

January 17, 2018

MEMORANDUM TO: Dennis C. Morey, Chief
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Office of Nuclear Reactor Regulation

FROM: Joseph J. Holonich, Senior Project Manager /RA/
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SUBJECT: SUMMARY OF THE DECEMBER 12, 2017, MEETING
WITH WESTINGHOUSE REGARDING THE AC160
CONTROLLER WATCHDOG TIMER ISSUE CAUSAL ANALYSIS

On December 12, 2017, U.S. Nuclear Regulatory Commission (NRC) staff met with representatives from Westinghouse Electric Company. The purpose of the meeting was for Westinghouse to update the NRC staff on the AC160 Controller Watchdog Timer (WDT) issue causal analysis and its extent of condition analysis. Information pertaining to this meeting, including documents cited in this summary and both versions of NSAL 17-02, can be found in the meeting package at Agencywide Documents Access and Management System (ADAMS) Accession No. ML17235A626.

The NRC staff was initially informed of the issue via Nuclear Safety Advisory Letter (NSAL) 17-02, "AC160 Processor Module Stall Timers Not Activated as Described in Licensing Basis." Revision 1 to NSAL 17-02 was provided to the NRC staff on November 9, 2017. Copies of both can be found in the ADAMS package.

At the meeting, Westinghouse presented the status of actions taken to close the WDT issue discussed at the August 15, 2017, meeting (See ADAMS package ML17199G605). A nonproprietary copy of the presentation can be found in the ADAMS package for this meeting. The presentation also provided information on changes that Westinghouse would make to the revision to WCAP-16097-P-A, Revision 3, "Common Qualified Platform Topical Report," (ADAMS Accession No. ML13112A105).

During the presentation the NRC staff asked if a code review had been conducted and if document traceability could be shown. Westinghouse explained that they had traced their review to the code file and into the code such that traceability was documented.

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Given the discussions at the meeting, the NRC staff also asked if a new or updated NSAL would be needed based on the evaluation Westinghouse had done. Westinghouse said that an NSAL would be needed and that it was looking at whether NSAL 17-02 would be revised or a separate NSAL would be issued.

A point made by Westinghouse during the meeting was that the WDT issue was not a safety issue with operating plants. Because there was not a safety issue, it was agreed that there was no Code of Federal Regulations, Title 10, Part 21, "Reporting of Defects and Noncompliance," concern. However, the NRC staff explained that the current safety evaluation (SE) for WCAP-16097-P-A, Revision 3 was not accurate given the information discussed at this and prior meetings on the AC 160 WDT controller. Thus, there was a need to revise the SE to reflect the current situation.

In reviewing the proposed changes to WCAP-16097-P-A, Revision 3, an action for Westinghouse to clarify the proposed revision on Slide 11 was identified. Another action was for Westinghouse to clarify the load changes discussed on Slide 14 of the Westinghouse presentation. It was agreed that the changes to WCAP-16097-P-A, Revision 3 were not design changes but rather were editorial changes.

In addition to the changes discussed in the presentation, Westinghouse agreed to provide a list to identify technologies used in the AC160 modules as a table in the next revision to WCAP-16097-P.

Another area of discussion was related to the corrective actions taken to address the issues in WCAP-16097-P-A, Revision 3 and the NRC staff SE. The NRC staff requested that Westinghouse add a lessons learned and corrective actions discussion on what it had done with respect to these issues. Westinghouse agreed to provide the information and would look at the best way to present it in the next revision.

The last topic discussed was the proposed schedule for submittal and NRC staff review of the revision to WCAP-16097-P-A, Revision 3. As part of the discussion, the NRC staff explained the priority for topical report reviews and Westinghouse agreed to provide justification for the priority of the review.

Actions from the meeting were for Westinghouse to:

- clarify the proposed revision on Slide 11
- clarify the load changes discussed on Slide 14
- provide a list of technologies as a table in the next revision to WCAP-16097-P-A
- provide the lessons learned and corrective action information for the corrective actions taken to address the issues and look at the best way to present it in the revision; and
- provide justification for the priority of the review

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WESTINGHOUSE REGARDING THE AC160 CONTROLLER WATCHDOG
TIMER ISSUE CAUSAL ANALYSIS DATED: JANUARY 17, 2018

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