

Branch Chief Turnover for Tony – Nov 16 – Nov 20, 2015

Meetings

Monday

- 8:00 a.m. – 8:30 a.m. Management Meeting – 13D20
- 1:00 p.m. – 2:00 p.m. Division Leadership Meeting – 08B4
- 2:00 p.m. – 2:30 p.m. Fukushima Interactions – 08B4

Tuesday

- Commission Meeting on Tier 2/3 – 9:00 a.m. – 12:00 p.m.
- 9:00 a.m. – 10:00 a.m. JOMB Branch meeting – 08B4 (reschedule)
- 2:00 p.m. – 3:00 p.m. – DEDO/ET weekly meeting – 13D20

Hot Action Items

- TMI EA-12-049 relaxation request, which the licensee needs by 11/19 (Mode 2 at 10 a.m. Friday, 11/20). I need to tweak the letter Friday/this weekend – it is worded too strongly in some parts. Take it to Jeremy first thing Monday morning so he can push it through Jack and get it to the ET on Monday also. The ET is expecting it Monday.
- If Bill Dean doesn't sign out the Oyster Creek EA-13-109 relaxation approval, track that to issuance.

Routine Action Items

- Biweekly memo week.

Update on Tier 1 Activities

Mitigation Strategies Order EA-12-049

On March 12, 2012, the U.S. Nuclear Regulatory Commission (NRC) issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12056A045). The order requires a three-phase approach for mitigating beyond-design-basis external events. The initial phase requires the use of installed equipment and resources to maintain or restore core cooling, containment, and spent fuel pool (SFP) cooling capabilities. The transition phase requires providing sufficient portable onsite equipment and consumables to maintain or restore these functions until they can be performed with resources external to the site (i.e., offsite). The final phase requires obtaining sufficient offsite resources to sustain those functions indefinitely.

As described in the update of August 29, 2012, the NRC staff issued interim staff guidance (ISG) JLD-ISG-2012-01, Revision 0, "Compliance with Order EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" (ADAMS Accession No. ML12229A174). This document assists nuclear power reactor licensees with the identification of measures needed to comply with the requirements of the order. The ISG endorses, with clarifications, the methodologies described in the industry guidance document, Nuclear Energy Institute (NEI) 12-06, "Diverse and Flexible Coping Strategies Implementation Guide," Revision 0 (ADAMS Accession No. ML12242A378). This industry document outlines one possible approach that can be used by licensees, construction-permit holders, and combined license holders to address the requirements of the order. Both the ISG and NEI 12-06 support implementation of the order by the Commission-directed completion date of December 2016.

By February 28, 2013, all licensees submitted their integrated plans to the NRC (except for Crystal River, Unit 3, because of its plan to permanently cease operations). These integrated plans contain each licensee's site-specific implementation details for meeting the requirements of the order. To accomplish the review of the integrated plans on the desired timeline, the Mitigation Strategies Directorate (MSD) was created on August 12, 2013. Subsequently, on June 15, 2014, MSD and the Japan Lessons Learned Directorate combined to create the Japan Lessons Learned Division (JLD) within the Office of Nuclear Reactor Regulation (NRR).

In their review of mitigation strategies, the NRC staff interacts with industry and other stakeholders to resolve generic concerns and initiated a formal audit process (according to NRR Office Instruction LIC-111, "Regulatory Audits") (ADAMS Accession No. ML082900195) to complete a timely review of licensees' integrated plans. In addition to issuing the associated audit plan (ADAMS Accession No. ML13234A503), staff developed supplemental staff guidance for the review of beyond-design-basis external events (ADAMS Accession No. ML13238A263). Following the audit plan and associated guidance, staff reviewed licensees' integrated plans and issued Interim Staff Evaluations (ISEs) between November 22, 2013, and February 26, 2014, for each licensee about whether their integrated plan, if implemented as described, would provide a reasonable path for compliance with the order. For areas in which

insufficient information was available, open and confirmatory items were identified for the staff to review as the details become available.

After the issuance of the ISEs, the NRC staff began conducting both electronic and onsite audits. The onsite audits are being performed through close engagement with the regions before the compliance date for the first unit at a site. Though the scope and specifics of each review might vary, the purpose of these audits is to review the closeout of the open and confirmatory items identified in the ISEs. In accordance with the requirements of the order, licensees will notify the NRC when full compliance is achieved. Once all units at a site are in compliance, the NRC staff will issue a final safety evaluation (SE) documenting the staff's review of the licensees' last update to their program.

The first operating units are scheduled to comply with the requirements of the order by the Fall 2014. The order established a schedule for all licensees to achieve full compliance within two refueling outages after submittal of the integrated plans (and no later than December 2016). Licensees for nine sites requested, and have been granted, schedule relaxation to allow three refueling outages until compliance. All nine of these licensees will still come into compliance by December 2016. Licensees for an additional six sites have requested, and been granted, schedule relaxation to align with the schedule requirements of Order EA-13-109, "Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions" (ADAMS Accession No. ML13130A067). The compliance date for these licensees will extend past December 2016.

The NRC staff plans to conduct post-compliance inspections after all units at a site indicate compliance and an SE is issued for that site. A temporary instruction (TI) has been issued and the first onsite inspection will occur in January 2015 at Watts Bar Nuclear Plant, Units 1 and 2. Additional site inspections will begin at other sites in Summer 2015.

Spent Fuel Pool Instrumentation Order EA-12-051

On March 12, 2012, the NRC issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation" (ADAMS Accession No. ML12056A044), requiring all U.S. nuclear power plants to install reliable water-level measurement instrumentation in their SFPs. The instrumentation must remotely report at least three distinct water levels: (1) normal level, (2) low level but still high enough to shield workers above the pools from radiation, and (3) a very low level near the top of the spent fuel rods (indicating that more water should be added without delay).

On August 29, 2012, the NRC staff issued its guidance document, ISG JLD-ISG-2012-03, Revision 0, "Compliance with Order EA-12-051, Reliable Spent Fuel Pool Instrumentation" (ADAMS Accession No. ML12221A339). This document provides an acceptable approach for satisfying the requirements of Order EA-12-051. At the end of February 2013, each of the overall integrated plans (OIPs) for the SFP instrumentation order was received.

The NRC staff issued ISEs for all plants affected by this order between September 23, 2013, and December 12, 2013, except for Kewaunee, Crystal River, and San Onofre Nuclear Generating Station (SONGS) because they are in the process of permanently shutting down.

These ISEs included requests for additional information (RAI) with a due date no later than 6 months before the date when full compliance is required.

In March 2014, the NRC staff notified all licensees and construction-permit holders that audits will be conducted on their responses to Order EA-12-051, in accordance with NRR Office Instruction LIC-111, "Regulatory Audits," as discussed above. Licensees for the first affected units are scheduled to complete the required actions by the end of each unit's Fall 2014 refueling outage. As part of the review, the staff completed SFP instrument vendor audits for the three vendors (Westinghouse, AREVA, and MOHR) of this level-measurement technology. The staff's vendor audit reports for the three pilot plants (Watts Bar, McGuire, and D.C. Cook) have been issued. Public meetings were held in November 2013 and February 2014 to solicit industry and public comments regarding staff expectations for RAI responses, the conduct of vendor audits, and the level of detail for information provided to allow the staff to complete its assessments efficiently and effectively. Industry and NRC staff have aligned on expectations and do not anticipate that further RAIs will be necessary to complete the evaluations.

The NRC staff plans to conduct post-compliance inspections after all units at a site indicate that they are in compliance and an SE is issued for that site. A TI has been issued and the first onsite inspection will occur in January 2015 at Watts Bar Nuclear Plant, Units 1 and 2. Additional site inspections will begin at other sites in Summer 2015.

Reliable Hardened Containment Vents for Boiling Water Reactors (BWRs) with Mark I and II Designs (Order EA-12-050 and Order EA-13-109)

The NRC issued Order EA-12-050, "Order Modifying Licenses with Regard to Reliable Hardened Containment Vents," on March 12, 2012 (ADAMS Accession No. ML12054A696), requiring all operating BWRs in the U.S. with Mark I and Mark II containments to install a reliable hardened vent. After issuing the order, additional NRC evaluations examined the benefits of venting after reactor core damage occurs. SECY-12-0157, "Consideration of Additional Requirements for Containment Venting Systems" (ADAMS Accession No. ML12345A030), was submitted to the Commission on November 26, 2012. In the staff requirements memorandum (SRM) for SECY-12-0157 on March 19, 2013 (ADAMS Accession No. ML13078A017), the staff was directed to require licensees with Mark I and Mark II containments to "upgrade or replace the reliable hardened vents required by Order EA-12-050 with a containment venting system designed and installed to remain functional during severe accident conditions." On June 6, 2013, the staff issued the modified Order EA-13-109, "Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions" (ADAMS Accession No. ML13130A067), to ensure that those vents will remain functional in the conditions following reactor core damage.

The revised order contains two distinct phases of implementation. Phase 1, which all licensees are required to implement by June 2018, requires licensees to upgrade the venting capabilities from the containment wetwell to provide reliable hardened vents to assist in preventing core damage and also to remain functional during severe accident conditions. Phase 2, which all licensees are required to implement by June 2019, requires licensees to: (a) provide additional protections for severe accident conditions through installation of a reliable severe-accident-capable drywell vent system, or (b) develop a reliable containment venting

strategy that makes it unlikely to need to vent from the containment drywell during severe accident conditions, and (c) submit an OIP by December 31, 2015.

Since the issuance of the revised order, the NRC staff issued the ISG for Phase 1 of Order EA-13-109 on November 14, 2013. The ISG endorses, with exceptions and clarifications, the methodologies described in NEI 13-02, Rev. 0, "Industry Guidance for Compliance with Order EA-13-109." All applicable licensees submitted an OIP for NRC review on or before June 30, 2014, which included a description of how compliance with Phase 1 requirements will be achieved. The staff is currently reviewing the Phase 1 OIPs and conducting audits of licensee progress towards compliance with Phase 1 of Order EA-13-109. By June 30, 2015, the staff plans to issue ISEs to all applicable licensees documenting open and confirmatory items associated with implementation of the Phase 1 OIPs. In lieu of a Phase 1 OIP, the Oyster Creek Nuclear Generating Station submitted a request for an extension to comply with Order EA-13-109 on June 2, 2014. The staff is currently evaluating the extension request.

The Phase 2 portion of Order EA-13-109 builds on the Phase 1 activities, and also takes advantage of studies related to the development of a regulatory basis for the accident management, containment protection, and release reduction rulemaking. The NRC staff plans to issue the ISG for Phase 2 by April 30, 2015. Licensees are required to submit their OIPs for Phase 2 by December 31, 2015.

Containment Protection and Release Reduction Rulemaking

After issuing Order EA-12-050, "Order Modifying Licenses with Regard to Reliable Hardened Containment Vents," on March 12, 2012, additional NRC evaluations examined the benefits of venting after reactor core damage occurs. SECY-12-0157, "Consideration of Additional Requirements for Containment Venting Systems," was submitted to the Commission on November 26, 2012. In the SRM for SECY-12-0157, dated March 19, 2013, the Commission directed the NRC staff to develop the regulatory basis and proceed with a rulemaking for filtering strategies with drywell filtration and severe accident management of BWRs with Mark I and Mark II containments. The Commission directed the staff to provide to the Commission the regulatory basis for the rulemaking on March 19, 2014; the proposed rule and draft staff guidance on March 19, 2015; and the final rule and guidance on March 19, 2017.

Since the issuance of the SRM for SECY-12-0157, the NRC staff has held several public meetings to discuss the Commission's decision and the regulatory basis for the rulemaking. The public meetings included interaction with the public on potential performance measures, probabilistic risk assessments (PRAs), and accident-progression event trees for the regulatory basis.

Technical activities that support the development of regulatory basis for rulemaking include the following five components. These technical activities are: (1) development of core damage event tree and accident progression event tree as front-end PRA to identify and select risk-dominant accident sequences; (2) accident progression and source term analyses of selected accident sequences using MELCOR; (3) consequence analysis, based on MELCOR source terms using MACCS; (4) risk assessment based on MACCS consequence results and PRA; and (5) regulatory analysis and backfit analysis using risk assessment results. The first three steps have been completed and the last two steps are continuing. Also, sensitivity analyses are in progress as is the documentation of the completed work.

In August 2014, NRC staff briefed the Advisory Committee on Reactor Safeguards Joint Subcommittee on Reliability and PRA and Fukushima on the methodology and status of the rulemaking.

The regulatory basis and proposed rule dates were previously extended by 9 months. The NRC staff requested and has received Executive Director for Operations approval for extension of the rulemaking dates as shown below. Commission action on the requested extension is pending. The staff continues to work through normal rulemaking activities and will keep the Commission apprised of any challenges that could impact the schedule.

- (1) Regulatory basis: From March 12, 2014, to September 12, 2015;
- (2) Proposed rule and draft staff guidance: From March 5, 2015, to September 4, 2016; and
- (3) Final rule: From March 3, 2017, to December 12, 2017.

The NRC staff continues to work with a Division Director Steering Committee to guide this activity. This is a normal step taken for complex rulemakings, done in accordance with agency rulemaking procedures. The working group and Division Director Steering Committee will keep senior management informed of progress on this activity.

Seismic Hazard Walkdowns

On March 12, 2012, the NRC staff issued a request for information (50.54(f) letter) requesting that licensees of U.S. nuclear power plants perform a detailed inspection, or walkdown, of their currently installed seismic-protection and -mitigation features. The industry developed—and the NRC endorsed—Electric Power Research Institute 025286, “Seismic Walkdown Guidance,” to conduct these walkdowns. All plants had to ensure that the features met current licensing-basis requirements and had to identify, correct, and report any degraded conditions. The walkdowns were completed and reports were submitted to the NRC staff by November 2012. NRC resident inspectors used TI-2515/188, “Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns,” to independently verify, using a sampling process, that each licensee’s seismic walkdown activities were conducted using the walkdown methodology endorsed by the NRC. Resident inspectors completed the inspection requirements set forth in TI-2515/188 concurrently with the licensee’s walkdown activities and documented the inspection results in their quarterly reports.

If the licensees discovered deficiencies during their walkdowns, the issues were entered in the licensee’s corrective-action program. These corrective actions are being followed up by the NRC resident inspectors in accordance with normal NRC processes.

Several findings were identified by resident inspector during their walkdown related inspections. These findings were all of very low safety significance (Green). The majority of the issues were identified as a result of licensee seismic walkdowns. Potential seismic issues were mostly related to the following three broad areas:

- (1) Degraded equipment / hardware (e.g. missing bolts, corrosion, open s-hooks);

- (2) Spatial seismic interactions; and
- (3) Problems associated with housekeeping procedures and/or implementation (e.g. temporary installations, portable equipment).

Since the last 6-month update paper, the NRC staff completed issuance of the staff assessment reports for the operating reactor fleet from December 2013 through June 2014. The staff assessments determined that the plant walkdowns were conducted consistently with the intent of the endorsed guidance, thereby verifying that the walkdowns met the objectives in Enclosure 3 of the 50.54(f) letter.

Although NRC staff review has found that licensees have properly implemented the walkdown guidance, a number of plants are in process of completing and reporting their review of delayed walkdowns on items that were inaccessible while at power. The staff expects that the last licensee walkdown update on the inaccessible items will be provided to the NRC by March 31, 2015.

Flooding Hazard Walkdowns

On March 12, 2012, the NRC staff issued a request for information (50.54(f) letter) requesting that licensees for the U.S. nuclear power plants to perform a walkdown of their currently installed flooding-protection and -mitigation features, including a review of associated manual actions. The industry developed—and the NRC endorsed—NEI 12-07, “Guidelines for Performing Verification Walkdowns of Plant Flood Protection Features,” to conduct these walkdowns. All plants had to ensure that the features met current licensing-basis requirements and had to identify, correct, and report any degraded conditions. The walkdowns were completed and reports were submitted to the NRC staff by November 2012. NRC resident inspectors used TI-2515/187, “Inspection of Near-Term Task Force [NTTF] Recommendation 2.3 Flooding Walkdowns,” to independently verify, using a sampling process that each licensee’s flooding walkdown activities were conducted using the walkdown methodology endorsed by the NRC. Resident inspectors completed the inspection requirements set forth in TI-2515/187 concurrently with the licensee’s walkdown activities and documented the inspection results in their quarterly reports.

If the licensees discovered deficiencies during their walkdowns, the issues were entered in the licensee’s corrective-action program. These corrective actions are being followed up by the NRC resident inspectors in accordance with normal NRC processes.

Since the last 6-month update, the NRC staff has continued to assess each plant’s walkdown report. On July 17, 2014, the NRC staff completed issuance of the staff assessments of the flooding walkdown reports for all of the operating nuclear power plants.

Additionally, the NRC staff will be developing a lessons-learned report to document insights from the flooding walkdowns.

The NRC staff’s preliminary review of lessons learned notes that from the end of 2012 through early 2014, nine greater-than-Green findings were identified related to licensee vulnerability to

external flooding. The majority of the findings were identified as a result of licensee flooding walkdowns. The findings noted deficiencies in three broad areas:

- (1) Inadequate seals that would allow flood waters into safety-related spaces;
- (2) Procedurally directed actions that could not be accomplished in the time allotted by the final safety analysis report for design-basis flooding events; and
- (3) Incomplete procedures that did not provide sufficient direction during design-basis flooding events.

Seismic Hazard Reevaluations

On March 12, 2012, the NRC staff asked U.S. nuclear power plant licensees to use current regulations and guidance to reevaluate the seismic hazards that could impact their site. These newly reevaluated hazards, if they are higher than the plant was designed for, will be analyzed by licensees to determine whether interim measures are needed to protect against the reevaluated levels of hazard.

Since the last 6-month update paper, a significant amount of work has been completed on the seismic reevaluations. By March 31, 2014, licensees of nuclear plants in the Central and Eastern United States (CEUS) submitted reports on the reevaluated seismic hazard for their sites (NTTF Recommendation 2.1—Seismic). NRC staff geologists, geophysicists, structural engineers, and risk analysts reviewed the CEUS reports in accordance with the NRC-endorsed industry guidance document, which specifies the screening, prioritizing, and implementation details (ADAMS Accession No. ML12333A170). By letter dated May 9, 2014 (ADAMS Accession No. ML14111A147), the staff issued a screening review and prioritization letter to the 61 CEUS sites for the need to complete future seismic risk evaluations. The letter placed 44 CEUS sites into 3 priority groups for completion of seismic risk evaluations. The remaining 17 sites either are required to respond only to limited-scope evaluations (i.e., high-frequency evaluation, low-frequency evaluation, or spent fuel pool evaluation) or have screened-out of all further evaluations.

During the NRC screening and prioritization review, the NRC staff identified some sites for which a determination could not be made during the 30-day review period and interactions with licensees were needed to resolve technical issues. These issues generally involved differences between NRC independent estimates and licensee estimates of the seismic hazard, or the extent of existing Individual Plant Examination of External Events analyses. The staff determined that 15 sites were conditionally screened-in for the purposes of prioritizing and conducting additional evaluations. Most of the 15 sites are in priority Group 3 for which the amount of exceedance above the plant design-basis safe-shutdown earthquake in the 1- to 10-Hz range is relatively small and the maximum ground motion in the 1- to 10-Hz range is also relatively small. As of September 30, 2014, final screening decisions were completed for 11 conditionally screened-in sites. Letters with the final screening decision have been issued to Brunswick Steam Electric Plant, Duane Arnold Energy Center, Monticello Nuclear Generating Plant, and Fort Calhoun Station. With the exception of Monticello, the licensees screened-out. (Vermont Yankee has also conditionally screened-in; however, the plant's submittal has been

deferred until June of 2015¹). Final screening decision letters for the other eight sites will be issued in the near future.

After the May 9, 2014, screening and prioritization letter, by memorandum dated May 21, 2014 (ADAMS Accession No. ML14136A126), NRC staff released preliminary ground-motion response spectra to support stakeholder understanding of staff decisions and to support near-term resolution of technical differences between licensees' and NRC staff's seismic hazard estimates. During June and July 2014, the NRC staff completed eight public meetings² with licensees to understand these technical differences and establish a path forward for reviewing the hazard analyses.

The NRC staff is preparing to review the Expedited Approach submittals required for those sites that screen-in for further seismic evaluations. The Expedited Approach submittals, due December 2014, serve as an engineering review of interim evaluations. The evaluations look at the systems and components that can be used to safely shut down a plant under the conditions of a station blackout (i.e., no alternating current power is available) and loss of ultimate heat sink. The expedited approach will either confirm that a plant has sufficient margin to continue with a longer-term evaluation without any modifications, or identify the need to enhance the seismic capacity. Several public meetings have been conducted with stakeholders to support development of guidance for the format and content of the Expedited Approach submittals³ that will support effective and efficient NRC staff reviews. In response to Commission direction in SRM-COMSECY-13-0030, the staff also began to consider whether SFP evaluations were needed as part of the NTTF Recommendation 2.1 seismic activities.

Flooding Hazard Reevaluations

On March 12, 2012, the NRC staff issued a request for information (50.54(f) letter) asking all U.S. power reactor licensees and holders of construction permits in active or deferred status to reevaluate the flooding hazards that could impact their site. If the reevaluated flooding hazard at a site is not bounded by the current design basis, respondents are requested to perform an assessment of the plant's ability to cope with the reevaluated flood hazard (referred to as the integrated assessment). The staff will review the responses to the request for information and determine whether regulatory actions are necessary to provide additional protection against flooding.

Since the last 6-month update SECY paper, many activities associated with the flooding reevaluations have been completed. For example, the NRC staff has held numerous public meetings associated with either the flooding hazard reevaluations or the integrated assessment.

The NRC staff received requests for assistance from licensees to obtain information on dams upstream of eight nuclear power plants in order to complete their flooding hazard reevaluations. These requests were received between August 2013 and March 2014. The NRC entered into

¹ Vermont Yankee, by letter dated March 12, 2014 (ADAMS Accession No. ML14079A025), notified the NRC of Entergy's intent to defer March 12, 2012, response obligations until June 30, 2015. The NRC staff acknowledged this request by letter on July 28, 2014 (ADAMS Accession No. ML14134A163).

² NRC summaries of public meetings with licensees regarding seismic hazards can be found under ADAMS Accession Nos. ML14167A159, ML14175A518, ML14197A583, ML14210A021, ML14197A593, ML14210A050, ML14197A608, and ML14209A942.

³ The Expedited Approach guidance document is found in ADAMS under Accession No. ML13102A142.

an interagency agreement with the U.S. Army Corps of Engineers (USACE) to perform upstream dam failure analyses for the eight sites. All calculations will be performed in accordance with NRC's guidance document JLD-ISG-2013-01, "Guidance for Estimating Flooding Hazards due to Dam Failure." Because of the dates of the assistance request letters and the amount of effort required by the USACE to complete these evaluations, licensees requiring assistance submitted extension requests to allow them time to include the USACE results in their flooding hazard reevaluation submittal.

In March 2014, the second set of flooding hazard reports was submitted. Eleven sites (out of 24) that were due to provide their flooding hazard reports by March 2014 requested extensions. Eight of the extensions were associated with the need to interact with the USACE regarding upstream dam failures. Two of the three remaining extensions involved analysis of complex watersheds, and the remaining extension was based on the need to further refine the flooding hazard model for the site because the results were not consistent with the plant's observational experience. After a series of public interactions to better understand the basis for each extension request, 9 of the 11 sites were granted extensions, as requested. The other two extensions, for Prairie Island Nuclear Generating Plant, Units 1 and 2, and Monticello Nuclear Generating Plant, Unit 1, were granted for 4 months less than the licensee requested. The NRC staff granted these sites a shorter extension because the licensee justification for the extension included time to develop evaluations that will be provided to them based on the USACE failure analysis. The NRC staff is currently reviewing the flood hazard reevaluation reports; and as completed, the staff began issuing assessments of the flood hazard reevaluations in July 2014. The third (final) set of flood hazard reevaluation reports (20) is due in March 2015.

If the reevaluated hazard exceeds the capability of existing flood protection or mitigation, the 50.54(f) letter requests that licensees describe interim actions taken, or planned, to address the reevaluated hazard. Examples of interim actions proposed by licensees include the use of sandbags or other temporary barriers, and use of FLEX strategies. The NRC staff issued TI 2515/190, "Inspection of The Licensee's Proposed Interim Actions as a Result of the Near-Term Task Force Recommendation 2.1 Flooding Reevaluation," to facilitate inspection of those actions.

Based on the flood hazard reevaluation reports received to date, the majority of sites indicated that they will be performing an integrated assessment. All sites have indicated that, if an integrated assessment is needed, they intend to use JLD-ISG-2012-05, "Guidance for Performing the Integrated Assessment for External Flooding." The integrated assessments are due to the NRC two years after the submittal of the hazard reevaluation report. The NRC staff has engaged with industry to support the development of several examples of applying JLD-ISG-2012-05. After the integrated assessments are received from the required plants, the staff will use existing regulatory processes to document and, if appropriate, take actions based on the information received.

Emergency Preparedness Staffing and Communications

The March 12, 2012, RFI letter asked licensees to assess a large-scale event that causes the loss of all alternating current power and might affect multiple reactors at their site. It also requested that licensees assess and implement enhancements to help ensure that communications can be maintained during such an event.

All licensees submitted their communications assessments by October 31, 2012. The NRC staff issued safety assessments documenting the staff's review to each licensee by July 2013 with the exception of SONGS, Units 2 and 3, which have ceased operation.

On April 30, 2013, licensees submitted their staffing assessments based on existing station blackout coping strategies with an assumption of multiple reactors being affected concurrently. On October 23, 2013 (ADAMS Accession No. ML13233A183), the NRC staff issued the Phase 1 staffing-assessment response letters for all of the multiunit sites except Arkansas Nuclear One (ANO), Units 1 and 2; Indian Point Nuclear Generating (Indian Point) Unit Nos. 2 and 3; and SONGS. On April 28, 2014, the staff issued letters for ANO (ADAMS Accession No. ML14112A372) and Indian Point (ADAMS Accession No. ML14112A363) after reviewing the responses to requests for additional information.

By June 2014, the NRC staff received Phase 2 staffing assessments for the licensees required to submit additional staffing details four months prior to the second refueling outage occurring in Fall 2014. The staff has reviewed those licensee assessments and has begun to issue Phase 2 staffing assessments for those respective plants.

Rulemaking concerning staffing and communications is included in the consolidated rulemaking activity approved in SRM-SECY-14-0046.

Mitigation of Beyond-Design-Basis Events Rulemaking

The NRC staff has consolidated the Station Blackout Mitigation Strategies rulemaking with the Onsite Emergency Response Capabilities rulemaking as well as the portions of NTTF Recommendations 9, 10, and 11 that are already being addressed as part of the Mitigating Strategies Order (NRC Order EA-12-049) implementation (NTTF Recommendation 4.2), NTTF Recommendation 8, and items already being implemented by industry, in accordance with the Commission SRM that approved the staff's proposal in Enclosure 6 to COMSECY-14-0046 (ADAMS Accession No. ML14190A347). The combined rulemaking will now be referred to as the Mitigation of Beyond-Design-Basis Events rulemaking. As part of its efforts to develop and provide the proposed rule package to the Commission at the end of this year, the staff held a public meeting on August 26, 2014, to discuss draft language; potential severe accident management guidelines requirements, including the draft supporting backfit justification concepts; and comments on supporting guidance.

In accordance with SRM-COMSECY-14-0046, the proposed rule due date to the Commission changed from July 25, 2014, to December 31, 2014; and the final rule due date changed from March 11, 2016, to December 27, 2016. The staff plans to issue supporting guidance for the rule that cites industry guidance currently under development by NEI. The staff continues to work with industry to ensure that supporting guidance is developed on a timeline commensurate with the rule schedule.

This update closes SECY tracking 201300052 based on COMSECY-13-0002.

Enhancements to the Capability To Prevent or Mitigate Seismically-Induced Fires and Floods

This lessons learned activity originated from NTTF Recommendation 3, and was intended to evaluate potential enhancements to the capability to prevent or mitigate seismically-induced fires and floods. In SRM-SECY-11-0137, the Commission directed the staff to initiate development of a PRA methodology to evaluate potential enhancements to plants' capability to prevent or mitigate seismically-induced fires and floods as part of Tier 1 activities. However, to be consistent with the program plan for NTTF Recommendation 3 in SECY-12-0095, "Tier 3 Program Plans and 6-Month Status Update in Response to Lessons Learned from Japan's March 11, 2011, Great Tohoku Earthquake and Subsequent Tsunami" (ADAMS Accession No. ML12165A092), carrying out the broader evaluation (i.e., beyond the PRA methodology) of potential enhancements to the capability to prevent or mitigate seismically-induced fires and floods would remain a longer-term Tier 3 activity. In SECY-12-0095, the NRC staff supplied the following schedule and milestones to address NTTF Recommendation 3 for seismically-induced fires and floods:

- (1) Continue development of PRA methodology for seismically-induced fires and floods. This will include two main subtasks:
 - (a) Engagement with PRA-standards development organizations to develop the technical elements and standards for the PRA method (ongoing); and
 - (b) Completion of a feasibility scoping study to evaluate PRA approaches for assessing multiple concurrent events (December 2015).
- (2) Reevaluate NTTF Recommendation 3 based on information obtained from Tier 1 activities and PRA-method development activities, as well as recommend further activities (December 2016).

The NRC staff continues engagement with the ASME (formerly the American Society of Mechanical Engineers) and the American Nuclear Society (ANS) Joint Committee on Nuclear Risk Management (JCNRM) to leverage external stakeholders' expertise and to better focus future method-development efforts. Following JCNRM approval of the incorporation of a number of crosscutting issues in the ASME/ANS PRA standard, including concurrent initiating events such as seismically-induced fires and floods, implementation guidance has been provided to the PRA writing groups associated with affected parts of the standard. The NRC staff will continue engagement with ASME and ANS to support development of detailed standards requirements in this area.

Following the December 2013 public workshop held in Rockville, Maryland, and issuance of the associated workshop report (ADAMS Accession No. ML14022A249), work is continuing on the feasibility scoping study. The main objective of this scoping study is to better define the objectives and potential approaches for a PRA method suitable for assessing seismically-induced fires and floods. This work is expected to benefit from the information and recommendations gathered in the workshop. As a part of the technical work plan developed for this project, a draft feasibility report is being prepared in calendar year 2014. Based on input received at the workshop and subsequent discussion with some workshop participants, the feasibility report will also discuss risk analysis approaches, such as screening methods, that will not necessarily lead to complete PRAs.

Two expert panels have been identified to comment on the report and provide additional guidance that will be included in the report, which will then be issued in 2015 as the final product of the present work scope. The expert panels will include subject matter experts (i.e., seismic analysis, PRA, and internal-fire analysis) from industry, national labs, and the NRC. One panel will address seismically-induced fire issues and will include experts in both seismic and fire risk analysis. The other panel will address seismically-induced floods and will include experts in seismic risk analysis and flooding risk. Both panels will be asked to provide guidance on: (1) what structures, systems, and components (SSCs) can be screened from a seismically-induced fire or flood analysis, (2) how the unscreened SSCs can best be treated, and (3) what other issues (e.g., operator response) need special considerations in seismically-induced fire and flood scenarios.

The NRC staff will continue to monitor the progress of other NTTF recommendations related to this issue to appropriately factor additional information related to seismic and flooding hazards and mitigation strategies into the eventual resolution of NTTF Recommendation 3.

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 09/08/15**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFPI

- **Audits** – 49/63 Complete
 - TMI staff and management re-visit (09/09-10/15)
- RCP Seals – Engaging individual licensees; Data and path forward by 09/11/15
- Relaxation requests
 - Seabrook – Back-up for SEPS (Nov 2015 to May 2016)
 - V.C. Summer – Feedwater modification (Nov 2015 to May 2016)
 - Waterford – FLEX building (Nov 2015 to May 2016)

Vents

- Phase 2 OIP template
 - Final public meeting (08/25/15); expect submittal & endorsement in September
- WP on tornado missile protection – Submittal for endorsement (08/18/15)
- Oyster Creek relaxation request – Completed seismic evaluation of HCVS

Flooding

- FHRR
 - Staff Assessments – 11/61 issued; 7 in progress
 - Action plan rollout letter to industry (09/02/15)
 - **Hazard Acceptance Letters** – 10/44 issued (5 in concurrence)
 - Memo to RAs on re-evaluated hazard treatment
- **NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)**
 - NEI submitted (08/25/15)
 - Addressing internal comments from DSEA & DRA – Internal meeting 09/08/15
 - Public meeting (09/09/15)
 - Target issuance of ISG for public comment prior to industry workshop (early Nov)
- **Calvert Cliffs to credit revised FHRR during Focused Evaluation**

Seismic

- CEUS
 - 28/59 Staff Assessments of GMRS issued
 - 20/34 ESEP Assessment Letters issued
- WUS
 - Feedback on acceptability of GMRS by 12/31/15
 - GMRS audit for Diablo Canyon (09/11/15)
- **NEI 12-06 Appendix H**
 - NEI submitted draft to NRC (08/20/15)
 - Public meeting (09/03/15)
- **SPRA Re-screening**
 - Target issuance of re-screening letter by 09/18/15
 - Sequencing schedule discussed at 09/03/15 public meeting
- High frequency guidance endorsement – Targeting 09/21/15
 - Pending OMB review
- **Diablo Canyon Town Hall Meeting** (09/23/15) – Britt Hill (NRO/DSEA)

Rulemaking

- MBDBE – Final SRM issued 08/27/15
 - NRR & DEDO Alignment Meeting on Path Forward (09/02/15)
 - Revised rulemaking package to Commission (10/16/15)
- CPRR – Final SRM issued 08/19/15
 - ACRS – Full Committee meeting (09/09-12/15)

Other Items

- Tier 2/3
 - Draft SECY paper to DDs for concurrence & SC for awareness (09/11/15)
 - JLD Steering Committee – Decision on plans (09/29/15)
 - Engagement with ACRS
 - Draft plans to ACRS Chair & Fukushima Sub-Committee chair (08/07/15)
 - Meeting with ACRS Chair & Fukushima Sub-Committee chair (08/20/15)
 - Sub-Committee briefing (10/06/15)
 - Draft plans to ACRS (09/11/15) – caveat about SC meeting
 - Full Committee briefing (11/05/15)
 - Draft SECY to ACRS (10/16/15) – parallel to final routing
 - Potential ACRS briefings on specific recommendations (TBD)
 - Notation Vote Paper to Commission (10/30/15)
 - Potential Commission Meeting (11/17/15)
- DEDR Direct Reports Meeting (09/15/15)

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 08/25/15**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFPI

- **Audits** – 49/63 Complete
 - Call with Exelon executives on TMI audit (08/26/15)
- **Developing initial Safety Evaluations** – 6 by 12/31/15
 - Inspections being scheduled for early 2016
- RCP Seals – Engaging individual licensees; Data and path forward by 09/08/15
- Relaxation requests
 - Seabrook – FLEX building (Nov 2015 to May 2016)
 - V.C. Summer – FLEX building (Nov 2015 to May 2016)
 - Waterford ~~(anticipated)~~ – FLEX building (Nov 2015 to May 2016)

Vents

- **Phase 2 OIP template**
 - Final public meeting (08/25/15); expect submittal & endorsement in September
- WP on tornado missile protection – Submittal for endorsement (08/18/15)
- Oyster Creek relaxation request – Completed seismic evaluation of HCVS

Flooding

- FHRR
 - Staff Assessments – 11/61 issued; 7 in progress
 - **Action plan rollout letter to industry ready for ET signature**
 - **Hazard Acceptance Letters** – 0/44 issued (15 near issuance; received NLO)
- NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)
 - Drop-in with NEI 08/17/15 – Alignment on remaining issues
 - Plant equipment used for AMS/THMS will have same attributes as FLEX
 - Credit validation of existing plant processes/procedures for AMS/THMS
 - Concept/philosophy of FLEX deployment as back-up for AMS/THMS
 - Target issuance of ISG for public comment prior to industry workshop (early Nov)
- **Indian Point** – JLD/DSEA management visit to discuss path forward (08/31/15)

Seismic

- CEUS
 - 26/59 Staff Assessments of GMRS issued
 - 11/34 ESEP Assessment Letters issued
- WUS
 - Feedback on acceptability of GMRS by 12/31/15
 - GMRS audit for Diablo Canyon (08/27-28/15)
- **NEI 12-06 Appendix H**
 - NEI submitted of draft to NRC (08/20/15)
 - Drop-in to discuss remaining issues & schedule (08/25/15)
 - C10% scope
 - SPRA outcome
 - FLEX protection & deployment
 - Public meeting (09/03/15)

- **SPRA Re-screening**
 - Targeting issuance of re-screening letter by 09/04/15
 - NEI proposed sequencing schedule (Mar 2017 – Dec 2019)
- High frequency guidance endorsement – targeting 09/04/15
- **Diablo Canyon Town Hall Meeting** (09/23/15)

Rulemaking

- MBDBE – SRM version C near agreement
 - WCO vote (Approved; Disapproved SAMGs & New Rx provision)
 - KLS vote (Approved; Disapproved SAMGs & New Rx provision)
 - SGB vote (Approved; Disapproved SAMGs & New Rx provision)
 - JMB vote (Approved; Approved SAMGs & New Rx provision)
- CPRR
 - 3 votes (SGB, WCO, KLS) for Option 1 – No further action; SRM pending
 - ACRS
 - Subcommittee meeting (08/18/15)
 - Full Committee meeting (09/09-12/15)

Other Items

- Tier 2/3
 - Division Director alignment meetings (complete – 08/17/15)
 - Briefing and DEDR/ET (complete – 08/18/15)
 - **Drop-in with NEI** (complete – 08/19/15)
 - Draft SECY paper to DDs for concurrence & SC for awareness (09/11/15)
 - **CA Briefing to support hearings** (TBD)
 - JLD Steering Committee – Decision on plans (09/29/15)
 - **Engagement with ACRS**
 - Draft plans to ACRS Chair & Fukushima Sub-Committee chair (08/07/15)
 - Meeting with ACRS Chair & Fukushima Sub-Committee chair (08/20/15)
 - Sub-Committee briefing (10/06/15)
 - Draft plans to ACRS (09/11/15) – caveat about SC meeting
 - Full Committee briefing (11/05/15)
 - Draft SECY to ACRS (10/16/15) – parallel to final routing
 - Potential ACRS briefings on specific recommendations (TBD)
 - Notation Vote Paper to Commission (10/30/15)
 - Potential Commission Meeting (11/17/15)
- **Memo to RAs on re-evaluated hazard treatment**
- Plans for additional Regional engagement
 - Potential workshop in Baltimore/DC area
 - Interactions with DDs and DDDs
- DEDR Direct Reports Meeting (09/15/15)

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 08/18/15**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFPI

- Audits – 47/63 Complete; 2 in progress (Turkey Point, Diablo Canyon)
 - TMI – Numerous open items; likely need relaxation request & additional audit
- RCP Seals
 - Audit @ Westinghouse Rockville (08/11/15) – leak off line pressure
- SDP/Screening questions
- Relaxation requests
 - Seabrook – FLEX building (Nov 2015 to May 2016)
 - V.C. Summer – FLEX building (Nov 2015 to May 2016)
 - Waterford (potential) – FLEX building (Nov 2015 to May 2016)

Vents

- Phase 2 OIP template
 - Final public meeting (08/25/15)
 - Expect submittal for endorsement in late September
- Oyster Creek relaxation request – Completed seismic evaluation of HCVS
- WP on tornado missile protection – Expect submittal for endorsement in late August

Flooding

- FHRR
 - Staff Assessments – 11/61 issued; 7 in progress
 - Hazard Acceptance Letters – 0/44 issued (15 near issuance; received NLO)
 - Action plan rollout letter to industry (Issue prior to Hazard Letters)
- NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)
 - Drop-in with NEI 08/17/15
 - Plant equipment used for AMS/THMS will have attributes similar to FLEX
 - Credit existing plant processes/procedures for AMS/THMS validation
 - Concept/philosophy of FLEX deployment as back-up for AMS/THMS
 - Target issuance for public comment prior to 10/07/15

Seismic

- CEUS
 - 26/59 Staff Assessments of GMRS issued
 - 9/34 ESEP Assessment Letters issued
- WUS
 - Feedback to licensees on acceptability of GMRS by 12/31/15
 - GMRS audit for Diablo Canyon (week of 08/24/15)
- NEI 12-06 Appendix H
 - NEI targeting submittal of draft to NRC by 08/20/15
- High frequency guidance endorsement – targeting 08/31/15
- SPRA Re-screening
 - Targeting issuance of screening letter by 08/31/15
 - NEI proposing sequencing schedule (Jan 2017 – Dec 2019)
 - Additional Risk Reduction Insights (Desire for SPRA relief)

Rulemaking

- MBDBE – SRM version B incorporated majority of ACCs
 - WCO vote (Approved; Disapproved SAMGs & New Rx provision)
 - KLS vote (Approved; Disapproved SAMGs & New Rx provision)
 - SGB vote (Approved; Disapproved SAMGs & New Rx provision)
 - JMB vote (Approved; Approved SAMGs & New Rx provision)
- CPRR
 - 3 votes (SGB, WCO, KLS) for Option 1 – No further action
 - ACRS
 - Subcommittee meeting (08/18/15)
 - Full Committee meeting (09/10-12/15)

Other Items

- Tier 2/3
 - Division Director alignment meetings (complete – 08/17/15)
 - Briefing and DEDR/ET (08/18/15)
 - Drop-in with NEI (08/19/15)
 - Draft SECY paper to DDs for concurrence & SC for awareness (09/11/15)
 - JLD Steering Committee – Decision on plans (09/29/15)
 - Engagement with ACRS
 - Draft plans to ACRS Chair & Fukushima Sub-Committee chair (08/07/15)
 - Meeting with ACRS Chair & Fukushima Sub-Committee chair (08/20/15)
 - Potential Sub-Committee briefing (early October)
 - Potential ACRS briefings on specific recommendations (TBD – after Oct)
 - Notation Vote Paper to Commission (10/30/15)
 - Potential Commission Meeting (11/17/15)
- Memo to RAs on re-evaluated hazard treatment
- Plans for Regional Engagement
 - Workshop in Baltimore/DC area
 - Engagement with DDs and DDDs
- DEDR Direct Reports Meeting

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 07/29/2015**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFPI

- Audits – 44/63 Complete; 1 in progress
- Division Director Counterpart Meeting (07/28/15)
- Seabrook [redacted] relaxation request [redacted] – FLEX building (Nov [redacted] 2015 to May 2016) (b)(5) Deliberative
- Potential Waterford relaxation request – FLEX building (Nov 2015 to May 2016)

Vents

- Public Meeting on Phase 2 template (07/28/15) (b)(5) Deliberative
- Oyster Creek relaxation request – Awaiting seismic evaluation of HCVS
- WP on tornado missile protection – Expect submittal for endorsement in late August

Flooding

- FHRR
 - Staff Assessments – 11/61 issued
 - Hazard Acceptance Letters – 0/44 issued (14 near issuance)
 - Action plan rollout letter to industry (NLT 07/31/15)
- NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)
 - Drop-in with NEI 08/05/15

Seismic

- CEUS
 - 22/59 Staff Assessments of GMRS issued
 - 7/34 ESEP Assessment Letters issued
- WUS
 - Feedback to licensees on acceptability of GMRS by 12/31/15
 - GMRS audit for Diablo Canyon (week of 08/03/15)
- NEI 12-06 Appendix H
 - NEI targeting submittal for endorsement 08/15/15
- SPRA
 - Targeting issuance of relief letter by 08/31/15
 - Discuss sequencing SPRAs with NEI
 - Additional Risk Reduction Insights (Desire for SPRA relief)
 - Exelon submittal (LaSalle & Dresden) – 07/25/15

Rulemaking

- MBDBE
 - WCO vote (Approved; Disapproved SAMGs & New Rx provision)
 - KLS vote (Approved; Disapproved SAMGs & New Rx provision)
- CPRR
 - KLS vote (Option 2 (codify EA-13-109) and include SAWA/SAWM in guidance)
 - Public meeting on draft regulatory basis (TBD); based on Commission direction

Other Items

- Memo to Regions on reevaluated hazards
- Utility Working Conference
 - Meet with Industry Fukushima Steering Committee (08/11/15 @ 4:00)
 - Meet with NSIAC (08/12/15 @ 4:00)
 - Meet with NEI (08/12/15 @ 5:00)
- Tier 2/3
 - Division Director strategy meetings (complete – week of 06/15/15)
 - Closeout plans drafted; ready for JLD management review (08/05/15)
 - Public meeting with NEI (week of 08/10/15)
 - Info brief for cognizant Division Directors (week of 08/17/15)
 - Info brief for DEDR & impacted Office Directors to support review (08/25/15)
 - JLD Steering Committee – Decision on plans (09/29/15)
 - Engagement with ACRS
 - Draft plans to staff & Fukushima Sub-Committee chair (10/02/15)
 - Sub-Committee briefing (October)
 - Full Committee briefing (TBD – After submission to Commission)
 - Notation Vote Paper to Commission (10/30/15)

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 07/23/2015**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFPI

- Audits – 42/63 Complete; 2 in progress
 - DEDR observe Davis Besse (11/02/15)
- Management call PWROG on Westinghouse RCP Seal resolution options (07/16/15)
- Increasing communication with Regions/DIRS/DRA
 - JLD/DIRS/DRA Division Management Meeting (07/13/15)
 - Division Director Counterpart Meeting (07/28/15)
 - Observation of validation activities (TBD)
- SDP development and credit for other applications
 -

Vents

- Public Meeting on Phase 2 template (07/28/15)
- Oyster Creek relaxation request – Awaiting seismic evaluation of HCVS
- WP on tornado missile protection – Expect submittal for endorsement in late August

Flooding

- FHRR
 - Staff Assessments – 11/61 issued
 - Hazard Acceptance Letters – 0/44 issued
 - Action plan rollout letter to industry (NLT 07/31/15)
- NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)
 - Public Meeting on 07/17/15

Seismic

- CEUS
 - 19/59 Staff Assessments of GMRS issued
 - 5/34 ESEP Assessment Letters issued
- WUS
 - Feedback to licensees on acceptability of GMRS by 12/31/15
 - ESEP relief letter to Diablo Canyon (issued 07/15/15)
- NEI 12-06 Appendix H
 - Public meeting on 07/15/15
 - NEI targeting submittal for endorsement 08/15/15
- SPRA
 - Targeting issuance of relief letter by 08/31/15
 - Discuss sequencing SPRAs with NEI
 - Public meetings on Additional Risk Reduction Insights (Desire for SPRA relief)
 - TVA (Browns Ferry) – 07/14/15
 - Exelon (LaSalle & Dresden) – 07/25/15

Rulemaking

- MBDBE
 - WCO vote received (Approved; Disapproved SAMGs & New Rx provision)

- CPRR
 - CA brief (07/16/15)
 - Public meeting on draft regulatory basis (TBD); based on Commission direction

Other Items

- Memo to Regions on reevaluated hazards
 - Meeting with ET on 07/20/15
- Utility Working Conference
 - Meet with Industry Fukushima Steering Committee (08/11/15 @ 4:00)
 - Meet with NSIAC (08/12/15 @ 4:00)
 - Meet with NEI (08/12/15 @ 5:00)
- Tier 2/3
 - Division Director strategy meetings complete (week of 06/15/15)
 - Public meeting with NEI (TBD – early August)
 - Closeout plans drafted; ready for JLD management review (08/05/15)
 - Brief NRR ET & DEDR on plans (08/25/15)
 - Brief JLD Steering Committee (09/22/15)
 - Submit closeout plans to Commission – INFOSECY or Notation Vote (10/30/15)
 - Formal engagement with ACRS (TBD – After submission to Commission)

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 06/30/2015**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFPI

- Audits – 40/63 Complete
- Oversight of NSRCs
 - Training on MS for NRO Vendor Inspectors (07/01/15)
 - Visit to PV & Phoenix NSRC (07/07-08/15)
- Increasing communications with Regions/DIRS/DRA (b)(5) Deliberative Privilege
 - Scope and depth of FLEX reviews
 - Integration of FLEX with other processes/regulations

(b)(5) Deliberative Privilege

Formatted

Vents

- Oyster Creek relaxation request
 - Awaiting evaluation of seismic qualification of existing HCVS (expect mid-July)
- Draft WP on tornado missile protection
 - Informal feedback of staff concerns (reliance on single component)

Flooding

- FHRR
 - Staff Assessments – 11/61 Issued
 - August Letters – 0/22 issued
 - December Letters – 0/22 issued
- FHRR Audits
 - Salem & Hope Creek (06/22/15)
 - Fort Calhoun & Cooper (06/24/15)
- SRM Action Plan – with OEDO
- TI-190 Revision to DIRS – Extend expiration date to Dec 2016

Seismic

- CEUS – 16/59 Staff Assessments of GMRS issued
- WUS – Feedback to licensees on acceptability of GMRS by 12/31/15
 - RAI issued to Diablo Canyon on site response (06/26/15)
- ESEP – 4/34 Staff Assessments issued
- Final staff comments to NEI on High Frequency Evaluation Guidance (06/26/15)
- NEI 12-06 Appendix H – Industry working on proposal specifics

Rulemaking

- MBDBE
 - Commission Meeting (07/09/15)
- CPRR

- ACRS meeting on draft regulatory basis (07/06/15)
- Public meeting on draft regulatory basis (TBD)

Other Items

- SECY on Other Regulated Facilities signed (publicly available 06/25/15)
- Memo to DPR/DRS Directors on reevaluated hazards
- Diablo Canyon
 - Annual Assessment Meeting (06/24/15)
 - Potential Town Hall Meeting (09/23/15)
- Meet with Industry Steering Committee at UWC (08/12/15)
- Tier 2/3
 - Division Director strategy meetings complete (week of 06/15/15)
 - Responses to Commissioner Ostendorff (06/30/15)
 - Draft closeout plans (08/05/15)
 - Brief NRR ET & DEDR on plans (08/25/15)
- NEI Timeline Slide

Letter to Exelon Approving Relaxation of Order EA-13-109 Schedule Requirements

Document: Approval of Exelon's request for relaxation of Phase 1 schedule requirements for Oyster Creek Nuclear Generating Station associated with NRC Order for severe accident capable reliable hardened vents, EA-13-109. (ADAMS Accession No. ML15092A159)

Date of issuance: November 13, 2015 (Tentative)

Formatted: Highlight

Purpose and content of document:

- Order EA-13-109, "Issuance of Order to Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions," directs operating boiling-water reactor (BWR) licensees with Mark I and Mark II containment designs to install a reliable hardened containment vent system.
- The Order provides the Director of the Office of NRR the authority to relax or rescind any or all of the conditions of the Order upon demonstration by the licensee of good cause.
- The Order includes two phases:
 - Phase 1 requires the installation of a wetwell venting capability.
 - Phase 2 requires the installation of a drywell venting capability or a strategy that makes it unlikely that venting from the drywell would be needed.
- Based on the timelines specified in the Order, Exelon is currently required to implement Phase 1 of the order at Oyster Creek by startup from the fall 2016 refueling outage and Phase 2 by startup from the fall 2018 refueling outage.
- On June 2, 2014 (ADAMS Accession No. ML14153A421) Exelon requested an extension for both phases of the order until January 31, 2020.
- Exelon has indicated intent to cease operations at Oyster Creek at the end of 2019 and submit a request for rescission of the hardened vent order to the NRC at that time.
- The NRC staff has evaluated Exelon's request and expects to issue approval for the requested schedule relaxation of Phase 1 requirements by November 13, 2015 (ADAMS Accession No. ML15092A159).

Key Messages:

- The approved schedule relaxation applies only to Phase 1 of the hardened vent order. Phase 1 relates to the installation of a hardened vent capability from the wetwell (i.e. primary containment).
- Oyster Creek is installing plant modifications and completing procedural changes to provide compensatory measures during the relaxed time period that the fully-compliant Phase 1 hardened vent is not installed. These compensatory actions include the installation of an additional compressed gas capability to remotely operate the existing hardened containment vent system during an extended loss of all ac power (ELAP) condition. These modifications are scheduled to be complete by the fall of 2016.

Commented [HM1]: Is any of this information public?

- The NRC staff continues to review Exelon's request for schedule relief associated with Phase 2 of the order for Oyster Creek. Phase 2 relates to the installation of a hardened vent capability for the drywell or a strategy that makes it unlikely that venting from the drywell would be needed. Specifically, NRC is awaiting supplemental information from Exelon that directly addresses the endorsed guidance regarding Phase 2 of the order that was issued subsequent to the original relaxation request. The licensee is expected to identify actions that will be taken to provide additional defense-in-depth during the period of relaxation that are specific to the Phase 2 guidance and requirements.
- The NRC is issuing a relaxation of the order, not rescinding the order. Since the order is relaxed rather than rescinded, the requirements of the order will remain in effect for Oyster Creek at the end of the period of relaxation which is until January 31, 2020. Should Exelon change the decision regarding shutting down Oyster Creek, the order requirements will still be in place.

Formatted: Font: (Default) Arial

Commented [TB2]: I know we talked on the phone with them about the same strategy we employed for Phase 1 being applied to Phase 2; however, I don't think we've formally requested any information from them.

(b)(5) Deliberative Privilege

Oyster Creek Relaxation of Order EA-13-109 Schedule Requirements

Document: Approval of Exelon's request for relaxation of Phase 1 schedule requirements for Oyster Creek Nuclear Generating Station associated with NRC Order EA-13-109.

(b)(5)

Deliberative

Date of issuance: November 13, 2015 (Tentative)

Purpose and content of document:

- Order EA-13-109, "Issuance of Order to Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions," directs operating boiling-water reactor licensees with Mark I and Mark II containment designs to install a reliable hardened containment vent system in two phases:

Formatted: Bulleted + Level: 1 + Aligned at: 0.25" + Indent at: 0.5"

- Phase 1 requires the installation of a wetwell venting capability.
- Phase 2 requires the installation of a drywell venting capability or a strategy that makes it unlikely that venting from the drywell would be needed.

(b)(5)

Deliberative

- Exelon is currently required to implement Phase 1 at Oyster Creek by startup from the fall 2016 refueling outage and Phase 2 by startup from the fall 2018 refueling outage.
- On June 2, 2014 (ADAMS Accession No. ML14153A421) Exelon requested an extension for both phases of the order until January 31, 2020. Exelon has indicated intent to cease operations at Oyster Creek at the end of 2019.
- The NRC staff has evaluated the request and expects to issue approval for relaxation of Phase 1 requirements by November 13, 2015 (ADAMS Accession No. ML15092A159).

Key Messages:

- The approved schedule relaxation applies only to Phase 1 of the hardened vent order.
- The duration of the NRC staff's review has been for due diligence. NRC staff compared the requirements of the order and the NRC-endorsed industry guidance with the plant design and the licensee's planned compensatory measures to determine whether the licensee was meeting the intent of the order. Initially, Exelon did not provide adequate information for the staff to complete this type of review.
- Oyster Creek is installing plant modifications to provide compensatory measures during the relaxed time period that the fully-compliant Phase 1 hardened vent is not installed, including additional compressed gas capability to remotely operate the existing hardened containment vent system during an extended loss of all ac power condition. These modifications are scheduled to be complete by the fall of 2016.
- The NRC staff is reviewing Exelon's request for schedule relief for Phase 2 of the order using a similar approach to that used for the Phase 1 request.

Formatted: Indent: Left: 0.5", No bullets or numbering

Formatted: Font color: Auto

Formatted: Font: Arial, Font color: Auto

Formatted: Font color: Auto

Formatted: Font: Arial, Font color: Auto

Formatted: Font: Arial, Font color: Auto

Formatted: Indent: Left: 0.5", No bullets or numbering

Commented [mkh1]: Is there compressed gas capability in the current plant configuration? If not, delete "an additional." If yes, keep "additional" and just delete the "an".

(b)(5)

Deliberative

(b)(5)
Deliberative

(b)(5)
Deliberative

(b)(5) Deliberative Privilege

The industry guidance for compliance with Phase 2 and the NRC staff's endorsement of that guidance were issued in mid-2015, subsequent to the Oyster Creek relaxation request.

(b)(5)
Deliberative
Privilege

- The NRC is [redacted] relaxing, not rescinding [redacted] the order at this time. Using this approach, the order requirements will remain in effect for Oyster Creek at the end of the period of relaxation, should Exelon change its decision to cease operations at the plant. Exelon has indicated intent to request rescission of the EA-13-109 order requirements once Oyster Creek is permanently shut down.

(b)(5)
Deliberative
Privilege

Oyster Creek Relaxation of Order EA-13-109 Schedule Requirements

Document: Approval of Exelon's request for relaxation of Phase 1 schedule requirements for Oyster Creek Nuclear Generating Station associated with NRC Order EA-13-109. (ADAMS Accession No. ML15092A159)

Date of issuance: November 13, 2015 (Tentative)

Purpose and content of document:

- Order EA-13-109, "Issuance of Order to Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions," directs operating boiling-water reactor licensees with Mark I and Mark II containment designs to install a reliable hardened containment vent system in two phases:
 - Phase 1 requires the installation of a wetwell venting capability.
 - Phase 2 requires the installation of a drywell venting capability or a strategy that makes it unlikely that venting from the drywell would be needed.
- Based on the timelines specified in the Order, Exelon is currently required to implement Phase 1 at Oyster Creek by startup from the fall 2016 refueling outage and Phase 2 by startup from the fall 2018 refueling outage.
- On June 2, 2014 (ADAMS Accession No. ML14153A421) Exelon requested an extension for both phases of the order until January 31, 2020. Exelon has indicated intent to cease operations at Oyster Creek at the end of 2019.
- The NRC staff has evaluated the request and expects to issue approval for relaxation of Phase 1 requirements by November 13, 2015 (ADAMS Accession No. ML15092A159).

Key Messages:

- The approved schedule relaxation applies only to Phase 1 of the hardened vent order.
- Oyster Creek is installing plant modifications to provide compensatory measures during the relaxed time period that the full-compliant Phase 1 hardened vent is not installed, including compressed gas capability to remotely operate the existing hardened containment vent system during an extended loss of all ac power condition. These modifications are scheduled to be complete by the fall of 2016.
- The NRC staff is reviewing Exelon's request for schedule relief for Phase 2 of the order for Oyster Creek. Similar to the approach used for the Phase 1 request, the staff is comparing the requirements of the order and NRC-endorsed industry implementation guidance with the plant's current design and any planned compensatory measures. The industry guidance for compliance with Phase 2 and the NRC staff's endorsement of that guidance were issued in mid-2015, subsequent to the Oyster Creek relaxation request.
- The NRC is issuing a relaxation of the order, not rescinding the order at this time. Using this approach, the order requirements will remain in effect for Oyster Creek at the end of the period of relaxation, should Exelon change its decision to cease operations at the plant. Exelon has indicated intent to request rescission of the EA-13-109 order requirements once Oyster Creek is permanently shut down.

Commented [mkh1]: Is there compressed gas capability in the current plant configuration? If not, delete "an additional." If yes, keep "additional" and just delete the "an".

Oyster Creek Relaxation of Order EA-13-109 Schedule Requirements

Document: Approval of Exelon's request for relaxation of Phase 1 schedule requirements for Oyster Creek Nuclear Generating Station associated with NRC Order [EA-13-109](#).

(ADAMS Accession No. ML15092A159)

Date of issuance: November 13, 2015 (Tentative)

Purpose and content of document:

- Order EA-13-109, "Issuance of Order to Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions," directs operating boiling-water reactor licensees with Mark I and Mark II containment designs to install a reliable hardened containment vent system in two phases:

- (b)(5) Deliberative Privilege
- Phase 1 requires the installation of a wetwell venting capability.
- Phase 2 requires the installation of a drywell venting capability or a strategy that makes it unlikely that venting from the drywell would be needed.

- Based on the timelines specified in the Order, Exelon is currently required to implement Phase 1 at Oyster Creek by startup from the fall 2016 refueling outage and Phase 2 by startup from the fall 2018 refueling outage.

- On June 2, 2014 (ADAMS Accession No. ML14153A421) Exelon requested an extension for both phases of the order until January 31, 2020. Exelon has indicated intent to cease operations at Oyster Creek at the end of 2019.

The NRC staff has evaluated the request and expects to issue approval for relaxation of Phase 1 requirements by November 13, 2015 (ADAMS Accession No. ML15092A159).

Key Messages:

- The approved schedule relaxation applies only to Phase 1 of the hardened vent order.

- Oyster Creek is installing plant modifications to provide compensatory measures during the relaxed time period that the full-compliant Phase 1 hardened vent is not installed, including compressed gas capability to remotely operate the existing hardened containment vent system during an extended loss of all ac power condition. These modifications are scheduled to be complete by the fall of 2016.

Commented [mkh1]: We say this below; delete to shave length of document.

Formatted: Bulleted + Level: 1 + Aligned at: 0.25" + Indent at: 0.5"

Commented [mkh2]: COM is aware that NRR OD has this authority; no need to restate

Formatted: Comment Text, Indent: Left: 0.5"

Commented [mkh3]: I moved this to last bullet of document.

Commented [mkh4]: Repeat info

Commented [mkh5]: Is there compressed gas capability in the current plant configuration? If not, delete "an additional." If yes, keep "additional" and just delete the "an".

- The duration of our review has been for due diligence. Our review involved comparing the requirements of the order and the NRC-endorsed industry guidance with the plant design and the licensee's planned compensatory measures in order to determine whether the licensee was meeting the intent of the order. Initially, Exelon did not provide adequate information for the staff to complete this type of review.

(b)(5)
Deliberative
Privilege

Formatted: Font: (Default) Arial

Formatted: Indent: Left: 0.5", No bullets or numbering

(b)(5)
Deliberative
Privilege

- The NRC staff is reviewing Exelon's request for schedule relief for Phase 2 of the order for Oyster Creek. Similar to the approach used for the Phase 1 request, the staff is comparing the requirements of the order and NRC-endorsed industry implementation guidance with the plant's current design and any planned compensatory measures.

(b)(5)
Deliberative
Privilege

(b)(5)
Deliberative
Privilege

The industry guidance for compliance with Phase 2 and the NRC staff's endorsement of that guidance were issued in mid-2015.

(b)(5)
Deliberative
Privilege

Commented [mkh6]: Repeat info

(b)(5)
Deliberative
Privilege

subsequent to the Oyster Creek relaxation request.

(b)(5) Deliberative Privilege

(b)(5)
Deliberative
Privilege

- The NRC is issuing a relaxation of the order, not rescinding the order at this time. Using this approach, the order requirements will remain in effect for Oyster Creek at the end of the period of relaxation should Exelon change its decision to cease operations at the plant. Exelon has indicated intent to request rescission of the EA-13-109 order requirements once Oyster Creek is permanently shut down.

(b)(5)
Deliberative
Privilege

(b)(5)
Deliberative
Privilege

(b)(5)
Deliberative
Privilege

(b)(5)
Deliberative
Privilege

Formatted: List Paragraph, Bulleted + Level: 1 + Aligned at: 0.25" + Indent at: 0.5"

From: Titus, Brett
Sent: Thursday, June 11, 2015 9:57 AM
To: Hughey, John; Bailey, Stewart; Lee, Brian; Halter, Mandy
Cc: DiFrancesco, Nicholas
Subject: RE: Oyster Creek Draft Seismic Evaluation

(b)(5)

I spent some time talking with Nick DiFrancesco yesterday afternoon. [REDACTED]

[REDACTED]
(b)(5)

Nick, feel free to correct me if I've misconstrued the information from yesterday.

From: Hughey, John
Sent: Thursday, June 11, 2015 9:24 AM
To: Bailey, Stewart; Titus, Brett; Lee, Brian; Halter, Mandy
Subject: FW: Oyster Creek Draft Seismic Evaluation

FYI – the 8" and 10" Oyster Creek vent piping are Schedule 40 pipe.

Stew,
Did you get the info you were looking for such that we can chat with Exelon again?

Thanks,
John

John Hughey
Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

(b)(6) **From:** [REDACTED]
Sent: Thursday, June 11, 2015 9:09 AM
To: Hughey, John
Subject: RE: Oyster Creek Draft Seismic Evaluation

John – A question was asked about the pipe schedule for the 8" and 10" vent piping. Per C-1302-822-5320-041 R0, Hardened Vent Piping Stress Calc, both the 8" piping and the 10" piping are schedule 40.

Thanks.

(b)(6) [REDACTED]

(b)(6) **From:** [REDACTED]
Sent: Wednesday, June 10, 2015 12:27 PM

To: 'Hughey, John'

Subject: Oyster Creek Draft Seismic Evaluation

John – I am emailing you the Oyster Creek seismic evaluation white paper summarizing the discussion today.

Thanks.

(b)(6)

This Email message and any attachment may contain information that is proprietary, legally privileged, confidential and/or subject to copyright belonging to Exelon Corporation or its affiliates ("Exelon"). This Email is intended solely for the use of the person(s) to which it is addressed. If you are not an intended recipient, or the employee or agent responsible for delivery of this Email to the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this Email is strictly prohibited. If you have received this message in error, please immediately notify the sender and permanently delete this Email and any copies. Exelon policies expressly prohibit employees from making defamatory or offensive statements and infringing any copyright or any other legal right by Email communication. Exelon will not accept any liability in respect of such communications. -EXCIP

From: Hughey, John
Sent: Thursday, June 25, 2015 3:09 PM
To: Halter, Mandy
Subject: RE: OC vent order relaxation -request update

Sure – here goes:

Exelon is preparing a response to the staff's questions regarding the Oyster Creek Vent Order relaxation request concerning vent stack dilution and the seismic robustness of internal reactor building vent piping. The licensee is in the process of determining the best approach to evaluate each issue and will contact the PM once this has been decided and provide the expected supplement submittal date. Preliminarily, the licensee expects to provide the information by the end of July. The NRC Extension Request letter has been drafted and can be quickly updated with the supplemental information once it is received.

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Halter, Mandy
Sent: Thursday, June 25, 2015 2:50 PM
To: Hughey, John
Subject: OC vent order relaxation -request update

Hi John,

Can you give me a couple line update on the OC vent order relaxation? I'll need to give an update at Monday's management meeting. Specifically, I'm looking for an update on what info we are still waiting on from Exelon, when we expect to receive it, and the status of the draft response letter.

Thanks,

Mandy

Mandy K. Halter
Chief, Orders Management Branch (Acting)
Japan Lessons Learned Division
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
(301) 415-0560 | mandy.halter@nrc.gov

From: Halter, Mandy
Sent: Thursday, June 04, 2015 2:08 PM
To: Titus, Brett
Cc: Quinones-Navarro, Joylynn; Gibson, Lauren
Subject: RE: Request for inputs for next biweekly

Thanks, Brett.

Lauren – this letter doesn't alter Oyster Creek's previous schedule relaxation request. My opinion is that it would be confusing to mention the most recent letter from Oyster Creek and attempt to concisely explain its purpose. Therefore, I recommend we not mention it in the bi-weekly memo.

Mandy

From: Titus, Brett
Sent: Thursday, June 04, 2015 1:35 PM
To: Halter, Mandy
Cc: Quinones-Navarro, Joylynn; Gibson, Lauren
Subject: RE: Request for inputs for next biweekly

The attached letter is what came in from Oyster Creek. It doesn't request rescission of Phase 2 of the Order specifically, but it does reaffirm their earlier request for an extension on both Phases of the Order until the plant is shut down...after which they will request relief from the Order entirely based on being shut down. However you want to word it, the letter is attached.

From: Halter, Mandy
Sent: Thursday, June 04, 2015 1:29 PM
To: Titus, Brett
Cc: Quinones-Navarro, Joylynn; Gibson, Lauren
Subject: FW: Request for inputs for next biweekly

Brett – John Hughey is on leave....can you confirm what Lauren says below? I didn't think they had sent this in yet.

Thanks,
Mandy

From: Gibson, Lauren
Sent: Thursday, June 04, 2015 11:06 AM
To: Quinones-Navarro, Joylynn
Cc: Halter, Mandy
Subject: RE: Request for inputs for next biweekly

Good morning,

Did I hear correctly that Oyster Creek sent in a letter stating that they will not be doing Phase 2 of the vents order? Oyster Creek's extension request is mentioned in Enclosure 3, so I want to make sure it's accurate:

- On June 2, 2014, Exelon Generation Company, LLC (Exelon), submitted a request for an extension to comply with the NRC order for severe accident capable reliable hardened vents for the Oyster Creek Nuclear Generating Station (Oyster Creek). Based on the timelines specified in the order, Exelon is currently required to implement Phase 1 at Oyster Creek by startup after the fall 2016 refueling outage and Phase 2 by startup after the fall 2018 refueling outage. Exelon requested an extension for both phases of the order until January 31, 2020. Oyster Creek is expected to be permanently shutdown at that time. Subsequently, Oyster Creek submitted a letter dated May XX, 2015 (ADAMS Accession No. ML_____) , requesting that Phase 2 of the order be rescinded. The NRC staff is currently evaluating Exelon's request and may respond with separate letters addressing each of the phases.

Is this correct? Could you update what's missing?

Thanks,
Lauren

From: Quinones-Navarro, Joylynn
Sent: Wednesday, June 03, 2015 11:27 AM
To: Gibson, Lauren
Cc: Halter, Mandy
Subject: RE: Request for inputs for next biweekly

Lauren,

Here is JOMB's input:

Significant Recent Accomplishments:

- o delete bullets 2 (exit meeting with TVA), 3 (letter approving NEI alternative approach), and 4 (ACRS visit to Palo Verde and SAFER)

Activities Expected to Occur:

- o Using your proposed wording: On June 15, 2015, the staff plans to hold a public meeting with JSC. The focus of the meeting will be the development of the action plan on integrating the reevaluated hazards into Mitigating Strategies. The staff will also state that the long term oversight of the National SAFER Response Centers will be through the vendor inspection process.

No other updates needed from JOMB. If you have any questions, please let me know.

Thanks,

Joylynn M. Quinones-Navarro

Reactor Operations Engineer/Orders Management Branch
Japan Lessons-Learned Division

From: Gibson, Lauren
Sent: Tuesday, June 02, 2015 4:29 PM
To: Halter, Mandy; Quinones-Navarro, Joylynn
Subject: RE: Request for inputs for next biweekly

Mandy and Joy,

I think we should include in a biweekly that the decision on the long term oversight of the Regional Response Centers has been made. It's going to be discussed at the June 15th Joint Steering Committee, so it would probably be good to give the Commission a heads up before it goes public. However, we don't have a product

yet. Mandy, I believe you or your branch is working on a memo to file to be made public. Here are our options:

- 1) Include it in the blurb about the upcoming JSC meeting. "The focus of the meeting will be the development of the action plan on integrating the reevaluated hazards into Mitigating Strategies. The staff will also announce (state?) that the long term oversight of the National SAFER Response Centers will be through the vendor inspection process."
- 2) Write a look ahead for the memo to file if it will be issued in the next two weeks.

What do you think?

Thanks,
Lauren

From: Gibson, Lauren

Sent: Monday, June 01, 2015 11:08 AM

To: Auluck, Rajender; Oesterle, Eric; Reckley, William; Witt, Kevin; Philpott, Stephen; Govan, Tekia; Quinones-Navarro, Joylynn

Cc: Bowman, Gregory; Halter, Mandy; Shams, Mohamed; Inverso, Tara; DiFrancesco, Nicholas

Subject: Request for inputs for next biweekly

Good morning,

Please provide input to me for the next biweekly Commission Status Update Memo by **COB Wednesday, June 3, 2015**.

Here is the link to the last biweekly memo:

[View ADAMS P8 Properties ML15142A518](#)

[Open ADAMS P8 Document \(05/28/15 Periodic Commission Update on the Status of Tier 1 and Tier 2 Near-Term Task Force Recommendations \(Memorandum To: The Commissioners; From: Michael R. Johnson\)\)](#)

As a reminder, what we're looking for are:

- 1) Significant accomplishments since the last memo (**May 22—June 5**). Please include a brief description of any public meetings and their significant outcomes. Please also include any extension/relief requests received. Please include any correspondence with industry that was issued since the last memo. This should include: letters to NEI, letters from NEI, letters to multiple licensees, letters to individual licensees when the issue is particularly of interest (for example, Indian Point), and the first and last issuances of significant documents (such as staff assessments, etc.).
- 2) Expected upcoming activities/accomplishments/correspondence for the next two weeks (**June 8—June 19**). For the sake of being complete, please also include any correspondence with industry that you think will be issued or received by **June 26th**—three weeks out. We want to make sure that the Commission gets sufficient heads up in case the documents end up being issued or received earlier.
- 3) A review of the table in Enclosure 2 of the link to make sure it is up to date and best represents the status of each item.
- 4) A review of the information in Enclosure 3 of the link to make sure it is up to date regarding the status of rescissions, relaxations, and reliefs to Order and 50.54(f) letter requirements.

5) For flooding, a review of the information in Enclosure 4 to ensure that it is accurate as of June 5, 2015.

In addition to any items/changes you provide, I will reach out to you individually if we come up with any items for which we believe we need an input.

Thanks,

Lauren K. Gibson

Project Manager

Policy and Support Branch

Japan Lessons Learned Division

(301) 415-1056

From: Hughey, John
Sent: Monday, November 02, 2015 3:13 PM
To: Halter, Mandy; Titus, Brett
Subject: RE-Worked Talking Points For Oyster Creek Commissioner TA's Walkaround
Attachments: Talking Points Regarding Relaxation of EA-12-049 for TMI.docx

Importance: High

Mandy and Brett,

I have re-worked the Oyster Creek talking points elaborate on the Phase 2 review and place them in a format that the Commissioner TA's would be more familiar with.

Let me know if you have any comments. I am out on Tuesday on , but will be back on Wednesday. (b)(6)

Thanks,
John

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Hughey, John
Sent: Friday, November 06, 2015 9:31 AM
To: Weil, Jenny
Cc: Moreno, Angel; Halter, Mandy; Titus, Brett
Subject: RE: Update: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Jenny,

JLD BCs Mandy Halter and Brett Titus are providing the briefing. I'm not sure when it is scheduled to occur, but I will find out and let you know.

Thanks,
John

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Weil, Jenny
Sent: Friday, November 06, 2015 9:23 AM
To: Hughey, John <John.Hughey@nrc.gov>
Cc: Moreno, Angel <Angel.Moreno@nrc.gov>
Subject: RE: Update: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Thanks John. If you don't mind letting me know when the TA brief is scheduled, so I can come listen. Also, if you could tack on Angel on the list. He's my backup, just in case I'm out of the office.

~Jenny

From: Hughey, John
Sent: Friday, November 06, 2015 9:21 AM
To: Weil, Jenny <Jenny.Weil@nrc.gov>; Screnci, Diane <Diane.Screnci@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>
Subject: Update: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Good Morning,

JLD is delaying issuance of the Oyster Creek schedule relaxation approval letter issuance until next week. We now plan to issue the letter by next Friday, 11/13. We delayed the issuance in order to provide a requested briefing to the commission TA's. We are also continuing to expand and refine the talking points/key messages.

I will provide the talking points with the issued letter next week. We are working with our admin to ensure that the public listserv release of the letter is delayed to later than 10pm the same day.

Thanks and feel free to give me a call with any questions,
John

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Weil, Jenny
Sent: Tuesday, October 27, 2015 3:42 PM
To: Screnci, Diane <Diane.Screnci@nrc.gov>; Hughey, John <John.Hughey@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Thanks everyone, that will be helpful.

From: Screnci, Diane
Sent: Tuesday, October 27, 2015 2:44 PM
To: Hughey, John <John.Hughey@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Weil, Jenny <Jenny.Weil@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Thanks, John.

From: Hughey, John
Sent: Tuesday, October 27, 2015 2:16 PM
To: Screnci, Diane <Diane.Screnci@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Weil, Jenny <Jenny.Weil@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Diane and Neil,

Talking points have been developed and are being reviewed now. We will include the talking points with the final, signed relaxation approval letter.

Thanks,
Hughey

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Screnci, Diane

Sent: Tuesday, October 27, 2015 9:08 AM

To: Hughey, John <John.Hughey@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Weil, Jenny <Jenny.Weil@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>

Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Will we be getting some talking points? I think that would be helpful for OCA, OPA and the SLOs. Also, can we get a copy of the decision? Thanks.

Diane Screnci
Sr. Public Affairs Officer
USNRC, RI
610-337-5330

From: Halter, Mandy
Sent: Friday, November 06, 2015 8:57 AM
To: Titus, Brett
Subject: RE: Revised OC Talking Points

OK will call in a few after I finish something else

From: Titus, Brett
Sent: Friday, November 06, 2015 8:56 AM
To: Halter, Mandy
Subject: RE: Revised OC Talking Points

Course

From: Halter, Mandy
Sent: Friday, November 06, 2015 8:54 AM
To: Titus, Brett
Subject: RE: Revised OC Talking Points

Can I call you about this?

From: Titus, Brett
Sent: Friday, November 06, 2015 8:52 AM
To: Hughey, John; Halter, Mandy
Subject: RE: Revised OC Talking Points

Yes. The compressed gas modification is an additional capability.

(b)(5)

From: Hughey, John
Sent: Friday, November 06, 2015 8:28 AM
To: Halter, Mandy; Titus, Brett
Subject: RE: Revised OC Talking Points

Morning,

Mandy – I like your changes and I have accepted the edits and removed the comments to clean up the document except for the one regarding the existing compressed gas capability. My understanding is that the compensatory measure is installing a compressed capability that is in addition to the existing compressed gas capability for the HCVS.

Brett – is this your understanding as well?

Thanks,
John

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Halter, Mandy

Sent: Friday, November 06, 2015 7:21 AM

To: Hughey, John <John.Hughey@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>

Subject: RE: Revised OC Talking Points

John, Brett –

Thanks for your work on this. Attached are my edits. I tried to cut it down to one page while transmitting the most pertinent/useful info for the CAs.

Let me know if you disagree with the changes.

Thanks,
Mandy

From: Hughey, John

Sent: Thursday, November 05, 2015 1:31 PM

To: Titus, Brett; Halter, Mandy

Subject: RE: Revised OC Talking Points

Done and done. See attached.

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Titus, Brett

Sent: Thursday, November 05, 2015 1:26 PM

To: Hughey, John <John.Hughey@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>

Subject: RE: Revised OC Talking Points

Thanks, John.

My disclaimer is that I haven't done this type of briefing before, so I don't know exactly what information to include/exclude. Mandy, you have more expertise in this area, and I think you also said Jessie would give us a little help if he could. That being said, I think what John has put together is just the right information to get them up-to-speed and ready to engage in a dialogue during the walk-around.

Two minor nits...I think we should center or shorten the title (just formatting optics), and the third bullet now has a reference to TMI that needs to be switched to Oyster Creek.

Just my \$0.02.

~BT

From: Hughey, John
Sent: Thursday, November 05, 2015 11:51 AM
To: Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>
Subject: Revised OC Talking Points

Mandy and Brett,

Attached are the TA walkaround talking points with Brett's comments incorporated and the 3rd bullet under Key Messages revised as we discussed.

Thanks,
John

John Hughey
Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Halter, Mandy
Sent: Tuesday, April 21, 2015 7:40 AM
To: Gibson, Lauren
Subject: RE: Request for Inputs for Next Memo by COB Tuesday
Attachments: JOMB input to biweekly memo 4-20.docx

JOMB input is attached.

Mandy

From: Gibson, Lauren
Sent: Monday, April 20, 2015 9:41 AM
To: Kuntz, Robert; DiFrancesco, Nicholas; Auluck, Rajender; Oesterle, Eric; Reckley, William; Vega, Frankie; Witt, Kevin; Philpott, Stephen
Cc: Bowman, Gregory; Halter, Mandy; Shams, Mohamed; Inverso, Tara
Subject: Request for Inputs for Next Memo by COB Tuesday

Good morning,

Please provide input to me for the next biweekly Commission Status Update Memo by **COB Tuesday, April 21, 2015**. This is a day earlier than usual. Thank you for accommodating this. As always, do your best to predict what will be accomplished by Friday, but indicate to me if anything should be verified before the memo is issued.

Here is the link to the last biweekly memo:

[View ADAMS P8 Properties ML15100A220](#)
[Open ADAMS P8 Document \(April 10, 2015 Periodic Commission Update on Tier 1 and Tier 2 Near-Term Task Force Recommendations \(Memorandum To: The Commissioners; From: Michael R. Johnson.docx\)\)](#)

As a reminder, what we're looking for are:

- 1) Significant accomplishments since the last memo (**April 13—April 24**). Please include a brief description of any public meetings and their significant outcomes. Please also include any extension/relief requests received. Please include any correspondence with industry that was issued since the last memo. This should include: letters to NEI, letters from NEI, letters to multiple licensees, letters to individual licensees when the issue is particularly of interest (for example, Indian Point), and the first and last issuances of significant documents (such as staff assessments, etc.).
- 2) Expected upcoming activities/accomplishments/correspondence for the next two weeks (**April 27—May 8**). For the sake of being complete, please also include any correspondence with industry that you think will be issued or received by **May 15th**—three weeks out. We want to make sure that the Commission gets sufficient heads up in case the documents end up being issued or received earlier.
- 3) A review of the table in Enclosure 2 of the link to make sure it is up to date and best represents the status of each item.
- 4) A review of the information in Enclosure 3 of the link to make sure it is up to date regarding the status of rescissions, relaxations, and reliefs to Order and 50.54(f) letter requirements.

5) For flooding, a review of the information in Enclosure 4 to ensure that it is accurate as of April 24, 2015.

In addition to any items/changes you provide, I will reach out to you individually if we come up with any items for which we believe we need an input.

Thanks,

Lauren K. Gibson

Project Manager

Policy and Support Branch

Japan Lessons Learned Division

(301) 415-1056

From: Halter, Mandy
Sent: Wednesday, April 08, 2015 4:02 PM
To: Gibson, Lauren
Subject: RE: Request for Input to Biweekly Memo

Sorry – here are the ML numbers for the other relaxation approval letters we expect to issue in the next couple of weeks:

Perry ML15089A182
Braidwood ML15068A215

From: Gibson, Lauren
Sent: Wednesday, April 08, 2015 4:01 PM
To: Halter, Mandy
Subject: RE: Request for Input to Biweekly Memo

Thanks.

From: Halter, Mandy
Sent: Wednesday, April 08, 2015 4:00 PM
To: Gibson, Lauren
Subject: RE: Request for Input to Biweekly Memo

Delete:

- recent accomplishments bullet #6 (Watts Bar SE)
- activities expected bullet # 2 (Watts Bar TI...move to recent accomplishments)
- -049 relaxation requests bullet #1 (Turkey Point) and #2 (Indian Point)

Add:

Activities completed:

- Move Watts Bar TI to recent accomplishments
- By April 2, 2015, the NRC staff issued the interim staff evaluations (ISEs) of the overall implementation plans (OIPs) for Phase 1 (Wetwell Vent) of Order EA-13-109, "Order to Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13143A334) for the following Nuclear power plants: Brunswick Units 1 and 2 (ADAMS Accession No. ML15049A266); Columbia (ADAMS Accession No. ML14335A158); Hatch Units 1 and 2 (ADAMS Accession No. ML14335A137); Fermi 2 (ADAMS Accession No. ML15077A574); LaSalle Units 1 and 2 (ADAMS Accession No. ML15084A180); Limerick Units 1 and 2 (ADAMS Accession No. ML15082A433); Monticello (ADAMS Accession No. ML15082A167); Nine Mile Point Unit 1 (ADAMS Accession No. ML15069A671); Pilgrim (ADAMS Accession No. ML15043A754); Quad Cities Units 1 and 2 (ADAMS Accession No. ML15089A421); and Susquehanna Units 1 and 2 (ADAMS Accession No. ML15090A300). With the exception of Oyster Creek, the NRC staff has reviewed the Phase 1 (Wetwell Vent) OIPs and issued ISEs for all boiling water reactors with Mark I & II primary containment systems subject to Order EA-13-109. The NRC Staff is evaluating a request from Oyster Creek to defer the Oyster Creek compliance date for

Phase 1 of Order EA-13-109 until 2020, by which time Oyster Creek will be permanently shut down for decommissioning.

Upcoming activities:

- On April 20, 2015, the NRC staff plans to hold a public meeting with NEI to discuss NRC considerations and concerns with the NEI proposed revision to NUMARC 93-01 as it pertains to industry FLEX equipment and to solicit feedback on potential solutions.

Relaxation Requests:

- To bullet #3 (Hope Creek) add: "By April 24, 2015, the NRC staff expects to issue a letter to PSEG (ADAMS Accession No. ML15079A374), approving the relaxation request.
- To bullet # 4(Perry) add: "By April 17, 2015, the NRC staff expects to issue a letter to FirstEnergy approving the relaxation request.
- On April 2, 2015, Exelon Generation Company, LLC (Exelon), submitted a request for schedule relaxation for Limerick Unit 2. Exelon requested to extend the compliance date for the Order from (1) prior to startup from their refueling outage in the spring of 2015, to (2) no later than 90 days after the restart from their spring 2015 refueling outage. The additional time would allow Exelon to complete the construction of the FLEX storage buildings, which were delayed due to design modifications and inclement weather. The NRC staff is reviewing this request.
- On April 2, 2015, Tennessee Valley Authority (TVA) submitted a request for schedule relaxation for Sequoyah Unit 1. TVA requested to extend the compliance date for the Order from (1) prior to the startup from their refueling outage in the spring of 2015, to (2) prior to the startup from the Unit 2 refueling outage in fall of 2015. The relaxation request cites physical and procedural interdependencies between the two units and the complications that would result in having inconsistencies in design configuration and procedures without the relaxation. Also noted in the request were delays in construction in the FLEX Equipment Storage Building and Condensate Storage Tank missile protection wall, as well as delays in installation of the FLEX 3MW Diesel Generators. The NRC staff is reviewing the request.
- On February 26, 2015, Exelon submitted a request for schedule relaxation for Braidwood Station, Unit 1. Exelon requested to extend the compliance date for the Order from (1) prior to the startup from their refueling outage in the spring of 2015, to (2) prior to the startup from their refueling outage in the fall of 2016. The requested time would enable Exelon to assess additional information provided by the Pressurized Water Reactors Owners Group and develop a site-specific evaluation regarding revised reactor coolant pump seal leakage values and resolve reactor coolant pump number one seal leakoff line pressure concerns. By April 17, 2015, the NRC staff expects to issue a letter to Exelon approving the relaxation request.

From: Gibson, Lauren

Sent: Monday, April 06, 2015 10:45 AM

To: Kuntz, Robert; DiFrancesco, Nicholas; Auluck, Rajender; Oesterle, Eric; Reckley, William; Vega, Frankie; Witt, Kevin; Philpott, Stephen

Cc: Shams, Mohamed; Bowman, Gregory; Bowen, Jeremy; Franovich, Mike; Halter, Mandy; Inverso, Tara

Subject: Request for Input to Biweekly Memo

Good morning,

Please provide input to me for the next biweekly Commission Status Update Memo by **COB Wednesday, April 8, 2015.**

Here is the link to the last biweekly memo:

[Open ADAMS P8 Document \(03/30/15 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations\)](#)

As a reminder, what we're looking for are:

- 1) Significant accomplishments since the last memo (March 30 – April 8). Please include a brief description of any public meetings and their significant outcomes. Please also include any extension/relief requests received. Please include any correspondence with industry that was issued since the last memo. This should include: letters to NEI, letters from NEI, letters to multiple licensees, letters to individual licensees when the issue is particularly of interest (for example, Indian Point), and the first and last issuances of significant documents (such as staff assessments, etc.).
- 2) Expected upcoming activities/accomplishments/correspondence for the next two weeks (April 13—April 24). For the sake of being complete, please also include any correspondence with industry that you think will be issued or received by April 10th—three weeks out. We want to make sure that the Commission gets sufficient heads up in case the documents end up being issued or received earlier.
- 3) A review of the table in Enclosure 2 of the link to make sure it is up to date and best represents the status of each item.
- 4) A review of the information in Enclosure 3 of the link to make sure it is up to date regarding the status of rescissions, relaxations, and reliefs to Order and 50.54(f) letter requirements.

In addition to any items/changes you provide, I will reach out to you individually if we come up with any items for which we believe we need an input.

Thanks,

Lauren K. Gibson

Project Manager

Policy and Support Branch

Japan Lessons Learned Division

(301) 415-1056

From: Santos, Cayetano
Sent: Thursday, October 29, 2015 1:09 PM
To: Krsek, Robert; Bowman, Gregory
Cc: Castleman, Patrick; Ramirez, Frances; Cubbage, Amy; Gilles, Nanette; Dudek, Michael; Bowen, Jeremy; Halter, Mandy; Titus, Brett
Subject: RE: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

One point of clarification: The staff does not plan to issue the letter to Oyster Creek until after the walkaround.

Tanny

From: Krsek, Robert
Sent: Thursday, October 29, 2015 12:11 PM
To: Santos, Cayetano <Cayetano.Santos@nrc.gov>; Bowman, Gregory <Gregory.Bowman@nrc.gov>
Cc: Castleman, Patrick <Patrick.Castleman@nrc.gov>; Ramirez, Frances <Frances.Ramirez@nrc.gov>; Cubbage, Amy <Amy.Cubbage@nrc.gov>; Gilles, Nanette <Nanette.Gilles@nrc.gov>; Dudek, Michael <Michael.Dudek@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>
Subject: RE: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

Thank you Tanny!

Robert G. Krsek
Technical Assistant for Reactors
Office of Commissioner Baran
U.S. Nuclear Regulatory Commission
301.415.1766

From: Santos, Cayetano
Sent: Thursday, October 29, 2015 11:46 AM
To: Bowman, Gregory <Gregory.Bowman@nrc.gov>; Krsek, Robert <Robert.Krsek@nrc.gov>
Cc: Castleman, Patrick <Patrick.Castleman@nrc.gov>; Ramirez, Frances <Frances.Ramirez@nrc.gov>; Cubbage, Amy <Amy.Cubbage@nrc.gov>; Gilles, Nanette <Nanette.Gilles@nrc.gov>; Dudek, Michael <Michael.Dudek@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>
Subject: RE: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

As a follow-up to a question from this morning's reactor TA meeting, the staff plans to do a walk around at the end of next week to inform your offices of the status of the Oyster Creek extension request.

Tanny

From: Bowman, Gregory
Sent: Wednesday, October 28, 2015 7:01 AM
To: Krsek, Robert <Robert.Krsek@nrc.gov>
Cc: Castleman, Patrick <Patrick.Castleman@nrc.gov>; Ramirez, Frances <Frances.Ramirez@nrc.gov>; Cubbage, Amy

<Amy.Cubbage@nrc.gov>; Gilles, Nanette <Nanette.Gilles@nrc.gov>; Santos, Cayetano <Cayetano.Santos@nrc.gov>; Dudek, Michael <Michael.Dudek@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>

Subject: RE: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

Rob,

We received the final information we needed from the Exelon to work through the extension request and we're getting close to approving it. We had planning on getting it out later this week, but we had some discussion yesterday with the NRR ET and Mike Johnson, and we think there would be benefit to interacting with you all before it goes out to walkthrough it, given the possibility of public interest. We'll likely end up holding the extension request approval for another week or so to give us a little extra time for that to happen.

Does that help? If not or if you have any additional questions before we touch base again on this (most likely next week), please don't hesitate to let me know.

Greg

From: Krsek, Robert

Sent: Tuesday, October 27, 2015 6:10 PM

To: Dudek, Michael <Michael.Dudek@nrc.gov>

Cc: Castleman, Patrick <Patrick.Castleman@nrc.gov>; Ramirez, Frances <Frances.Ramirez@nrc.gov>; Cubbage, Amy <Amy.Cubbage@nrc.gov>; Gilles, Nanette <Nanette.Gilles@nrc.gov>; Santos, Cayetano <Cayetano.Santos@nrc.gov>; Bowman, Gregory <Gregory.Bowman@nrc.gov>

Subject: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

Michael,

We had some questions on the most recent biweekly update on Tier 1 and 2 NTTF Recommendations.

Specifically, for the past year, in Enclosure 3, under EA-13-109 (page 1), the staff has had a bullet discussing Exelon's Oyster Creek Nuclear Generating Station June 2014 request for an extension on both Phase 1 and 2 of Order EA-13-109 until January 31, 2020, which is a date after the plant will permanently cease operation.

For the past couple of months, the bullet continues to state, "The NRC staff is currently evaluating Exelon's request and expects to issue a response by October 30, 2015," but does not discuss what the NRC staff response will be.

Our Office's questions are: Does the staff still anticipate issuing a decision by this Friday? If so, what will that decision be?

Thank you,

Robert G. Krsek
Technical Assistant for Reactors
Office of Commissioner Baran
U.S. Nuclear Regulatory Commission
301.415.1766

From: Hughey, John
Sent: Wednesday, October 28, 2015 3:28 PM
To: Broaddus, Doug
Cc: Lamb, John; Halter, Mandy
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation
Attachments: OC Vent Order Extension by NRC(ML15092A159).docx; Approval Letter Talking Points(Rev 2).docx

Doug,

As we discussed, I am forwarding you the Relaxation letter and current version of the talking points. I understand that you may wish to take our talking points and fit them into a format that you use to communicate with others in the agency on topics that relate to decommissioning and provide that to those contacts. Below are the NRC staff that we will be sending the talking points to as well as the issued letter.

Neil Sheehan
Eugene Dacus
Jenny Weil
Diane Screnci
Nancy McNamara
Doug Tifft
Silas Kennedy
Amar Patel
Elizabeth Andrews

Thanks,
John

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Broaddus, Doug
Sent: Wednesday, October 28, 2015 1:52 PM
To: Hughey, John <John.Hughey@nrc.gov>
Cc: Lamb, John <John.Lamb@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

John,

Do you have some time to discuss the talking points you are developing? I did a few walk arounds with the Commission Assistants previously on the JLD Order rescissions for the decommissioning plants, and have some suggestions on key messages you might want to consider. Let me know when you are available.

Thanks

Doug

From: Lamb, John
Sent: Wednesday, October 28, 2015 7:01 AM
To: Broaddus, Doug <Doug.Broaddus@nrc.gov>
Subject: FYI: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

FYI.

From: Hughey, John
Sent: Wednesday, October 28, 2015 6:56 AM
To: Lamb, John <John.Lamb@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

FYI yourself...

The attached is what I'm preparing. Add away as you and Doug see fit.



John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Lamb, John
Sent: Tuesday, October 27, 2015 3:55 PM
To: Hughey, John <John.Hughey@nrc.gov>
Subject: FW: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

FYI.

From: Broaddus, Doug
Sent: Tuesday, October 27, 2015 10:00 AM
To: Lamb, John <John.Lamb@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

John,

You might want to prepare a mini communication like the attached that we used for other decommissioning actions that have been issued and that could generate external (or internal) interest. The attached are examples that were used for SONGS rescission of the JLD orders.

Doug

From: Lamb, John
Sent: Tuesday, October 27, 2015 7:44 AM
To: Dacus, Eugene <Eugene.Dacus@nrc.gov>; Weil, Jenny <Jenny.Weil@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Screnci, Diane <Diane.Screnci@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel,

Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broadus, Doug <Doug.Broadus@nrc.gov>; Hughey, John <John.Hughey@nrc.gov>
Subject: FYI: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation
Importance: High

Ladies and Gentlemen:

FYI, Paul Gunter of Beyond Nuclear has requested numerous times over the past two years to be involved when the NRC would have a public meeting regarding the Oyster Creek Hardened Vent Order Relaxation Request. The NRC has not had a public meeting regarding this request.

FYI, a little background, Beyond Nuclear had a petition regarding the Hardened Vent Order for Mark I & II BWRs. The PRB did not agree with the petitioners. During the PRB public meeting (see attached Transcript), the petitioners complained about the lack of public engagement on this topic. The NRC staff directed the petitioners to get involved in the rulemaking regarding this topic. Well, the rulemaking got dropped.

Therefore, in my opinion, I am predicting there will be a media firestorm once the Oyster Creek Hardened Vent Order Relaxation approval hits the street.

Thanks.
John

From: Hughey, John
Sent: Monday, October 26, 2015 12:41 PM
To: Burnell, Scott <Scott.Burnell@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>; Tift, Doug <Doug.Tift@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>
Cc: Gibson, Lauren <Lauren.Gibson@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

~~Pre-decisional Information~~

Afternoon,

The Oyster Creek Hardened Vent Order Phase I relaxation approval letter (ML15092A159) is expected to be issued before the end of this week. I will let you know when it is finally signed and is being issued, but I wanted to give you some notice that it was coming soon.

Please feel free to give me a call at 301-415-3204 with any questions.

Thanks,
John

John Hughey
Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Norton, Charles
Sent: Friday, April 24, 2015 3:51 PM
To: Hughey, John; Titus, Brett
Cc: Halter, Mandy; Brown, Tony
Subject: RE: Oyster Creek

(b)(5)
Deliberative
Privilege

(b)(6) I already told [redacted] that we need to have internal discussion before we respond. [redacted]

[redacted] I don't think the ISG comes out until sometime late next week. I'll put together some talking points based on our emails today and run them by you guys Monday. When the three of us are aligned we'll brief Stew and Sheena and go on from there.

Thanks for your quick response,

Chuck

I

From: Hughey, John
Sent: Friday, April 24, 2015 2:52 PM
To: Norton, Charles; Titus, Brett
Cc: Halter, Mandy; Brown, Tony
Subject: RE: Oyster Creek

Chuck,

I agree with Brett's response. (b)(5) Deliberative Privilege [redacted]

(b)(5) Deliberative Privilege

(b)(6) I also agree with Brett that we need alignment and management approval for the response provided to [redacted] (b)(6) [redacted] Since Brett and Tony are the acting BCs today, they could make this decision. If Tony and Brett aren't feeling that gutsy, then they could consult with Jeremy or the next higher level of JLD management in the office today, or you (Chuck) could just say that you are consulting with JLD management and will get back to Dave next week.

Just my 2 cents,
John

John Hughey
Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204

Office: O13-H08

e-mail: john.hughey@nrc.gov

From: Norton, Charles

Sent: Friday, April 24, 2015 2:25 PM

To: Titus, Brett; Hughey, John

Cc: Halter, Mandy; Brown, Tony

Subject: Oyster Creek

(b)(5)
Deliberative

As you know, Exelon, on behalf of Oyster Creek, asked for an extension for compliance with Order EA-13-109 within the required 20 days after the issuance of the Phase 1 ISG. Their request was for both phases of the order. [REDACTED]

(b)(5) Deliberative Privilege

(b)(6) [REDACTED] left me a voice mail message asking if they need to [REDACTED] I want to make sure we are in alignment before I respond to him.

Chuck Norton
415-7818

(b)(5)
Deliberative

From: Halter, Mandy
Sent: Thursday, April 02, 2015 7:38 AM
To: Hughey, John
Subject: RE: Oyster Creek Info.

Thanks, John.

Mandy

From: Hughey, John
Sent: Wednesday, April 01, 2015 7:51 PM
To: Halter, Mandy
Subject: FW: Oyster Creek Info.

Mandy,

FYI – just keeping you up to date with our progress on the Oyster Creek Vent Order Relaxation Request approval letter.

Thanks,
John

From: Hughey, John
Sent: Wednesday, April 01, 2015 7:49 PM
To: Titus, Brett
Subject: RE: Oyster Creek Info.

Hi Brett,

(b)(6)

As we discussed before you left, I have taken a stab at drafting the Oyster Creek relaxation for EA-13-109, Phase 1 requirements only (see attached). I looked at your insights below and then used the last OCNGS supplement to

but at least it is a starting point. I am also having this added to ADAMS and I can incorporate your comments on the ADAMS file.

(b)(5)

Deliberative

(b)(5)

Deliberative

I will be back in the office on Tuesday, 4/7, and we can discuss then.

Thanks,
John

From: Titus, Brett
Sent: Friday, March 27, 2015 1:19 PM
To: Hughey, John
Subject: Oyster Creek Info.

Hey John,

(b)(5)
Deliberative

The two attached documents are all of the existing stuff that I have which may be pertinent to the Oyster Creek letter. It may save you some time looking up the history or ML numbers or something, but, unfortunately the information really predates where we are now. So, I'll give you my quick version of what I think is important, and you can choose to take it or leave it or modify it as you wish.

The supplemental RAI responses that Oyster Creek submitted in November of 2014 (ML14329A263) identified some modifications which would be implemented in the period of extension as compensatory measures to improve their ability to vent the containment in a loss of all AC and DC power and normal control air. Their compensatory measures to enable opening and reliably closing the vent, under any/all postulated circumstances if it is somehow needed, [REDACTED]

[REDACTED]

(b)(5)

[REDACTED] this upcoming week, but I'll be back at the end of next week (Friday). Hopefully this was a little helpful. If not, or if you need more supplemental info, I'll help out wherever I can as soon as I get back.

Thanks, (b)(6)
Brett

From: Halter, Mandy
Sent: Thursday, November 12, 2015 5:36 PM
To: Philpott, Stephen
Subject: turnover for tomorrow

Steve,

Tomorrow should be pretty quiet. Jack and Jeremy are out of the office. Tony is acting for me next week and I already sent him a turnover.

(b)(5)

I'll be home so call or text if you need anything.

Thanks and have a great weekend!

Mandy

Mandy K. Halter
Chief, Orders Management Branch (Acting)
Japan Lessons Learned Division
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
(301) 415-0560 | mandy.halter@nrc.gov

From: Hughey, John
Sent: Wednesday, September 23, 2015 3:28 PM
To: Halter, Mandy
Subject: OC vent order relaxation -request update

Mandy,

Per your request earlier this week, here is an update regarding the Oyster Creek Vent Order Relaxation Request:

(b)(5)



Thanks, and please let me know if you need any additional information,
John

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Halter, Mandy
Sent: Friday, November 06, 2015 10:36 AM
To: Titus, Brett
Subject: OC one pager
Attachments: Oyster Creek EA-13-109 schedule relaxation one page summary (mkh2).docx

Brett –

(b)(5)
This is the best I've got today. I didn't make it to one page, but I know Jeremy and he will noodle it a bit anyway. And you may still not like my wording for Phase 2. [REDACTED]
[REDACTED]

Wanted to move this along to you because the bosses are probably waiting. (b)(5)

Have at it! Signing off....text me if you need me.

Mandy

From: Halter, Mandy
Sent: Wednesday, October 28, 2015 9:34 AM
To: Hughey, John
Subject: FW: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

FYI but please do not forward.

Mandy

From: Krsek, Robert
Sent: Wednesday, October 28, 2015 8:13 AM
To: Bowman, Gregory <Gregory.Bowman@nrc.gov>
Cc: Castleman, Patrick <Patrick.Castleman@nrc.gov>; Ramirez, Frances <Frances.Ramirez@nrc.gov>; Cubbage, Amy <Amy.Cubbage@nrc.gov>; Gilles, Nanette <Nanette.Gilles@nrc.gov>; Santos, Cayetano <Cayetano.Santos@nrc.gov>; Dudek, Michael <Michael.Dudek@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>
Subject: RE: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

Thanks for the quick response Greg.

Our office has been tracking that item, so when we received the report yesterday and didn't see an update, we thought we'd ask.

Thank you,

Robert G. Krsek
Technical Assistant for Reactors
Office of Commissioner Baran
U.S. Nuclear Regulatory Commission
301.415.1766

From: Bowman, Gregory
Sent: Wednesday, October 28, 2015 7:01 AM
To: Krsek, Robert <Robert.Krsek@nrc.gov>
Cc: Castleman, Patrick <Patrick.Castleman@nrc.gov>; Ramirez, Frances <Frances.Ramirez@nrc.gov>; Cubbage, Amy <Amy.Cubbage@nrc.gov>; Gilles, Nanette <Nanette.Gilles@nrc.gov>; Santos, Cayetano <Cayetano.Santos@nrc.gov>; Dudek, Michael <Michael.Dudek@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>
Subject: RE: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

Rob,

(b)(5)

(b)(5)

Does that help? If not or if you have any additional questions before we touch base again on this (most likely next week), please don't hesitate to let me know.

Greg

From: Krsek, Robert

Sent: Tuesday, October 27, 2015 6:10 PM

To: Dudek, Michael <Michael.Dudek@nrc.gov>

Cc: Castleman, Patrick <Patrick.Castleman@nrc.gov>; Ramirez, Frances <Frances.Ramirez@nrc.gov>; Cubbage, Amy <Amy.Cubbage@nrc.gov>; Gilles, Nanette <Nanette.Gilles@nrc.gov>; Santos, Cayetano <Cayetano.Santos@nrc.gov>; Bowman, Gregory <Gregory.Bowman@nrc.gov>

Subject: Question on 10/26/2015 Periodic Commission Update on the Status of Tier 1 and Tier 2 NTTF Recommendations

Michael,

We had some questions on the most recent biweekly update on Tier 1 and 2 NTTF Recommendations.

Specifically, for the past year, in Enclosure 3, under EA-13-109 (page 1), the staff has had a bullet discussing Exelon's Oyster Creek Nuclear Generating Station June 2014 request for an extension on both Phase 1 and 2 of Order EA-13-109 until January 31, 2020, which is a date after the plant will permanently cease operation.

For the past couple of months, the bullet continues to state, "The NRC staff is currently evaluating Exelon's request and expects to issue a response by October 30, 2015," but does not discuss what the NRC staff response will be.

Our Office's questions are: Does the staff still anticipate issuing a decision by this Friday? If so, what will that decision be?

Thank you,

Robert G. Krsek

Technical Assistant for Reactors

Office of Commissioner Baran

U.S. Nuclear Regulatory Commission

301.415.1766

From: Halter, Mandy
Sent: Monday, August 11, 2014 4:27 PM
To: Polickoski, James; Boska, John; Paige, Jason; Monarque, Stephen; Hughey, John; Philpott, Stephen; Norton, Charles; Bamford, Peter
Subject: FW: Next Biweekly Memo to the Commission
Attachments: August 1 2014 Commission Status Update Memo.docx

Gents,

Please let me know if there are any major updates to for the bi-weekly memo to the Commission (i.e., major accomplishments since 8/4-8/15 or expected activities 8/18-8/29).

Here are my notes:

- Salem relaxation request received, working on approval (please keep me posted when approval is sent out)
- Callaway relaxation received (doesn't involve additional schedule change)
- Oyster Creek EA-13-109 relaxation still under review
- EA-13-109 public webinar held 8/7

Am I missing anything significant? If so, please let me know by noon Wednesday 8/13.

Thanks,

Mandy

From: Gibson, Lauren
Sent: Monday, August 11, 2014 11:57 AM
To: Kuntz, Robert; DiFrancesco, Nicholas; Monarque, Stephen; Harris, Brian; Reckley, William; Halter, Mandy; Inverso, Tara; Whaley, Sheena; Orders, William; Sebrosky, Joseph; Balazik, Michael; Uribe, Juan; Bowman, Gregory; Norton, Charles
Subject: FW: Next Biweekly Memo to the Commission

To all:

Please provide input to me for the next Commission Status Update Memo by **COB Wednesday, August 13, 2014**

Attached is the draft of the last memo. It has not yet been issued.

As a reminder, what we're looking for are:

- 1) Significant accomplishments since the last memo (August 4 – August 15). Please include a brief description of any public meetings and their significant outcomes. Please also include any extension/relief requests received.
- 2) Expected upcoming activities/accomplishments for the next two weeks (August 18—August 29)
- 3) A review of the table in Enclosure 2 of the link to make sure it is up to date and best represents the status of each item.

4) A review of the information in Enclosure 3 of the link to make sure it is up to date regarding the status of rescissions, relaxations, and reliefs to Order and 50.54(f) letter requirements.

In addition to any items/changes you provide, I will reach out to you individually if we come up with any items for which we believe we need an input.

Thanks,

Lauren

From: Hughey, John
Sent: Monday, November 09, 2015 2:21 PM
To: Halter, Mandy; Titus, Brett
Subject: FW: Update: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

FYI

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Lamb, John
Sent: Monday, November 09, 2015 2:15 PM
To: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Franovich, Mike <Mike.Franovich@nrc.gov>
Cc: Hughey, John <John.Hughey@nrc.gov>; Wilson, George <George.Wilson@nrc.gov>
Subject: RE: Update: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

I used to work with Tanny Santos in the ACRS; now, Tanny works in the OEDO. I called Tanny he said the Oyster Creek Vent Brief is at the end of the JLD Recommendation 2.3 brief between 2:00 to 3:00 pm.

From: Broaddus, Doug
Sent: Monday, November 09, 2015 1:23 PM
To: Franovich, Mike <Mike.Franovich@nrc.gov>
Cc: Hughey, John <John.Hughey@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Wilson, George <George.Wilson@nrc.gov>
Subject: FW: Update: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Mike,

George Wilson indicated to me that during the ET meeting this morning it was discussed that JLD would be providing a briefing to the Commission TAs regarding the Oyster Creek Hardened Vent Order Relaxation, and he believed it was going to occur today or tomorrow. He believed you have the lead for this briefing, and he asked that I contact you to 1) confirm that this will be a briefing vs a walk-around as indicated below, and 2) the time and location of the briefing. Since Oyster Creek is in my Branch, we would like to attend the briefing.

Thanks

Doug

Douglas A. Broaddus

Chief, Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation
Phone: 301-415-8124; email: Doug.Broaddus@nrc.gov

From: Hughey, John

Sent: Friday, November 06, 2015 10:22 AM

To: Weil, Jenny <Jenny.Weil@nrc.gov>; Screnci, Diane <Diane.Screnci@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>

Subject: RE: Update: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

All,

I misspoke and need to clarify – JLD is providing a TA walkaround, not a TA briefing. These have not yet been coordinated, but will take place next week.

Sorry for the confusion,
John

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Hughey, John

Sent: Friday, November 06, 2015 9:21 AM

To: Weil, Jenny <Jenny.Weil@nrc.gov>; Screnci, Diane <Diane.Screnci@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>; Titus, Brett <Brett.Titus@nrc.gov>

Subject: Update: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Good Morning,

JLD is delaying issuance of the Oyster Creek schedule relaxation approval letter issuance until next week. We now plan to issue the letter by next Friday, 11/13. We delayed the issuance in order to provide a requested briefing to the commission TA's. We are also continuing to expand and refine the talking points/key messages.

I will provide the talking points with the issued letter next week. We are working with our admin to ensure that the public listserv release of the letter is delayed to later than 10pm the same day.

Thanks and feel free to give me a call with any questions,
John

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission

Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Weil, Jenny

Sent: Tuesday, October 27, 2015 3:42 PM

To: Screnci, Diane <Diane.Screnci@nrc.gov>; Hughey, John <John.Hughey@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tift, Doug <Doug.Tift@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broadus, Doug <Doug.Broadus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Thanks everyone, that will be helpful.

From: Screnci, Diane

Sent: Tuesday, October 27, 2015 2:44 PM

To: Hughey, John <John.Hughey@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Weil, Jenny <Jenny.Weil@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tift, Doug <Doug.Tift@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broadus, Doug <Doug.Broadus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Thanks, John.

From: Hughey, John

Sent: Tuesday, October 27, 2015 2:16 PM

To: Screnci, Diane <Diane.Screnci@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Weil, Jenny <Jenny.Weil@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tift, Doug <Doug.Tift@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broadus, Doug <Doug.Broadus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Diane and Neil,

Talking points have been developed and are being reviewed now. We will include the talking points with the final, signed relaxation approval letter.

Thanks,
Hughey

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
US Nuclear Regulatory Commission
Phone: (301) 415-3204
Office: O13-H08
e-mail: john.hughey@nrc.gov

From: Screnci, Diane

Sent: Tuesday, October 27, 2015 9:08 AM

To: Hughey, John <John.Hughey@nrc.gov>; Lamb, John <John.Lamb@nrc.gov>; Dacus, Eugene <Eugene.Dacus@nrc.gov>; Weil, Jenny <Jenny.Weil@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; Sheehan, Neil <Neil.Sheehan@nrc.gov>; McNamara, Nancy <Nancy.McNamara@nrc.gov>; Tifft, Doug <Doug.Tifft@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; Patel, Amar <Amar.Patel@nrc.gov>; Andrews, Elizabeth <Elizabeth.Andrews@nrc.gov>
Cc: Broaddus, Doug <Doug.Broaddus@nrc.gov>; Halter, Mandy <Mandy.Halter@nrc.gov>
Subject: RE: Pre-decisional Information: Oyster Creek Hardened Vent Order Phase I Relaxation

Will we be getting some talking points? I think that would be helpful for OCA, OPA and the SLOs. Also, can we get a copy of the decision? Thanks.

Diane Screnci
Sr. Public Affairs Officer
USNRC, RI
610-337-5330

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

July XX, 2014

MEMORANDUM TO: Chairman Macfarlane
Commissioner Svinicki
Commissioner Magwood
Commissioner Ostendorff

FROM: Michael R. Johnson
Deputy Executive Director for Reactor
and Preparedness Programs
Office of the Executive Director for Operations

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

The purpose of this memorandum is to provide a bi-weekly status update regarding the U.S. Nuclear Regulatory Commission staff's progress in addressing the Tier 1 and Tier 2 Near-Term Task Force recommendations. Enclosure 1 provides information regarding the staff's recent significant accomplishments and expected activities prior to the next update with respect to addressing the recommendations. Enclosure 2 provides a table with additional details on upcoming milestones for each of the recommendations. Enclosure 3 provides information regarding ongoing requests for relaxation from, or rescission of, Fukushima orders (EA-12-049, EA-12-051, and EA-13-109) or relief from March 12, 2012, 50.54(f) letter information requests.

Enclosures:
As stated

cc: SECY
OGC
OCA
OPA
CFO

CONTACT: Michael I. Dudek, OEDO
(301) 415-6500

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

July 2, 2014

MEMORANDUM TO: Chairman Macfarlane
Commissioner Svinicki
Commissioner Magwood
Commissioner Ostendorff

FROM: Michael R. Johnson */RA/*
Deputy Executive Director for Reactor
and Preparedness Programs
Office of the Executive Director for Operations

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

The purpose of this memorandum is to provide a bi-weekly status update regarding the U.S. Nuclear Regulatory Commission staff's progress in addressing the Tier 1 and Tier 2 Near-Term Task Force recommendations. Enclosure 1 provides information regarding the staff's recent significant accomplishments and expected activities prior to the next update with respect to addressing the recommendations. Enclosure 2 provides a table with additional details on upcoming milestones for each of the recommendations. Enclosure 3 provides information regarding ongoing requests for relaxation from, or rescission of, Fukushima orders (EA-12-049, EA-12-051, and EA-13-109) or relief from March 12, 2012, 50.54(f) letter information requests.

Enclosures:
As stated

cc: SECY
OGC
OCA
OPA
CFO

CONTACT: Michael I. Dudek, OEDO
(301) 415-6500

DISTRIBUTION:

See next page

ADAMS Accession No.: *via email

OFFICE	NRR/JLD	OEDO/TCCM	DEDR
NAME	LKGibson*	MDudek*	MJohnson
DATE	7/03/14		

OFFICIAL RECORD COPY

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY – SENSITIVE INTERNAL INFORMATION~~

Memo to Commission from Michael R. Johnson dated July X, 2014

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

DISTRIBUTION:

Commissioner Ostendorff
Commissioner Svinicki
S. Helton, OCM/AMM
J. Jolicoeur, OCM/AMM
P. Pace, OCM/AMM
A. Cermeno, OCM/AMM
P. Castleman, OCM/KLS
J. Lepre, OCM/KLS
B. Sosa, OCM/GEA
N. Gilles, OCM/GEA
K. Blake, OCM/GEA
P. Bubar, OCM/WDM
J. Jessie, OCM/WDM
P. Jimenez, OCM/WDM
E. Brenner, OCM/WCO
A. Cubbage, OCM/WCO
L. Herr, OCM/WCO
S. Bozin, OCM/WCO
M. Satorius, EDO
R. Zimmerman, DEDMRT
M. Johnson, DEDR
D. Ash, DEDCM
K. Brock, OEDO
M. Dudek, OEDO
E. Leeds, NRR
J. Uhle, NRR
D. Skeen, NRR
M. Mitchell, NRR
J. Wiggins, NSIR
B. Sheron, RES
G. Tracy, NRO
C. Haney, NMSS
B. Holian, FSME
W. Dean, Region I
V. McCree, Region II
C. Pederson, Region III
M. Dapas, Region IV
OPA
OIP
EDO R/F

~~OFFICIAL USE ONLY – SENSITIVE INTERNAL INFORMATION~~

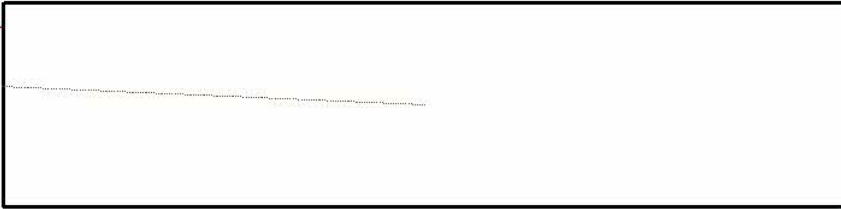
Significant Recent Accomplishments Regarding Tier 1 and Tier 2 Activities

- (1) On June 25, 26, and 30, and July 1, 2014 the NRC staff conducted public meetings with Dominion, Southern Company, Duke Energy and Tennessee Valley Authority respectively to share and discuss information regarding the screening and prioritization of their facilities for seismic risk evaluation (Near Term Task Force (NTTF) Recommendation 2.1 – Seismic). The discussions focused on those areas where the seismic models had technical differences and variations within key parameters used in the analysis. The discussions were very beneficial for the staff to gain a more complete understanding of the technical basis of each licensee's approach in developing the ground motion response spectra curve at each specific site. The licensees questioned the timeframe for a final screening decision based on taking into account the additional information shared during the public meeting. The staff plans to evaluate the additional information and expects to respond to the licensees regarding any change in the screening and/or prioritization decision between July and August 2014.

- (2) On June 23, 2014, the Steering Committee for the proposed consolidated rulemaking (NTTF Recommendations 4, 7, 8, and selected EP activities) met and agreed with the staff's recommendation on a few key points. Specifically, the Steering Committee approved the working group's plan to hold a public meeting with stakeholders to discuss its SAMG (Severe Accident Management Guidelines) review within the context of the NEI-14-01, "Emergency Response Procedures and Guidelines for Beyond Design Basis Events and Severe Accidents," draft dated April 2014, review and note that the staff, based on and what it currently views to be the "end state" for SAMGs, believes there may need to be more public information within NEI 14-01 or otherwise, to support the anticipated implementation inspection activities. The Steering Committee also agreed the current draft SAMG requirements align with a supporting tentative backfit proposal based on defense-in-depth for adequate protection.

Formatted: Indent: Hanging: 0.5", Numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.25" + Indent at: 0.5"

(3)



Formatted: Indent: Left: 0.5", No bullets or numbering

Formatted: Indent: Hanging: 0.5", Numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.25" + Indent at: 0.5"

Deliberative
Privilege

Deliberative
Privilege

(2)

~~On July 2, 2014, the NRC staff held a public meeting to discuss the NRC's temporary instruction procedure for licensees' responses to Order EA-12-049 (NTTF Recommendation 4.2), Order EA-12-051 (NTTF Recommendation 7.1) and Emergency Preparedness (NTTF Recommendation 9.3) Information requested in the NRC March 12, 2012 Request for Information Letter. No major concerns were identified with the~~

Formatted: Normal, No bullets or numbering

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

-4-

draft inspection procedure. The temporary instruction will be piloted at Watt Bar 2 in Fall 2014.

- (4) On July 2, 2014, the NRC staff issued letters to the Southern California Edison Company (SCE), rescinding Orders EA-12-049, "Order Modifying Licenses With Regard To Requirements for Mitigation Strategies for beyond Design-Basis External Events," and EA-12-051, "Order Modifying Licenses With Regard To Reliable Spent Fuel Pool Instrumentation" for the San Onofre Nuclear Generating Station (SONGS), Units 2 and 3. These actions are based on SONGS Units 2 and 3 being permanently shutdown and defueled.

Commented [mkh2]: Moved to table

The NRC staff concluded that the lack of fuel in the core and the absence of challenges to the containment for SONGS, Units 2 and 3, render the development of the guidance and strategies required by Order EA-12-049 to maintain or restore core cooling and containment capabilities unnecessary. The staff also concluded that the low decay heat and long boil-off period for the SONGS SFPs provide sufficient time for the licensee to obtain equipment or other resources from off-site on an ad hoc basis to sustain the SFP cooling function indefinitely, obviating the need for the licensee to implement the guidance and strategies that would be necessary for compliance with Order EA-12-049.

Order EA-12-051 requires licensees to have a reliable means of remotely monitoring SFP levels to support effective prioritization of event mitigation and recovery actions between the reactor core and SFP following a beyond-design-basis external event. The NRC staff determined that based on the permanently shut down and defueled condition of SONGS, Units 2 and 3, the event of a challenge to the safety of fuel stored in the SFPs, decision-makers would not have to prioritize actions and the focus of licensee staff would be the SFPs. As such, the staff found that the basis for Order EA-12-051 no longer applies to the configuration of SONGS, Units 2 and 3.

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~—OFFICIAL USE ONLY—SENSITIVE INTERNAL INFORMATION—~~

-4-

Activities Expected to Occur by July 18, 2014

- (1) On July 9, 2014, the NRC staff plans to hold a public meeting with the licensee for DC Cook Nuclear Power Plant to discuss issues resulting from the staff's screening and prioritization of the facility for a seismic risk evaluation (Near Term Task Force (NTTF) Recommendation 2.1 – Seismic).
- ~~(1) On July 10 and 17, 2014, NRC staff will conduct audits of the industry's SAFER National Response Center Proof of Concept Exercises (previously called Regional Response Centers). The July 10, 2014 exercise will involve Three Mile Island, the SAFER Control Center in Lynchburg, VA, and the Memphis SAFER National Response Center. The July 17, 2014 exercise will involve Surry, the SAFER Control Center in Lynchburg, VA, and the Phoenix SAFER National Response Center. NRC staff will utilize the audits of these exercises as part of their assessment of the readiness of the SAFER National Response Centers to satisfy licensees' requirement of Phase 3 of EA-12-049.~~
- (2) On July 17, 2014, the NRC staff plans to hold a public meeting with licensee for Callaway to discuss issues resulting from the staff's screening and prioritization of the facility for a seismic risk evaluation (NTTF Recommendation 2.1 – Seismic).
- (3) By July 18, 2014, the NRC staff plans to issue an acknowledgement letter to Entergy regarding Vermont Yankee Regulatory Commitments date changes associated with to NTTF Recommendation 2.1—seismic NTTF Recommendation 9.3 Phase 2 staffing assessments. The letter ADAMS accession number can be found under ML14134A163.
- (5) By July 18, 2014, the NRC staff expects to complete the issuance of the NTTF Recommendation 2.3—Flooding Walkdown report staff assessments.
- (6) By July 18, 2014, the NRC staff expects to complete its responses to the extension requests for the flooding reevaluation reports (NTTF Recommendation 2.1—Flooding). These requests are discussed further in Enclosure 3.

~~—OFFICIAL USE ONLY—SENSITIVE INTERNAL INFORMATION—~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
<i>Tier 1</i>				
NTTF 2.1	Seismic Hazard Reevaluation Request for Information (RFI)	RFI issued March 12, 2012 Letter providing screening and prioritization results for central and eastern U.S. (CEUS) facilities' seismic hazard reevaluations issued May 9, 2014	CEUS licensees with reevaluated seismic hazards greater than current design basis to submit results of expedited approach by December 31, 2014	Licensees for western U.S. facilities to submit site seismic hazard reevaluations by March 12, 2015
NTTF 2.1	Flooding Hazard Reevaluation RFI	RFI issued March 12, 2012 Category 2 facility licensees submitted reevaluated flooding hazard assessments, or schedule extension requests, by March 12, 2014	Staff to complete review of reevaluated flooding hazards submitted by Category 1 facility licensees and issue most safety assessments (SAs) by November 30, 2014	Category 3 facility licensees submitted reevaluated flooding hazard assessments by March 12, 2015 Category 1 facility licensees with reevaluated flooding hazards greater than current licensing basis to submit site integrated assessments by March 12, 2015
NTTF 2.3	Seismic Hazard Walkdown RFI	RFI issued March 12, 2012 Staff completed review of seismic walkdown reports and issued SAs by June 13, 2014		

Enclosure 2

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

-2-

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 2.3	Flooding Hazard Walkdown RFI	RFI issued March 12, 2012 Staff completed audits of some licensee facilities in support of walkdown report reviews by August 30, 2013	Staff to complete review of flooding walkdown reports and issue SAs by July 18, 2014	
NTTF 4.1	Station Blackout Mitigating Strategies (SBOMS) Rulemaking	Staff published regulatory basis in <i>Federal Register</i> on July 23, 2013	If consolidated rulemaking is approved, staff to complete development of proposed rule by December 19, 2014	NRC to issue final rule by December 2016
NTTF 4.2	SBOMS Order (EA-12-049)	Order issued March 12, 2012 The NRC issued interim staff evaluations (ISEs) on all integrated plans by February 27, 2014	The NRC to issue safety evaluations between mid-2014 and Spring 2017, based on the outage when each site is in full compliance with the requirements of the Order	The NRC to conduct post-compliance inspections
NTTF 5.1	Severe Accident Capable Reliable Hardened Vents Order (EA-13-109)	Order issued June 6, 2013 Interim staff guidance document (JLD-ISG-13-02) to support licensee compliance with Order EA-13-109 issued on November 14, 2013	The NRC staff is confirming receipt of integrated plans in response to Order EA-13-109 by June 30, 2014	The NRC to issue ISEs regarding licensee integrated plans by June 30, 2015

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

-3-

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 7.1	Enhanced Spent Fuel Pool Instrumentation Order (EA-12-051)	Order issued March 12, 2012 The NRC issued ISEs on integrated plans for all operating reactors by December 12, 2013	The NRC to issue safety evaluations between mid-2014 and Spring 2017, based on the outage when each site is in full compliance with the requirements of the order	The NRC to conduct post-compliance inspections
NTTF 8	On-site Emergency Response Capabilities Rulemaking	Final regulatory basis published in <i>Federal Register</i> by October 25, 2013	If consolidated rulemaking is approved, staff to complete development of proposed rule by December 19, 2014	Provide final rule to the Commission by March 2016
NTTF 9.3	Emergency Preparedness (EP) Communications Assessment RFI	RFI issued March 12, 2012 Staff review of licensee 50.54(f) letter responses is complete	Follow-up inspections to be conducted along with those associated with NTTF 4.2, NTTF 7.1, and NTTF 9.3 – Staffing	
NTTF 9.3	EP: Staff assessment RFI	RFI issued March 12, 2012 Phase 1 staffing assessment evaluations issued for all multiunit sites by April 28, 2014	Licensee Phase 2 staffing assessments (which include consideration of staffing needed to implement the Mitigation Strategies Order) due 4 months prior to 2 nd refueling outage after March 2013	

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

-4-

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 9.4	EP: Emergency Response Data System Modernization Initiative Voluntary Initiative	Completed - June 2012		
SECY-12-0025, Enc. 2	Rulemaking – Filtration Strategies	SECY paper addressing staff recommendation with regard to filtered containment vents sent to the Commission on November 28, 2012 Commission staff requirements memoranda (SRM) issued on March 19, 2013	Staff to develop regulatory basis for a potential rulemaking by December 19, 2014	Staff to develop a proposed rulemaking by December 19, 2015

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

-5-

Source	Regulatory Action	Completed	Next Milestone	Future Milestone
<i>Tier 2</i>				
NTTF 7.2-7.5	Rulemaking - Require licensees to provide reliable spent fuel pool makeup capabilities	Per Commission SRM dated March 4, 2013, staff action on NTTF 7.2-7.5 has been consolidated with the NTTF 4 Rulemaking		
NTTF 9.3 Tier 2 (partial)	Order - Requiring a revision to the emergency plan to address multiunit dose assessments, periodic training and exercises for multiunit and prolonged SBO scenarios, and drills on identification and acquisition of offsite resources, and ensuring sufficient EP resources for multiunit and prolonged SBO scenarios	By SRM dated April 30, 2013, the Commission approved the direction requested in COMSECY-13-0010 On April 2, 2014, the staff completed the issuance of responses regarding licensee multiunit dose assessment capabilities to all licensees		
SECY-12-0025,	RFI - Reevaluate other natural external hazards against current requirements and guidance and update the design basis and take appropriate regulatory action to resolve issues associated with updated site-specific hazards		Initiate as resources are available	

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

-4-

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

-4-

**ONGOING REQUESTS FOR RELAXATION FROM, OR RESCISSION OF,
FUKUSHIMA ORDERS (EA-12-049, EA-12-051, EA-13-109) OR
RELIEF FROM MARCH 12, 2012, 50.54(f) LETTER INFORMATION REQUESTS**

Several licensees have communicated to the U.S. Nuclear Regulatory Commission (NRC) staff, formally and informally, a request to relax the requirements of Orders EA-12-049, EA-12-051, or EA-13-109 regarding mitigation strategies for beyond design basis events, additional spent fuel pool instrumentation, and hardened vents (Near Term Task Force (NTTF) Recommendations 4.2, 7.1, 5.1). The reasons for the relaxation requests are due to either decommissioning, the need for an additional refueling outage to complete modifications, or to align with the requirements and schedule for Order EA-13-109, regarding severe accident capable vents for boiling water reactors with Mark I and Mark II containments (NTTF Recommendation 5.1).

Order EA-12-049, Mitigation Strategies

Decommissioning

- ~~Licensees with facilities currently engaged in decommissioning activities, or who are scheduled to start within the next year, are requesting scope relaxation for compliance with the core cooling and containment requirements of the Order.~~
- (6) ~~On June 10, 2014, the NRC staff rescinded the order for Kewaunee Power Station (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14059A411). On July 2, 2014, the NRC staff issued letters to the Southern California Edison Company (SCE), rescinding Orders EA-12-049, "Order Modifying Licenses With Regard To Requirements for Mitigation Strategies for beyond Design Basis External Events," and EA-12-051, "Order Modifying Licenses With Regard To Reliable Spent Fuel Pool Instrumentation" for the San Onofre Nuclear Generating Station (SONGS), Units 2 and 3. These actions are based on SONGS Units 2 and 3 being permanently shutdown and defueled.~~
- ~~The NRC staff is considering granting scope relaxation based on the following factors:~~
 - ~~Fuel will be removed from the core, eliminating the need for core cooling.~~
 - ~~Depressurization of the reactor coolant system will limit potential leakage.~~
 - ~~There will be limited energy to challenge the containment.~~
 - ~~Removal of the fuel from the core means the safety of the fuel stored in the spent fuel pool becomes the primary safety function.~~

Commented [mkh3]: Moved to table

Additional Outage

- ~~A limited number of licensees were granted schedule relaxation to allow for an additional (third) refueling outage prior to December 2016, to implement the Order.~~
- ~~The affected facilities are Comanche Peak, Unit 1 (ADAMS ML14071A439), Farley, Units 1 & 2 (ADAMS ML14070A475), and Vogtle, Unit 2 (ADAMS ML14071A113), Callaway (ADAMS ML13319A668) and Point Beach (ADAMS ML13322B208).~~

Commented [mkh4]: Moved to table

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

~~OFFICIAL USE ONLY – SENSITIVE INTERNAL INFORMATION~~

-2-

- On May 20, 2014, the NRC staff also approved similar schedule relaxations for Arkansas Nuclear One (ANO), Unit 1, Beaver Valley, Unit 1, and Wolf Creek, Unit 1.
- The NRC staff approved the schedule relaxation requests based on the following factors:
 - Allowing an additional outage to make the necessary modifications does not impact current plant safety.
 - These facilities will still be in compliance prior to December 31, 2016.

Commented [mkh5]: Moved to table

Additional Time Not Related to Outage Schedule

- On May 16, 2014, the licensee for Millstone submitted a schedule relaxation request to extend the compliance date for Millstone, Unit 3, from the Fall 2014 outage to April 30, 2015, in order to complete beyond-design-basis training in 2015. The licensee asserted that Millstone, Unit 3, has unique training challenges in 2014.

Commented [mkh6]: Moved to table

Coordinate with Hardened Vents Order

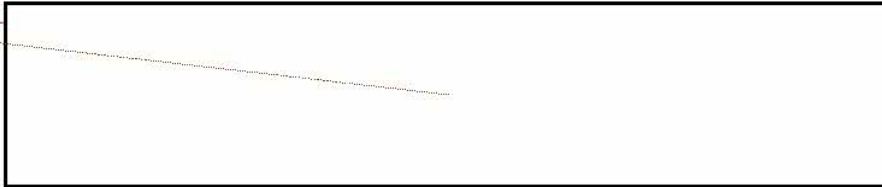
- Some licensees for facilities that must comply with Order EA-13-109 were granted schedule relaxation for Order EA-12-049 to allow for one additional refueling outage past 2016 to align with the schedule for EA-13-109.
- The affected facilities are Columbia (ADAMS ML14071A572), LaSalle, Units 1 & 2 (ADAMS ML14071A455), Limerick, Units 1 & 2 (ADAMS ML14065A528), Peach Bottom, Unit 3 (ADAMS ML14071A606), Quad Cities, Units 1 & 2 (ADAMS ML14071A531), and Susquehanna, Units 1 & 2 (ADAMS ML14065A028).
- The NRC staff granted schedule relaxation based on the consideration that the requested extension allows the licensee sufficient time to properly design and install the enhanced containment wetwell vent consistent with the requirements of Order EA-13-109; and that by completing the specified plant configuration changes to support the use of FLEX equipment (other than the severe accident capable containment wetwell vent), a portion of the desired increase in capability to respond to a beyond design-basis external event will be realized within the timeframe specified in Order EA-12-049.
- The NRC staff continues to require that, for strategies not requiring venting, the necessary equipment will be in place and operational prior to December 2016.
- One additional facility (Hope Creek) has submitted a similar relaxation request for an additional (third) outage; however, the additional outage will occur prior to December 2016. The NRC staff granted the relaxation request on May 20, 2014.

Commented [mkh7]: Moved to table

~~OFFICIAL USE ONLY – SENSITIVE INTERNAL INFORMATION~~

Order EA-12-051, Spent Fuel Pool Instrumentation

(b)(5)
Deliberative
Not for Distribution



Commented [mkh8]: Moved to table

- On June 10, 2014, the NRC rescinded the SFPI Order for Kewaunee Power Station (ADAMS Accession No. ML14066A204) for reasons related to its being permanently shut down and defueled.

Commented [mkh9]: Moved to table

Order EA-13-109, Hardened Vents

- On April 15, 2014, the NRC staff approved (ADAMS ML14055A323) a schedule relaxation and order rescission request related to Order EA-13-109 for Vermont Yankee. The staff authorized Entergy to defer submittal of their overall integrated plan bringing Vermont Yankee into compliance with Order EA-13-109 from June 30, 2014, to no later than startup from the unit's first refueling outage that begins after June 30, 2014, or by June 30, 2015, whichever comes first. Further, upon Entergy's docketing of the 10 CFR 50.82(a)(1)(i) and (ii) certifications for permanent cessation of operations and removal of fuel from the reactor vessel, the staff rescinds Order EA-13-109 for the Vermont Yankee Nuclear Power Station.
- On June 2, 2014, Exelon submitted a request for extension to comply with NRC Order EA-13-109 for the Oyster Creek Nuclear Generating Station. Based on the timelines specified in NRC Order EA-13-109, Exelon is currently required to implement Phase 1 (severe accident capable wetwell venting system) at Oyster Creek by startup after the Fall 2016 refueling outage, and Phase 2 (severe accident capable drywall venting system) by startup after the Fall 2018 refueling outage. Exelon requested an extension for both phases of the Order to January 31, 2020, based upon the permanent shutdown condition of the plant at that time. The NRC staff is currently evaluating Exelon's request.

Commented [mkh10]: Moved to table

10 CFR 50.54(f) Letter on Seismic, Flooding, and Emergency Preparedness Issues

Vermont Yankee

~~—OFFICIAL USE ONLY — SENSITIVE INTERNAL INFORMATION —~~

-2-

- On March 12, 2014, the NRC staff received a letter from Entergy, the licensee for Vermont Yankee, notifying the staff of revised regulatory commitments by the licensee with respect to responding to outstanding information requests from the NRC's 50.54(f) letter of March 12, 2012. The revised regulatory commitments defer any further responses until June 30, 2015. The licensee plans to permanently shut down their facility in December 2014, with removal of reactor fuel from their vessel by February 2015, and subsequent certification to the staff in accordance with 10 CFR 50.82(a)(1). The licensee's letter notes that upon their docketing of certifications pursuant to 10 CFR 50.82(a)(1), Vermont Yankee will no longer be an operating facility, and the requests and commitments associated with March 12, 2012, 50.54(f) letter will no longer be applicable. By July 18, 2014, the NRC staff plans to issue an acknowledgement letter to Entergy regarding Vermont Yankee Regulatory Commitments date changes associated with to NTTF Recommendation 2.1—seismic and NTTF Recommendation 9.3 Phase 2 staffing assessments. The letter ADAMS accession number can be found under ML14134A163.

Reevaluated Flooding Hazard Reliefs

- The NRC staff has confirmed the receipt of 11 schedule extension requests from licensees listed as Category 2 in the NRC's flooding hazard reevaluation prioritization letter of May 11, 2012 (ADAMS ML12097A509). Of these requests, eight are for sites which are situated on river systems with dams owned, operated, and/or regulated by Federal Government agencies (ANO, Cooper, Farley, Fort Calhoun, Beaver Valley, Columbia, Prairie Island, and Monticello). For these sites, the NRC staff is contracting with the U.S. Army Corps of Engineers (USACE) to develop flooding hydrographs based on postulated dam failures consistent with the staff's guidance, JLD-ISG-2013-01 "Guidance for Assessment of Flooding Hazards Due to Dam Failure." The staff has received hydrographs from USACE for Cooper and Fort Calhoun and provided them to the licensees on April 4, 2014. The staff expects the USACE to provide hydrographs for the other six sites by February 2015 for subsequent issuance to the licensees.
- The NRC staff is reviewing the requested licensee extension requests noted above, and is nearing completion on all reviews.
- On May 21, 2014, the NRC staff approved the requested 60-day schedule extension for the Columbia Generating Station. The staff will review the acceptability of the other licensees' requests related to USACE information on a case-by-case basis.
- In addition, the licensees for the Peach Bottom, Palo Verde, and Browns Ferry sites have also submitted schedule extension requests. The Peach Bottom licensee requested a 1-year extension based upon its need to develop a detailed hydrologic model of the Susquehanna river watershed to evaluate the flooding hazard for the site. The Palo Verde licensee requested a 9-month extension to complete the review and validation of the flooding hazard reevaluation results by its independent consultants. The Browns Ferry licensee requested a 1-year

~~—OFFICIAL USE ONLY — SENSITIVE INTERNAL INFORMATION —~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

-2-

extension to align the schedule for the site's flooding hazard reevaluation with those for its Sequoyah and Watts Bar sites. Browns Ferry extension was approved on May 9, 2014.

- The NRC staff is in the process of completing its review of the requested extension request for Peach Bottom, and [REDACTED]

(b)(5)
(b)(5)

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

February 27, 2015

MEMORANDUM TO: Chairman Burns
Commissioner Svinicki
Commissioner Ostendorff
Commissioner Baran

FROM: Michael R. Johnson */RA/*
Deputy Executive Director for Reactor
and Preparedness Programs
Office of the Executive Director for Operations

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

The purpose of this memorandum is to provide a bi-weekly status update regarding the U.S. Nuclear Regulatory Commission staff's progress in addressing the Tier 1 and Tier 2 Near-Term Task Force recommendations. Enclosure 1 provides information regarding the staff's recent significant accomplishments and expected activities prior to the next update with respect to addressing the recommendations. Enclosure 2 provides a table with additional details on upcoming milestones for each of the recommendations. Enclosure 3 provides information regarding ongoing requests for relaxation from, or rescission of, Fukushima Orders (EA-12-049, EA-12-051, and EA-13-109) or relief from the March 12, 2012, 50.54(f) letter information requests.

CONTACT: Gregory Bowman, NRR/JLD
(301) 415-2939

Enclosures:
As stated

cc: SECY
OGC
OCA
OPA
CFO

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

February 27, 2015

MEMORANDUM TO: Chairman Burns
Commissioner Svinicki
Commissioner Ostendorff
Commissioner Baran

FROM: Michael R. Johnson */RA/*
Deputy Executive Director for Reactor
and Preparedness Programs
Office of the Executive Director for Operations

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

The purpose of this memorandum is to provide a bi-weekly status update regarding the U.S. Nuclear Regulatory Commission staff's progress in addressing the Tier 1 and Tier 2 Near-Term Task Force recommendations. Enclosure 1 provides information regarding the staff's recent significant accomplishments and expected activities prior to the next update with respect to addressing the recommendations. Enclosure 2 provides a table with additional details on upcoming milestones for each of the recommendations. Enclosure 3 provides information regarding ongoing requests for relaxation from, or rescission of, Fukushima Orders (EA-12-049, EA-12-051, and EA-13-109) or relief from the March 12, 2012, 50.54(f) letter information requests.

CONTACT: Gregory Bowman, NRR/JLD
(301) 415-2939

Enclosures:
As stated

cc: SECY
OGC
OCA
OPA
CFO

DISTRIBUTION:

See next page

ADAMS Accession No.: ML15057A593

*via email

OFFICE	NRR/JLD	NRR/JLD/JPSB:BC	OEDO/TCCM	DEDR
NAME	LKGibson*	GBowman*	MDudek	MJohnson
DATE	2/26/15	2/26/15	02/27/15	02/27/15

OFFICIAL RECORD COPY

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

Memo to Commission from Michael R. Johnson dated February 27, 2015

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

DISTRIBUTION:

Commissioner Ostendorff
Commissioner Svinicki
Commissioner Baran
J. Zorn, OCM/SGB
S. Baggett, OCM/SGB
N. Gilles, OCM/SGB
K. Blake, OCM/SGB
P. Bubar, OCM/KLS
P. Castleman, OCM/KLS
J. Lepre, OCM/KLS
E. Brenner, OCM/WCO
A. Cubbage, OCM/WCO
L. Herr, OCM/WCO
S. Bozin, OCM/WCO
A. Powell, OCM/JMB
R. Taylor, OCM/JMB
S. Schumann, OCM/JMB
M. Satorius, EDO
M. Johnson, DEDR
M. Weber, DEDMRT
D. Ash, DEDCM
C. Santos, OEDO
M. Dudek, OEDO
B. Dean, NRR
J. Uhle, NRR
J. Davis NRR
L. Gibson, NRR
J. Wiggins, NSIR
B. Sheron, RES
G. Tracy, NRO
C. Haney, NMSS
B. Holian, NRR
D. Dorman, Region I
V. McCree, Region II
C. Pederson, Region III
M. Dapas, Region IV
OCA
OPA
OIP
EDO R/F

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY – SENSITIVE INTERNAL INFORMATION~~

Significant Recent Accomplishments Regarding Tier 1 and Tier 2 Activities

- (1) On February 24, 2015, the U.S. Nuclear Regulatory Commission (NRC) staff briefed the Japan Lessons-Learned Steering Committee on the results of its assessment of recommendations from the National Academy of Sciences (NAS) report on the Fukushima accident, as well as the status of the post-Fukushima rulemaking efforts. With respect to the NAS report, the NRC staff indicated that it would provide its assessment to the Commission in the next 6-month status update, due to the Commission in April 2015. The staff indicated that the Mitigation of Beyond Design Basis Events proposed rule package is now in the early concurrence stage. NRC staff is presenting the proposed rule package and associated draft guidance to the Fukushima subcommittee of the Advisory Committee on Reactor Safeguards on March 19, 2015. With respect to the Containment Protection and Release Reduction rulemaking, the staff is developing an information SECY paper to provide the results of the draft regulatory basis. That paper is expected to be provided to the Commission in late spring 2015.
- (2) On February 23, 2015, the NRC staff developed a white paper (Agencywide Documents Access Management System (ADAMS) Accession No. ML15042A367) describing the results of the NRC staff's assessment of Fukushima lessons learned for regulated facilities other than power reactors publicly available in order to support an upcoming public meeting on March 13, 2015. A separate letter (ADAMS Accession No. ML15050A430) was sent to the Agreement States on February 20, 2015, seeking Agreement State comments on the portions of the paper related to their regulated facilities. Following incorporation of stakeholder feedback, where appropriate, the staff intends to provide the Commission with a final assessment of Fukushima impacts on these facilities by the end of March 2015.

Formatted: Not Highlight

Formatted: List Paragraph, Numbered + Level: 1 +
Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left
+ Aligned at: 0" + Indent at: 0.25"

(b)(5) Deliberative Privilege

Enclosure 1

~~OFFICIAL USE ONLY – SENSITIVE INTERNAL INFORMATION~~

Activities Expected to Occur by March 15, 2015

- (1) By March 6, 2015, the NRC staff expects to issue letters to Entergy Nuclear Operations, Inc. (the licensee for Vermont Yankee Nuclear Power Station), approving the rescission of Orders EA-12-049 and EA-12-051. On August 28, 2014, Entergy Nuclear Operations, Inc., submitted a request for Orders EA-12-049 and EA-12-051 for the Vermont Yankee Nuclear Power Station to be rescinded when they docket their 10 CFR 50.82(a)(1) certifications for permanent cessation of operations and removal of fuel from the reactor vessel (ADAMS Accession No. ML14246A205). On January 12, 2015, Entergy submitted their "Certification of Permanent Cessation of Power Operations and Permanent Removal of Fuel from the Reactor Vessel Vermont Yankee Nuclear Power Station" (ADAMS Accession No. ML15013A426).
- (2)(1) By March 6, 2015, the NRC staff expects to issue the draft interim staff guidance (ISG) for compliance with Phase 2 of Order EA-13-109 for public comment. Phase 2 of this order requires installation of a reliable, severe accident capable, hardened drywell vent or the development of a strategy that makes it unlikely that a licensee would need to vent from the containment drywell during severe accident conditions. Comments from the public will be considered in the development of the final ISG, which is scheduled to be issued by April 30, 2015.
- (3)(2) By March 6, 2015, the NRC staff expects to issue a letter endorsing a white paper submitted by the Nuclear Energy Institute (NEI) on October 22, 2014, entitled "HCVS-WP-03 – Hydrogen/Carbon Monoxide Control Measures, Revision 1, October 2014" (ADAMS Accession No. ML14302A066). The purpose of the white paper is to further develop and clarify the guidance provided in NEI 13-02 (ADAMS Accession No. ML14349A369) related to the industry's ability to meet the requirements of Order EA-13-109, "Order Modifying Licenses With Regard To Reliable Hardened Containment Vents Capable of Performing under Severe Accident Conditions" (ADAMS Accession No. ML13130A067). The NRC staff interacted with the industry and external stakeholders during development of this white paper.
- (4)(3) By March 12, 2015, the NRC staff expects to receive the seismic hazard reevaluation reports for the plants in the Western United States (Columbia Generating Station, Diablo Canyon Nuclear Power Plant, Units 1 and 2, and Palo Verde Nuclear Generating Station, Units 1, 2, and 3). This will complete the seismic hazard reevaluation submittals for all plants.
- (5)(4) By March 12, 2015, the NRC staff expects to receive the flooding hazard reevaluation reports for the Category 3 facilities. Only plants that have specifically been granted an extension will be submitting their reevaluation reports after this date.

~~— OFFICIAL USE ONLY — SENSITIVE INTERNAL INFORMATION —~~

- 3 -

(6)(5) On March 13, 2015, the NRC staff plans to hold a public meeting to solicit comments on its preliminary assessment (ADAMS Accession No. ML15042A367) of applicability of Fukushima lessons learned to facilities other than operating power reactors. The facilities and licensees to be discussed at the meeting are: spent fuel storage installations, fuel facilities, irradiators, low-level waste disposal facilities, radioactive materials users, research and test reactors, decommissioned power reactors, and complex material facilities. The staff will consider feedback provided during this meeting in its final assessment of Fukushima lessons learned for these facilities, which it intends to provide to the Commission by the end of March 2015.

~~— OFFICIAL USE ONLY — SENSITIVE INTERNAL INFORMATION —~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
<i>Tier 1</i>				
NTTF 2.1	Seismic Hazard Reevaluation Request for Information (RFI)	RFI issued March 12, 2012 Central and Eastern U.S. (CEUS) licensees with reevaluated seismic hazards greater than current design basis submitted results of their Expedited Approach by December 31, 2014	Licensees for Western U.S. facilities to submit site seismic hazard reevaluations by March 12, 2015	NRC to issue seismic hazard staff assessments for CEUS licensees by September 30, 2015
NTTF 2.1	Flooding Hazard Reevaluation RFI	RFI issued March 12, 2012 Category 2 facility licensees submitted reevaluated flooding hazard assessments, or schedule extension requests, by March 12, 2014	Staff to complete review of reevaluated flooding hazards submitted by Category 1 facility licensees and issue safety assessments (SAs)	Category 3 facility licensees to submit reevaluated flooding hazard assessments by March 12, 2015
NTTF 2.3	Seismic Hazard Walkdown RFI	RFI issued March 12, 2012 Staff completed review of seismic walkdown reports and issued SAs by June 13, 2014		

Enclosure 2

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

2

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 2.3	Flooding Hazard Walkdown RFI	RFI issued March 12, 2012 Staff completed review of flooding walkdown reports and issued SAs by July 18, 2014		
NTTF 4.1	Mitigation of Beyond-Design-Basis Events Rulemaking (formerly Station Blackout Mitigating Strategies Rulemaking)	Staff published regulatory basis in <i>Federal Register</i> on July 23, 2013	Staff to complete development of proposed rule by April 30, 2015	The U.S. Nuclear Regulatory Commission (NRC) to issue final rule by December 2016
NTTF 4.2	Mitigating Strategies Order (EA-12-049)	Order issued March 12, 2012 The NRC issued interim staff evaluations (ISEs) on all integrated plans by February 27, 2014	The NRC to issue safety evaluations between mid-2014 and spring 2017, based on the outage when each site is in full compliance with the requirements of the order	The NRC to conduct post-compliance inspections
NTTF 5.1	Severe Accident Capable Reliable Hardened Vents Order (EA-13-109)	Order issued June 6, 2013 The NRC received integrated plans (and one extension request) in response to Order EA-13-109, Phase 1, by June 30, 2014	The NRC to issue interim staff guidance to support licensee compliance for Phase 2 by April 30, 2015	The NRC to issue ISEs regarding licensee integrated plans for Phase 1 by June 30, 2015

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

- 3 -

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 7.1	Enhanced Spent Fuel Pool Instrumentation Order (EA-12-051)	Order issued March 12, 2012 The NRC issued ISEs on integrated plans for all operating reactors by December 12, 2013	The NRC to issue safety evaluations between mid-2014 and spring 2017, based on the outage when each site is in full compliance with the requirements of Order EA-12-049	The NRC to conduct post-compliance inspections
NTTF 8	On-Site Emergency Response Capabilities Rulemaking	Final regulatory basis published in <i>Federal Register</i> by October 25, 2013 Per Commission Staff Requirements Memoranda (SRM) dated July 9, 2014, staff action on Near-Term Task Force (NTTF) Recommendation 8 has been consolidated with the NTTF Recommendation 4 rulemaking		
NTTF 9.3	Emergency Preparedness (EP) Communications Assessment RFI	RFI issued March 12, 2012 Staff review of licensee 50.54(f) letter responses is complete	Follow-up inspections to be conducted along with those associated with NTTF 4.2, NTTF 7.1, and NTTF 9.3 – Staffing	

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

- 4 -

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 9.3	EP: Staff assessment RFI	RFI issued March 12, 2012 Phase 1 staffing assessment evaluations issued for all multiunit sites by April 28, 2014	Licensee Phase 2 staffing assessments (which include consideration of staffing needed to implement the Mitigation Strategies Order) due 4 months prior to 2 nd refueling outage after March 2013	
NTTF 9.4	EP: Emergency Response Data System Modernization Initiative Voluntary Initiative	Completed - June 2012		
SECY-12-0025, Enc. 2	Containment Protection and Release Reduction (CPRR) Rulemaking (formerly Filtration Strategies)	SECY paper addressing staff recommendation with regard to filtered containment vents sent to the Commission on November 28, 2012, Commission SRM issued on March 19, 2013	CPRR SECY paper providing the current status and path forward – spring 2015	Staff to develop regulatory basis by September 2015, proposed rule by September 2016, final rule by December 2017

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

- 5 -

Source	Regulatory Action	Completed	Next Milestone	Future Milestone
<i>Tier 2</i>				
NTTF 7.2-7.5	Rulemaking: Require licensees to provide reliable spent fuel pool makeup capabilities	Per SRM dated March 4, 2013, staff action on NTTF 7.2-7.5 has been consolidated with the NTTF 4 rulemaking		
NTTF 9.3 Tier 2 (partial)	Order: Requiring a revision to the emergency plan to address multiunit dose assessments, periodic training and exercises for multiunit, prolonged station blackout scenarios, drills on identification and acquisition of offsite resources, and ensuring sufficient EP resources for multiunit and prolonged station blackout scenarios	By SRM dated April 30, 2013, the Commission approved the direction requested in COMSECY-13-0010 On April 2, 2014, the staff completed the issuance of responses regarding licensee multiunit dose assessment capabilities to all licensees		
SECY-12-0025	RFI: Reevaluate other natural external hazards against current requirements and guidance and update the design basis and take appropriate regulatory action to resolve issues associated with updated site-specific hazards		Initiate as resources are available	

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

**ONGOING REQUESTS FOR RELAXATION FROM, OR RESCISSION OF,
FUKUSHIMA ORDERS (EA-12-049, EA-12-051, EA-13-109) OR
RELIEF FROM THE MARCH 12, 2012, 50.54(f) LETTER INFORMATION REQUESTS**

Several licensees have requested that the U.S. Nuclear Regulatory Commission (NRC) staff relax the requirements of Orders EA-12-049, EA-12-051, or EA-13-109. The reasons for the relaxation requests are due to either decommissioning, the need for an additional refueling outage to complete modifications, or to align compliance with Order EA-12-049 with the requirements and schedule for Order EA-13-109. Certain requests have already been approved. Below are the reviews that are ongoing or were completed during the reporting period for this memorandum.

Order EA-12-049, Mitigation Strategies

- On August 1, 2014, Union Electric Company (Ameren Missouri) submitted a relaxation request for the Callaway Nuclear Plant, Unit 1 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14217A236). Specifically, Ameren Missouri requested permission to design and construct a new hardened condensate storage tank and diverse and flexible coping strategies storage building in accordance with Regulatory Guide 1.76, Revision 1, rather than Regulatory Guide 1.76, Revision 0. By letter dated February 18, 2015, the licensee withdrew the request (ADAMS Accession No. ML15049A364).
- On August 28, 2014, Entergy Nuclear Operations, Inc., submitted a request for Order EA-12-049 for the Vermont Yankee Nuclear Power Station to be rescinded when they docket their 10 CFR 50.82(a)(1) certifications for permanent cessation of operations and removal of fuel from the reactor vessel (ADAMS Accession No. ML14246A205). On January 12, 2015, Entergy submitted their "Certification of Permanent Cessation of Power Operations and Permanent Removal of Fuel from the Reactor Vessel Vermont Yankee Nuclear Power Station" (ADAMS Accession No. ML15013A426). By March 3, 2015, the NRC staff expects to issue a letter (ADAMS Accession No. ML14321A685) to Entergy Nuclear Operations, Inc., approving the rescission of Order EA-12-049 for the Vermont Yankee Nuclear Power Station.

(b)(5)
Deliberative
(b)(5)
Deliberative

(b)(5)
Deliberative

Formatted: Font color: Auto
Formatted: Indent: Left: 0.25", No bullets or numbering
Formatted: Line spacing: Multiple 1.15 li, Tab stops: Not at 0.44"

(b)(5) Deliberative Privilege

Formatted: Font color: Custom Color(RGB(31,73,125))

Enclosure 3

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

- 2 -

- On January 28, 2015, Entergy Nuclear Operations, Inc., submitted an extension request for Indian Point Nuclear Generating, Unit 3 (ADAMS Accession No. ML15034A506). Entergy is requesting one additional refueling outage for compliance with Order EA-12-049 from (1) prior to the restart from their refueling outage in the spring of 2015, to (2) prior to the restart from the refueling outage in the spring of 2017. The additional time would allow Entergy to develop and incorporate an analytical basis for reactor coolant pump seal leakage values which would be acceptable to the NRC. Entergy stated that it plans to install orifices in the seal leakoff lines in the spring of 2015, but if that modification cannot be completed it will rely on the relaxation. The NRC staff is currently evaluating this request.
- On February 20, 2015, Exelon Generation Company, LLC, submitted an extension request for Calvert Cliffs Nuclear Power Plant, Unit 2 (ADAMS Accession No. ML15056A695). Exelon is requesting an extension for compliance with Order EA-12-049 from (1) prior to the restart from their refueling outage in the spring of 2015, to (2) no more than 60 days following the restart from the refueling outage in the spring of 2015. The additional time ~~will~~ould allow Exelon to complete the construction of the FLEX Robust Storage Building, which was that has been delayed in order to fix voids found in the structure's poured concrete walls. ~~The NRC staff is currently evaluating this request.~~By letter dated March 4, 2015 (ADAMS Accession No. ML15054A334), the NRC staff approved the relaxation request.

Formatted: Font color: Custom Color(RGB(31,73,125))

Formatted: Indent: Left: 0.5", Line spacing: Multiple 1.15 li, No bullets or numbering

(b)(5) Deliberative Privilege

Formatted: Indent: Left: 0.25", No bullets or numbering

Order EA-12-051, Spent Fuel Pool Instrumentation

- On August 28, 2014, Entergy Nuclear Operations, Inc., submitted a request for Order EA-12-051 for the Vermont Yankee Nuclear Station to be rescinded when they docket their 10 CFR 50.82(a)(1) certifications for permanent cessation of operations and removal of fuel from the reactor vessel (ADAMS Accession No. ML14246A187). On January 12, 2015, Entergy submitted their "Certification of Permanent Cessation of Power Operations and Permanent Removal of Fuel from the Reactor Vessel Vermont Yankee Nuclear Power Station" (ADAMS Accession No. ML15013A426). On~~By~~ March 26, 2015, the NRC staff ~~expects to issue~~d a letter (ADAMS Accession No. ML14321A696) to Entergy Nuclear Operations, Inc., approving the rescission of Order EA-12-051 for the Vermont Yankee Nuclear Power Station.

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

- 3 -

Order EA-13-109, Hardened Vents

- On June 2, 2014, Exelon Generation Company, LLC, submitted a request for an extension to comply with NRC Order EA-13-109 for the Oyster Creek Nuclear Station. Based on the timelines specified in Order EA-13-109, Exelon is currently required to implement Phase 1 of Order EA-13-109 (severe accident capable wetwell venting system) at Oyster Creek by startup after the fall 2016 refueling outage and Phase 2 (severe accident capable drywell venting system) by startup after the fall 2018 refueling outage. Exelon requested an extension for both phases of the order until January 31, 2020. Oyster Creek is expected to be permanently shutdown at that time. The NRC staff is currently evaluating Exelon's request.

10 CFR 50.54(f) Letter on Seismic, Flooding, and Emergency Preparedness Issues

- On January 5, 2015, Exelon Generation Company, LLC, submitted a request (ADAMS Accession No. ML15006A239) to extend the due date for the Peach Bottom Atomic Power Station, Units 2 and 3 (Peach Bottom) flood hazard reevaluation report. Based on the NRC staff's prioritization letter issued March 1, 2013, Peach Bottom was assigned a due date of March 12, 2014. By letter dated July 17, 2014, the staff extended the due date for the Peach Bottom report to March 12, 2015, based on a request dated March 12, 2014. The January 5, 2015, request was for the Peach Bottom report due date to be extended to August 12, 2015. Exelon stated that the requested extension was to develop a detailed hydrologic model of the Susquehanna River watershed for the flooding hazard for the Peach Bottom site, including a site-specific hydrometeorological study for the Susquehanna River watershed. Exelon stated that additional time would be required to complete the model. The NRC staff is evaluating this request.

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

MEMORANDUM TO: Chairman Macfarlane
Commissioner Svinicki
Commissioner Magwood
Commissioner Ostendorff

FROM: Michael R. Johnson
Deputy Executive Director for Reactor
and Preparedness Programs
Office of the Executive Director for Operations

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

The purpose of this memorandum is to provide a bi-weekly status update regarding the U.S. Nuclear Regulatory Commission staff's progress in addressing the Tier 1 and Tier 2 Near-Term Task Force recommendations. Enclosure 1 provides information regarding the staff's recent significant accomplishments and expected activities prior to the next update with respect to addressing the recommendations. Enclosure 2 provides a table with additional details on upcoming milestones for each of the recommendations. Enclosure 3 provides information regarding ongoing requests for relaxation from, or rescission of, Fukushima orders (EA-12-049, EA-12-051, and EA-13-109) or relief from March 12, 2012, 50.54(f) letter information requests.

Enclosures:
As stated

cc: SECY
OGC
OCA
OPA
CFO

CONTACT: Michael I. Dudek, OEDO
(301) 415-6500

MEMORANDUM TO: Chairman Macfarlane
Commissioner Svinicki
Commissioner Magwood
Commissioner Ostendorff

FROM: Michael R. Johnson
Deputy Executive Director for Reactor
and Preparedness Programs
Office of the Executive Director for Operations

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

The purpose of this memorandum is to provide a bi-weekly status update regarding the U.S. Nuclear Regulatory Commission staff's progress in addressing the Tier 1 and Tier 2 Near-Term Task Force recommendations. Enclosure 1 provides information regarding the staff's recent significant accomplishments and expected activities prior to the next update with respect to addressing the recommendations. Enclosure 2 provides a table with additional details on upcoming milestones for each of the recommendations. Enclosure 3 provides information regarding ongoing requests for relaxation from, or rescission of, Fukushima orders (EA-12-049, EA-12-051, and EA-13-109) or relief from March 12, 2012, 50.54(f) letter information requests.

Enclosures:
As stated

cc: SECY
OGC
OCA
OPA
CFO

CONTACT: Michael I. Dudek, OEDO
(301) 415-6500

DISTRIBUTION:
See next page

ADAMS Accession No.: *via email

OFFICE	NRR/JLD	OEDO/TCCM	DEDR
NAME	LKGibson*	MDudek	MJohnson
DATE	8/5/2014		

OFFICIAL RECORD COPY

Memo to Commission from Michael R. Johnson dated

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

DISTRIBUTION:

Commissioner Ostendorff
Commissioner Svinicki
Commissioner Magwood
S. Helton, OCM/AMM
J. Jolicoeur, OCM/AMM
P. Pace, OCM/AMM
A. Cermeno, OCM/AMM
P. Castleman, OCM/KLS
J. Lepre, OCM/KLS
P. Bubar, OCM/WDM
J. Jessie, OCM/WDM
P. Jimenez, OCM/WDM
E. Brenner, OCM/WCO
A. Cubbage, OCM/WCO
L. Herr, OCM/WCO
S. Bozin, OCM/WCO
M. Satorius, EDO
R. Zimmerman, DEDMRT
M. Johnson, DEDR
D. Ash, DEDCM
K. Brock, OEDO
M. Dudek, OEDO
D. Dorman, NRR
J. Uhle, NRR
D. Skeen, NRR
L. Gibson, NRR
J. Wiggins, NSIR
B. Sheron, RES
G. Tracy, NRO
C. Haney, NMSS
B. Holian, FSME
W. Dean, Region I
V. McCree, Region II
C. Pederson, Region III
M. Dapas, Region IV
OPA
OIP
EDO R/F

Significant Recent Accomplishments Regarding Tier 1 and Tier 2 Activities

- (1) On July 22, 2014, the National Academy of Sciences (NAS) briefed the NRC staff on the findings and recommendations in their report on the Fukushima Dai-ichi accident. The report was publicly released on July 24, 2014. The NRC staff will review the report for additional insights into the Fukushima Dai-ichi accident and will use it to inform the agency's ongoing lessons-learned activities. The staff will notify the Commission of any new or significant information obtained from the report. NAS also briefed the Commission on the findings and recommendations in the July 31, 2014, Commission Meeting, as discussed below.
- (2) On July 23, 2014, the NRC staff held a public meeting with NEI (Nuclear Energy Institute) to discuss activities related to NTTF Recommendation 2.1—Seismic. Specifically, the meeting focused on the industry's development of a template for the Expedited Seismic Evaluation Process (ESEP), which is due to the NRC staff by December 2014 for plants in the Central and Eastern U.S (CEUS). NEI representatives agreed to work with the NRC staff on the level of submittal detail by sharing examples of certain sections of the ESEP. The NEI representatives also agreed to continuing dialog on developing conclusions that reflect that the interim nature of the ESEP in relation to longer-term seismic risk evaluations. The meeting summary can be found in Agencywide Document Access and Management System (ADAMS) under ML14212A088.
- (3) On July 24, 2014, the NRC staff held a meeting with NEI related to the flooding hazard reevaluations (NTTF Recommendation 2.1—Flooding) and discussed the NEI white paper related to "Local Intense Precipitation Warning Time", among other topics. The staff provided comments and exchanged information with NEI on the path forward for the paper. NEI has preliminarily indicated that it is considering creating a Frequently Asked Question (FAQ) and attaching the white paper.
- (4) On July 29, 2014, the NRC staff completed issuance of the responses to the requests for extensions to the March 12, 2014 due date for the flood hazard reevaluation reports (NTTF Recommendation 2.1—Flooding) for the Category 2 plants. The staff granted the extensions as requested by the licensee for all plants, except Prairie Island and Monticello. The extensions granted for Prairie Island and Monticello were granted for 4 months less than requested.
- (5) On July 31, 2014, a Commission meeting was held to discuss the status of the Fukushima lessons-learned activities. The external panel included the National Academy of Sciences, the Union of Concerned Scientists, the French Nuclear Safety Authority, a representative from the state of Illinois, and representatives from industry. The agenda, slides, and webcast are available at <http://www.nrc.gov/reading-rm/doc-collections/commission/tr/2014/>.

Enclosure 1

Activities Expected to Occur by August 15, 2014

- (1) On August 7, 2014, the NRC staff plans to hold a public webinar concerning the licensee's implementation of Order EA-13-109, Severe Accident Capable Hardened Vents (NTTF Recommendation 5.1). The meeting will focus on issues related to implementation of Order EA-13-109 requirements including: Phase 2 compliance development and deliverable milestones, drywell vent design temperature, and staff's initial comments on recently submitted Overall Integrated Plans (OIPs) under Phase 1. Additionally, the staff will also provide their initial comments on an NEI white paper related to hydrogen/carbon monoxide control measures. There will also be a discussion on filtering strategies rulemaking topics of mutual interest.
- (2) On August 13, 2014, the NRC staff plans to hold a public meeting with NEI to discuss activities related to NTTF Recommendation 2.1—Seismic. Specifically, this meeting will continue discussions on the development of the industry's template for the Expedited Seismic Evaluation Process due to the NRC staff by December 2014 for plants in the CEUS. The staff plans to discuss example submittal sections during the meeting.
- (3) By August 15, 2014, the NRC staff plans to issue to final seismic screening letters in support of NTTF Recommendation 2.1—Seismic for Monticello and Duane Arnold. These sites were "conditionally screened-in" for seismic probabilistic risk assessment in May 2014. The NRC staff has had additional time to review and evaluate the information contained in the March 2014 re-evaluated seismic hazard report and has completed a final screening review for those sites. The NRC final screening reviews agree with the licensee March 2014 re-evaluated seismic hazard reports. The draft letters for Monticello and Duane Arnold can be found in ADAMS under ML14210A030 and ML14198A070, respectively. The NRC is currently reviewing the situation for the other "conditionally screened-in" plants.

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
<i>Tier 1</i>				
NTTF 2.1	Seismic Hazard Reevaluation Request for Information (RFI)	RFI issued March 12, 2012 Letter providing screening and prioritization results for central and eastern U.S. (CEUS) facilities' seismic hazard reevaluations issued May 9, 2014	CEUS licensees with reevaluated seismic hazards greater than current design basis to submit results of expedited approach by December 31, 2014	Licensees for western U.S. facilities to submit site seismic hazard reevaluations by March 12, 2015
NTTF 2.1	Flooding Hazard Reevaluation RFI	RFI issued March 12, 2012 Category 2 facility licensees submitted reevaluated flooding hazard assessments, or schedule extension requests, by March 12, 2014	Staff to complete review of reevaluated flooding hazards submitted by Category 1 facility licensees and issue most safety assessments (SAs) by November 30, 2014	Category 3 facility licensees submitted reevaluated flooding hazard assessments by March 12, 2015 Category 1 facility licensees with reevaluated flooding hazards greater than current licensing basis to submit site integrated assessments by March 12, 2015
NTTF 2.3	Seismic Hazard Walkdown RFI	RFI issued March 12, 2012 Staff completed review of seismic walkdown reports and issued SAs by June 13, 2014		

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 2.3	Flooding Hazard Walkdown RFI	RFI issued March 12, 2012 Staff completed review of flooding walkdown reports and issued SAs by July 18, 2014		
NTTF 4.1	Station Blackout Mitigating Strategies (SBOMS) Rulemaking	Staff published regulatory basis in <i>Federal Register</i> on July 23, 2013	Staff to complete development of proposed rule by December 19, 2014	The U.S. Nuclear Regulatory Commission (NRC) to issue final rule by December 2016
NTTF 4.2	SBOMS Order (EA-12-049)	Order issued March 12, 2012 The NRC issued interim staff evaluations (ISEs) on all integrated plans by February 27, 2014	The NRC to issue safety evaluations between mid-2014 and Spring 2017, based on the outage when each site is in full compliance with the requirements of the Order	The NRC to conduct post-compliance inspections
NTTF 5.1	Severe Accident Capable Reliable Hardened Vents Order (EA-13-109)	Order issued June 6, 2013 The NRC received integrated plans (and one extension request) in response to Order EA-13-109, Phase 1, by June 30, 2014	The NRC to issue ISEs regarding licensee integrated plans for Phase 1 by June 30, 2015	The NRC to issue Interim Staff Guidance to support licensee compliance for Phase 2 by April 30, 2015.

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 7.1	Enhanced Spent Fuel Pool Instrumentation Order (EA-12-051)	Order issued March 12, 2012 The NRC issued ISEs on integrated plans for all operating reactors by December 12, 2013	The NRC to issue safety evaluations between mid-2014 and Spring 2017, based on the outage when each site is in full compliance with the requirements of the Order	The NRC to conduct post-compliance inspections
NTTF 8	On-site Emergency Response Capabilities Rulemaking	Final regulatory basis published in <i>Federal Register</i> by October 25, 2013	Staff to complete development of proposed rule by December 19, 2014	Provide final rule to the Commission by December 2016
NTTF 9.3	Emergency Preparedness (EP) Communications Assessment RFI	RFI issued March 12, 2012 Staff review of licensee 50.54(f) letter responses is complete	Follow-up inspections to be conducted along with those associated with NTTF 4.2, NTTF 7.1, and NTTF 9.3 – Staffing	
NTTF 9.3	EP: Staff assessment RFI	RFI issued March 12, 2012 Phase 1 staffing assessment evaluations issued for all multiunit sites by April 28, 2014	Licensee Phase 2 staffing assessments (which include consideration of staffing needed to implement the Mitigation Strategies Order) due 4 months prior to 2 nd refueling outage after March 2013	

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 9.4	EP: Emergency Response Data System Modernization Initiative Voluntary Initiative	Completed - June 2012		
SECY-12-0025, Enc. 2	Rulemaking – Filtration Strategies	SECY paper addressing staff recommendation with regard to filtered containment vents sent to the Commission on November 28, 2012 Commission staff requirements memoranda (SRM) issued on March 19, 2013	Staff to develop regulatory basis for a potential rulemaking by December 19, 2014	Staff to develop a proposed rulemaking by December 19, 2015

Source	Regulatory Action	Completed	Next Milestone	Future Milestone
<i>Tier 2</i>				
NTTF 7.2-7.5	Rulemaking - Require licensees to provide reliable spent fuel pool makeup capabilities	Per Commission SRM dated March 4, 2013, staff action on NTTF 7.2-7.5 has been consolidated with the NTTF 4 Rulemaking		
NTTF 9.3 Tier 2 (partial)	Order - Requiring a revision to the emergency plan to address multiunit dose assessments, periodic training and exercises for multiunit and prolonged SBO scenarios, and drills on identification and acquisition of offsite resources, and ensuring sufficient EP resources for multiunit and prolonged SBO scenarios	By SRM dated April 30, 2013, the Commission approved the direction requested in COMSECY-13-0010 On April 2, 2014, the staff completed the issuance of responses regarding licensee multiunit dose assessment capabilities to all licensees		
SECY-12-0025,	RFI - Reevaluate other natural external hazards against current requirements and guidance and update the design basis and take appropriate regulatory action to resolve issues associated with updated site-specific hazards		Initiate as resources are available	

**ONGOING REQUESTS FOR RELAXATION FROM, OR RESCISSION OF,
FUKUSHIMA ORDERS (EA-12-049, EA-12-051, EA-13-109) OR
RELIEF FROM MARCH 12, 2012, 50.54(f) LETTER INFORMATION REQUESTS**

Several licensees have communicated to the U.S. Nuclear Regulatory Commission (NRC) staff, formally and informally, a request to relax the requirements of Orders EA-12-049, EA-12-051, or EA-13-109 regarding mitigation strategies for beyond design basis events, additional spent fuel pool instrumentation, and hardened vents (Near Term Task Force (NTTF) Recommendations 4.2, 7.1, 5.1). The reasons for the relaxation requests are due to either decommissioning, the need for an additional refueling outage to complete modifications, or to align with the requirements and schedule for Order EA-13-109, regarding severe accident capable vents for boiling water reactors with Mark I and Mark II containments (NTTF Recommendation 5.1). Certain requests have already been approved. Below are the reviews that are ongoing or were completed during the reporting period for this memorandum.

Order EA-12-049, Mitigation Strategies

- On July 31, 2014, PSEG Nuclear, LLC, submitted an extension request for Salem Generating Station, Unit 1 (ADAMS Accession No. ML14212A355). The licensee is requesting one additional refueling outage from prior to restart from the refueling outage in Fall 2014 to prior to the restart from the refueling outage in Spring 2016. The additional time would allow PSEG to develop and implement plant changes to reduce the recently recalculated reactor coolant pump leakage to be compatible with the original assumptions that were used in the plant's Integrated Plan for the Mitigation Strategies Order. The NRC staff is currently evaluating this request.

Order EA-12-051, Spent Fuel Pool Instrumentation

There are no requests under review at this time.

Order EA-13-109, Hardened Vents

- On June 2, 2014, Exelon submitted a request for extension to comply with NRC Order EA-13-109 for the Oyster Creek Nuclear Generating Station. Based on the timelines specified in Order EA-13-109, Exelon is currently required to implement Phase 1 (severe accident capable wetwell venting system) at Oyster Creek by startup after the Fall 2016 refueling outage; and Phase 2 (severe accident capable drywall venting system) by startup after the Fall 2018 refueling outage. Exelon requested an extension for both phases of the Order to January 31, 2020. The plant is expected to be permanently shutdown at that time. The NRC staff is currently evaluating Exelon's request.

Enclosure 3

10 CFR 50.54(f) Letter on Seismic, Flooding, and Emergency Preparedness Issues

Vermont Yankee

- On March 12, 2014, the NRC staff received a letter from the licensee for the Vermont Yankee Station (Entergy), notifying the staff of revised regulatory commitments by the licensee with respect to responding to outstanding information requests from the NRC's 50.54(f) letter of March 12, 2012. The revised regulatory commitments defer any further responses until June 30, 2015. Entergy plans to permanently shut down their facility in December 2014, with removal of reactor fuel from their vessel by February 2015, and subsequent certification to the staff in accordance with 10 CFR 50.82(a)(1). The licensee's letter notes that upon their docketing of certifications pursuant to 10 CFR 50.82(a)(1), Vermont Yankee will no longer be an operating facility, and the requests and commitments associated with March 12, 2012, 50.54(f) letter will no longer be applicable. On July 28, 2014 (ADAMS ML14134A163), the NRC staff issued a letter to Entergy regarding Vermont Yankee regulatory commitments date changes associated with NTTF Recommendation 2.1—Seismic, as well as NTTF Recommendation 9.3 and the Phase 2 staffing assessments. In the letter, the NRC concluded that the revised commitment dates are acceptable.

Reevaluated Flooding Hazard Reliefs

- By July 29, 2014, the NRC has issued responses to the 11 schedule extension requests from licensees listed as Category 2 in the NRC's flooding hazard reevaluation prioritization letter of May 11, 2012 (ADAMS ML12097A509). Eight of the schedule extension requests (Arkansas Nuclear One (ANO), Cooper, Farley, Fort Calhoun, Beaver Valley, Columbia, Prairie Island, and Monticello) pertained to obtaining and integrating information from the U.S. Army Corps of Engineers. The remaining extension requests were for Peach Bottom, Palo Verde, and Browns Ferry. The staff granted the extensions as requested by the licensee for all plants, except Prairie Island and Monticello. The extensions granted for Prairie Island and Monticello were granted for 4 months less than requested.

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

MEMORANDUM TO: Chairman Burns
Commissioner Svinicki
Commissioner Ostendorff
Commissioner Baran

FROM: Michael R. Johnson
Deputy Executive Director for Reactor
and Preparedness Programs
Office of the Executive Director for Operations

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

The purpose of this memorandum is to provide a bi-weekly status update regarding the U.S. Nuclear Regulatory Commission staff's progress in addressing the Tier 1 and Tier 2 Near-Term Task Force recommendations. Enclosure 1 provides information regarding the staff's recent significant accomplishments and expected activities prior to the next update with respect to addressing the recommendations. Enclosure 2 provides a table with additional details on upcoming milestones for each of the recommendations. Enclosure 3 provides information regarding ongoing requests for relaxation from, or rescission of, Fukushima Orders (EA-12-049, EA-12-051, and EA-13-109) or relief from the March 12, 2012, 50.54(f) letter information requests.

Enclosures:
As stated

cc: SECY
OGC
OCA
OPA
CFO

CONTACT: Michael I. Dudek, OEDO
(301) 415-6500

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

MEMORANDUM TO: Chairman Burns
Commissioner Svinicki
Commissioner Ostendorff
Commissioner Baran

FROM: Michael R. Johnson
Deputy Executive Director for Reactor
and Preparedness Programs
Office of the Executive Director for Operations

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

The purpose of this memorandum is to provide a bi-weekly status update regarding the U.S. Nuclear Regulatory Commission staff's progress in addressing the Tier 1 and Tier 2 Near-Term Task Force recommendations. Enclosure 1 provides information regarding the staff's recent significant accomplishments and expected activities prior to the next update with respect to addressing the recommendations. Enclosure 2 provides a table with additional details on upcoming milestones for each of the recommendations. Enclosure 3 provides information regarding ongoing requests for relaxation from, or rescission of, Fukushima Orders (EA-12-049, EA-12-051, and EA-13-109) or relief from the March 12, 2012, 50.54(f) letter information requests.

Enclosures:
As stated

cc: SECY
OGC
OCA
OPA
CFO

CONTACT: Michael I. Dudek, OEDO
(301) 415-6500

DISTRIBUTION:

See next page

ADAMS Accession No.: ML15xxxxxx *via email

OFFICE	NRR/JLD	NRR/JLD/JPSB:BC	OEDO/TCCM	DEDR
NAME	RBernardo*	GBowman*	MDudek	MJohnson
DATE	2/12/2015	2/12/2015		

OFFICIAL RECORD COPY

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

Memo to Commission from Michael R. Johnson dated

SUBJECT: PERIODIC COMMISSION UPDATE ON THE STATUS OF TIER 1
AND TIER 2 NEAR-TERM TASK FORCE RECOMMENDATIONS

DISTRIBUTION:

Commissioner Ostendorff
Commissioner Svinicki
Commissioner Baran
J. Zorn, OCM/SGB
S. Baggett, OCM/SGB
N. Gilles, OCM/SGB
K. Blake, OCM/SGB
P. Bubar, OCM/KLS
P. Castleman, OCM/KLS
J. Lepre, OCM/KLS
E. Brenner, OCM/WCO
A. Cubbage, OCM/WCO
L. Herr, OCM/WCO
S. Bozin, OCM/WCO
A. Powell, OCM/JMB
R. Taylor, OCM/JMB
S. Schumann, OCM/JMB
M. Satorius, EDO
M. Johnson, DEDR
M. Weber, DEDMRT
D. Ash, DEDCM
C. Santos, OEDO
M. Dudek, OEDO
B. Dean, NRR
J. Uhle, NRR
J. Davis, NRR
L. Gibson, NRR
J. Wiggins, NSIR
B. Sheron, RES
G. Tracy, NRO
C. Haney, NMSS
B. Holian, NRR
D. Dorman, Region I
V. McCree, Region II
C. Pederson, Region III
M. Dapas, Region IV
OCA
OPA
OIP
EDO R/F

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION~~

Significant Recent Accomplishments Regarding Tier 1 and Tier 2 Activities

- (1) On February 5, 2015, the U.S. Nuclear Regulatory Commission (NRC) staff issued a letter (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14358A040) endorsing a white paper submitted by the Nuclear Energy Institute (NEI) on October 30, 2014, entitled "HCVS [Hardened Containment Venting System]-WP-02, Sequences for HCVS Design and Method for Determining Radiological Dose from HCVS Piping, Revision 0, October 23, 2014" (ADAMS Accession No. ML14349A369). The purpose of the white paper is to further develop and clarify the guidance provided in NEI 13-02 (ADAMS Accession No. ML13316A853) related to industry's ability to meet the requirements of Order EA-13-109, "Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Performing under Severe Accident Conditions" (ADAMS Accession No. ML13130A067). The staff interacted with the industry and external stakeholders during development of this white paper.
- (2) On February 10, 2015, the NRC staff issued an audit plan (ADAMS Accession No. ML14356A003) to support its review of the Expedited Seismic Evaluation Process (ESEP) for all plants that screen in to conduct a risk evaluation. This audit activity will promote efficient use of NRC resources and streamline obtaining information needed to complete the ESEP reviews.
- (3) On February 11, 2014, the NRC staff held a public meeting with NEI to discuss the status of plans associated with the review of central and eastern United States (CEUS) re-evaluated seismic hazard submittals, the ESEP submittals and reviews, preparation of Western United States (WUS) submittals, and high frequency and spent fuel pool evaluations review schedules. NEI presented the proposed approaches for the high frequency confirmation (ADAMS Accession No. ML15042A036) and spent fuel pool evaluations (ADAMS Accession No. ML15042A039). NRC staff presented slides which documented the current status of CEUS reevaluated hazards and ESEP reviews (ADAMS Accession No. ML15042A037). NRC staff remains on schedule to issue the first set of seismic hazard staff assessments for CEUS sites in May 2015.
- (4) On February 11, 2015, the NRC staff issued the first eight interim staff evaluations (ISEs) for the overall implementation plans for Phase 1 (wetwell vent) of Order EA-13-109, "Order to Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions" (ADAMS Accession No. ML13143A334). ISEs were issued for the following nuclear power plants:
 - Browns Ferry Nuclear Power Plant, Units 1, 2 and 3, ADAMS Accession No. ML14356A362
 - Cooper Nuclear Station, ADAMS Accession No. ML15006A234
 - Dresden Nuclear Power Station, Units 2 and 3, ADAMS Accession No. ML15007A491
 - Duane Arnold Energy Center, ADAMS Accession No. ML15006A319
 - Hope Creek Generating Station, ADAMS Accession No. ML14332A154
 - James A. FitzPatrick Nuclear Power Plant, ADAMS Accession No. ML15007A090
 - Nine Mile Point Nuclear Station, Unit 2, ADAMS Accession No. ML15028A149
 - Peach Bottom Atomic Power Station, Units 2 and 3, ADAMS Accession No. ML15026A469

Enclosure 1

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

- 2 -

(14)(4) On February 13, 2015, the NRC staff issued an acknowledgment letter (ADAMS Accession No. ML15023A259) to approve a schedule relief request for Bellefonte Nuclear Plant (Bellefonte), Units 1 and 2. By letter dated October 21, 2014, (ADAMS Accession No. ML14295A290) Tennessee Valley Authority (TVA) (the licensee for Bellefonte), notified the NRC staff of a schedule change to defer the completion of Near-Term Task Force (NTTF) Recommendations 2.1, 2.3, and 9.3, Order EA-12-049, and Order EA-12-051 until TVA submits a schedule letter to reactivate construction at the Bellefonte Units. The units are in a "deferred plant" status with no established timeframe for notifying the NRC of plans to reactivate construction.

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

- 3 -

Activities Expected to Occur by February 27, 2015

- (1) By February 20, 2015, the NRC staff expects to issue the draft interim staff guidance (ISG) for compliance with Phase 2 of Order EA-13-109 for public comment. Phase 2 of this order requires installation of a reliable, severe accident capable hardened drywell vent or the development of a strategy that makes it unlikely that a licensee would need to vent from the containment drywell during severe accident conditions. Comments from the public will be considered in the development of the final ISG, which is scheduled to be issued by April 30, 2015.
- (2) By February 27, 2015, the NRC staff expects to issue letters (ADAMS Accession Nos. ML14321A685 and ML14321A696) to Entergy Nuclear Operations, Inc. (the licensee for Vermont Yankee Nuclear Power Station) approving the rescission of Orders EA-12-049 and EA-12-051. On August 28, 2014, Entergy Nuclear Operations, Inc., submitted a request for Orders EA-12-049 and EA-12-051 for the Vermont Yankee Nuclear Power Station to be rescinded when they docket their 10 CFR 50.82(a)(1) certifications for permanent cessation of operations and removal of fuel from the reactor vessel (ADAMS Accession No. ML14246A205). On January 12, 2015, Entergy submitted their "Certification of Permanent Cessation of Power Operations and Permanent Removal of Fuel from the Reactor Vessel Vermont Yankee Nuclear Power Station" (ADAMS Accession No. ML15013A426).
- (3) By February 27, 2015, the NRC staff expects to issue a letter (ADAMS Accession No. ML15040A038) endorsing a white paper submitted by the NEI on October 22, 2014, entitled "HCVS-WP-03 – Hydrogen/Carbon Monoxide Control Measures, Revision 1, October 2014" (ADAMS Accession No. ML14302A066). The purpose of the white paper is to further develop and clarify the guidance provided in NEI 13-02 (ADAMS Accession No. ML14349A369) related to the industry's ability to meet the requirements of Order EA-13-109, "Order Modifying Licenses With Regard To Reliable Hardened Containment Vents Capable of Performing under Severe Accident Conditions" (ADAMS Accession No. ML13130A067). The NRC staff interacted with the industry and external stakeholders during development of this white paper.

Commented [mkh1]: I think this will go out this week, but not guaranteed

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
<i>Tier 1</i>				
NTTF 2.1	Seismic Hazard Reevaluation Request for Information (RFI)	RFI issued March 12, 2012 Central and Eastern U.S. (CEUS) licensees with reevaluated seismic hazards greater than current design basis submitted results of their Expedited Approach by December 31, 2014	Licensees for Western U.S. facilities to submit site seismic hazard reevaluations by March 12, 2015	NRC to issue seismic hazard staff assessments for CEUS licensees by September 30, 2015
NTTF 2.1	Flooding Hazard Reevaluation RFI	RFI issued March 12, 2012 Category 2 facility licensees submitted reevaluated flooding hazard assessments, or schedule extension requests, by March 12, 2014	Staff to complete review of reevaluated flooding hazards submitted by Category 1 facility licensees and issue safety assessments (SAs)	Category 3 facility licensees to submit reevaluated flooding hazard assessments by March 12, 2015
NTTF 2.3	Seismic Hazard Walkdown RFI	RFI issued March 12, 2012 Staff completed review of seismic walkdown reports and issued SAs by June 13, 2014		

Enclosure 2

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

- 2 -

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 2.3	Flooding Hazard Walkdown RFI	RFI issued March 12, 2012 Staff completed review of flooding walkdown reports and issued SAs by July 18, 2014		
NTTF 4.1	Mitigation of Beyond-Design-Basis Events Rulemaking (formerly Station Blackout Mitigating Strategies Rulemaking)	Staff published regulatory basis in <i>Federal Register</i> on July 23, 2013	Staff to complete development of proposed rule by April 30, 2015	The NRC to issue final rule by December 2016
NTTF 4.2	Mitigating Strategies Order (EA-12-049)	Order issued March 12, 2012 The NRC issued interim staff evaluations (ISEs) on all integrated plans by February 27, 2014	The NRC to issue safety evaluations between mid-2014 and spring 2017, based on the outage when each site is in full compliance with the requirements of the order	The NRC to conduct post-compliance inspections
NTTF 5.1	Severe Accident Capable Reliable Hardened Vents Order (EA-13-109)	Order issued June 6, 2013 The NRC received integrated plans (and one extension request) in response to Order EA-13-109, Phase 1, by June 30, 2014	The NRC to issue ISEs regarding licensee integrated plans for Phase 1 by June 30, 2015	The NRC to issue interim staff guidance to support licensee compliance for Phase 2 by April 30, 2015

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

- 3 -

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 7.1	Enhanced Spent Fuel Pool Instrumentation Order (EA-12-051)	Order issued March 12, 2012 The NRC issued ISEs on integrated plans for all operating reactors by December 12, 2013	The NRC to issue safety evaluations between mid-2014 and spring 2017, based on the outage when each site is in full compliance with the requirements of Order EA-12-049	The NRC to conduct post-compliance inspections
NTTF 8	On-Site Emergency Response Capabilities Rulemaking	Final regulatory basis published in <i>Federal Register</i> by October 25, 2013 Per Commission Staff Requirements Memoranda (SRM) dated July 9, 2014, staff action on Near-Term Task Force (NTTF) Recommendation 8 has been consolidated with the NTTF Recommendation 4 Rulemaking		
NTTF 9.3	Emergency Preparedness (EP) Communications Assessment RFI	RFI issued March 12, 2012 Staff review of licensee 50.54(f) letter responses is complete	Follow-up inspections to be conducted along with those associated with NTTF 4.2, NTTF 7.1, and NTTF 9.3 – Staffing	

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

- 4 -

Source	Regulatory Action	Completed	Next Milestone	Future Milestones
NTTF 9.3	EP: Staff assessment RFI	RFI issued March 12, 2012 Phase 1 staffing assessment evaluations issued for all multiunit sites by April 28, 2014	Licensee Phase 2 staffing assessments (which include consideration of staffing needed to implement the Mitigation Strategies Order) due 4 months prior to 2 nd refueling outage after March 2013	
NTTF 9.4	EP: Emergency Response Data System Modernization Initiative Voluntary Initiative	Completed - June 2012		
SECY-12-0025, Enc. 2	Containment Protection and Release Reduction (CPRR) Rulemaking (formerly Filtration Strategies)	SECY paper addressing staff recommendation with regard to filtered containment vents sent to the Commission on November 28, 2012, Commission SRM issued on March 19, 2013	CPRR SECY paper providing the current status and path forward – spring 2015	Staff to develop regulatory basis by September 2015; proposed rule by September 2016; final rule by December 2017

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

- 5 -

Source	Regulatory Action	Completed	Next Milestone	Future Milestone
<i>Tier 2</i>				
NTTF 7.2-7.5	Rulemaking - Require licensees to provide reliable spent fuel pool makeup capabilities	Per Commission SRM dated March 4, 2013, staff action on NTTF 7.2-7.5 has been consolidated with the NTTF 4 Rulemaking		
NTTF 9.3 Tier 2 (partial)	Order - Requiring a revision to the emergency plan to address multiunit dose assessments, periodic training and exercises for multiunit, prolonged station blackout scenarios, drills on identification and acquisition of offsite resources, and ensuring sufficient EP resources for multiunit and prolonged station blackout scenarios	By SRM dated April 30, 2013, the Commission approved the direction requested in COMSECY-13-0010 On April 2, 2014, the staff completed the issuance of responses regarding licensee multiunit dose assessment capabilities to all licensees		
SECY-12-0025	RFI - Reevaluate other natural external hazards against current requirements and guidance and update the design basis and take appropriate regulatory action to resolve issues associated with updated site-specific hazards		Initiate as resources are available	

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

~~—OFFICIAL USE ONLY—SENSITIVE INTERNAL INFORMATION—~~

- 2 -

~~—OFFICIAL USE ONLY—SENSITIVE INTERNAL INFORMATION—~~

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

**ONGOING REQUESTS FOR RELAXATION FROM, OR RESCISSION OF,
FUKUSHIMA ORDERS (EA-12-049, EA-12-051, EA-13-109) OR
RELIEF FROM THE MARCH 12, 2012, 50.54(f) LETTER INFORMATION REQUESTS**

Several licensees have communicated to the U.S. Nuclear Regulatory Commission (NRC) staff, formally and informally, a request to relax the requirements of Orders EA-12-049, EA-12-051, or EA-13-109 regarding mitigation strategies for beyond-design-basis events, additional spent fuel pool instrumentation, and hardened vents (Near-Term Task Force (NTTF) Recommendations 4.2, 7.1, 5.1). The reasons for the relaxation requests are due to either decommissioning, the need for an additional refueling outage to complete modifications, or to align with the requirements and schedule for Order EA-13-109, regarding severe accident capable vents for boiling-water reactors with Mark I and Mark II containments (NTTF Recommendation 5.1). Certain requests have already been approved. Below are the reviews that are ongoing or were completed during the reporting period for this memorandum.

Order EA-12-049, Mitigation Strategies

(b)(5)
Deliberative

On August 1, 2014, Union Electric Company (Ameren Missouri) submitted a relaxation request for the Callaway Nuclear Plant, Unit 1 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14217A236). Specifically, Ameren Missouri requested permission to design and construct a new hardened condensate storage tank and diverse and flexible coping strategies storage building in accordance with Regulatory Guide 1.76, Revision 1, rather than Regulatory Guide 1.76, Revision 0. The NRC staff is currently evaluating this request.

(b)(5)

Deliberative

- On August 28, 2014, Entergy Nuclear Operations, Inc., submitted with their third 6-month update, a request for Order EA-12-049 for the Vermont Yankee Nuclear Power Station to be rescinded when they docket their 10 CFR 50.82(a)(1) certifications for permanent cessation of operations and removal of fuel from the reactor vessel (ADAMS Accession No. ML14246A205). On January 12, 2015, Entergy submitted their "Certification of Permanent Cessation of Power Operations and Permanent Removal of Fuel from the Reactor Vessel Vermont Yankee Nuclear Power Station" (ADAMS Accession No. ML15013A426). By February 27, 2015, the NRC staff expects to issue a letter (ADAMS Accession No. ML14321A685) to Entergy Nuclear Operations, Inc., approving the rescission of Order EA-12-049 for Vermont Yankee Nuclear Power Station.
- On October 21, 2014, Tennessee Valley Authority (TVA) (the licensee for the Bellefonte Nuclear Plant (Bellefonte), Units 1 and 2), submitted a letter that requested alternative due dates and milestones for Fukushima-related actions (ADAMS Accession No. ML14295A290). The units are in a "deferred plant" status with no established timeframe for notifying the NRC of plans to reactivate construction. The letter also reiterated previous NRC staff approval of alternate schedules, such as the NTTF recommendation schedule for their Overall Integrated Plan by the dates that TVA will submit their letters to reactivate construction. By letter dated February 13, 2015 (ADAMS Accession No. ML15023A259), the NRC approved Bellefonte's schedule relief request.

Commented [mkh2]: I think this will go out this week, but not guaranteed

Enclosure 3

~~OFFICIAL USE ONLY SENSITIVE INTERNAL INFORMATION~~

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

- 2 -

- On January 28, 2015, Entergy Nuclear Operations, Inc. submitted an extension request for Indian Point Nuclear Generating Unit No. 3 (ADAMS Accession No. ML15034A506). Entergy is requesting one additional refueling outage from (1) prior to the restart from their refueling outage in the spring of 2015, to (2) prior to the restart from the refueling outage in the spring of 2017. The additional time would allow Entergy to develop and incorporate an analytical basis for reactor coolant pump seal leakage values which would be acceptable to the NRC. Entergy stated that it plans to install orifices in the seal leakoff lines in the spring of 2015, but if that modification cannot be completed it will rely on the relaxation. The NRC staff is currently evaluating this request.

Order EA-12-051, Spent Fuel Pool Instrumentation

- On August 28, 2014, Entergy Nuclear Operations, Inc., submitted a request for Order EA-12-051 for the Vermont Yankee Nuclear Station to be rescinded when they docket their 10 CFR 50.82(a)(1) certifications for permanent cessation of operations and removal of fuel from the reactor vessel (ADAMS Accession No. ML14246A187). On January 12, 2015, Entergy submitted their "Certification of Permanent Cessation of Power Operations and Permanent Removal of Fuel from the Reactor Vessel Vermont Yankee Nuclear Power Station" (ADAMS Accession No. ML15013A426). By February 27, 2015, the NRC staff expects to issue a letter (ADAMS Accession No. ML14321A696) to Entergy Nuclear Operations, Inc., approving the rescission of Order EA-12-051 for Vermont Yankee Nuclear Power Station.
- On October 21, 2014, TVA (the licensee for Bellefonte) submitted a letter that requested alternative due dates and milestones for Fukushima-related actions (ADAMS Accession No. ML14295A290). The units are in a "deferred plant" status with no established timeframe for notifying the NRC of plans to reactivate construction. The letter also reiterated previous NRC approval of alternate schedules, such as for NTF Recommendation 9.3, "Emergency Preparedness Activities." For Order EA-12-051, TVA proposed to submit a schedule for their Overall Integrated Plan by the dates that TVA will submit the letters to reactivate construction. By letter dated February 13, 2015 (ADAMS Accession No. ML15023A259), the NRC approved Bellefonte's schedule relief request.

Order EA-13-109, Hardened Vents

- On June 2, 2014, Exelon Generation Company, LLC, submitted a request for extension to comply with NRC Order EA-13-109 for the Oyster Creek Nuclear Station (Oyster Creek). Based on the timelines specified in Order EA-13-109, Exelon is currently required to implement Phase 1 (severe accident capable wetwell venting system) at Oyster Creek by startup after the fall 2016 refueling outage; and Phase 2 (severe accident capable drywall venting system) by startup after the fall 2018 refueling outage. Exelon requested an extension for both phases of the order until January 31, 2020. Oyster Creek is expected to be permanently shutdown at that time. The NRC staff is currently evaluating Exelon's request.

10 CFR 50.54(f) Letter on Seismic, Flooding, and Emergency Preparedness Issues

~~—OFFICIAL USE ONLY— SENSITIVE INTERNAL INFORMATION—~~

~~OFFICIAL USE ONLY – SENSITIVE INTERNAL INFORMATION~~

- 3 -

- On October 21, 2014, TVA (the licensee for Bellefonte) submitted a letter that requested certain alternative due dates or milestones for Fukushima-related actions (ADAMS Accession No. ML14295A290). The units are in a "deferred plant" status with no established timeframe for notifying the NRC of plans to reactivate construction. The letter also reiterated previous NRC approval of alternate schedules, such as for NTTF Recommendation 9.3, "Emergency Preparedness Activities."

For NTTF Recommendation 2.1—Seismic, Bellefonte has screened-in as a prioritization Group 3 site with interim actions due by December 31, 2014, and the seismic margin assessment or seismic risk evaluation due December 31, 2020. The licensee has proposed to provide a revised schedule by the dates that TVA will submit their letters to reactivate construction.

For NTTF Recommendation 2.1—Flooding, Bellefonte is a Category 3 site with a due date of March 12, 2015, for the flood hazard reevaluation report (FHRR), and (if required) a due date of March 2017 for the Integrated Assessment. TVA has proposed to provide a revised schedule for the FHRR by the dates that TVA will submit their letters to reactivate construction. Furthermore, TVA has proposed that if the Integrated Assessment needs to be performed, that it be completed prior to fuel load. By letter dated February 13, 2015 (ADAMS Accession No. ML15023A259), the NRC approved Bellefonte's schedule relief request.

- On January 5, 2015, Exelon Generation Company, LLC, submitted a request (ADAMS Accession No. ML15006A239) to extend the due date for the Peach Bottom Atomic Power Station, Units 2 and 3 (Peach Bottom), FHRR. Based on the NRC staff's prioritization letter issued March 1, 2013, Peach Bottom was assigned a due date of March 12, 2014. By letter dated July 17, 2014, the staff extended the due date for the Peach Bottom FHRR to March 12, 2015, based on a request dated March 12, 2014. The January 5, 2015, request was for the Peach Bottom FHRR due date to be extended to August 12, 2015. Exelon stated that the requested extension was to develop a detailed hydrologic model of the Susquehanna River watershed for the flooding hazard for the Peach Bottom site, including a site-specific hydrometeorological study for the Susquehanna River watershed. Exelon stated that additional time would be required to complete the model. The NRC staff is evaluating this request.

~~OFFICIAL USE ONLY – SENSITIVE INTERNAL INFORMATION~~

Input to Exelon briefing package for Exelon drop-in with NRC Commissioners on October 2, 2014
By John Boska
Updated 9/15/14, 7:30 am

Recommend Placement in the Current Issues section of the briefing package.

(b)(5) NRC Orders Related to Fukushima Actions

Deliberative
Privilege

The 13 Exelon sites (with 22 reactors total) are making progress responding to the three NRC orders (Mitigation Strategies (MS), Spent Fuel Pool Instrumentation (SFPI), and Hardened Vents (HV)).

Formatted: Don't adjust space between Latin and Asian text, Don't adjust space between Asian text and numbers

(b)(5)

Deliberative

Privilege

Byron Unit 2 has an order compliance date in Fall 2014, the other in 2015 and later.

(b)(5)

Deliberative

Privilege

(b)(5)

Deliberative

Privilege

Formatted: Font color: Black

(b)(5) Deliberative Privilege

(b)(5) Deliberative Privilege

Some Exelon sites require unusual strategies for the MS order due to potential high flood levels, generally caused by river flooding due to precipitation in the river drainage basins. For example, Dresden Nuclear Power Station plans to use a diesel-driven pump on a floating platform which rises with the flood levels as part of their strategy. NRC staff is currently evaluating these strategies.

The following Exelon sites have received schedule relaxations for the MS order, which allowed them to install hardened vents in accordance with the schedule for the HV order and then credit those vents to achieve final compliance with the MS order:
Limerick, Peach Bottom, LaSalle, and Quad Cities.

The NRC staff is also considering an Exelon request to relax the schedule for the HV order for Oyster Creek, which if granted would mean that HV order implementation would not be required due to the planned shutdown in 2019.

NRC Hazard Reviews Related to Fukushima Actions

In response to the NRC's 10 CFR 50.54(f) letter dated March 12, 2012, requesting information on seismic and flooding hazards, among others. Exelon continues to provide the requested information, and has completed the plant walkdowns for seismic and flooding vulnerabilities at all sites.

Flooding Reviews:

If the reviewed flood hazard is not bounded by the current design basis flood, licensees are requested to submit Flood Hazard Reevaluation Reports (FHRRs) and if a unbounded hazard is identified, then submit an Integrated Assessment (IA) which assesses the plant response to the hazard. The IA, if necessary, is due two years after the submittal of the FHRR.

The following Exelon sites have submitted an FHRR which indicates an IA is not necessary:
Byron, Clinton, and Three Mile Island.

The following Exelon sites have submitted an FHRR which indicates an IA is necessary:
Calvert Cliffs, Nine Mile Point, Dresden, LaSalle, and Quad Cities.

The following Exelon site has submitted an FHRR and IA:
Braidwood.

The following Exelon sites are preparing to submit an FHRR:
Ginna, Limerick, Oyster Creek, and Peach Bottom.

Seismic Reviews:

Licensees were requested to submit new seismic hazard curves and Ground Motion Response Spectrum (GMRS). Exelon submitted this data for all its sites by March 31, 2014. If the GMRS exceeds the current design basis Safe Shutdown Earthquake (SSE) by a significant margin, the licensee is requested to perform a Seismic Probabilistic Risk Assessment (SPRA). If the exceedance is by a small margin, the licensee is requested to perform a Seismic Margins Analysis (SMA).

The following Exelon sites are acceptable and do not need a seismic risk evaluation: Braidwood, Byron, Clinton, Ginna, Limerick, Nine Mile Point, and Quad Cities.

The following Exelon sites meet the criteria to perform an SPRA: Calvert Cliffs, Dresden, LaSalle, Three Mile Island, and Peach Bottom.

The NRC staff is still evaluating the following Exelon site: Oyster Creek.

The Expedited Seismic Evaluation Process (ESEP) is a near-term licensee evaluation to be completed by December 31, 2014, for Central and Eastern United States plants whose re-evaluated hazard exceeds the current design basis for the SSE hazard level. The evaluation looks at the systems and components that can be used to safely shut down a plant under the conditions of a station blackout (i.e., no alternating current power is available) and loss of ultimate heat sink. The ESEP will either confirm that a plant has sufficient margin to continue with a longer-term evaluation without any modifications, or confirm the need to enhance the seismic capacity to assure they can withstand the re-evaluated hazard. The following Exelon sites are performing an ESEP: Calvert Cliffs, Dresden, LaSalle, Three Mile Island, and Peach Bottom.

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 11/10/15**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFP

- Audits – 51/63 Complete; ~~no audits this week~~
 - In progress: Davis Besse and Nine Mile Point 2
- Seismic qualification of FLEX buildings
- RCP Seals
 - Westinghouse standard seal
 - Flowserve WP endorsement
- Relaxation requests
 - TMI – Turbine building structural analysis (04/30/2016)
 - To ET by 11/16/15
 - Licensee needs by 11/19/15
- Internal workshop on crediting FLEX in RIDM (completed 11/13/2015)

Formatted

Formatted: Not Highlight

Vents

- Oyster Creek relaxation request – ~~In concurrence; to with~~ ET this week
 - Comm. TA brief (completed 11/09/15)
- Phase 2 OIPs due by 12/31/15

Flooding

- FHRR
 - Hazard Acceptance Letters – 20/44 issued
 - Probabilistic storm surge review may challenge date for a few sites
 - Staff Assessments – 13/61 issued
 - Staff Assessment Supplements – 7/11 issued
- NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)
 - Endorse through ISG Rev 1 – FRN issued 11/10/15
 - FRN seeks public comments on need for spent fuel pool spray capability
- Revised Phase 1 Guidance
 - NEI will resubmit focused evaluation guidance for comments (TBD)
- Drop-in with Duke on Oconee (11/13/15)

Seismic

- CEUS
 - 37/61 Staff Assessments of GMRS issued
 - 28/34 ESEP Assessment Letters issued (ahead of schedule)
- WUS
 - Diablo Canyon RAI draft response received
- NEI 12-06 Appendix H
 - ISG Rev 1 addresses Paths 1-4 – issued for public comments
 - Drop in on Path 5 (11/10/15)
 - Public meeting (11/17/15)

Rulemaking

- MBDBE – Final SRM issued 08/27/15
 - NSIAC voted on SAMGs; staff received industry commitment plan (10/26/15)
 - SECY signed out revised rule package (11/02/15)
 - CA Note for MBDBE communications (11/06/15)
 - Publish proposed rule package in Federal Register (target 11/13/15)
- CPRR – Final SRM issued 08/19/15
 - RES developing NUREG to document staff assessment (1Q 2016)

Other Items

- Staff assessment of IAEA report and communication mechanism
- Tier 2&3
 - Notation vote paper provided to Commission (10/29/15)
 - ACRS Full Committee (11/05/15) – letter supportive of recommendations
 - CA briefing (11/09/15)
 - Commission meeting (11/17/15)
- Regional "counterpart" meeting; coincident with industry workshop (11/03-04/15)
- NAS Report – draft sections of report in coming weeks

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 11/3/15**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFP

- Audits – 51/63 Complete; no audits this week
- RCP Seals
 - Standard seal – Using site-specific information; 5 of 12 plants “closed”
 - Working resolution for remainder of plants (N. Anna most immediate)
 - Audit of AREVA leakage test data completed (10/27-28/2015)
- Relaxation requests
 - Salem – FLEX DG & and V&V (90 days past startup from outage) – mid-Nov) – with ET-(licensee needs by 11/14)
 - TMI – Turbine building structural analysis (04/30/2016) – to ET by 11/16 (licensee needs by 11/20)
- SBO vs FLEX – coordinating w/DRA
- Internal workshop on crediting FLEX in RIDM (11/13/2015)

Formatted: Not Highlight

Vents

- Oyster Creek relaxation request – In concurrence; to ET this week/plans for Commission outreach
- Phase 2 OIPs due by 12/31/15

Flooding

- FHRR
 - Hazard Acceptance Letters – 19/44 issued
 - Staff Assessments – 13/61 issued
 - Staff Assessment Supplements – 3/11 issued
- NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)
 - Endorse through ISG Rev 1 – publicly available
 - FRN seeks public comments on need for spent fuel pool spray capability
 - Endorse through DG-1301 – RES is finalizing (NLT 11/06/15)
- Revised Phase 1 Guidance
 - NEI will resubmit focused evaluation guidance for comments
 - Drop-in on integrated assessment guidance (11/05/15)
 - Public meeting 11/18/15
- Suntiva Next Steps
- ANO meeting with USACE completed and results communicated to state/region

Seismic

- CEUS
 - 36/61 Staff Assessments of GMRS issued (ahead of schedule)
 - 28/34 ESEP Assessment Letters issued (ahead of schedule)
- WUS
 - Draft Diablo Canyon RAI response received. Official response 11/??/15
- NEI 12-06 Appendix H
 - NRC issues DG-1301 to support MBDBE rule – 4 paths (NLT 11/06/15)
 - RG follows rulemaking schedule; Issue ISG by 03/31/16

- Supports assessment of MS for plants in paths 1, 2, & 3 by 12/31/16
- Assessment of MS for plants in path 4 (with no SPRA) by 06/30/17
- Assessment of MS for plants with SPRA by SPRA due date
- Drop in on Path 5 (11/10/15)
- **Public meeting** (11/17/15)

Rulemaking

- MBDBE – Final SRM issued 08/27/15
 - Revised rule package to Commission (10/16/15)
 - Public revised rule package in Federal Register (11/06/15)
 - **NSIAC voted on SAMGs; staff received draft commitment language**
- CPRR – Final SRM issued 08/19/15
 - Developing NUREG to document staff assessment
 - ACRS letter to Commission 09/22/15 – staff responded (10/22/15)

Other Items

- **Plans for distribution of IAEA crosswalk**
- **Tier 2&3**
 - Notation vote paper to Commission (10/30/15)
 - ACRS Full Committee briefing (11/05/15)
 - CA Briefing (11/09/15)
 - Commission Meeting (11/17/15)
- **Regional "counterpart" meeting; coincident with industry workshop** (11/03-04/15)
 - ~~Opening remarks for Uhle (11/04/2015)~~
- EDO briefing on post-Fukushima activities (11/09/15)
- **Rebaselining**

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 10/20/15**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFPI

- Audits – 5049/63 Complete;
 - Recently completed – Grand Gulf
 - 14 in progress – Hatch/Grand Gulf
- RCP Seals
 - Standard seal – Using site-specific information; 5 of 12 plants “closed”
 - Working resolution for remainder of plants (N. Anna most immediate)
- Relaxation requests
 - Prairie Island – FLEX building (60 days past startup from outage – mid Nov)
 - Salem – FLEX DG and V&V (90 days past startup from outage – mid Nov)
 - TMI – Turbine building structural analysis (April 2016)

Vents

- Endorsed Phase 2 OIP template and FAQs (10/8/15)
- Oyster Creek relaxation request – In concurrence; with OGC to ET this week

Flooding

- FHRR
 - Hazard Acceptance Letters – 19/44 issued
 - Staff Assessments – 12/61 issued
- NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)
 - Endorse through ISG Rev 1 – Currently in concurrence (NLT 10/30/15)
 - Endorse through DG-1301 – RES is finalizing (NLT 11/06/15)
- Drop in with NEI on revising IA guidance (10/22/15)
- ACRS meeting with USACE (10/21/15)

Seismic

- CEUS
 - 36/61 Staff Assessments of GMRS issued (ahead of schedule)
 - 24/34 ESEP Assessment Letters issued (ahead of schedule)
- WUS
 - Diablo Canyon to respond to RAI on site response by 11/04/15
- NEI 12-06 Appendix H
 - NRC issue DG 1301 to support MBDBE rule – 4 paths (NLT 11/06/15)
 - NEI provide comment on how to use information from SPRA
 - RG follows rulemaking schedule; Issue ISG by 03/31/16
 - Supports assessment of MS for plants in paths 1, 2, & 3 by 12/31/16
 - Assessment of MS for plants in path 4 (with no SPRA) by 06/30/17
 - Assessment of MS for plants with SPRA by SPRA due date
 - Public meeting (10/21/15) – Discuss resolution of NRC comments
- SPRA Re-screening – with NRR FO

Formatted

Rulemaking

- MBDBE – Final SRM issued 08/27/15
 - Revised rule package to Commission (10/16/15)
 - Public revised rule package in Federal Register (11/06/15)
 - NSIAC voted on treatment of SAMGs, expecting letter from NEI
- CPRR – Final SRM issued 08/19/15
 - Developing NUREG to document staff assessment
 - ACRS letter to Commission 09/22/15 – staff preparing response (10/22/15)

Other Items

- Tier 2/3
 - SECY to OEDO (10/23/15)
 - EDO briefing on Tier 2/3 (10/26/15, rescheduling)
 - Dry-Run for Commission meeting (10/29/15)
 - Notation Vote Paper to Commission (10/30/15)
 - ACRS Full Committee briefing (11/05/15)
 - CA Briefing (11/09/15)
 - Commission Meeting (11/17/15)
- Meeting with Swiss regulators (10/20/15)
- Regional "counterpart" meeting; coincident with industry workshop (11/03-04/15)
- EDO briefing on post Fukushima activities (11/09/15)

**JAPAN LESSONS LEARNED DIVISION
STATUS UPDATE – 10/13/15**

PURPOSE

Update NRR ET and DEDR on status of JLD activities

EXPECTED OUTCOMES

Provide current status and address any questions

Mitigating Strategies & SFP

- Audits – 49/63 Complete
 - In progress – Grand Gulf (10/19-10/23)
- TMI – Submitting relaxation request for turbine building structural analysis
- RCP Seals
 - Standard seal – Using site-specific information; 5 of 12 plants “closed”
 - SHIELD seal – Test successful (10/03/15)
- Relaxation requests
 - Prairie Island – FLEX building (60 days past startup from outage – mid Nov)

Vents

- Phase 2 OIP template and FAQs received 09/28/15
- Oyster Creek relaxation request – In concurrence

Flooding

- FHRR
 - Hazard Acceptance Letters – 19/44 issued
 - Staff Assessments – 12/61 issued
- NEI 12-06 Appendix G (Flooding) & Appendix E (Validation)
 - Alignment between NRC and industry – Rev 1A addressed staff exceptions
 - Endorse through ISG & DG-1301 to support rulemaking (NLT 10/30/15)
 - Supports assessment of MS by 12/31/16
- Workshop/meeting with RES on PFHA (10/14/15)

Seismic

- CEUS
 - 32/61 Staff Assessments of GMRS issued
 - 21/34 ESEP Assessment Letters issued
- WUS
 - Diablo Canyon to respond to RAI on site response by 11/04/15
- NEI 12-06 Appendix H
 - Staff comments provided to NEI (09/30/15)
 - Drop-in with NEI (10/07/15)
 - NRC issue draft Reg Guide to support MBDBE rule – 4 paths
 - NEI provide comment on how to use information from SPRA
 - RG follows rulemaking schedule; Issue ISG by 03/31/16
 - Supports assessment of MS for plants in paths 1, 2, & 3 by 12/31/16
 - Assessment of MS for plants in path 4 (with no SPRA) by 06/30/17
 - Assessment of MS for plants with SPRA by SPRA due date
- SPRA Re-screening
 - Target issuance of re-screening letter by 10/16/15

Rulemaking

- MBDBE – Final SRM issued 08/27/15
 - CA briefing on revised rule package (10/07/15)
 - Revised rule package to Commission (10/16/15)
 - Public revised rule package in Federal Register (11/06/15)
- CPRR – Final SRM issued 08/19/15
 - Developing NUREG to document staff assessment
 - ACRS letter to Commission 09/22/15 – Preparing response (Target 10/22/15)

Other Items

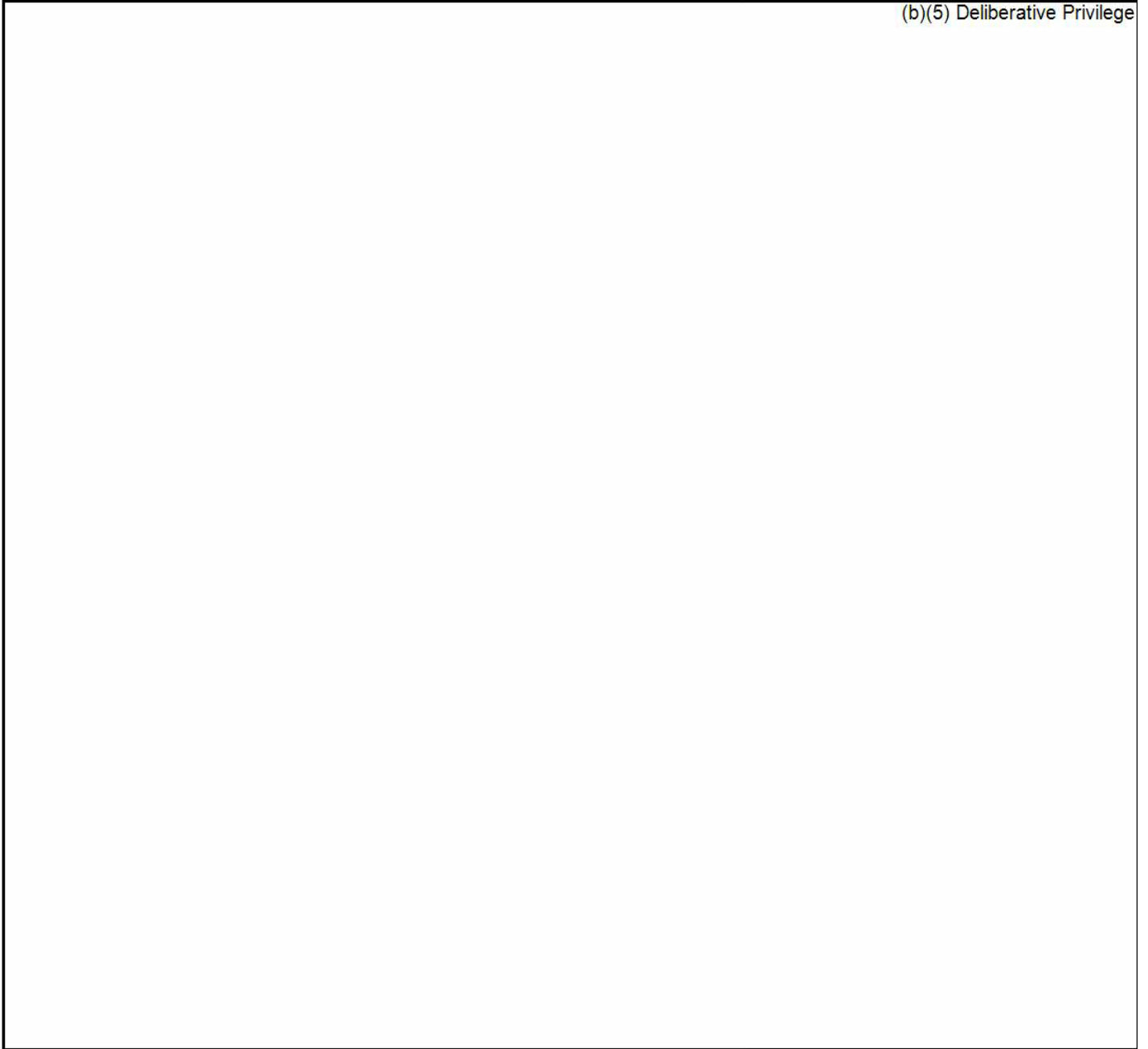
- Tier 2/3
 - ACRS
 - Sub-Committee briefing (10/06/15)
 - Public release of “white paper” (10/08/15)
 - Full Committee briefing (11/05/15)
 - EDO briefing on Tier 2/3 (10/22/15)
 - Notation Vote Paper to Commission (10/30/15)
 - Dry-Run for Commission meeting (11/05/15; working to reschedule)
 - CA briefing (TBD – targeting week of 11/09/15)
 - EDO briefing on other Fukushima activities (TBD – targeting week of 11/09/15)
 - Commission Meeting (11/17/15)
- US–Korea Joint Standing Committee on Nuclear Energy Cooperation (10/07/15)
- Meeting with Swiss regulators (10/20/15)
- Joint Steering Committee Meeting (10/20/15)
 - Brief overview of status & plans for assessing MS against re-evaluated hazards
 - Tier 2/3 plans
 - Review proposed slides during 10/13/15 ET/DEDR brief
- Regional “counterpart” meeting; coincident with industry workshop (11/03/15)

Update on Tier 1 Activities

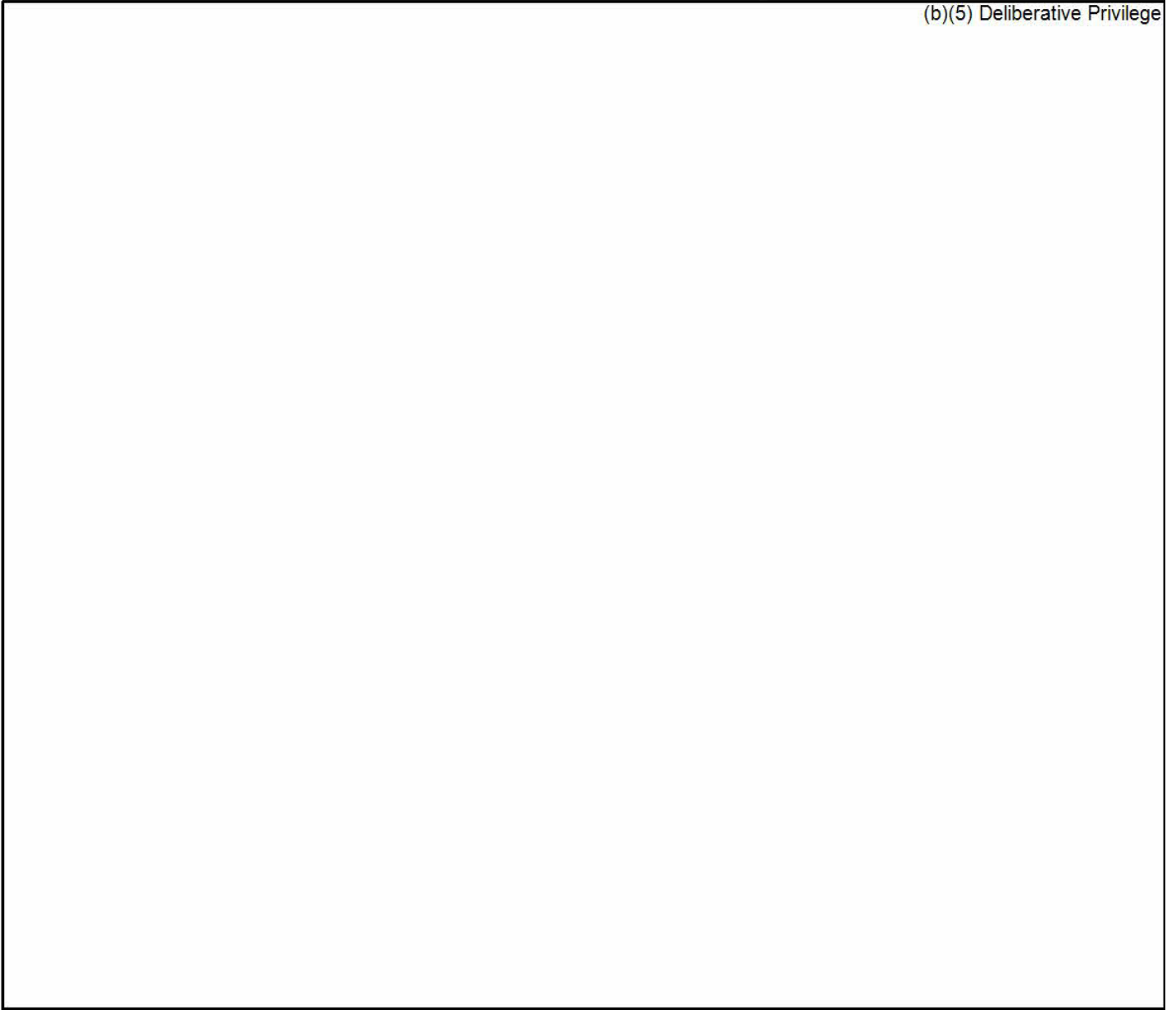
(b)(5) Deliberative Privilege

Enclosure 1

(b)(5) Deliberative Privilege



(b)(5) Deliberative Privilege



(b)(5) Deliberative Privilege

(b)(5) Deliberative Privilege

(b)(5) Deliberative Privilege

(b)(5) Deliberative Privilege

SUMMARY OF PLANT-SPECIFIC ACTIONS IN RESPONSE TO THE JAPAN NUCLEAR ACCIDENT: OYSTER CREEK NUCLEAR GENERATING STATION

NOTE: By letter dated January 7, 2011 (ML110070507), Exelon certified contingently to permanently cease operations at Oyster Creek no later than December 31, 2019 in accordance with 10 CFR 50.82. The notification is contingent upon issuance of a New Jersey Pollution Discharge Elimination System (NJPDES) permit. Since the letter dated January 7, 2011, New Jersey issued the NJPDES permit to Oyster Creek, but Exelon has never sent in a letter removing the contingent determination. This raises a legal question of has Oyster Creek met 10 CFR 50.82 or does Oyster Creek need to send a follow-up letter removing "contingent?" JLD/MSD is looking into this.

Mitigation Strategies (Order)

Oyster Creek is fully implementing the mitigations strategies order.

Implementation of the order will be completed for Oyster Creek prior to start-up from Fall 2016 refueling outage (RFO) (ML12300A448).

Spent Fuel Pool Instrumentation (Order)

Oyster Creek is fully implementing the reliable spent fuel pool instrumentation (SFPI) order.

Oyster Creek will begin SFPI installation in second quarter 2016 and complete SFPI installation and put into service in fourth quarter 2016 (ML13059A266).

Hardened Vents and Filtration (Order)

By letter dated December 13, 2013 (ML13351A413), Exelon plans to permanently shut down Oyster Creek and cease operation no later than December 31, 2019. Exelon stated they are currently evaluating whether compliance with the Phase 1 and Phase 2 requirements of this Order is necessary in the specific circumstances at Oyster Creek considering the existing plant safety features currently installed, additional potential containment vent enhancements being considered, and the additional FLEX strategies being implemented in accordance with Mitigation Strategies Order at Oyster Creek. Exelon stated they are currently evaluating the plant modifications that will be required to meet the Phase 1 and Phase 2 severe accident capable vent requirements specified in this Order. Exelon expects that their evaluation will identify the need for relief from this Order. If a need for relief is identified by Exelon, Exelon plans to submit a detailed request for relief from this Order and the detailed supporting justification by June 6, 2014.

Seismic Re-Evaluations (50.54(f))

Oyster Creek was "conditionally screened in" and placed in Category 2 by the NRC in a letter dated May 9, 2014 (ML14111A147).

Flooding Re-Evaluations (50.54(f))

Oyster Creek is in Category 3 and the Oyster Creek flooding re-evaluation is due March 12, 2015.

Emergency Preparedness (50.54(f))

Emergency Preparedness Communication

Oyster Creek's communications assessment submittal is complete (per letter dated February 22, 2013, ML13056A135) and the NRC staff determined that the assessment of communications is reasonable, as stated in theits leatter dated July 12, 2013 (ML13114A067). Exelon submitted a revision to its commitment regarding implementation of communications enhancements by letter dated October 14, 2014 (ML14287A659). This revision did not change the implementation dates (October 31, 2016) or affect the conclusion of the NRC staff's previously issued safety assessment.

Emergency Preparedness Staffing

Since Phase 1 is only for dual units, Oyster Creek was not required to respond. The Phase 2 response staffing assessment is due May 19, 2016 and Oyster Creek intends to meet that implementation date was submitted to the NRC by letter dated May 11, 2016 (ML16132A208) and is currently being reviewed by the NRC staff. The staff expects to complete its review and issue a response letter within approximately 4 months.

Walkdowns (50.54(f))

Flooding

NRC completed a flooding audit at Oyster Creek in the Summer of 2013 and documented it in a letter dated January 9, 2014 (ML13277A223).

Oyster Creek completed flooding walkdowns and submitted letters dated November 19, 2012 (ML12331A203), and March 19, 2013 (ML13078A330). The NRC staff is working on a staff assessment to the flooding walkdowns for Oyster Creek and expects to issue this public document in a couple of weeks.

Seismic

Oyster Creek completed seismic walkdowns and submitted letters dated November 19, 2012 (ML12359A007), and April 26, 2013 (ML13120A185). By letter dated April 23, 2014 (ML14084A110), NRC staff completed its staff assessment of the seismic walkdowns at Oyster Creek and in the letter acknowledged that Oyster Creek plans to submit a supplemental letter by March 31, 2015, addressing the remaining inaccessible items consistent with the regulatory commitment.

As stated in Order EA-13-109, "Issuance of Order to Modify Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions" (ML13143A334), Boiling-Water Reactors (BWRs) with Mark I and Mark II containments shall have a reliable, severe accident capable hardened containment venting system (HCVS). In Phase 1, licensees of BWRs with Mark I and Mark II containments shall design and install a venting system that provides venting capability from the wetwell during severe accident conditions. Severe accident conditions include the elevated temperatures, pressures, radiation levels, and combustible gas concentrations, such as hydrogen and carbon monoxide, associated with accidents involving extensive core damage, including accidents involving a breach of the reactor vessel by molten core debris.

The NRC staff requests additional information to assist in the review of the OCNCS extension request. Each of the requests below correspond to a requirement of Order EA-13-109 and/or an excerpt from the industry guidance document NEI 13-02, "Industry Guidance for Compliance with Order EA-13-109: BWR Mark I & II Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions" (ML13316A853), which was endorsed by Interim Staff Guidance Document, JLD-ISG-2013-02 (ML13304B836).

- 1.1.2 The HCVS shall be designed to minimize plant operators' exposure to occupational hazards, such as extreme heat stress, while operating the HCVS system. (NEI 13-02 4.2.5 and 4.2.6)

The OCNCS UFSAR Section 6.2.7.2.2, "Operation of the Hardened Vent System", states,

"To start the venting operation, an operator will be dispatched to align the hardened vent system by closing the Nitrogen line butterfly valve (V-23-357) and opening the vent line butterfly valve (V-23-358). Once these valves are aligned manually, the venting operation can be performed by opening either the Drywell isolation valves V-23-13 and 14 or the Torus isolation valves V-23-15 and 16 from the Control Room."

Has a calculation or evaluation been performed to determine or approximate the conditions to which the operators would be subjected in order to accomplish these actions? If not, will one be performed to inform the subject extension request?

- 1.1.3 The HCVS shall also be designed to account for radiological conditions that would impede personnel actions needed for event response. (NEI 13-02, 4.2.5)

Has a site-specific analysis in accordance with the guidance of NEI 13-02, Appendices F and G been performed to determine the predicted radiological conditions which would be applicable at OCNCS following a severe accident? If not, will one be performed to inform the subject extension request?

- 1.2.2 The HCVS shall discharge the effluent to a release point above main plant structures.
(NEI 13-02, 4.1.5.2.3)

NEI 13-02, 4.1.5.2.3 The release stack or structure exposed to outside should be designed or protected to withstand missiles that could be generated by the external events that screen in for the plant site using the guidance in NEI 12-06 as endorsed by JLD-ISG-12-01.

Per NEI 12-06 guidance, hurricanes and tornado hazards are applicable to Oyster Creek, and Section 3.5.1.4.1 of the OCNGS UFSAR lists potential missiles.

Provide a complete description of the differences, if any, between the requirements of the stated section and the actual, physical configuration and/or capabilities of the containment venting system which will be in operation during the requested period of extension.

Include a complete description of compensatory measures, if any, which will be utilized to achieve equivalent or similar capabilities as required by the order and described in the guidance.

- 1.2.4 The HCVS shall be designed to be manually operated during sustained operations from a control panel located in the main control room or a remote but readily accessible location.
(NEI 13-02, 4.2.2.1.4)

NEI 13-02, 4.2.2.1.4 The controls/control location design should preclude the need for operators to move temporary ladders or operate from atop scaffolding to access the HCVS valves or remote operating locations.

For the actions listed in the OCNGS UFSAR Section 6.2.7.2.2, "Operation of the Hardened Vent System" (quoted in 1.1.2 above), clarify whether any of the proposed operator actions require temporary ladders or operations atop scaffolding to accomplish the objectives.

- 1.2.6 The HCVS shall be capable of operating with dedicated and permanently installed equipment for at least 24 hours following the loss of normal power or loss of normal pneumatic supplies to air operated components during an extended loss of AC power.
(NEI 13-02, 4.2.2.1.1.1 and 4.2.6.1.2.2)

The subject extension request and the OCNGS UFSAR Section 6.2.7.2.2 state that in the event of a loss of instrument air, venting operations can be performed a maximum of 6 times utilizing the permanently installed accumulators.

Provide a site-specific justification which describes how the 6 cycles of motive force available in the accumulators is sufficient to support the OCNGS procedural actions to

cope with the first 24 hours of a postulated severe accident. Include a complete description of compensatory measures, if any, which will be utilized to achieve equivalent or similar capabilities as required by the order and described in the guidance during the requested period of extension.

- 1.2.8 The HCVS shall include means to monitor the status of the vent system (e.g. valve position indication) from the control panel required by 1.2.4. The monitoring system shall be designed for sustained operation during an extended loss of AC power. (NEI 13-02, 4.2.2)

Provide a complete description of the differences, if any, between the requirements of the stated section and the actual, physical configuration and/or capabilities of the containment venting system which will be in operation during the requested period of extension.

Include a complete description of compensatory measures, if any, which will be utilized to achieve equivalent or similar capabilities as required by the order and described in the guidance.

- 1.2.9 The HCVS shall include a means to monitor the effluent discharge for radioactivity that may be released from operation of the HCVS. The monitoring system shall provide indication from the control panel required by 1.2.4 and shall be designed for sustained operation during an extended loss of AC power. (NEI 13-02, 4.2.4.1.2)

Provide a complete description of the differences, if any, between the requirements of the stated section and the actual, physical configuration and/or capabilities of the containment venting system which will be in operation during the requested period of extension.

Include a complete description of compensatory measures, if any, which will be utilized to achieve equivalent or similar capabilities as required by the order and described in the guidance.

Also, the OCNCS UFSAR Section 6.2.7.3, "Design Evaluation of the Hardened Vent System", states,

"During venting operation coincident with the loss of offsite power, the flow to the stack is less than the design cut-off flow of 94,000 CFM of the RAGEMS [Radioactive Gaseous Effluent Monitoring System]. At this flow condition the RAGEMS will go to automatic default mode using the low range monitor. Since there is no fuel damage when venting on TW sequence is performed, the radiation level of the releases will be within the range of the low range monitor."

Given the severe accident conditions associated with the order (as opposed to the TW sequence referenced in the UFSAR), address this issue in the response.

- 1.2.10 The HCVS shall be designed to withstand and remain functional during severe accident conditions, including containment pressure, temperature, and radiation while venting steam, hydrogen, and other non-condensable gases and aerosols. The design is not required to exceed the current capability of the limiting containment components.

NEI 13-02, 2.4.4.1 The PCPL and 545°F, is recommended as the design pressure and temperature for the drywell vent system and any common and shared portions of the vent line...

Provide a complete description of the differences, if any, between the requirements and/or guidance of the stated sections and the actual, physical configuration and/or capabilities of the containment venting system which will be in operation during the requested period of extension. Include a justification for the adequacy of the proposed configuration and/or capabilities as appropriate.

- 1.2.11 The HCVS shall be designed and operated to ensure the flammability limits of gases passing through the system are not reached; otherwise, the system shall be designed to withstand dynamic loading resulting from hydrogen deflagration and detonation. (NEI 13-02, 4.1.7)

Provide a complete description of the differences, if any, between the requirements of the stated section and the actual, physical configuration and/or capabilities of the containment venting system which will be in operation during the requested period of extension.

Include a complete description of compensatory measures, if any, which will be utilized to achieve equivalent or similar capabilities as required by the order and described in the guidance.

- 2.2 All other HCVS components shall be designed for reliable and rugged performance that is capable of ensuring HCVS functionality following a seismic event. These items include electrical power supply, valve actuator pneumatic supply and instrumentation (local and remote) components. (NEI 13-02, 5.2 and 5.3)

Provide a complete description of the differences, if any, between the requirements of the stated section and the actual, physical configuration and/or capabilities of the containment venting system which will be in operation during the requested period of extension.

Include a complete description of compensatory measures, if any, which will be utilized to achieve equivalent or similar capabilities as required by the order and described in the guidance.

Additionally, OCNGS UFSAR Section 6.2.7.4, "Failure Modes and Effects Analysis (FMEA) of the Hardened Vent System" states,

"The 10" vent pipe which is not seismic, is provided with anti-fall down pipe supports. In the event of a seismic event, failure of the hardened vent pipes (8" and 10") may occur."

Address this issue in your response.

- 3.1 The Licensee shall develop, implement, and maintain procedures necessary for the safe operation of the HCVS. Procedures shall be established for system operations when normal and backup power is available, and during an extended loss of AC power.
- 3.2 The Licensee shall train appropriate personnel in the use of the HCVS. The training curricula shall include system operations when normal and backup power is available, and during an extended loss of AC power.

Provide a description of procedure changes and/or changes to the training curricula, if any, to support the use of the containment venting system during the requested period of extension.