disparate treatment between general and specific licensees. In addition to allowing an applicant for a CoC to begin fabrication of a cask, comments would be requested on the need for a general licensee to also begin fabrication of a cask before issuance of the CoC. The Commission and the staff have previously determined that exemptions from the fabrication prohibition are authorized by law and do not endanger life or property, the common defense, or security and are otherwise in the public interest. The Commission anticipates that additional cask designs will be submitted to the NRC for approval and expects that these designs will be similar in nature to those cask designs that have already been approved. The Commission also expects that exemption requests to permit fabrication would also be received. This rulemaking would eliminate the need for such exemption requests.

This proposed rule would revise the quality assurance regulations in Subpart G of Part 72 to require that an applicant for a CoC, who voluntarily wishes to begin cask fabrication, must

conduct cask fabrication under an NRC-approved QA program. Currently, applicants for a CoC are required by § 72.234(b) to conduct design, fabrication, testing, and maintenance activities under a QA program that meet the requirements of Subpart G. Prior NRC approval of the applicant's QA program is not required by § 72.234(b). However, § 72.234(c) precludes cask fabrication until after the CoC is issued. The Commission believes this proposed rule is a conditional relaxation to permit fabrication before the CoC is issued. Since NRC staff would approve the applicant's QA program as part of issuance of a CoC, staff approval of the QA program prior to fabrication is a question of timing (e.g., when the program is approved, as opposed to imposing a new requirement for approval of a program). The Commission expects that any financial or scheduler risks associated with fabrication of casks prior to issuance of the CoC would be borne by the applicant. The Commission believes that the proposed rule is not a backfit because § 72.62 applies to licensees after the license is issued and does not apply to applicants prior to issuance of the license or CoC. This rule would require that a cask for which fabrication was initiated before issuance of the CoC must conform to the issued CoC before it may be used.

This proposed rule would also require an applicant for a specific license, who voluntarily wishes to begin fabrication of casks before the license is issued, to conduct fabrication under an NRC-approved QA program. Currently, an applicant for a specific license is required by § 72.140(c) to obtain NRC approval of its QA program before spent fuel is loaded into the ISFSI. The Commission does not believe this proposed rule would impose a separate requirement, rather it would require different timing on when the QA program is approved.

This proposed rule would also revise § 72.140(d) to allow a licensee, applicant for a license, certificate holder, and applicant for a CoC to use an existing Part 50, 71, or 72 QA program that was previously approved by the NRC.

As a result of this proposed rule, both licensees and certificate holders will be required

to accomplish any fabrication activities under an NRC-approved QA program. The Commission believes this proposed rule's increase in flexibility and change in timing of approval of a QA program is not a backfit.

In addition to an applicant's fabrication of a cask design prior to issuance of the CoC, the Commission is requesting comments on the need for a general licensee to also begin fabrication of a cask design, before the cask design is approved and the CoC is issued.

Section by Section Discussion of Proposed Amendments

This proposed rule would make several amendment changes to Part 72 which are characterized as follows. This proposed rule would eliminate the regulatory uncertainty that now exists in Part 72 and explicitly specifies which regulations apply to general licensees, specific licensees, and certificate holders. The proposed rule would eliminate the necessity for repetitious reviews in a specific license hearing of cask design issues that the Commission previously considered during approval of the cask design. The proposed rule would permit an applicant for approval of a spent fuel storage cask design to begin cask fabrication, at its own risk, before the NRC has issued the CoC. The proposed rule would require that NRC approval of the quality assurance program be obtained before cask fabrication can commence.

§ 72.13 Applicability.

This new section identifies those sections of Part 72 that apply to specific licenses, general licenses, and Certificates of Compliance. No changes to the underlying regulations would result from this amendment, it is intended for clarification only.

§ 72.46 Public hearings.

A new paragraph (e) would be added to this section to indicate that the scope of any license hearing, for an application for an ISFSI license, shall not include any issues that were previously resolved by the Commission during the approval process of the design of a spent fuel storage cask, when the application incorporates by reference, information on the design of an NRC-approved spent fuel storage cask. The Commission considers rereview of cask design issues, which have been previously resolved as an unnecessary regulatory burden on applicants causing unnecessary expenditure of staff and hearing board resources. For example, the cask's previously reviewed and approved thermal, criticality, and structural designs could not be raised as issues in a hearing. However, design interface issues between the approved cask design and specific site characteristics (e.g., meteorological, seismological, radiological, and hydrological) or changes to the cask's approved design may be raised as issues at a potential hearing.

This proposed rulemaking would not limit the scope of staff's review of the application or of license hearings, for new cask design issues that were not considered by the Commission during previous approval of the cask design. In addition, the rights of the public to petition the Commission under § 2.206 to raise new safety issues on the adequacy of the cask design would not be affected by this rulemaking.

§ 72.86 Criminal penalties.

Paragraph (b) of this section lists those Part 72 regulations for which criminal sanctions may not be issued, because the Commission considers these sections to be non-substantive regulations issued under the provisions of § 161(b), (i), or (o) of the *Atomic Energy Act of 1954* (AEA).

Substantive regulations are those regulations that create duties, obligations, conditions,

restrictions, limitations, and prohibitions (see final rule on “Clarification of Statutory Authority for Purposes of Criminal Enforcement” (57 FR 55062; November 24, 1992)). The Commission considers that the new § 72.13 would not be a substantive regulation, issued under the provisions of § 161(b), (i), or (o) of the AEA. Therefore, paragraph (b) of this section would be revised to add § 72.13 to indicate that willful violations of this new section would not be subject to criminal penalties.

§ 72.140 Quality assurance requirements.

Paragraph (c)(1) would be revised to add applicants for a specific license and applicants for a CoC. Paragraph (c)(2) would be revised to add the requirement that an applicant for a specific license shall obtain NRC-approval of its QA program before beginning fabrication or testing of a spent fuel storage cask. Paragraph (c)(3) would be revised to indicate that an applicant for a CoC shall obtain NRC-approval of its QA program requirement before beginning fabrication or testing of a spent fuel storage cask. These revisions would result in consistent treatment of general licensees, specific licensees, applicants for a specific license, certificate holders, and applicants for a CoC. These revisions would also ensure that the NRC has reviewed and approved a QA program before commencement of any fabrication or testing activities.

Paragraph (d) would be revised to clarify the use of previously approved QA programs by a licensee, applicant for a license, certificate holder, and applicant for a CoC. The Commission expects these persons to notify the NRC of their intent to use a QA program previously approved by the NRC under the provisions of Parts 50, 71, or 72.

§ 72.234 Conditions of approval.

Paragraph (c) of this section would be revised to permit an applicant for a CoC to begin fabrication of spent fuel storage casks (under an NRC-approved QA program), at the applicant's own risk, before the NRC issues the CoC. The Commission expects that any risks associated with fabrication (e.g., rewelding, reinspection, or even abandonment of the cask) would be borne by the applicant. The NRC would also require that a cask fabricated before the CoC was issued conform to the issued CoC before spent fuel is loaded. Requiring an applicant to conform a fabricated cask to the issued CoC would not be subject to the backfit review provisions of § 72.62.

§ 72.236 Specific requirements for spent fuel storage cask approval.

The introductory text in this section before paragraph (a) would be revised as a conforming change to § 72.234(c) to indicate that all of the requirements in this section apply to both certificate holders and applicants for a CoC.

Criminal Penalties

For the purposes of Section 223 of the Atomic Energy Act (AEA), the Commission is issuing the proposed rule to amend 10 CFR 72.140, 72.234, and 72.236 under one or more of Sections 161b, 161i, or 161o of the AEA. Willful violations of the rule would be subject to criminal enforcement.

Agreement State Compatibility

Under the "Policy Statement on Adequacy and Compatibility of Agreement State

Programs" approved by the Commission on June 30, 1997, and published in the Federal Register on September 3, 1997 (62 FR 46517), this proposed rule is classified as Category NRC. Compatibility is not required for Category NRC regulations. The NRC program elements in this category are those that relate directly to areas of regulation reserved to the NRC by the AEA or the provisions of Title 10 of the Code of Federal Regulations.

Plain Language

The Presidential Memorandum dated June 1, 1998, entitled, "Plain Language in Government Writing," directed that the government's writing be in plain language. The NRC requests comments on this proposed rule specifically with respect to the clarity and effectiveness of the language used. Comments should be sent to the address listed under the heading "ADDRESSES" above.

Voluntary Consensus Standards

The *National Technology Transfer Act of 1995*, (Pub. L. 104-113), requires that Federal agencies use technical standards that are developed or adopted by voluntary consensus standards bodies unless the use of such a standard is inconsistent with applicable law or otherwise impractical. The NRC is proposing to amend its regulations on spent fuel storage in those sections of 10 CFR Part 72 that apply to general licensees, specific licensees, applicants

for a specific license, certificate holders, and applicants for a certificate. This proposed rule would eliminate the necessity for repetitious Part 72 specific license hearing reviews of cask design issues that the Commission previously considered and resolved during approval of the cask design. This proposed rule would also allow an applicant for a Certificate of Compliance (CoC) to begin cask fabrication before the CoC is issued. This action does not constitute the establishment of a standard that establishes generally applicable requirements.

Environmental Impact: Categorical Exclusion

The NRC has determined that this proposed rule is the type of action described in the categorical exclusion in 10 CFR 51.22(c)(2) and (3). Therefore, neither an environmental impact statement nor an environmental assessment has been prepared for this proposed rule.

Paperwork Reduction Act Statement

This proposed rule would decrease the burden on licensees by eliminating the requirement to request an exemption to begin cask design before a license is issued, and by allowing all licensees and CoC holders to reference previously approved QA programs. The public burden reduction for this information collection would average 200 hours per exemption request. However, because no burden has previously been approved for exemption requests and no licensees are expected to reference previously approved QA programs in the foreseeable future, no burden reduction can be taken for this rulemaking. Existing requirements were approved by the Office of Management and Budget, approval number 3150-0132.

Public Protection Notification

If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

Regulatory Analysis

Statement of the Problem and Objective:

The Commission's regulations at 10 CFR Part 72 were originally designed to provide specific licenses for the storage of spent nuclear fuel in independent spent fuel storage installations (ISFSIs) (45 FR 74693; November 12, 1980). In 1990, the Commission amended Part 72 to include a process for approving the design of spent fuel storage casks and issuance of a CoC (Subpart L); and for granting a general license to reactor licensees (Subpart K) to use NRC-approved casks for storage of spent nuclear fuel (55 FR 29181; August 17, 1990). Although the Commission intended that the requirements imposed in Subpart K for general licensees be used in addition to, rather than in lieu of, appropriate existing requirements, ambiguity exists as to which of the Part 72 requirements, other than those in Subpart K, are applicable to general licensees. This rulemaking would resolve that ambiguity.

In addition, the Commission has identified two aspects of Part 72 where it would be desirable to reduce the regulatory burden for applicants, NRC staff, and hearing boards and to afford additional flexibility to applicants for a CoC:

First, this proposed rule would eliminate the necessity for repetitious reviews, during a Part 72 specific license hearing (§ 72.46), of cask design issues that the Commission has previously considered during approval of the cask design. The Commission anticipates receipt

of several applications, for specific ISFSI licenses, that will propose using storage cask designs previously approved by the NRC. Applicants for a specific license presently have the authority under § 72.18 to incorporate by reference into their application, information contained in previous applications, statements, or reports filed with the Commission, including information from the Safety Analysis Report for a cask design previously approved by the NRC under the provisions of Subpart L. The Commission believes previously reviewed cask design issues should be excluded from the scope of a license hearing. This is because the public had the right to question the adequacy of the cask design, during the approval process under Subpart L. The right of the public to comment on cask designs would not be affected by this rulemaking. For new cask design issues, this rulemaking would not limit the scope of staff's review of the application or of license hearings. For example, a cask's previously reviewed and approved thermal, criticality, and structural designs could not be raised as issues in a hearing. However, design interface issues between the approved cask design and specific site characteristics (e.g., meteorological, seismological, radiological, and hydrological) or changes to the cask's approved design may be raised as issues at a potential hearing. In addition, the rights of the public to petition the Commission under § 2.206 to raise new safety issues on the adequacy of the cask design would not be affected by this rulemaking.

Second, the proposed rule would permit an applicant for approval of a spent fuel storage cask design under Subpart L to begin fabrication of casks before the NRC has approved the cask design and issued the CoC. Currently, an applicant for a CoC is not permitted under § 72.234(c) to begin cask fabrication until after the CoC is issued. Applicants for a specific license, and their contractors, are currently allowed to begin fabrication of casks before the Commission issues their license. However, general licensees and their contractors (i.e, the certificate holder) are not allowed to begin fabrication before the CoC is issued. Consequently, this proposed rule would eliminate NRC's disparate treatment between general and specific

licensees. In addition to allowing an applicant for a CoC to begin fabrication of a cask prior to issuance of the CoC, comments would be requested on the need for a general licensee to also begin fabrication of a cask before the CoC is issued. The Commission and the staff have previously determined that exemptions from the fabrication prohibition are authorized by law and do not endanger life or property, the common defense, or security and are otherwise in the public interest. The Commission anticipates that additional cask designs will be submitted to the NRC for approval and expects that these designs will be similar in nature to those cask designs that have already been approved. The Commission also expects that exemption requests to permit fabrication would also be received. Therefore, this rulemaking would eliminate the need for such exemption requests.

This proposed rule would revise the quality assurance regulations in Subpart G of Part 72 to require that an applicant for a CoC, who voluntarily wishes to begin cask fabrication, must conduct cask fabrication under an NRC-approved QA program. Currently, applicants for a CoC are required by § 72.234(b) to conduct design, fabrication, testing, and maintenance activities under a QA program that meets the requirements of Subpart G. Prior NRC approval of the applicant's QA program is not required by § 72.234(b). However, § 72.234(c) precludes cask fabrication until after the CoC is issued. The Commission believes this proposed rule is a conditional relaxation to permit fabrication before the CoC is issued. Since NRC staff would approve the applicant's QA program as part of issuance of a CoC, staff approval of the QA program prior to fabrication is a question of timing (e.g., when the program is approved, as opposed to imposing a new requirement for approval of a program). The Commission expects that any financial or scheduler risks associated with fabrication of casks prior to issuance of the CoC would be borne by the applicant. The Commission believes that the proposed rule is not a backfit because § 72.62 applies to licensees after the license is issued and does not apply to applicants prior to issuance of the license or CoC. This rule would require that a cask for which

fabrication was initiated before issuance of the CoC must conform to the issued CoC before it may be used.

This proposed rule would also require an applicant for a specific license, who voluntarily wishes to begin fabrication of casks before the license is issued, to conduct fabrication under an NRC-approved QA program. Currently, an applicant for a specific license is required by § 72.140(c) to obtain NRC approval of its QA program before spent fuel is loaded into the ISFSI. The Commission does not believe this proposed rule would impose a separate requirement, rather it would require different timing on when the QA program is approved.

This proposed rule would also revise § 72.140(d) to allow a licensee, applicant for a license, certificate holder, and applicant for a CoC to use an existing Part 50, 71, or 72 QA program that was previously approved by the NRC.

As a result of this proposed rule both licensees and certificate holders will be required to accomplish any fabrication activities under an NRC-approved QA program. The Commission believes this proposed rule's increase in flexibility and change in timing of approval of a QA program is not a backfit.

The Commission expects that any risks associated with fabrication (e.g., rewelding, reinspection, or even abandonment of the cask) would be borne by the applicant. In particular, the staff would require that a cask, which was fabricated before the CoC was issued, must conform with the issued CoC. Requiring an applicant to conform a fabricated cask to the issued CoC would not be subject to the backfit review provisions of § 72.62.

Identification and Preliminary Analysis of Alternative Approaches to the Problem:

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

First, this proposed rulemaking would specify the sections in Part 72 that apply to general licensees, specific licensees, and certificate holders. This would eliminate the need to resolve on a case-by-case basis questions on which Part 72 sections are applicable to those activities. The proposed rule is administrative in nature and other than the cost of rulemaking, would have no impact.

Second, this rulemaking would reduce the regulatory burden on applicants, staff, and hearing board resources relating to any § 72.46 license hearings involving cask design issues associated with an application for a specific license, where the cask design has been previously approved by the NRC. Elimination of the need for repetitious reviews of cask design issues and licensing hearings on these same cask design issues together would save 1.0 FTE of applicant effort and 1.0 FTE of staff effort for each license application received. NRC expects to receive three applications in 1999 and six applications each year in 2000 and 2001. While applicants for a license are currently allowed to incorporate by reference information on cask design information, this rulemaking would reduce applicant burden associated with providing additional information on the cask design and responding to hearing board contentions on issues which have been previously reviewed.

Third, this rulemaking would also provide increased flexibility to applicants for a CoC by allowing them to begin cask fabrication, before the CoC is issued. This rulemaking would reduce the burden on applicants for a CoC associated with

submission of requests for exemption from § 72.234(c). Certificate holders have requested these exemptions to take advantage of favorable business conditions (i.e., they want to begin fabrication of casks as soon as possible to meet their contract obligations). Elimination of the need for submission and review of exemption requests from the cask fabrication requirement of § 72.234(c) would save 0.1 FTE of applicant effort and 0.1 FTE of staff effort, for each exemption request not received. Without this action, NRC expects that two requests for exemption from § 72.234(c) would be received each year in 1999 and beyond. This rulemaking would also eliminate the disparate treatment of general and specific licensees under Part 72, with respect to fabrication of spent fuel storage casks. This rulemaking would also reduce staff burden associated with review of such exemption requests. Because a certificate holder is currently required by § 72.140(c)(3) to obtain NRC approval of its QA program before commencing fabrication, and the staff is currently required to review and approve such programs, no increase in applicant burden or staff resources would occur with respect to the proposed change to § 72.140(c)(3). However, the timing of the staff review and approval of the QA program would change.

The impact of this option consists primarily of a reduction in regulatory burden on an applicant for a specific license, a reduction in regulatory burden and increase in regulatory flexibility for an applicant for a cask design, and a reduction in the expenditure of NRC resources involved in reviewing applications for a specific license, supporting license hearings, and reviewing requests for exemption from § 72.234(c). This option would result in the expenditure of NRC resources to conduct this rulemaking.

- *Option 2 - No action.*

The benefit of the no action alternative is that NRC resources will be conserved because no rulemaking would be conducted. The impact of this alternative would be that the regulatory problems described above would not be addressed. Instead, applicant and staff resources will continue to be expended on repetitious reviews of previously approved cask designs, conducting licensing hearings on previously approved cask design issues, and processing requests for exemption from § 72.234(c), to allow fabrication of casks.

Estimation and Evaluation of Values and Impacts:

The clarification of which Part 72 sections apply to specific licensees, applicants for a specific license, general licensees, certificate holders, and applicants for a CoC alone would have no impacts other than the cost of rulemaking, because this action is administrative in nature.

The elimination of the need for repetitious reviews of cask design issues, that were previously reviewed by the NRC, and elimination of licensing hearings on these same cask design issues together would save 1.0 FTE of applicant effort and 1.0 FTE of staff effort for each license application received. NRC expects to receive three applications in 1999 and six applications each year in 2000 and 2001.

The elimination of the need for submission and review of exemption requests from the cask fabrication requirement of § 72.234(c) would save 0.1 FTE of applicant effort and 0.1 FTE of staff effort, for each exemption request not received. Without this action, NRC expects that two requests for exemption from § 72.234(c) would be received each year in 1999 and beyond.

Presentation of Results:

The recommended action is to adopt the first option because it will set forth a clear regulatory base for Part 72 general licensees, specific licensees, applicants for a specific license, certificate holders, and applicants for a CoC.

The recommended action would eliminate the need for repetitious license hearing adjudication of cask design issues that the Commission has previously reviewed in approving the cask design, when an applicant for a specific license has incorporated by reference a cask design that has been approved by the Commission under the provisions of Subpart L. This is because the public had the right to question the adequacy of the cask design during the approval process under Subpart L. The right of the public to comment on cask designs would not be affected by this rulemaking. This rulemaking would not limit the scope of staff's review of the application or license hearings for issues which were not considered by the Commission during previous approval of the cask design. In addition, the rights of the public to petition the Commission under § 2.206 to raise new safety issues on the adequacy of the cask design would not be affected by this rulemaking. The Commission considers rereview of cask design issues which have been previously evaluated and dispositioned as an unnecessary regulatory burden on applicants and an unnecessary expenditure of staff and hearing board resources. For example, the cask's previously reviewed and approved thermal, criticality, and structural designs could not be raised as issues in a hearing. However, design interface issues between the approved cask design and specific site characteristics (e.g., meteorological, seismological, radiological, and hydrological) or changes to the cask's approved design may be raised as issues at a potential hearing. Therefore, this action has no safety impact.

The recommended action would permit an applicant for approval of a spent fuel storage cask design under Subpart L to begin fabrication of casks before the NRC has approved the cask design and issued the CoC. Currently, an applicant for a CoC is not permitted under

§ 72.234(c) to begin cask fabrication until after the CoC is issued. Applicants for a specific license, and their contractors, are currently allowed to begin fabrication of casks before the Commission issues their license. However, general licensees and their contractors (i.e, the certificate holder) are not allowed to begin fabrication before the CoC is issued. Consequently, this proposed rule would eliminate NRC's disparate treatment between general and specific licensees. In addition to allowing an applicant for a CoC to begin fabrication of a cask prior to issuance of the CoC, comments would be requested on the need for a general licensee to also begin fabrication of a cask before the CoC is issued. The Commission and the staff have previously determined that exemptions from the fabrication prohibition are authorized by law and do not endanger life or property, the common defense, or security and are otherwise in the public interest. The Commission anticipates that additional cask designs will be submitted to the NRC for approval and expects that these designs will be similar in nature to those cask designs that have already been approved. The Commission also expects that exemption requests to permit fabrication would also be received. Therefore, this rulemaking would eliminate the need for such exemption requests.

This proposed rule would revise the quality assurance regulations in Subpart G of Part 72 to require that an applicant for a CoC, who voluntarily wishes to begin cask fabrication, must conduct cask fabrication under an NRC-approved QA program. Currently, applicants for a CoC are required by § 72.234(b) to conduct design, fabrication, testing, and maintenance activities under a QA program that meet the requirements of Subpart G. Prior NRC approval of the applicant's QA program is not required by § 72.234(b). However, § 72.234(c) precludes cask fabrication until after the CoC is issued. The Commission believes this proposed rule is a conditional relaxation to permit fabrication before the CoC is issued. Since NRC staff would approve the applicant's QA program as part of issuance of a CoC, staff approval of the QA program prior to fabrication is a question of timing (e.g., when the program is approved, as

opposed to imposing a new requirement for approval of a program). The Commission expects that any financial or scheduler risks associated with fabrication of casks prior to issuance of the CoC would be borne by the applicant. The Commission believes that the proposed rule is not a backfit because § 72.62 applies to licensees after the license is issued and does not apply to applicants prior to issuance of the license or CoC. This rule would require that a cask for which fabrication was initiated before issuance of the CoC must conform to the issued CoC before it may be used.

This proposed rule would also require an applicant for a specific license, who voluntarily wishes to begin fabrication of casks before the license is issued, to conduct fabrication under an NRC-approved QA program. Currently, an applicant for a specific license is required by § 72.140(c) to obtain NRC approval of its QA program before spent fuel is loaded into the ISFSI. The Commission does not believe this proposed rule would impose a separate requirement, rather it would require different timing on when the QA program is approved.

This proposed rule would also revise § 72.140(d) to allow a licensee, applicant for a license, certificate holder, and applicant for a CoC to use an existing Part 50, 71, or 72 QA program that was previously approved by the NRC.

As a result of this proposed rule, both licensees and certificate holders will be required to conduct any fabrication activities under an NRC-approved QA program. The Commission believes this proposed rule's increase in flexibility and change in timing of approval of a QA program is not a backfit. Therefore, these actions have no safety impact.

The Commission expects that any risks associated with fabrication (e.g., rewelding, reinspection, or even abandonment of the cask) would be borne by the applicant. In particular, the staff would require that a cask, which was fabricated before the CoC was issued, must conform with the issued CoC. Requiring an applicant to conform a fabricated cask to the issued CoC would not be subject to the backfit review provisions of § 72.62.

The total cost of this rulemaking to the NRC is estimated at 1.9 FTE. The total savings to the NRC for this rulemaking is estimated at 16.5 FTE over a 3-year period (1999 through 2001). The total savings to applicants is estimated at 15.0 FTE over the same 3-year period. Therefore, this action would be considered cost beneficial to both NRC and applicants, would reduce the burden on applicants, and would improve the efficiency and effectiveness of the NRC. Consequently, the Commission believes public confidence in the safe storage of spent fuel at independent spent fuel storage installations would not be adversely affected by this rulemaking.

Decision Rationale:

The rationale is to proceed with this proposed rulemaking implementing the Commission approved rulemaking plan. This rulemaking would save both staff and applicant resources as discussed above.

The clarification of the provisions of Part 72 and their application to general licensees, specific licensees, applicants for a specific license, certificate holders, and applicants for a CoC is administrative in nature and would have no safety impacts.

The elimination of the need for repetitious license hearings on cask design issues, that the NRC has previously reviewed and approved, in an application for a specific license would have no safety impacts. The public's right to comment on cask design issues, through the Subpart L cask approval process, will remain unchanged.

The flexibility to begin fabrication cask fabrication before the NRC issues the CoC, when combined with the requirement that cask fabrication must be performed under an NRC-approved QA program, would have no safety impacts.

Regulatory Flexibility Certification

As required by the Regulatory Flexibility Act (5 U.S.C. 605(b)), the Commission certifies that this proposed rule, if adopted, would not have a significant economic impact on a substantial number of small entities. This proposed rule would clearly specify which sections of Part 72 apply to general licensees, specific licensees, applicants for a specific license, certificate holders, and applicants for a certificate and allow these persons to determine which Part 72 regulations apply to their activity. This clarification will eliminate the ambiguity that now exists. This proposed rule would also eliminate the need for repetitious license-hearing reviews of cask design issues, that were previously reviewed and approved by the NRC, when the applicant for a specific license incorporates by reference information on a cask design that was previously approved by the NRC. Finally, this proposed rule would allow applicants for a CoC to begin fabrication of a cask design before the NRC has issued a CoC. Applicants desiring to begin fabrication shall use an NRC-approval QA program. The requirement to obtain NRC-approval of the applicant's QA program is not considered an additional burden. An applicant who has been issued a CoC, and is then considered a certificate holder, is currently required by § 72.140(c)(2) to obtain NRC-approval before fabrication or testing is commenced; consequently, no actual increase in burden occurs. Similarly, an applicant for a license is currently required to obtain NRC-approval prior to receipt of spent fuel or high-level waste; consequently, no actual increase in burden occurs. This proposed rule does not impose any additional obligations on entities that may fall within the definition of "small entities" as set forth in Section 601(6) of the Regulatory Flexibility Act; or within the definition of "small business" as found in Section 3 of the Small Business Act, 15 U.S.C. 632; or within the size standards adopted by the NRC on April 11, 1985 (60 FR 18344).

Backfit Analysis

The NRC has determined that the backfit rule, § 72.62, does not apply to this proposed rule. Because these amendments would not involve any provisions that would impose backfits as defined in § 72.62(a), a backfit analysis is not required.

List of Subjects in 10 CFR Part 72

Criminal penalties, Manpower training programs, Nuclear materials, Occupational safety and health, Reporting and recordkeeping requirements, Security measures, Spent fuel.

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 Part 72.

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

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

AUTHORITY: Secs. 51, 53, 57, 62, 63, 65, 69, 81, 161, 182, 183, 184, 186, 187, 189, 68 Stat. 929, 930, 932, 934, 935, 948, 953, 954, 955, as amended, sec. 234, 83 Stat. 444, as amended (42 U.S.C. 2071, 2073, 2077, 2092, 2093, 2095, 2099, 2111, 2201, 2232, 2233, 2234, 2236, 2237, 2238, 2282); sec. 274, Pub. L. 86-373, 73 Stat. 688, as amended (42 U.S.C. 2021); sec. 201, as amended, 202, 206, 88 Stat. 1242, as amended, 1244, 1246 (42 U.S.C. 5841, 5842, 5846); Pub. L. 95-601, sec. 10, 92 Stat. 2951 as amended by Pub. L. 102-486,

sec. 7902, 106 Stat. 3123 (42 U.S.C. 5851); sec. 102, Pub. L. 91-190, 83 Stat. 853 (42 U.S.C. 4332); Secs. 131, 132, 133, 135, 137, 141, Pub. L. 97-425, 96 Stat. 2229, 2230, 2232, 2241, sec. 148, Pub. L. 100-203, 101 Stat. 1330-235 (42 U.S.C. 10151, 10152, 10153, 10155, 10157, 10161, 10168).

Section 72.44(g) also issued under secs. 142(b) and 148(c), (d), Pub. L. 100-203, 101 Stat. 1330-232, 1330-236 (42 U.S.C. 10162(b), 10168(c), (d)). Section 72.46 also issued under sec. 189, 68 Stat. 955 (42 U.S.C. 2239); sec. 134, Pub. L. 97-425, 96 Stat. 2230 (42 U.S.C. 10154). Section 72.96(d) also issued under sec. 145(g), Pub. L. 100-203, 101 Stat. 1330-235 (42 U.S.C. 10165(g)). Subpart J also issued under secs. 2(2), 2(15), 2(19), 117(a), 141(h), Pub. L. 97-425, 96 Stat. 2202, 2203, 2204, 2222, 2224 (42 U.S.C. 10101, 10137(a), 10161(h)). Subparts K and L are also issued under sec. 133, 98 Stat. 2230 (42 U.S.C. 10153) and sec. 218(a), 96 Stat. 2252 (42 U.S.C. 10198).

2. Section 72.13 is added to read as follows:

§ 72.13 Applicability.

(a) This section identifies those sections, under this part, that apply to the activities associated with a specific license, a general license, or a certificate of compliance.

(b) The following sections apply to activities associated with a specific license: §§ 72.1; 72.2(a) through (e); 72.3 through 72.13(b); 72.16 through 72.34; 72.40 through 72.62; 72.70 through 72.86; 72.90 through 72.108; 72.120 through 72.130; 72.140 through 72.176; 72.180 through 72.186; 72.190 through 72.194; and 72.200 through 72.206.

(c) The following sections apply to activities associated with a general license: §§ 72.1; 72.2(a)(1), (b), (c), and (e); 72.3 through 72.6(c)(1); 72.7 through 72.13(a) and (c); 72.30(c) and (d); 72.32(c) and 72.32(d); 72.44(b), (d), (e), and (f); 72.48; 72.50(a); 72.52; 72.54(d) through

(m); 72.60; 72.62; 72.72 through 72.80(f); 72.82 through 72.86; 72.104; 72.106; 72.122; 72.124; 72.126; 72.140 through 72.176; 72.190 through 72.194; 72.210; 72.212; and 72.216 through 72.220.

(d) The following sections apply to activities associated with a certificate of compliance: §§ 72.1; 72.2(e) and (f); 72.3; 72.4; 72.5; 72.7; 72.9 through 72.13(a) and (d); 72.48; 72.84(a); 72.86; 72.124; 72.140 through 72.176; 72.214; and 72.230 through 72.248.

3. In § 72.46, paragraph (e) is added to read as follows:

§ 72.46 Public hearings.

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(e) If an application for (or an amendment to) a specific license issued under this part incorporates by reference information on the design of an NRC-approved spent fuel storage cask, the scope of any public hearing held to consider the application will not include any cask design issues previously addressed by the Commission when it issued a Certificate of Compliance under subpart L of this part.

4. In § 72.86, paragraph (b) is revised to read as follows:

§ 72.86 Criminal penalties.

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(b) The regulations in Part 72 that are not issued under sections 161b, 161i, or 161o for the purposes of section 223 are as follows: §§ 72.1, 72.2, 72.3, 72.4, 72.5, 72.7, 72.8, 72.9, 72.13, 72.16, 72.18, 72.20, 72.22, 72.24, 72.26, 72.28, 72.32, 72.34, 72.40, 72.46, 72.56, 72.58, 72.60, 72.62, 72.84, 72.86, 72.90, 72.96, 72.108, 72.120, 72.122, 72.124, 72.126,

72.128, 72.130, 72.182, 72.194, 72.200, 72.202, 72.204, 72.206, 72.210, 72.214, 72.220, 72.230, 72.238, and 72.240.

5. In § 72.140, paragraphs (c) and (d) are revised to read as follows:

§ 72.140 Quality assurance requirements.

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(c) Approval of program:

(1) Each licensee, applicant for a license, certificate holder, or applicant for a CoC shall file a description of its quality assurance program, including a discussion of which requirements of this subpart are applicable and how they will be satisfied, in accordance with § 72.4.

(2) Each licensee shall obtain Commission approval of its quality assurance program prior to receipt of spent fuel at the ISFSI or spent fuel and high-level radioactive waste at the MRS. Each licensee or applicant for a specific license shall obtain Commission approval of its quality assurance program prior to commencing fabrication or testing of a spent fuel storage cask.

(3) Each certificate holder or applicant for a CoC shall obtain Commission approval of its quality assurance program prior to commencing fabrication or testing of a spent fuel storage cask.

(d) Previously approved programs. A quality assurance program previously approved by the Commission as satisfying the requirements of Appendix B to part 50 of this chapter, subpart H to part 71 of this chapter, or subpart G to this part will be accepted as satisfying the requirements of paragraph (b) of this section, except that a licensee, applicant for a license, certificate holder, and applicant for a CoC who is using an Appendix B or subpart H quality assurance program shall also meet the recordkeeping requirements of § 72.174. In filing the

description of the quality assurance program required by paragraph (c) of this section, each licensee, applicant for a license, certificate holder, and applicant for a CoC shall notify the NRC, in accordance with § 72.4, of its intent to apply its previously approved quality assurance program to ISFSI activities or spent fuel storage cask activities. The notification shall identify the previously approved quality assurance program by date of submittal to the Commission, docket number, and date of Commission approval.

6. In § 72.234, paragraph (c) is revised to read as follows:

§ 72.234 Conditions of approval.

e. ★ ★ ★ ★

(c) An applicant for a CoC may begin fabrication of spent fuel storage casks before the Commission issues a CoC for the cask; however, applicants who begin fabrication of casks without a CoC do so at their own risk. A cask fabricated before the CoC is issued shall be made to conform to the issued CoC prior to being placed in service or prior to spent fuel being loaded.

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7. Section 72.236 is revised to read as follows:

§ 72.236 Specific requirements for spent fuel storage cask approval.

The certificate holder and applicant for a CoC shall ensure that the requirements of this section are met.

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Dated at Rockville, Maryland, this _____ day of _____, 1999.

For the Nuclear Regulatory Commission.

Annette L. Vietti-Cook,
Secretary of the Commission.

The Commissioners

37

The Honorable James M. Inhofe, Chairman
Subcommittee on Clean Air, Wetlands,
Private Property and Nuclear Safety
Committee on Environment and Public Works
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

Enclosed for the information of the Subcommittee is a copy of a Notice of Proposed Rulemaking to be published shortly in the Federal Register. The U.S. Nuclear Regulatory Commission (NRC) is proposing to amend its regulations to specify those sections in 10 CFR Part 72 that apply to general licensees, specific licensees, certificate holders, and applicants for a specific license or a certificate of compliance to allow these entities to determine which sections of the regulations apply to their activities. In addition, these amendments would incorporate flexibility into 10 CFR Part 72 by specifying the conditions under which an applicant for a specific license may use an NRC-approved cask design without undergoing additional NRC license hearings; and the conditions under which early cask fabrication may take place.

These amendments would eliminate regulatory uncertainty, reduce the regulatory burden on applicants for a 10 CFR Part 72 license, and provide increased flexibility to manufacturers of spent fuel storage casks. This proposed change would have no detrimental impact on public health and safety.

Sincerely,

Dennis K. Rathbun, Director
Office of Congressional Affairs

Enclosure:
Federal Register Notice

cc: Senator Bob Graham

The Honorable Joe Barton, Chairman
Subcommittee on Energy and Power
Committee on Commerce
United States House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

Enclosed for the information of the Subcommittee is a copy of a Notice of Proposed Rulemaking to be published shortly in the Federal Register. The U.S. Nuclear Regulatory Commission (NRC) is proposing to amend its regulations to specify those sections in 10 CFR Part 72 that apply to general licensees, specific licensees, certificate holders, and applicants for a specific license or a certificate of compliance to allow these entities to determine which sections of the regulations apply to their activities. In addition, these amendments would incorporate flexibility into 10 CFR Part 72 by specifying the conditions under which an applicant for a specific license may use an NRC-approved cask design without undergoing additional NRC license hearings; and the conditions under which early cask fabrication may take place.

These amendments would eliminate regulatory uncertainty, reduce the regulatory burden on applicants for a 10 CFR Part 72 license, and provide increased flexibility to manufacturers of spent fuel storage casks. This proposed change would have no detrimental impact on public health and safety.

Sincerely,

Dennis K. Rathbun, Director
Office of Congressional Affairs

Enclosure:
Federal Register Notice

cc: Representative Ralph M. Hall

D R A F T

(For SECY paper)

**NRC PROPOSES CHANGES TO REGULATIONS
ON SPENT FUEL CASK FABRICATION, HEARING SCOPE**

The Nuclear Regulatory Commission is proposing to amend its regulations on storage of spent fuel from nuclear power plants to allow storage cask manufacturers to begin fabrication--at their own risk--before NRC approves their use.

The proposed amendments would also provide that previously approved cask designs could not be challenged during a licensing hearing.

These changes would reduce the regulatory burden and provide additional flexibility for both applicants and licensees.

NRC has two processes for approving spent fuel storage: (1) a specific license for an independent spent fuel storage installation (ISFSI), in which NRC conducts a detailed review of an application to build and operate the installation on a specific site and (2) a general license, in which a nuclear power plant licensee may use storage casks previously approved by the NRC, without having a specific license or detailed review by NRC (although certain site-specific issues are examined).

The NRC anticipates that it may receive applications for specific licenses

for ISFSI's that will propose using casks already approved by the NRC for use under a general license. Under current regulations, the adequacy of the design of these previously approved casks could be at issue during a licensing hearing.

The proposed rule states that if a specific license application for an ISFSI incorporates information on the design of an NRC-approved spent fuel storage cask, the scope of any public hearing held to consider the application will not include any cask design issues previously addressed by the Commission.

This would eliminate the need for repetitious reviews by a hearing board. In addition, the public would have already had an opportunity to comment on each cask design before it was approved for use under a general license, since the Commission issues a Federal Register notice seeking public comments before deciding whether to incorporate a design into its regulations as approved for use.

With regard to cask fabrication, current regulations prohibit an applicant for NRC approval of a cask design for use under a general license from beginning fabrication of the cask before the NRC issues a certificate of compliance. Applicants for a specific license for an ISFSI, in contrast, are permitted to begin early fabrication of casks before the license is issued. The proposed revisions to the regulations would eliminate this differing NRC treatment between general and specific licensees.

Early fabrication would be at the risk of the applicant, who would have to

bear the costs of any actions required to conform a fabricated cask to the conditions of the NRC certificate of compliance.

Interested persons are invited to submit comments within 75 days of publication of a Federal Register notice on this subject, which is expected shortly. Written comments should be sent to the Secretary, Nuclear Regulatory Commission, Washington, DC 20555-0001, Attention: Rulemakings and Adjudications Staff.

Comments may also be submitted electronically via the NRC's interactive rulemaking web site at <http://www.nrc.gov/NRC/rule.html>.

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Table of Applicability for 10 CFR Part 72 Sections

72.1	S,G,C	72.9(b)	S,G,C	72.11(b)	S,G,C
72.2(a)(1)	S,G	72.10(a)	S,G,C	72.12(a)(1)	S,G,C
72.2(a)(2)	S	72.10(a)(1)(i)	S,G,C	72.12(a)(2)	S,G,C
72.2(b)	S,G	72.10(a)(1)(ii)	S,G,C	72.12(b)	S,G,C
72.2(c)	S,G	72.10(a)(1)(iii)	S,G,C	72.12(c)(1)	S,G,C
72.2(d)	S	72.10(a)(1)(iv)	S,G,C	72.12(c)(2)	S,G,C
72.2(e)	S,G,C	72.10(a)(1)(v)	S,G,C	72.13(a)	S,G,C
72.2(f)	C	72.10(a)(2)	S,G,C	72.13(b)	S
72.3	S,G,C	72.10(a)(3)	S,G,C	72.13(c)	G
72.4	S,G,C	72.10(b)	S,G,C	72.13(d)	C
72.5	S,G,C	72.10(c)(1)	S,G,C	72.16(a)	S
72.6(a)	S,G	72.10(c)(2)	S,G,C	72.16(b)	S
72.6(b)	S,G	72.10(c)(3)	S,G,C	72.16(c)	S
72.6(c)(1)	S,G	72.10(d)	S,G,C	72.16(d)	S
72.6(c)(2)	S	72.10(e)(1)	S,G,C	72.16(e)	S
72.7	S,G,C	72.10(e)(2)	S,G,C	72.18	S
72.8	S,G	72.10(f)	S,G,C	72.20	S
72.9(a)	S,G,C	72.11(a)	S,G,C	72.22(a)	S

72.22(b)	S	72.24(e)	S	72.30(a)	S
72.22(c)	S	72.24(f)	S	72.30(b)	S
72.22(d)(1)	S	72.24(g)	S	72.30(c)(1)	S,G
72.22(d)(2)	S	72.24(h)	S	72.30(c)(2)(i)	S,G
72.22(d)(3)(i)	S	72.24(i)	S	72.30(c)(2)(ii)	S,G
72.22(d)(3)(ii)	S	72.24(j)	S	72.30(c)(2)(iii)	S,G
72.22(d)(4)	S	72.24(k)	S	72.30(c)(3)	S,G
72.22(d)(5)(i)	S	72.24(l)(1)	S	72.30(c)(4)	S,G
72.22(d)(5)(ii)	S	72.24(l)(2)	S	72.30(c)(5)	S,G
72.22(e)(1)	S	72.24(l)(3)	S	72.30(c)(6)	S,G
72.22(e)(2)	S	72.24(m)	S	72.30(d)(1)	S,G
72.22(e)(3)	S	72.24(n)	S	72.30(d)(2)	S,G
72.24(a)	S	72.24(o)	S	72.30(d)(3)(i)	S,G
72.24(b)	S	72.24(p)	S	72.30(d)(3)(ii)	S,G
72.24(c)(1)	S	72.24(q)	S	72.30(d)(4)	S,G
72.24(c)(2)	S	72.26	S	72.32(a)(1)	S
72.24(c)(3)	S	72.28(a)	S	72.32(a)(2)	S
72.24(c)(4)	S	72.28(b)	S	72.32(a)(3)	S
72.24(d)(1)	S	72.28(c)	S	72.32(a)(4)	S
72.24(d)(2)	S	72.28(d)	S	72.32(a)(5)	S

72.32(a)(6)	S	72.32(b)(9)	S	72.40(a)(3)	S
72.32(a)(7)	S	72.32(b)(10)	S	72.40(a)(4)	S
72.32(a)(8)	S	72.32(b)(11)	S	72.40(a)(5)	S
72.32(a)(9)	S	72.32(b)(12)(i)	S	72.40(a)(6)	S
72.32(a)(10)	S	72.32(b)(12)(ii)	S	72.40(a)(7)	S
72.32(a)(11)	S	72.32(b)(13)	S	72.40(a)(8)	S
72.32(a)(12)(i)	S	72.32(b)(14)	S	72.40(a)(9)	S
72.32(a)(12)(ii)	S	72.32(b)(15)(i)	S	72.40(a)(10)	S
72.32(a)(13)	S	72.32(b)(15)(ii)	S	72.40(a)(11)	S
72.32(a)(14)	S	72.32(b)(15)(iii)	S	72.40(a)(12)	S
72.32(a)(15)	S	72.32(b)(15)(iv)	S	72.40(a)(13)	S
72.32(a)(16)	S	72.32(b)(15)(v)	S	72.40(a)(14)	S
72.32(b)(1)	S	72.32(b)(15)(vi)	S	72.40(b)	S
72.32(b)(2)	S	72.32(b)(16)	S	72.40(c)	S
72.32(b)(3)	S	72.32(c)(1)	S,G	72.42(a)	S
72.32(b)(4)	S	72.32(c)(2)	S,G	72.42(b)	S
72.32(b)(5)	S	72.32(d)	S,G	72.42(c)	S
72.32(b)(6)	S	72.34	S	72.44(a)	S
72.32(b)(7)	S	72.40(a)(1)	S	72.44(b)(1)	S,G
72.32(b)(8)	S	72.40(a)(2)	S	72.44(b)(2)	S,G

72.44(b)(3)	S,G	72.44(e)	S,G	72.48(a)(5)(i)	S,G,C
72.44(b)(4)	S,G	72.44(f)	S,G	72.48(a)(5)(ii)	S,G,C
72.44(b)(5)	S,G	72.44(g)(1)	S	72.48(a)(6)	S,G,C
72.44(b)(6)(i)(A)	S,G	72.44(g)(2)	S	72.48(a)(6)	S,G,C
72.44(b)(6)(i)(B)	S,G	72.44(g)(3)	S	72.48(b)(1)	S,G,C
72.44(b)(6)(i)(C)	S,G	72.44(g)(4)	S	72.48(b)(2)	S,G,C
72.44(b)(6)(ii)(A)	S,G	72.46(a)	S	72.48(b)(1)	S,G,C
72.44(b)(6)(ii)(B)	S,G	72.46(b)(1)	S	72.48(c)(1)(i)	S,G,C
72.44(c)(1)(i)	S	72.46(b)(2)	S	72.48(c)(1)(ii)	S,G,C
72.44(c)(1)(ii)	S	72.46(c)	S	72.48(c)(1)(iii)	S,G,C
72.44(c)(2)	S	72.46(d)	S	72.48(c)(2)(i)	S,G,C
72.44(c)(3)(i)	S	72.46(e)	S	72.48(c)(2)(ii)	S,G,C
72.44(c)(3)(ii)	S	72.48(a)(1)	S,G,C	72.48(c)(2)(iii)	S,G,C
72.44(c)(3)(iii)	S	72.48(a)(2)(i)	S,G,C	72.48(c)(2)(iv)	S,G,C
72.44(c)(3)(iv)	S	72.48(a)(2)(ii)	S,G,C	72.48(c)(2)(v)	S,G,C
72.44(c)(4)	S	72.48(a)(2)(iii)	S,G,C	72.48(c)(2)(vi)	S,G,C
72.44(c)(5)	S	72.48(a)(3)(i)	S,G,C	72.48(c)(2)(vii)	S,G,C
72.44(d)(1)	S,G	72.48(a)(3)(ii)	S,G,C	72.48(c)(2)(viii)	S,G,C
72.44(d)(2)	S,G	72.48(a)(3)(iii)	S,G,C	72.48(c)(3)	S,G,C
72.44(d)(3)	S,G	72.48(a)(4)	S,G,C	72.48(c)(4)	S,G,C

72.48(d)(1)	S,G,C	72.52(c)	S,G	72.54(g)(5)	S,G
72.48(d)(2)	S,G,C	72.52(d)	S,G	72.54(g)(6)	S,G
72.48(d)(3)(i)	S,G,C	72.52(e)	S,G	72.54(h)	S,G
72.48(d)(3)(ii)	S,G,C	72.54(a)	S	72.54(i)	S,G
72.48(d)(4)	S,G,C	72.54(b)	S	72.54(j)(1)	S,G
72.48(d)(5)	S,G,C	72.54(c)(1)	S	72.54(j)(2)	S,G
72.48(d)(6)(i)	S,G,C	72.54(c)(2)	S	72.54(k)(1)	S,G
72.48(d)(6)(ii)	S,G,C	72.54(d)(1)	S,G	72.54(k)(2)	S,G
72.48(d)(6)(iii)	S,G,C	72.54(d)(2)	S,G	72.54(k)(3)	S,G
72.48(d)(6)(iv)	S,G,C	72.54(d)(3)	S,G	72.54(k)(4)	S,G
72.50(a)	S,G	72.54(e)(1)	S,G	72.54(k)(5)	S,G
72.50(b)(1)	S	72.54(e)(2)	S,G	72.54(l)(1)	S,G
72.50(b)(2)	S	72.54(f)(1)	S,G	72.54(l)(2)(i)	S,G
72.50(c)(1)	S	72.54(f)(2)	S,G	72.54(l)(2)(ii)	S,G
72.50(c)(2)	S	72.54(g)(1)	S,G	72.54(m)(1)	S,G
72.52(a)	S,G	72.54(g)(2)	S,G	72.54(m)(2)(i)	S,G
72.52(b)(1)	S,G	72.54(g)(3)	S,G	72.54(m)(2)(ii)	S,G
72.52(b)(2)	S,G	72.54(g)(4)	S,G	72.54(m)(3)	S,G

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72.56	S	72.70(b)(3)	S	72.75(b)(2)	S,G
72.58	S	72.70(b)(4)	S	72.75(b)(3)	S,G
72.60(a)	S,G	72.70(c)(1)	S	72.75(b)(4)	S,G
72.60(b)(1)	S,G	72.70(c)(2)	S	72.75(b)(5)	S,G
72.60(b)(2)	S,G	72.70(c)(3)	S	72.75(b)(6)	S,G
72.60(b)(3)	S,G	72.70(c)(4)	S	72.75(c)(1)	S,G
72.60(b)(4)	S,G	72.70(c)(5)	S	72.75(c)(2)(i)	S,G
72.60(c)	S,G	72.70(c)(6)	S	72.75(c)(2)(ii)	S,G
72.62(a)(1)	S,G	72.70(d)	S	72.75(d)(1)(i)	S,G
72.62(a)(2)	S,G	72.72(a)	S,G	72.75(d)(1)(ii)	S,G
72.62(b)	S,G	72.72(b)	S,G	72.75(d)(1)(iii)	S,G
72.62(c)(1)	S,G	72.72(c)	S,G	72.75(d)(1)(iv)	S,G
72.62(c)(2)	S,G	72.72(d)	S,G	72.75(d)(1)(v)	S,G
72.62(d)	S,G	72.74(a)	S,G	72.75(d)(2)(i)	S,G
72.70(a)(1)	S	72.74(b)	S,G	72.75(d)(2)(ii)(A)	S,G
72.70(a)(2)	S	72.74(c)	S,G	72.75(d)(2)(ii)(B)	S,G
72.70(b)(1)	S	72.75(a)	S,G	72.75(d)(2)(ii)(C)	S,G
72.70(b)(2)	S	72.75(b)(1)	S,G	72.75(d)(2)(ii)(D)	S,G

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72.75(d)(2)(ii)(E)	S,G	72.80(a)	S,G	72.84(b)(2)	S,G
72.75(d)(2)(ii)(F)	S,G	72.80(b)	S,G	72.86(a)	S,G,C
72.75(d)(2)(ii)(G)	S,G	72.80(c)	S,G	72.86(b)	S,G,C
72.75(d)(2)(ii)(H)	S,G	72.80(d)	S,G	72.90(a)	S
72.75(d)(2)(ii)(I)(1)	S,G	72.80(e)	S,G	72.90(b)	S
72.75(d)(2)(ii)(I)(2)(ii)	S,G	72.80(f)	S,G	72.90(c)	S
72.75(d)(2)(ii)(I)(2)(iii)	S,G	72.80(g)	S	72.90(d)	S
72.75(d)(2)(ii)(I)(2)(iv)	S,G	72.82(a)	S,G	72.90(e)	S
72.75(d)(2)(ii)(J)	S,G	72.82(b)	S,G	72.90(f)	S
72.75(d)(2)(ii)(K)	S,G	72.82(c)(1)	S,G	72.92(a)	S
72.75(d)(2)(ii)(L)	S,G	72.82(c)(2)	S,G	72.92(b)	S
72.75(d)(3)	S,G	72.82(c)(3)	S,G	72.92(c)	S
72.75(d)(4)	S,G	72.82(d)	S,G	72.94(a)	S
72.75(d)(5)	S,G	72.84(a)(1)	S,G,C	72.94(b)	S
72.75(d)(6)	S,G	72.84(a)(2)	S,G,C	72.94(c)	S
72.75(d)(7)	S,G	72.84(a)(3)	S,G,C	72.96(a)	S
72.76(a)	S,G	72.84(b)(1)(i)	S,G	72.96(b)	S
72.76(b)	S,G	72.84(b)(1)(ii)	S,G	72.96(c)	S
72.78(a)	S,G	72.84(b)(1)(iii)	S,G	72.96(d)	S
72.78(b)	S,G	72.84(b)(1)(iv)	S,G	72.98(a)	S

72.98(b)	S	72.104(c)	S,G	72.122(h)(1)	S,G
72.98(c)(1)	S	72.106(a)	S,G	72.122(h)(2)	S,G
72.98(c)(2)	S	72.106(b)	S,G	72.122(h)(3)	S,G
72.98(c)(3)	S	72.106(c)	S,G	72.122(h)(4)	S,G
72.100(a)	S	72.108	S	72.122(h)(5)	S,G
72.100(b)	S	72.120(a)	S	72.122(i)	S,G
72.102(a)(1)	S	72.120(b)	S	72.122(j)	S,G
72.102(a)(2)	S	72.122(a)	S,G	72.122(k)(1)	S,G
72.102(b)	S	72.122(b)(1)	S,G	72.122(k)(2)	S,G
72.102(c)	S	72.122(b)(2)(i)	S,G	72.122(k)(3)	S,G
72.102(d)	S	72.122(b)(2)(ii)	S,G	72.122(k)(4)(i)	S,G
72.102(e)	S	72.122(b)(3)	S,G	72.122(k)(4)(ii)	S,G
72.102(f)(1)	S	72.122(b)(4)	S,G	72.122(l)	S,G
72.102(f)(2)	S	72.122(c)	S,G	72.124(a)	S,G,C
72.104(a)(1)	S,G	72.122(d)	S,G	72.124(b)	S,G,C
72.104(a)(2)	S,G	72.122(e)	S,G	72.124(c)	S,G,C
72.104(a)(3)	S,G	72.122(f)	S,G	72.126(a)(1)	S,G
72.104(b)	S,G	72.122(g)	S,G	72.126(a)(2)	S,G

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72.126(a)(3)	S,G	72.140(c)(2)	S,G,C	72.146(c)	S,G,C
72.126(a)(4)	S,G	72.140(c)(3)	S,G,C	72.148	S,G,C
72.126(a)(5)	S,G	72.140(d)	S,G,C	72.150	S,G,C
72.126(a)(6)	S,G	72.142(a)	S,G,C	72.152	S,G,C
72.126(b)	S,G	72.142(b)(1)	S,G,C	72.154(a)	S,G,C
72.126(c)(1)	S,G	72.142(b)(2)	S,G,C	72.154(b)	S,G,C
72.126(c)(2)	S,G	72.142(c)	S,G,C	72.154(c)	S,G,C
72.126(d)	S,G	72.144(a)	S,G,C	72.156	S,G,C
72.128(a)(1)	S	72.144(b)	S,G,C	72.158	S,G,C
72.128(a)(2)	S	72.144(c)(1)	S,G,C	72.160	S,G,C
72.128(a)(3)	S	72.144(c)(2)	S,G,C	72.162	S,G,C
72.128(a)(4)	S	72.144(c)(3)	S,G,C	72.164	S,G,C
72.128(a)(5)	S	72.144(c)(4)	S,G,C	72.166	S,G,C
72.128(b)	S	72.144(c)(5)	S,G,C	72.168	S,G,C
72.130	S	72.144(d)	S,G,C	72.170	S,G,C
72.140(a)	S,G,C	72.144(e)	S,G,C	72.172	S,G,C
72.140(b)	S,G,C	72.146(a)	S,G,C	72.174	S,G,C
72.140(c)(1)	S,G,C	72.146(b)	S,G,C	72.176	S,G,C

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72.180	S	71.212(a)(1)	G	72.212(b)(8)(i)(C)	G
72.182(a)	S	72.212(a)(2)	G	72.212(b)(8)(ii)	G
72.182(b)	S	72.212(a)(3)	G	72.212(b)(8)(iii)	G
72.182(c)	S	72.212(b)(1)(i)	G	72.212(b)(9)	G
72.184(a)	S	72.212(b)(1)(ii)	G	72.212(b)(10)	G
72.184(b)	S	72.212(b)(1)(iii)	G	72.214	C
72.186(a)	S	72.212(b)(2)	G	72.216(a)(1)	G
72.186(b)	S	72.212(b)(3)	G	72.216(a)(2)	G
72.190	S,G	72.212(b)(4)	G	72.216(b)	G
72.192	S,G	72.212(b)(5)(i)	G	72.216(c)	G
72.194	S,G	72.212(b)(5)(ii)	G	72.218(a)	G
72.200(a)	S	72.212(b)(5)(iii)	G	72.218(b)	G
72.200(b)	S	72.212(b)(5)(iv)	G	72.218(c)	G
72.200(c)	S	72.212(b)(5)(v)	G	72.220	G
72.202	S	72.212(b)(6)	G	72.230(a)	C
72.204	S	72.212(b)(7)	G	72.230(b)	C
72.206	S	72.212(b)(8)(i)(A)	G	72.230(c)	C
72.210	G	72.212(b)(8)(i)(B)	G	72.230(d)	C

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72.232(a)	C	72.234(f)	C	72.240(a)	C
72.232(b)	C	72.236(a)	C	72.240(b)	C
72.232(c)	C	72.236(a)	C	72.240(c)	C
72.232(d)	C	72.236(b)	C	72.242(a)	C
72.234(a)	C	72.236(c)	C	72.242(b)	C
72.234(b)	C	72.236(d)	C	72.242(c)	C
72.234(c)	C	72.236(e)	C	72.242(d)(1)	C
72.234(c)(1)	C	72.236(f)	C	72.242(d)(2)(i)	C
72.234(d)(2)(i)	C	72.236(g)	C	72.242(d)(2)(ii)	C
72.234(d)(2)(ii)	C	72.236(h)	C	72.242(d)(2)(iii)	C
72.234(d)(2)(iii)	C	72.236(i)	C	72.242(d)(2)(iv)	C
72.234(d)(2)(iv)	C	72.236(j)	C	72.242(d)(2)(v)	C
72.234(d)(2)(v)	C	72.236(k)(1)	C	72.242(d)(2)(vi)	C
72.234(d)(2)(vi)	C	72.236(k)(2)	C	72.242(d)(2)(vii)	C
72.234(d)(2)(vii)	C	72.236(k)(3)	C	72.242(d)(2)(viii)	C
72.234(d)(2)(viii)	C	72.236(l)	C	72.242(d)(3)	C
72.234(d)(3)	C	72.236(m)	C	72.242(d)(4)	C
72.234(e)	C	72.238	C	72.242(d)(5)	C

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72.242(d)(6)	C
72.244	C
72.246	C
72.248(a)(1)	C
72.248(a)(2)	C
72.248(b)(1)	C
72.248(b)(2)	C
72.248(b)(3)	C
72.248(c)(1)	C
72.248(c)(2)	C
72.248(c)(3)	C
72.248(c)(4)	C
72.248(c)(5)	C
72.248(c)(6)	C
72.248(c)(7)	C
72.248(d)	C
72.248(e)	C

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