

April 25, 2001

MEMORANDUM TO: Stuart A. Richards, Director
Project Directorate IV & Decommissioning
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Jack Cushing, Project Manager, Section 2 */RA/*
Project Directorate IV & Decommissioning
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MEETING HELD ON APRIL 5, 2001, WITH
WESTINGHOUSE TO DISCUSS OPEN ITEMS FOR THE COMMON
QUALIFIED PLATFORM

On April 5, 2001, a public meeting was held at the NRC Headquarters office in Rockville, Maryland, between members of Westinghouse and the NRC staff. The list of attendees is attached. The purpose of the meeting was to discuss the process for closing the open items in the safety evaluation (SE) for the Westinghouse Topical Report (TR) CENPD-396-P, "Common Qualified Platform" (Common Q). Portions of the meeting were proprietary. A non-proprietary version of the slides are available in ADAMS under accession number ML010810232.

Westinghouse is in the process of preparing to submit additional information about the plant-specific action items and the generic open items that are identified in Sections 6 and 7 of the SE. They intend to close all ten of the generic open items and to provide generic information to aid the licensees in understanding and accomplishing the requirements of plant-specific action items 6.3, 6.11, and 6.14. In this meeting they discussed with the staff the information that they intend to submit for these purposes and the schedules for their various submittals. This presentation by Westinghouse and exchange of information was requested by Westinghouse for the staff to provide them with assurance that they are on the right track with the information that they are preparing and to learn early on if any omissions of necessary information are readily apparent to the staff.

Westinghouse has divided the ten generic open items and the plant-specific action items into three categories as follows:

Category 1 — Items to be satisfied through a revision to Appendix 4 and accompanying letter. These include generic open items 7.4, 7.7, 7.9, and 7.10, and plant-specific action items 6.3, 6.11, and 6.14.

Category 2 — Items that depend upon the successful completion of supplemental qualification testing. These include generic open items 7.1, 7.2, 7.3, 7.5, and 7.6.

Category 3 — Items that require a future submittal for staff review. The single item in this category is generic open item 7.8.

Westinghouse proceeded to present its understanding and questions regarding each item in each category.

The following is a summary of the items of additional information or interpretation that resulted from the discussions in the meeting:

Category 1 — Items to be satisfied through a revision to Appendix 4 and accompanying letter.

Item 7.4 — Value-added reseller (VAR) agreements will be made available for the staff to audit.

Item 7.7 — Westinghouse will send a letter to discuss software module testing. They propose to identify the appropriate statements in the topical report and the software program manual (SPM) for the staff to arrive at a conclusion about the adequacy of the scope of the tests for validating a software module.

Items 7.9, 7.10, and 6.11 will be addressed in the upcoming revision to Appendix 4.

Item 6.3 — Westinghouse has worked with the vendor for the previously developed software proposed for use in the flat panel display system (FPDS) and has obtained additional documentation of the history of that software. The Westinghouse letter will summarize this documentation and inform the staff that it is available for audit. The staff acknowledged that the limitation regarding the use of FPDS software, as its use is described in the present appendices for reactor protection system (RPS), core protection calculator (CPC), and post accident monitoring system (PAMS), is not an issue because these designs have not been found to require that the FPDS be operational when the Common Q system is called upon to initiate safety functions. The staff will inform Westinghouse soon after receipt of the letter if additional information is needed to remove the present limitations on the use of the FPDS software in protection functions. (The staff's on-going review of the dedication of the commercial-grade FPDS hardware is discussed separately under Category 2 below.)

Item 6.14 — The staff has no intent to elevate the importance of the Three Mile Island (TMI) action items over the importance of the 10 CFR Part 50, Appendix A, General Design Criteria (GDCs) or any design-basis items. The bottom line is that the licensee must ascertain that the implementation of a Common Q digital replacement does not render invalid any of the plant's previously accomplished protection or safety functions, including TMI action items. This conclusion will be addressed in the next supplement to the Common Q SE.

Discussion — Westinghouse indicated that the wording in Section 4.4.1.3 of the SE needs to be clarified. A failure mode and effects analysis (FMEA) that the licensee performs in preparation for PAMS upgrade does not need to be submitted for review by the staff.

Discussion — Section 12, "Future Documentation," of the topical report was discussed. The table, "Future Common Q Documentation," lists future documents that will be developed by Westinghouse or the licensee and either held for audit or submitted to the NRC in support of review of the nuclear plant's license amendment. It offers guidance for the licensee on the source and disposition of anticipated future documentation associated with Common Q

upgrades as it was perceived when Section 12 was written. Its implementation may differ in actual practice. This table is not intended to be a specification. It is not commented on in the SE. Differences in implementation need not be reflected as revisions to the topical report.

With regard to schedule, Westinghouse and the staff will work towards trying to accomplish closeout of the items in Category 1 before Westinghouse completes the work discussed in Category 2.

Category 2 — Items that depend upon the successful completion of the supplemental qualification testing.

Item 7.1 — Westinghouse will complete the modification of an existing S600 analog input card under its Appendix B program and subject it to qualification testing.

Item 7.2 — Westinghouse will qualify an Appendix B-quality, multiple-output power supply to provide power to the various Common Q assemblies.

Item 7.3 — Westinghouse plans to qualify the watchdog timer on the PM646A processor module.

Item 7.5 — Westinghouse will include PM646A processor modules in the equipment to be subjected to supplemental qualification testing.

Item 7.6 — Westinghouse will include the non-AC160 Common Q components, including the FPDS, in the supplemental qualification testing.

Westinghouse has invited the staff to witness the supplemental qualification testing. The staff intends to do so, if it can be arranged.

Category 3 — Item that requires a future submittal for staff review.

Item 7.8 — Westinghouse indicates that SE Open Item 7.8 regarding loop controllers requires clarification with regard to the requirement that loop controllers be diverse from the AC160 Common Q components. (The staff-approved design for the Nuplex 80+ CESSAR-DC is cited as a pattern.) Westinghouse's submittal of the loop controller design for review by the staff is scheduled to come after the completion of some of Westinghouse's present projects.

During the balance of the meeting Westinghouse presented a preview of their proposed revisions to Appendix 4.

Project No. 692

Attachment: Meeting Attendees

cc w/att: See next page

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Project No. 692

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**ATTENDANCE LIST FOR MEETING BETWEEN
NRC AND WESTINGHOUSE
ON COMMON QUALIFIED PLATFORM OPEN ITEMS**

APRIL 5, 2001

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