

SUPPORTING STATEMENT FOR
INFORMATION COLLECTIONS CONTAINED IN
MITIGATION OF BEYOND-DESIGN-BASIS EVENTS
FINAL RULE

10 CFR PART 52

(OMB CLEARANCE NO. 3150-0151)

DESCRIPTION OF THE INFORMATION COLLECTION

The U.S. Nuclear Regulatory Commission (NRC) is amending its regulations to establish regulatory requirements to mitigate beyond-design-basis events. The Mitigation of Beyond-Design-Basis Events (MBDBE) final rule achieves the following regulatory objectives:

- (1) Make the requirements of Order EA-12-049, *Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events*,¹ and Order EA-12-051, *Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation*,² generically applicable.
- (2) Establish regulatory requirements for documentation of changes.
- (3) Address a number of petitions for rulemaking (PRMs) submitted following the March 2011 Fukushima Dai-ichi event.

This analysis addresses the information collections associated with the MBDBE rule requirements that contain an incremental change in burden relative to existing rules, Orders, and industry initiatives. The MBDBE rule encompasses provisions that are currently being implemented by Order EA-12-049 and Order EA-12-051. The paperwork burden associated with the MBDBE rule largely results from the one-time licensee's review of the rule to confirm compliance with the Order requirements (i.e., a comparison of the MBDBE rule requirements with the Orders and updates to procedures, programs, or plans).

A. JUSTIFICATION

1. Need for and Practical Utility of the Information

The NRC has developed the MBDBE rulemaking, in large measure, to make generically applicable the regulatory actions taken following the events at the Fukushima Dai-ichi nuclear power plant resulting from the March 11, 2011, Great Tōhoku Earthquake and subsequent tsunami. Current NRC regulations do not incorporate requirements to implement strategies and guidelines for the mitigation of beyond-design-basis external events. These strategies and guidelines provide additional capability to address the uncertainties associated with beyond-design-basis external events (e.g., events arising from severe natural phenomena). The

¹ Agencywide Documents Access and Management System (ADAMS) Accession No. [ML12054A735](#)

² ADAMS Accession No. [ML12056A044](#)

MBDBE rulemaking makes generically applicable requirements similar to those imposed by Order EA-12-049 and Order EA 12-051.

Operating power reactor licensees and a number of combined license holders currently are subject to these Order requirements and license conditions. Any future licensees would not be covered by the Order requirements. In the absence of a rule, these requirements would need to be implemented for new reactor sites through additional Orders or license conditions (as was done for all combined licenses issued to date), which would impose additional costs on the NRC.

The MBDBE rulemaking, both the regulation and its supporting guidance, also enhances regulatory efficiency by reflecting stakeholder feedback provided in response to the proposed rule (80 FR 70609, November 13, 2015), and lessons learned from the implementation of the Orders, including any challenges or unintended consequences associated with implementation.

The specific information collections associated with the MBDBE revisions and amendments to Parts 50 and 52 are identified below.

Section 50.34(i) requires applicants for power reactor operating licenses to include plans for implementing the requirements in 10 CFR 50.155, "Mitigation of Beyond-Design-Basis Events," including a schedule for achieving full compliance and a description of the equipment and location of the equipment upon which the strategies rely. These requirements were established under Order EA-12-049 and licensees have already completed this requirement.

Section 50.155 requires licensees to review their previous compliance under Orders EA-12-049 and EA-12-051 against the MBDBE rule requirements to confirm their compliance with the MBDBE rule, as well as to make changes to procedures, programs, and plans to reference the new MBDBE rule requirements (rather than the Order requirements). Sites will incur a one-time recordkeeping burden to review procedures, programs, and plans to confirm that they are consistent with the rule requirements. The burden for this information collection requirement is captured in the supporting statement for 10 CFR Part 50, submitted under 3150-0011.

Section 50.155(b)(1) requires licensees to develop strategies and guidelines to mitigate beyond-design-basis external events from natural phenomena that are developed assuming a loss of all ac power concurrent with either a loss of normal access to the ultimate heat sink or loss of normal access to the normal heat sink. These requirements were established under Order EA-12-049 and licensees have already completed this requirement.

Section 50.155(b)(2) requires licensees to develop strategies and guidelines to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities under the circumstances associated with loss of large areas of the plant impacted by the event, due to explosions or fire. These requirements were established under Order EA-02-026 and licensees already comply with this requirement.

Section 50.155(f) requires licensees to maintain documentation of changes in the implementation of the requirements of section 50.155. These requirements were established under Order EA-12-049. Burden for this requirement is captured in the supporting statement for 10 CFR Part 50, submitted under 3150-0011.

Section 52.80(d) requires applicants for power reactor operating licenses under Part 52 to include in their applications information on the plan for implementing the requirements of

10 CFR 50.155(b), including a schedule for achieving compliance as well as a description of the equipment and planned locations of the equipment on which the strategies and guidelines will rely. This is the same requirement as that contained in Section 50.34(i) for applicants for a new power reactor operating license under Part 50. The NRC does not expect any new applicants under Part 50 for a power reactor operating license or under Part 52 for a combined license for the next three years.

2. Agency Use of the Information

The information identified will be used to determine licensee compliance with the requirements of the MBDBE rule and thus ensure that the power reactor licensees have developed additional capability to respond to events exceeding the external events design basis of the facility (e.g., events arising from severe natural phenomena). If licensees are not in compliance, the information will allow NRC to assess how and when compliance with the applicable requirements will be achieved.

3. Reduction of Burden through Information Technology

There are no legal obstacles to reducing the burden associated with this information collection. The NRC encourages respondents to use information technology when it would be beneficial to them. The NRC issued a regulation on October 10, 2003 (68 FR 58791), consistent with the Government Paperwork Elimination Act, which allows its licensees, vendors, applicants, and members of the public the option to make submissions electronically via CD-ROM, e-mail, special Web-based interface, or other means. It is estimated the percentage of electronic submissions for these requirements will be similar to the percentage for other Part 52 requirements (approximately 100% of the responses are filed electronically.)

4. Effort to Identify Duplication and Use Similar Information

No sources of similar information are available.

5. Effort to Reduce Small Business Burden

The NRC has determined that the affected entities are not small entities or businesses as those terms are used in the Regulatory Flexibility Act.

6. Consequences to Federal Program or Policy Activities if the Collection Is Not Conducted or Is Conducted Less Frequently

If the information were not collected, or collected less frequently, the NRC would not have an efficient means of confirming whether licensees have improperly implemented and complied with the MBDBE rule, including developed training materials as well as documented training; or developed change control procedures, programs, or plans. Less frequent collection could adversely affect public health and safety.

7. Circumstances which Justify Variations from OMB Guidelines

There is no variation from OMB Guidelines.

8. Consultations Outside the NRC

The information collection requirements were published for public comment in the *Federal Register* on November 13, 2015 (80 FR 70609). No comments were received on the proposed information collections as a result of public comment requests.

The MBDBE rulemaking consolidates two previous rulemaking efforts: the Station Blackout Mitigation Strategies (SBOMS) rulemaking and the Onsite Emergency Response Capabilities rulemaking. Both regulatory efforts offered extensive external stakeholder involvement opportunities, including public meetings, Advance Notices of Proposed Rulemaking (ANPRs) issued for public comment, and draft regulatory basis documents issued for public comment. The following were the major opportunities for stakeholder involvement:

- Station Blackout ANPR (77 FR 16175, March 20, 2012)
- Onsite Emergency Response Capabilities ANPR (77 FR 23161, April 18, 2012)
- SBOMS draft regulatory basis and draft rule concepts (78 FR 21275, April 10, 2013)³
- Onsite Emergency Response Capabilities draft regulatory basis (78 FR 1154, January 8, 2013)⁴
- Preliminary proposed rule language for Onsite Emergency Response Capabilities (78 FR 68774, November 15, 2013)

The public has had additional opportunities to engage in these regulatory efforts for the MBDBE rulemaking. Most noteworthy were the following:

- Consolidated rulemaking proof of concept language published on February 21, 2014 (ADAMS Accession No. ML14052A057)
- Preliminary proposed rule language for consolidated rulemaking published August 15, 2014 (ADAMS Accession No. ML14218A253)
- Preliminary proposed rule language for consolidated rulemaking published November 13, 2014 (ADAMS Accession No. ML14316A297), and December 8, 2014 (ADAMS Accession No. ML14336A641), to support public discussion with the Advisory Committee on Reactor Safeguards (ACRS)
- Proposed MBDBE rulemaking issued for a 90-day public comment period on November 13, 2015 (80 FR 70609)
- Public meeting held on January 21, 2016, to discuss the proposed rule with external stakeholders and thereby enable more informed feedback to be provided on the proposed rule
- Public meeting held on November 10, 2016, to discuss the implementation schedule for the MBDBE rule and obtain feedback concerning cumulative effects of regulation, which could then be used to make appropriate adjustments to rule compliance dates

9. Payment or Gift to Respondents

Not applicable.

³ The final SBOMS regulatory basis was subsequently issued on July 23, 2013 (78 FR 44035).

⁴ The final Onsite Emergency Response Capabilities regulatory basis, with preliminary proposed rule language, was subsequently issued on October 25, 2013 (78 FR 63901).

10. Confidentiality of Information

Confidential and proprietary information is protected in accordance with NRC regulations at 10 CFR 9.17(a) and 10 CFR 2.390(b).

11. Justification for Sensitive Questions

There are no sensitive questions included in these information collections.

12. Estimate of Industry Burden and Cost

The NRC staff estimates that applicants for combined operating licensees would require 300 hours to comply with 10 CFR 52.80(d) and include plans for implementing the requirements in 10 CFR 50.155; however, no applications are anticipated during the clearance period. There is no additional burden associated with this final rule during the clearance period. Burden for maintaining records of applications is covered under 10 CFR 52.47.

13. Estimate of Other Additional Cost

There are no additional costs. Costs for the Part 52 collection remain at \$2,485.

14. Estimated Annualized Cost to the Federal Government

The NRC staff does not anticipate any additional costs to the Federal Government based on the changes in this final rule. No combined operating licenses are anticipated.

15. Reasons for Changes in Burden or Cost

Because there are no anticipated combined license applications during the next three years, no additional burden is estimated for the Part 52 information collection during this clearance period.

16. Publication for Statistical Use

The collected information is not published for statistical use.

17. Reason for Not Displaying the Expiration Date

The recordkeeping and reporting requirements for this information collection are associated with regulations and are not submitted on instruments such as forms or surveys. For this reason, there are no data instruments on which to display an OMB expiration date. Further, amending the regulatory text of the CFR to display information that, in an annual publication, could become obsolete would be unduly burdensome and too difficult to keep current.

18. Exceptions to the Certification Statement

None.

B. COLLECTION OF INFORMATION EMPLOYING STATISTICAL METHODS

Not applicable.