

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF NUCLEAR REACTOR REGULATION  
WASHINGTON, DC 20555-0001

April 19, 2011

NRC REGULATORY ISSUE SUMMARY 2005-02, REVISION 1  
CLARIFYING THE PROCESS FOR MAKING  
EMERGENCY PLAN CHANGES

**ADDRESSEES**

All holders and applicants for a nuclear power reactor operating license or construction permit under the provisions of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities," including those that have permanently ceased operations and have certified that fuel has been permanently removed from the reactor vessel.

All holders of licenses for research and test reactors under 10 CFR Part 50.

All holders of an early site permit or combined license for a nuclear power plant under the provisions of 10 CFR Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants."

All holders of licenses for fuel facilities under the provisions of 10 CFR Part 40, "Domestic Licensing of Source Material" required to have an emergency plan under 10 CFR 40.31(j)(1)(ii).

All holders of licenses for fuel facilities under the provisions of 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material" required to have an emergency plan under 10 CFR 70.22(i)(1)(ii).

All holders of certifications for gaseous diffusion plants under the provisions of 10 CFR Part 76, "Certification of Gaseous Diffusion Plants" required to have an emergency plan under 10 CFR 76.35(f).

All holders of site-specific licenses for Independent Spent Fuel Storage Installations under 10 CFR Part 72, "Licensing Requirements for the Independent Storage of Spent Nuclear Fuel and High-Level Radioactive Waste, and Reactor-Related Greater Than Class C Waste."

**INTENT**

The U.S. Nuclear Regulatory Commission (NRC) is issuing this regulatory issue summary (RIS) revision to (1) clarify the meaning of "decrease in effectiveness," as stated in 10 CFR 50.54(q); (2) clarify the process for evaluating proposed changes to emergency plans; (3) provide a method for evaluating proposed changes to emergency plans; and (4) provide clarifying guidance on the appropriate content and format of applications submitted to the NRC for approval prior to implementation.

**ML100340545**

This revision supersedes RIS 2005-02, dated February 14, 2005, in its entirety.

For non-reactor facilities, the regulations in 10 CFR 40.35(f), 70.32(i), and 76.91(o) provide direction to licensees seeking to revise their emergency plan. An emergency plan includes the plan as originally approved by the NRC, and all subsequent changes made by the licensee with, and without, prior NRC review and approval under these regulations. As such, non-reactor facilities may find the information provided in this RIS related to the emergency plan review process useful to clarify their emergency plan change processes. Current regulatory guidance for non-reactor emergency plans is contained within Regulatory Guide 3.67, "Standard Format and Content for Emergency Plans for Fuel Cycle and Materials Facilities."

For Independent Spent Fuel Storage Installations (ISFSIs), the emergency plan change process should be followed in accordance with 10 CFR 72.44(f). The information in this RIS provides useful examples of the type of evaluations NRC expects ISFSI licensees to conduct in reviewing changes to their Part 72 approved emergency plans (refer to 10 CFR 72.24(k) and 10 CFR 72.32) and determining if the changes may be made without prior NRC approval as required by 10 CFR 72.44(f). Additional guidance on emergency planning for ISFSI licensees is provided in Spent Fuel Storage and Transportation Interim Staff Guidance - 16, "Emergency Planning."

This RIS revision requires no action or written response on the part of addressees.

## **BACKGROUND INFORMATION**

The regulation in 10 CFR 50.54(q) provides direction to licensees seeking to revise their emergency plan. The requirements related to nuclear power plant emergency plans are given in the standards in 10 CFR 50.47, "Emergency Plans," and the requirements of Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities" to 10 CFR Part 50. Section 10 CFR 50.54(q) and Appendix E to Part 50 also establish the requirements related to emergency plans for research and test reactors. Based upon feedback from the nuclear power industry, the research and test reactor community, and experience gained by the NRC staff after reviewing emergency plan changes, the NRC staff has identified a need to clarify the process for making changes to an emergency plan and to provide licensees with an example method to consistently review proposed emergency plan changes.

## **SUMMARY OF ISSUE**

Licensees routinely evaluate proposed revisions to their emergency plans to determine if these changes decrease the effectiveness of their current approved emergency plan or adversely affect their ability to implement the emergency plan. The NRC staff is providing an example of an acceptable method for licensees to use in consistently evaluating proposed changes to the emergency plan to ensure the licensee's ability to maintain and implement the approved emergency plan.

The change process is described below and clarified by providing a screening criterion that would ensure consistency of emergency plan change determinations of a decrease in effectiveness. Enclosure 1, "10 CFR 50.54(q) Review Procedure," presents a suggested outline for applying the screening criteria for the evaluation of a proposed emergency plan change, which is graphically depicted in Attachment 1 to Enclosure 1, "10 CFR 50.54(q) Flowchart." In addition, Enclosure 2, "Guidance for Content of Emergency Plan Submittals to NRC Requiring Prior NRC Approval," provides guidance to licensees in the development of their application for NRC prior approval of proposed emergency plan changes. The information in this RIS revision

clarifies the process for changing emergency plans to ensure that licensees maintain effective emergency plans thereby maintaining reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency. This RIS revision also provides a consistent methodology for licensees to evaluate changes to their emergency plans and provides clarifying guidance for the development of applications for NRC prior approval. This will help ensure that NRC review activities and decisions are effective, efficient, predictable, and consistent.

The regulations require licensees to submit a report of each change within a specified period of time after the change is made. The NRC inspectors use this report to evaluate the effectiveness of a licensee's emergency plan change management program in accordance with NRC Inspection Procedures.

### **Regulation**

In part, 10 CFR 50.54(q) states the following:

The nuclear power reactor licensee may make changes to these plans without Commission approval only if the changes do not decrease the effectiveness of the plans and the plans, as changed, continue to meet the standards of § 50.47(b) and the requirements of appendix E to this part. The research reactor and/or the fuel facility licensee may make changes to these plans without Commission approval only if these changes do not decrease the effectiveness of the plans and the plans, as changed, continue to meet the requirements of appendix E to this part.... Proposed changes that decrease the effectiveness of the approved emergency plans may not be implemented without application to and approval by the Commission.

### **Definitions**

#### 1) Decrease in Effectiveness

- a) A change in an emergency plan that results in reducing the licensee's capability to perform an emergency planning function in the event of a radiological emergency.
  - i) Note that other licensee activities could affect the ability to implement the emergency plan effectively. Licensees must maintain the effectiveness of their NRC approved emergency plans, up to and including, ensuring that changes made to other programs, structures, systems or components do not adversely impact the licensee's ability to effectively implement its emergency plan. See Information Notice 2005-19, "Effect of Plant Configuration Changes on the Emergency Plan," dated July 18, 2005, for additional information.
- (1) A decrease in effectiveness will occur if there is a decrease in the capabilities, resources or methods identified in the emergency plan, without actions or measures to compensate for the change, which results in a reduction in the licensee's capability for performing an emergency planning function. The overall impact of proposed changes on the effectiveness of the emergency plan, or its implementation, is to be determined, not just the effect that individual changes have on a specific part of the emergency plan.

- (a) For example, a licensee's seismic monitoring system requires a specifically trained Instrument and Controls (I&C) Technician to determine if a seismic event is greater than the Operating Basis Earthquake (OBE). This would provide the emergency planning function bases for the licensee to staff a specifically trained I&C Technician on-shift to make this determination for the control room to ensure timely emergency classifications of a greater than OBE seismic event. If the licensee later upgrades the seismic monitoring equipment to provide this information as an immediate readout to the control room, the bases for the licensee's capability to perform that emergency planning function has changed and the licensee could consider not staffing the additional personnel for this specific emergency planning function.
- (2) In evaluating proposed plan changes, the licensee may need to consider the impact of the proposed change on more than one emergency planning function. For example, an evaluation of a proposed change to the emergency response organization (ERO) that reduces the number of persons assigned to perform dose assessments needs to consider the potential effect on not only the emergency planning functions for planning standard 10 CFR 50.47(b)(2), but also on the functions for the accident assessment planning standard 10 CFR 50.47(b)(9). If the responsibility for performing dose assessment is assigned as an additional responsibility to ERO personnel performing emergency notifications, the potential effect on the notification functions (10 CFR 50.47(b)(2)) also needs to be evaluated.
- (3) The following provides some examples of decreases in effectiveness that would require prior NRC approval. These examples should not be viewed as being all-inclusive or exclusive; rather, licensees should use them to inform decisions involving various changes being considered. It is also possible that site-specific situations may make a particular example inapplicable to a site. Even if a particular example completely encompasses the change being considered, the licensee's emergency plan change evaluation should explain why the site-specific implementation of the change would not be a decrease in effectiveness for that particular site. It is not sufficient for such an analysis to simply cross-reference an example in this RIS revision.
- (a) A change that would cause any of the major functional areas or major tasks identified in the emergency plan to be unassigned. An example of this would be replacing qualified radiation technicians with other personnel who do not have the requisite qualification to provide radiation protection coverage to personnel other than themselves, *e.g.*, coverage for an offsite fire department responding onsite.
- (b) A change that would impede site access for offsite assistance relied on in the plan without viable alternate arrangements being made. An example would be the closure or planned closure of a major river bridge in a case where the route via the nearest available crossing would incur a substantial increase in response time.
- (c) A change to the ERO callout procedures or hardware that would delay ERO notification such that the augmentation times in the emergency plans can no longer be achieved. A change to communications hardware that would

reduce the capability to initiate and complete required emergency notifications within 15 minutes of the emergency declaration.

- (d) A change to the onsite meteorological measurements program such that meteorological data currently readily available in emergency response facilities in accordance with the emergency plan would no longer be readily available.
  - (e) A change to hazard assessment and radiation protection assignments in re-entry and recovery procedures that would not provide an adequate level of personal protection in uncertain reentry conditions.
  - (f) A change that reduces the availability of site familiarization training currently presented to offsite assistance groups (e.g., firefighters, local law enforcement, and medical services, including mutual aid companies that would support these groups).
  - (g) A change that delegates the responsibility for performance of various aspects of emergency plan maintenance to contractors or other external groups without adequate supervisory oversight to ensure that program elements continue to be met (e.g., a change delegating testing and maintenance of the Alert and Notification System to an external group not subject to typical nuclear facility work process and configuration controls).
- (4) For proposed changes to individual emergency action levels (EALs), a decrease in effectiveness will occur in the following cases:
- (a) The proposed change to the EAL would potentially cause an underclassification, (e.g., what was considered an Alert in the approved emergency plan would now be considered an Unusual Event or not classified at all).
  - (b) The proposed change to the EAL would potentially cause an overclassification, (e.g., what was considered a Site Area Emergency in the approved emergency plan would now be considered a General Emergency with potential consequences for public health and safety).
  - (c) If the proposed change to the EAL is to change an Initiating Condition setpoint (or threshold) without a commensurate change in the regulatory basis for the EAL Initiating Condition setpoint (or threshold).
    - (i) The actual numerical setpoint of a given EAL may be revised without prior NRC approval under the following conditions via the 10 CFR 50.54(q) emergency plan change process:
      1. The regulatory basis for the EAL setpoint has been revised and is approved by the NRC. For example, a site receives NRC approval (via a license amendment) for a power uprate. Power up-rate implementation causes the “normal” radiation levels to increase, thus necessitating an increase in EAL setpoints based on “normal” radiation levels. The regulatory basis for the setpoint has been

changed, thus this change can be processed via the emergency plan change process because the effectiveness of the emergency plan has not been decreased.

2. The regulatory basis for the EAL setpoint has not been changed but the method for detection of the setpoint has been changed. For example, a given EAL setpoint is based upon exceeding 1 Rem total effective dose equivalent (TEDE). The radiation monitor reading setpoint is based upon a reading that would give the equivalent of exceeding 1 Rem TEDE. The radiation monitor is replaced and operates differently. The actual numerical value of the EAL needs to be revised to that which is equivalent to 1 Rem TEDE. The regulatory basis for the setpoint has not been changed, thus this change can be processed via the emergency plan change process as the effectiveness of the emergency plan has not been decreased.

## 2) Emergency plan

- a) The document prepared and maintained by the licensee that identifies and describes the licensee's methods for maintaining emergency preparedness, and responding to emergencies. An emergency plan includes the plan as originally approved by the NRC, and all subsequent changes made by the licensee with, and without, prior NRC review and approval under 10 CFR 50.54(q).
  - i) The licensee's emergency plan consists of:
    - (1) The emergency plan as approved by the NRC via a Safety Evaluation Report (SE), or license amendment (LA) from the Office of Nuclear Reactor Regulation (NRR) or the Office of Federal and State Materials and Environmental Management Programs (FSME).
    - (2) Any subsequent changes to the emergency plan explicitly reviewed by the NRC through an SE, or LA from NRR or FSME, and found to meet the applicable regulations.
    - (3) Any subsequent changes made by the licensee without NRC review and approval after the licensee concluded that the change(s) do not constitute a decrease in effectiveness under 10 CFR 50.54(q).

### **Emergency Plan Change Process**

#### 1. Process Overview

Reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency is based on the licensee's emergency plan and the successful implementation of that emergency plan. The body of an emergency plan contains statements that describe how a licensee will meet regulatory requirements. The standards of 10 CFR 50.47(b) and the requirements of Appendix E to 10 CFR Part 50 establish the contents of the nuclear power reactor emergency plan. Section 10 CFR 50.54(q) and Appendix E to Part 50 establish the requirements related to emergency plans for research and test reactors. Subsequent changes to the emergency plan must comply with 10 CFR 50.54(q). Enclosure 1

outlines the emergency plan change process, and Attachment 1 to Enclosure 1 graphically depicts the process in a flowchart.

## 2. Emergency Plan Review

Changes to an emergency plan may result from advances in technology, new or revised rules, site-specific needs, processes, guidance (such as Nuclear Energy Institute (NEI) guidance endorsed by the NRC), technical specification changes, or modifications to instrumentation. Changes that the licensee has identified as decreases in effectiveness must be submitted to the NRC for review and prior approval. The NRC staff will review the emergency plan change against the standards, regulations, guidance documents and the approved emergency plan. The NRC will review and approve submittals on a case-by-case basis. An emergency plan change approved for one licensee does not mean that the same or similar change would be approved for another licensee.

For the purposes of determining whether a change to a licensee's emergency plan constitutes a decrease in effectiveness, the licensee should use the last emergency plan reviewed and approved by the NRC. If the emergency plan change process has been properly implemented over the years, comparing a proposed emergency plan change to either the latest emergency plan reviewed and approved by the NRC or the emergency plan as changed by the licensee should result in the same decrease in effectiveness determination. For example, if a licensee made a series of changes over time to the same specific provision of the emergency plan, where each change was separately determined not to constitute a decrease in effectiveness, then there should be no decrease in effectiveness. Therefore, there should be no decrease in effectiveness when comparing the latest emergency plan to the emergency plan reviewed and approved by the NRC. If a licensee or the NRC concludes that there is a decrease in effectiveness due to a series of changes over time, then the provisions of the emergency plan change process have not been correctly followed.

For the decrease in effectiveness determination, the change or changes should also be evaluated to verify that they continue to meet the standards and requirements as set forth in 10 CFR 50.47(b) and Appendix E to Part 50. In addition to the decrease in effectiveness determination, the change or changes should be evaluated against the capability to perform the functions and the associated time requirement of performing the function, if applicable. The evaluation should document whether the capability or timeliness to perform a function is lost and/or degraded.

The current Commission requirements for document retention in 10 CFR 50.54(q), specify that changes that do not warrant NRC approval must be retained for three years. The licensee must retain changes that decrease the effectiveness of the emergency plan until the Commission terminates the license. It may be prudent to save emergency plan change documentation to show the historical progression of changes, since the Commission, through its staff, may review at any time the emergency plan changes that have been made.

### **Related Topics Regarding Emergency Plan Changes**

1. Emergency plan changes that result in a decrease in the effectiveness of the approved emergency plan require prior NRC approval, under 10 CFR 50.54(q).
2. Emergency Action Level Changes

Revisions of an individual EAL that results in a decrease in effectiveness must be submitted for NRC approval as specified in 10 CFR 50.54(q). A revision to an entire EAL scheme, from NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," to another NRC-endorsed EAL scheme, must be submitted for prior NRC approval as specified in Section IV.B. of Appendix E to 10 CFR Part 50. The Statement of Considerations for the final rule amending the NRC's regulations relating to NRC approval of EAL changes, dated January 26, 2005, stated in part, "The Commission believes a licensee's proposal to convert from one EAL scheme (e.g., NUREG-0654-based) to another EAL scheme (e.g., NUMARC/NESP-007 or NEI 99-01 based) ... is of sufficient significance to require prior NRC review and approval. NRC review and approval for such major changes in EAL methodology is necessary to ensure that there is reasonable assurance that the final EAL change will provide an acceptable level of safety." Regulatory Guide 1.101, Revisions 3 and 4, "Emergency Planning and Preparedness for Nuclear Power Reactor," endorsed NUMARC/NESP-007 and NEI 99-01 EAL guidance, respectively, as acceptable alternatives to the guidance provided in NUREG-0654 for development of EALs to comply with 10 CFR 50.47 and Appendix E to Part 50. A change in an EAL scheme to incorporate the improvements provided in NUMARC/NESP-007 or NEI 99-01 would not decrease the overall effectiveness of the emergency plan, but due to the potential safety significance of the change, the change needs prior NRC review and approval.

### 3. Inspection Activities

For power reactors, the NRC inspectors use Inspection Procedure (IP) 71114.04, "Emergency Action Level and Emergency Plan Changes," to conduct a review of the effectiveness of the licensee's implementation of the 10 CFR 50.54(q) change process. For research and test reactors, the NRC inspectors use IP 69011, "Class I Research and Test Reactor Emergency Preparedness," and IP 69001, "Class II Research and Test Reactors." The inspector will perform a screening review of the change relative to the emergency plan; however, this will not constitute NRC approval of the plan as changed. The documentation of the change reviewed by the inspectors will be the report provided by the licensee as stated in 10 CFR 50.54(q).

### 4. Lower Tier Documents

If a licensee has incorporated a lower tier document into the emergency plan or the emergency plan explicitly references a lower tier document as a method to implement a specific requirement in the emergency plan, then, it is considered part of the plan and subject to 10 CFR 50.54(q) review. Historically, some licensees have developed emergency plan implementing procedures that included the necessary information needed for activities that are required to meet the regulations, for example, procedures for notifications, dose assessment, protective action recommendations, emergency classifications and emergency action levels. The staff is not making the use of 10 CFR 50.54(q) to review all changes to lower tier documents a requirement, but acknowledges that using 10 CFR 50.54(q) as the regulation to provide revision control of these lower tier documents has been in place and supported by the NRC through the inspection and licensing process.

## **BACKFIT DISCUSSION**

This RIS clarifies the existing regulatory requirements licensees must follow when making changes to their emergency plans. This RIS does not impose new or modified staff requirements or uniquely prescribe a way to comply with the regulations or require any action or written response. Therefore, this RIS does not constitute a backfit under 10 CFR 50.109 and the staff

did not perform a backfit analysis.

#### **FEDERAL REGISTER NOTIFICATION**

A notice of opportunity for public comment on this RIS revision was published in the *Federal Register* on August 24, 2009. There were 63 comments from stakeholders, which were considered before issuance of this RIS revision. The resolution of these public comments is provided in ADAMS Accession No. ML100341087.

#### **PAPERWORK REDUCTION ACT STATEMENT**

This RIS revision does not contain information collections and, therefore, is not subject to the requirements of the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.).

#### **CONGRESSIONAL REVIEW ACT**

In accordance with the Congressional Review Act (5 U.S.C. §§ 801-808), the NRC has determined that this action is not a major rule and has verified this determination with the Office of Information and Regulatory Affairs of the Office of Management and Budget.

#### **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 Office of Management and Budget control number.

## CONTACT

Please direct any questions about this matter to the technical contact listed below or to the appropriate Office of Nuclear Reactor Regulation (NRR) project manager.

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- Enclosures:   1. 10 CFR 50.54(q) Review Procedure (typical)  
                  2. Guidance for Content of Emergency Plan Submittals to the NRC Requiring  
                      Prior NRC Approval

Note: NRC generic communications may be found on the NRC public Web site,  
<http://www.nrc.gov>, under Electronic Reading Room/Document Collections.

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**ENCLOSURE 1: 10 CFR 50.54(q) Review Procedure (typical)**

1.0 **Purpose**

- 1.1. This document is a compilation of best practices developed by licensees to implement an effective emergency plan change management program. It is not intended to direct licensees to develop their program as stated in this regulatory issue summary (RIS) revision, nor to direct the U.S. Nuclear Regulatory Commission (NRC) inspectors on what the regulatory requirements are for an emergency plan change management program. It is intended to provide an example of a quality program for licensees to consider for their own use.
- 1.1.1. Note that many aspects of this procedure are not based upon explicit regulatory requirements, but are based upon sound conservative decision making by licensees to ensure a quality emergency plan change management program.
- 1.2. This document provides instructions for performing a review of proposed changes that may affect a licensee's Emergency Preparedness (EP) Program.
- 1.2.1. Changes to the emergency plan require a 10 CFR 50.54(q) evaluation to identify if those changes result in a decrease in effectiveness of the emergency plan.
- 1.2.2. NRC Information Notice (IN) 2005-19, "Effect of Plant Configuration Changes on the Emergency Plan," dated July 18, 2005, was issued to inform licensees of inspection findings related to licensees' failure to properly evaluate the effect of plant configuration changes (procedures, equipment and facilities) on the emergency plan. Changes to emergency procedures, or modifications to equipment or facilities used to implement the emergency plan, should be reviewed with a 10 CFR 50.54(q) screening process, and possible evaluation, to ensure those changes do not directly or indirectly decrease the effectiveness of the emergency plan. Some examples include, but are not limited to, the following: emergency plan implementing procedures (EIPs); emergency action level (EAL) technical bases document (for sites that do not have NUREG-0654 EALs); site staffing procedures; emergency response facility ventilation, power, and/or spacing requirements; and modifications to equipment required to determine an EAL threshold.
- 1.2.3. If a licensee has incorporated a lower tier document into the emergency plan or the emergency plan explicitly references a lower tier document as a method to implement a specific requirement in the emergency plan, then it is considered part of the plan and subject to 10 CFR 50.54(q) review. Historically, some licensees have developed EIPs that included the necessary information needed for activities that are required to meet the regulations, for example, procedures for notifications, dose assessment, protective action recommendations, emergency classifications and emergency action levels. The staff is not making the use of 10 CFR 50.54(q) to review all changes to lower tier documents a requirement, but acknowledges that using 10 CFR 50.54(q) as the regulation to provide revision control of these lower tier documents has been in place and supported by the NRC through the inspection and licensing process.

- 2.0 **Definitions & applicability of terms:** *{Implementation of the 10 CFR 50.54(q) process is dependent upon the use of key terms. The following definitions have been identified as key terms necessary to complete a 10 CFR 50.54(q) review that meets the intent of 10 CFR 50.54(q)}*
- 2.1. Activity: An event or action, or a series of events or actions that may result in a change to the emergency plan or affect the implementation of the emergency plan.
- An activity sets in motion the need to determine impact on certain licensing bases documents using regulatory review criteria such as 10 CFR 50.54(q).
  - Activities may range from something as simple as making an editorial change or an organizational change, to making complicated facility modifications.
  - For the purposes of 10 CFR 50.54(q), activities may also originate outside of the licensee's responsibility such as permanent road closings or substantive population increases.
- 2.2. Change: An action that results in modification or addition to, or removal from, the licensee's emergency plan, or the resources, capabilities and methods identified in the plan, and affects an emergency planning requirement.
- 2.3. Emergency Plan: The document prepared and maintained by the licensee that identifies and describes the licensee's methods for maintaining emergency preparedness and responding to emergencies. An emergency plan includes the plan as originally approved by the NRC, and all subsequent changes made by the licensee with, and without, prior NRC review and approval under 10 CFR 50.54(q).
- 2.3.1. The licensee's emergency plan consists of:
- The emergency plan as approved by the NRC via a Safety Evaluation Report (SER), Safety Evaluation (SE), or license amendment (LA) from the Office of Nuclear Reactor Regulation (NRR) or the Office of Federal and State Materials and Environmental Management Programs (FSME);
  - Any subsequent changes to the emergency plan explicitly reviewed by the NRC through an SE, or LA from NRR or FSME, and found to meet 10 CFR 50.47(b) and the requirements of Appendix E to 10 CFR Part 50; and
  - Any subsequent changes made by the licensee without NRC review and approval after the licensee concluded the change(s) does not constitute a decrease in effectiveness.
- 2.4. Emergency Planning Function: A capability or resource necessary to prepare for and respond to a radiological emergency as set forth in the elements of Section IV of Appendix E to 10 CFR Part 50 and, for nuclear power reactors, the planning standards of 10 CFR 50.47(b).
- 2.4.1. Note that other licensee changes, other than to the emergency plan, could adversely impact an emergency planning function. The licensee is responsible for evaluating these changes and for maintaining the ability to implement the approved emergency plan.

- 2.5. Decrease in Effectiveness: A change in an emergency plan that results in reducing the licensee's capability to perform an emergency planning function in the event of a radiological emergency.
- 2.5.1. Note that other licensee activities could affect the ability to implement the emergency plan effectively. Licensees must maintain the effectiveness of their NRC approved emergency plans, up to and including, ensuring that changes made to other programs, structures, systems or components do not adversely impact the licensee's ability to effectively implement their emergency plan. Reference IN 2005-19 for additional information.
- 2.5.1.1. A decrease in effectiveness will occur if there is a decrease in the capabilities, resources or methods identified in the emergency plan, without actions or measures to compensate for the change, which results in a reduction in the licensee's capability for performing an emergency planning function. The overall impact of proposed changes on the effectiveness of the emergency plan, or its implementation is to be determined, not just the effect that individual changes have on a specific part of the emergency plan.
- 2.5.1.1.1. For example, a licensee's seismic monitoring system requires a specifically trained Instrument and Controls (I&C) Technician to determine if a seismic event is greater than the Operating Basis Earthquake (OBE). This would provide the emergency planning function bases for the licensee to staff a specifically trained I&C Technician on-shift to make this determination for the control room to ensure timely emergency classifications of a greater than OBE seismic event. If the licensee later upgrades the seismic monitoring equipment to provide this information as an immediate readout to the control room, the bases for the licensee's capability to perform that emergency planning function has changed and the licensee could consider not staffing the additional personnel for this specific emergency planning function.
- 2.5.1.2. In evaluating proposed plan changes, the licensee may need to consider the impact of the proposed change on more than one emergency planning function. For example, an evaluation of a proposed change to the emergency response organization (ERO) that reduces the number of persons assigned to perform dose assessments needs to consider the potential effect on not only the emergency planning functions for planning standard 10 CFR 50.47(b)(2), but also on the functions for the accident assessment planning standard 10 CFR 50.47(b)(9). If the responsibility for performing dose assessment is assigned as an additional responsibility to ERO personnel performing emergency notifications, the potential effect on the notification functions (10 CFR 50.47(b)(2)) also needs to be evaluated.
- 2.5.1.3. For proposed changes to individual EALs (*i.e.*, not an EAL scheme change), a decrease in effectiveness will occur if the proposed change to the EAL would potentially cause an underclassification, *e.g.*, what was considered an Alert in the approved emergency plan would now be considered an Unusual Event or not classified at all or if the proposed change to the EAL would potentially cause an overclassification, *e.g.*, what was considered a Site Area Emergency in the approved emergency plan would now be considered a General Emergency and may have potential consequences to public health and safety, or, if the proposed change to the EAL is to change an Initiating Condition setpoint (or threshold) without a commensurate change in the regulatory basis for the EAL Initiating Condition setpoint (or threshold).

2.6. Editorial Change: Editorial changes do not require a 10 CFR 50.54(q) review. The following are examples of Editorial Changes:

- Procedure title change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering.

### 3.0 **Regulatory Guidance**

3.1. EP standards are provided in 10 CFR 50.47(b) and requirements are provided in Appendix E to 10 CFR Part 50. Clarifications and expectations are provided in the various guidance documents, particularly the following:

3.1.1. NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants,"

3.1.2. NUREG-0696, "Functional Criteria for Emergency Response Facilities,"

3.1.3. NUREG-0737, "Clarification of TMI Action Plan Requirements," and

3.1.4. Regulatory Guide 1.101, "Emergency Planning and Preparedness for Nuclear Power Reactors."

3.2. A licensee's emergency plan must meet the standards of 10 CFR 50.47(b) and requirements of Appendix E to 10 CFR Part 50. The regulatory guidance details the methods by which the staff verifies compliance and provides acceptable methods for the development and maintenance of an effective EP program. Therefore, the emergency plan becomes a culmination of various methods to meet the regulations and standards. Based on NRC evaluation at licensing or during maintenance of the emergency plan, the NRC determines whether the licensee has the capability to provide reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency.

3.3. Changes to the emergency plan must be evaluated to ensure that an emergency planning function has not been modified, or if the function has been changed, that the basis for the change is justifiable. Licensees need to determine if the proposed changes cause a decrease in effectiveness.

4.0 **10 CFR 50.54(q) screening**

- 4.1. A 10 CFR 50.54(q) screening should be performed by personnel knowledgeable of the proposed change and its potential impact on the licensee's EP Program. However, the licensee's EP Program Manager, or equivalent, should be consulted whenever questions as to applicability arise.
- 4.2. A screening on the impact to the emergency plan should also be performed for proposed revisions to other plant procedures or other non-EP documents that implement aspects of the licensee's EP Program to ensure that changes are not made to non-EP procedures that adversely impact the emergency plan.
- 4.2.1. The following screening criteria could be used as an example to screen for 10 CFR 50.54(q) applicability:

Is this a change to shift staffing levels?  YES  NO

Is this a reduction in department staffing levels that impacts the emergency plan's 24-hour staffing requirements?  YES  NO

Is this a change to systems, equipment, setpoints, procedures, etc., that are used to determine EAL Initiating Conditions?  YES  NO

Is this a change to site Operations, Fire Brigade, and/or Security response protocols (*i.e.*, security events, medical response, 10 CFR 50.54(x) protocol, etc.)?  YES  NO

Is this a change to Emergency Response Facilities or equipment?  YES  NO

Is this a change to non-EP procedures that has the potential to affect the EP program?  YES  NO

If any are checked YES, review the emergency plan to determine if the plan has to be revised for this change.

Note: The above list provides examples of items that should be considered for a 10 CFR 50.54(q) screening check list. Each licensee should review its emergency plan for additional check list items. The check list should be designed so that personnel not well versed in the contents of the emergency plan will know that the emergency plan should be reviewed to determine the change's potential impact on the plan.

5.0 **10 CFR 50.54(q) review**

- 5.1. Preparers, reviewers, and approvers of 10 CFR 50.54(q) reviews should be knowledgeable to do so in order to ensure a consistent and effective program.

- 5.2. A 10 CFR 50.54(q) review should be performed for all proposed revisions to emergency plans and EALs (except for EAL scheme changes). Although not required, a 10 CFR 50.54(q) review should be conducted for applicable lower tier documents in accordance with Attachment 2, "10 CFR 50.54(q) Review."
- 5.2.1. Some changes to EP procedures/processes may potentially affect other department's programs and may thus require a 10 CFR 50.59 Applicability Review, or other review based upon the proposed activity.
- 5.2.1.1. The following regulatory requirements must be addressed, when applicable, to the program being affected:
- QA Program: 10 CFR 50.54(a)
  - ISI/IST Program: 10 CFR 50.55(a)
  - Appendix J: 10 CFR 50.54(o)
  - Security Program: 10 CFR 50.54(p)
  - Maintenance Rule: 10 CFR 50.65
  - Fire Plan: Site Fire Plan
  - ISFSI 10 CFR 72.48
  - Changes, Tests, or Experiments: 10 CFR 50.59
- 5.3. Licensees should perform the 10 CFR 50.54(q) review in accordance with the instructions contained in Attachment 2, "10 CFR 50.54(q) Review."

6.0 **References**

10 CFR 50.54(q)

10 CFR 50.47(b)

10 CFR App. E. IV

10 CFR App. E. V

10 CFR App. E VI

10 CFR 50.4

NRC Significance Determination Process, Appendix B

FEMA-REP-10

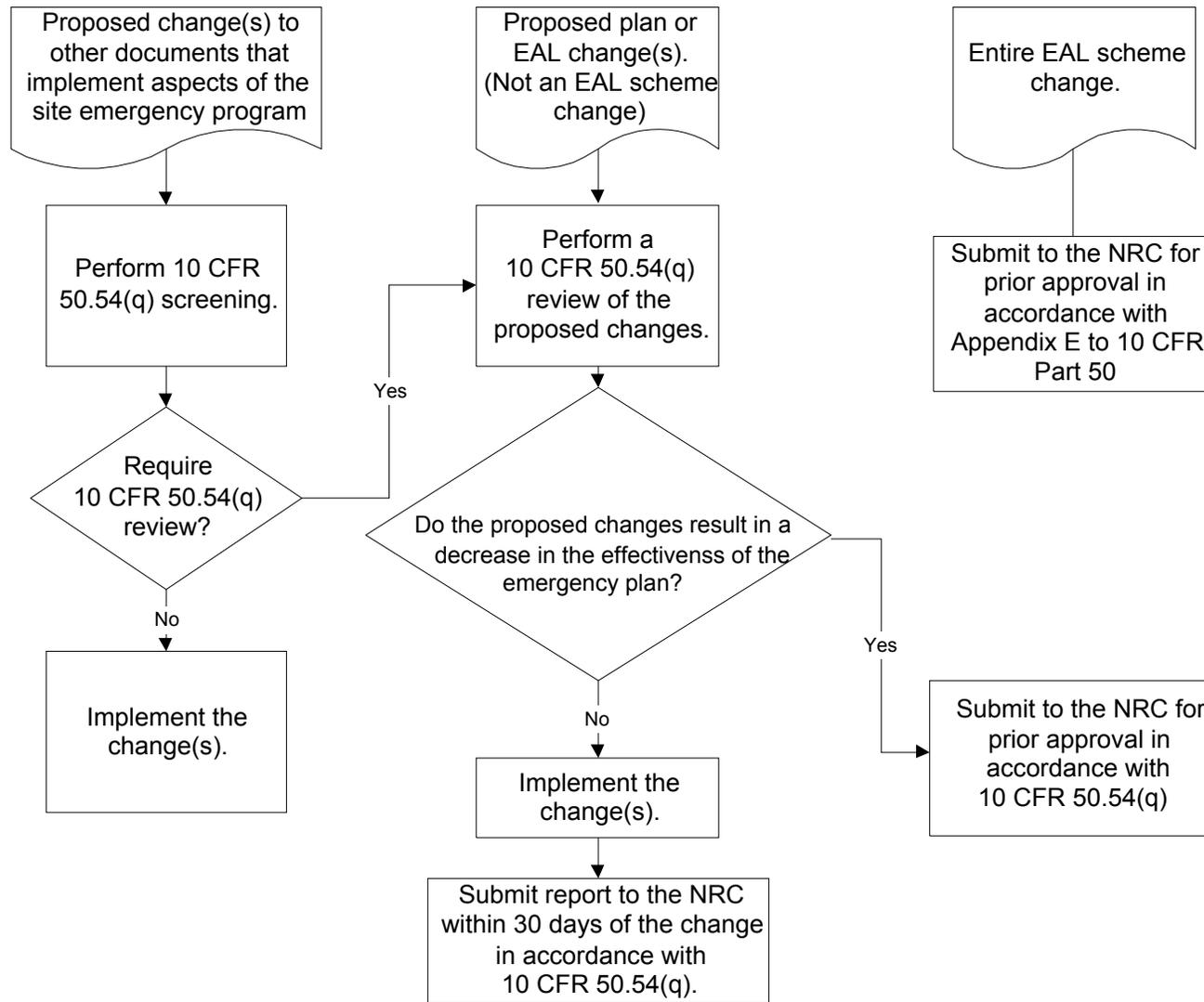
7.0

**Attachments**

Attachment 1: 10 CFR 50.54(q) Review Flowchart

Attachment 2: 10 CFR 50.54(q) Review Instructions

**ATTACHMENT 1: 10 CFR 50.54(q) FLOWCHART**



## **ATTACHMENT 2: 10 CFR 50.54(q) REVIEW INSTRUCTIONS**

1.0 On the 10 CFR 50.54(q) Form:

**NOTE**

This form should be complete and detailed enough to allow an NRC inspector or other reviewer to evaluate its merits without referring to other documents or references.

- 1.1. Briefly document a description of the change
- 1.2. Check if this change is due to a procedure change, modification or other.
- 1.3. Check if this change is purely editorial in nature (see definition).
  - 1.3.1. If yes, document the Background and Scope of the change (*Background & Scope: A description of the reason for and scope of the change*).
    - 1.3.1.1. Then the document may be revised, approved, and implemented.
    - 1.3.1.2. Submit to the NRC, as specified in 10 CFR 50.4, within 30 days of the effective date of change.
- 2.0 Perform a screening to determine if the proposed change impacts the items that describe the Planning Standards of 10 CFR 50.47(b) and requirements of Appendix E to 10 CFR Part 50.
  - 2.1. If any questions are checked YES, then a 10 CFR 50.54(q) review is required.
    - 2.1.1. Evaluate each change against the specific elements of 10 CFR 50.47(b), Appendix E to 10 CFR Part 50, the emergency plan and other applicable regulations and requirements.
    - 2.1.2. Determine if the proposed changes maintain or improve the capability to:
      - Respond to an emergency, or meet actions or other requirements described in the Emergency Plan, Implementing Procedures, or EAL's.
      - Protect the health and safety of plant personnel and the general public in the event of an emergency.
      - Implement Federal regulations or requirements.
    - 2.1.3. Determine if the change decreases the effectiveness of the plan by the following:
      - If the change still implements the planning standard utilizing a different method, then document the new method and state why the change does, or does not, decrease the effectiveness of the plan.

- If a setpoint was changed, then state why the change is, or is not, a decrease in the effectiveness of the plan.
- If an instrument/tool type was substituted and the instrument still performs the same function, then state why the change does, or does not, alter the effectiveness of the plan.

**NOTE**

A decrease in effectiveness will occur if there is a decrease in the capabilities, resources or methods identified in the emergency plan, without actions or measures to compensate for the change, which results in a reduction in the licensee's capability for performing an emergency planning function.

2.1.4 Document the review in the outline format below:

2.1.4.1 **Background and Scope:** A description of the reason for and scope of the change.

2.1.4.2 **Program Requirements:** A description of the regulation standard or requirement for which the EP program must demonstrate compliance.

**NOTE**

For changes that are large in scope, in which a one-to-one comparison is not practical, a detailed discussion of the change that compares the current content with the proposed content may be developed.

2.1.4.3 **Change Comparison:** A comparison showing both old and new wording, including step or section number references as applicable. Changes that incorporate new information are marked as "Added to Document." Changes that involve the deletion of information are marked as "Removed from Document."

**NOTE**

Ensure that the comparison also accounts for wording from the **APPROVED EMERGENCY PLAN/EALs** to ensure that a gradual relaxation in program standards or requirements has not occurred.

2.1.4.4 **Change Assessment:** A discussion of how the change degrades, does not affect, or enhances the effectiveness and abilities of the EP Program as it relates to the program requirements.

2.1.4.5 **Justification:** A formal justification that describes the basis and reasons the change is appropriate and necessary for any degradation (otherwise, not required). Sufficient level of detail must be provided to support the basis for complex and significant changes, and conclusion regarding effectiveness.

- 2.1.4.6 References: A list of references such as regulations, guidance documents, information notices, inspection reports or other sources that contain criteria incorporated by the emergency plan related to the change.
- 2.2. If the proposed change is to the fleet/station emergency plan, EALs, EAL bases document (if applicable), or a lower tier document, but does not decrease their effectiveness, then,
  - 2.2.1. Submit to the NRC, as specified in 10 CFR 50.54(q) and Appendix E to 10 CFR Part 50, a report of the change within 30 days of the effective date of change.
- 2.3. If the proposed change is to the emergency plan, EALs (not an entire scheme change), EAL bases document (if applicable), or a lower tier document that is incorporated into the emergency plan or is explicitly referenced as a method to implement a specific requirement in the emergency plan, and does, by definition, decrease the effectiveness of the emergency plan or EAL, then:
  - 2.3.1. If the proposed change is to the emergency plan or a lower tiered document (if applicable), submit the revised document and the 10 CFR 50.54(q) review to the NRC for approval prior to implementation.
  - 2.3.2. If the proposed change is to the EALs (not an entire scheme change) and/or EAL bases document (if applicable), submit the revised document and the 10 CFR 50.54(q) review to the NRC for approval prior to implementation.
    - 2.3.2.1. If the proposed change is approved by the NRC, then the document may be revised and implemented.
- 2.4. If all questions are checked NO, then further review is not required.
  - 2.4.1. Document the Background and Scope of the change (*Background & Scope: A description of the reason for and scope of the change*).
  - 2.4.2. Then the document may be revised, approved, and implemented.
    - 2.4.2.1. Submit to the NRC, as specified in 10 CFR 50.4, within 30 days of the effective date of change.

**10 CFR 50.54(q) REVIEW FORM**

**Description of Change:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Plan Sections/Procedure(s) #:** \_\_\_\_\_ **Revision(s) #:** \_\_\_\_\_
- Mod #:** \_\_\_\_\_
- Other:** \_\_\_\_\_

<p>Is the proposed change purely editorial in nature (see definition)? <i>[If YES, discontinue review process and process the procedure change.]</i></p> <p><input type="checkbox"/> <b>YES</b>   <input type="checkbox"/> <b>NO</b></p>			
<p>Does the proposed change affect any of the following: <i>[Check 'yes' or 'no'. Reference the actual standards/requirements.]</i></p>			
<b>50.47</b>	<b><u>PARAPHRASED STANDARD</u></b>	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>(b)(1)</b>	Primary responsibilities of the <i>{applicable site and offsite response}</i> organizations.	<input type="checkbox"/>	<input type="checkbox"/>
	Responsibilities of supporting organizations.	<input type="checkbox"/>	<input type="checkbox"/>
	Initial staffing or augmentation	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(2)</b>	On-shift responsibilities for emergency response.	<input type="checkbox"/>	<input type="checkbox"/>
	Staffing for initial accident response	<input type="checkbox"/>	<input type="checkbox"/>
	Timely augmentation	<input type="checkbox"/>	<input type="checkbox"/>
	Interfaces among onsite and offsite response activities.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(3)</b>	Arrangements for requesting and using assistance resources.	<input type="checkbox"/>	<input type="checkbox"/>
	Accommodations at the EOF for <i>{applicable site and offsite response}</i> staff.	<input type="checkbox"/>	<input type="checkbox"/>
	Other organizations capable of augmenting response are identified.	<input type="checkbox"/>	<input type="checkbox"/>

<b>50.47</b>	<b><u>PARAPHRASED STANDARD</u></b>	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>(b)(4) *RSPS</b>	Emergency classification and action level scheme.	<input type="checkbox"/>	<input type="checkbox"/>
	State/county minimum response based on site information.	<input type="checkbox"/>	<input type="checkbox"/>
	EAL Initiating Condition setpoints or thresholds.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(5) *RSPS</b>	Process for notification of State/county response organizations.	<input type="checkbox"/>	<input type="checkbox"/>
	Notification of emergency personnel.	<input type="checkbox"/>	<input type="checkbox"/>
	Procedure for initial and follow-up messages.	<input type="checkbox"/>	<input type="checkbox"/>
	ANS notification within the 10-mile EPZ	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(6)</b>	Provisions for prompt communication among principal response organizations to emergency response personnel and to the public.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(7)</b>	Public information distributed on a periodic basis.	<input type="checkbox"/>	<input type="checkbox"/>
	News media points of contact established.	<input type="checkbox"/>	<input type="checkbox"/>
	Procedures for coordinated dissemination of info to the public.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(8)</b>	Emergency response facilities, equipment, and maintenance.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(9) *RSPS</b>	Methods, systems or equipment for assessing and monitoring actual or potential offsite consequences.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(10) *RSPS</b>	Range of protective actions for the Plume EPZ established (offsite).	<input type="checkbox"/>	<input type="checkbox"/>
	Guidelines for choice of PARs in place.	<input type="checkbox"/>	<input type="checkbox"/>
	Protective actions for Ingestion Pathway EPZ established.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(10)</b>	Range of protective actions for the Plume EPZ established (onsite).	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(11)</b>	Controlling radiological exposure for emergency workers.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(12)</b>	Arrangements for medical service for contaminated injured individuals.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(13)</b>	General plans for recovery and reentry.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(14)</b>	Exercise or drill conduct and corrective action system.	<input type="checkbox"/>	<input type="checkbox"/>
<b>(b)(15)</b>	Radiological emergency response training.	<input type="checkbox"/>	<input type="checkbox"/>

\*Risk Significant Planning Standard (RSPS)

<b>50.47</b>	<b><u>PARAPHRASED STANDARD</u></b>	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>(b)(16)</b>	Responsibilities for plan development, review and distribution of emergency procedures established.	<input type="checkbox"/>	<input type="checkbox"/>
	EP Staff is properly trained.	<input type="checkbox"/>	<input type="checkbox"/>
<b>EP</b>	Implementation of other Federal regulations and requirements related to the Emergency Preparedness Program.	<input type="checkbox"/>	<input type="checkbox"/>
<b>ERDS</b>	The operation, maintenance, or testing requirements of the ERDS.	<input type="checkbox"/>	<input type="checkbox"/>

<b><u>App. E</u></b>	<b><u>PARAPHRASED REQUIREMENT</u></b>	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>IV. A</b>	Organization	<input type="checkbox"/>	<input type="checkbox"/>
<b>IV. B</b>	Assessment actions	<input type="checkbox"/>	<input type="checkbox"/>
<b>IV. C</b>	Activation of emergency response	<input type="checkbox"/>	<input type="checkbox"/>
<b>IV. D</b>	Notification procedures	<input type="checkbox"/>	<input type="checkbox"/>
<b>IV E</b>	Emergency facilities and equipment	<input type="checkbox"/>	<input type="checkbox"/>
<b>IV. F</b>	Training	<input type="checkbox"/>	<input type="checkbox"/>
<b>IV. G</b>	Maintaining emergency preparedness	<input type="checkbox"/>	<input type="checkbox"/>
<b>IV. H</b>	Recovery	<input type="checkbox"/>	<input type="checkbox"/>

STANDARDS AND/OR ELEMENTS EFFECTED	DESCRIPTION OF EFFECT	DECREASED EFFECTIVENESS.	
		<u>YES</u>	<u>NO</u>
	<u>Background and Scope:</u>	<input type="checkbox"/>	<input type="checkbox"/>
	<u>Program Requirements:</u>		
	<u>Change Comparison:</u>		
	<u>Change Assessment:</u>		
	<u>Justification:</u>		

		<u>YES</u>	<u>NO</u>
This procedure change requires prior NRC approval.		<input type="checkbox"/>	<input type="checkbox"/>
Document all references used for this review:			

**Prepared By:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
Preparer

**Reviewed By:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
Reviewer

**Approved By:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
Manager – EP (or equivalent)

**Enclosure 2: GUIDANCE FOR THE CONTENT OF EMERGENCY PLAN SUBMITTALS REQUIRING PRIOR NRC APPROVAL**

Note: The intent of this enclosure is to provide guidance to licensees in the development of their application for NRC prior approval of proposed emergency plan changes. The following guidance provides elements that should also be included in the application, as applicable.

<b>APPLICATION CONTENT</b>		<b>YES</b>	<b>NO</b>	<b>N/A</b>
<b>COVER LETTER</b>	Specifically state what change(s) are requested for NRC review and approval.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	State why the change(s) are being requested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Identify which regulation or NRC guidance document under which the application is being submitted.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide the names of the licensing and technical contacts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Request a specific date for NRC approval. If less than one year, provide an acceptable reason.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reference all attachments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>SUBMITTAL BODY</b>	State each proposed change and discuss the justification for the change and any measures that will be implemented.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	State the basis for the proposed change and why it is considered a decrease in effectiveness in sufficient detail to support a technical review.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Define any terms that are unique to the site, related to new technology, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide a table showing the current approved wording, the proposed wording, and the basis for the change(s).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide an acceptable level of detail to support a technical review of the proposed change(s).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Discuss the use of any precedents and a justification for why these stated precedents are applicable to this submittal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide discussion on any drills, table-tops or walkthroughs that validate these proposed change(s), if applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>