ArevaEPRDCPEm Resource

From: Getachew Tesfaye
Sent: Friday, May 15, 2009 8:41 AM
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Cc: Douglas Dodson; John Segala; Steven Bloom; Surinder Arora; Jason Jennings; Joseph Colaccino; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 225 (2533), FSAR Ch. 11
Attachments: RAI_225_SBPA_2533.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on May 11, 2009, and on May 14, 2009, you informed us that the RAI is clear and no further clarification is needed. As a result, no change is made to the draft RAI. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

Thanks,
Getachew Tesfaye
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Hearing Identifier: AREVA_EPR_DC_RAIs
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5/15/2009

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 11.04 - Solid Waste Management System
Application Section: 11.4

QUESTIONS for Balance of Plant Branch 1 (AP1000/EPR Projects) (SBPA)

11.04-5

Follow-up to RAI 11.4-1

Standard Review Plan (SRP) Section 11.4, "Solid Waste Management System," states, “The scope of the review of the solid waste management system (SWMS) includes line or flow diagrams of the system, P&IDs, process and effluent radiation monitoring and control instrumentation, and descriptive information for the SWMS and for those auxiliary supporting systems that are essential to the operation of the SWMS.” Similarly, Regulatory Guide (RG) 1.206, "Combined License Applications for Nuclear Power Plants (LWR Edition)," provides further guidance in Section C.I.11.4.2.4, “The applicant should provide system P&IDs and process flow diagrams showing methods of operation and factors that influence waste treatment (e.g., system interfaces and potential bypass routes)…The applicant should provide P&IDs that indicate system interconnections and seismic and quality group interfaces.”

In RAI 11.4-1, the staff requested additional detail in U.S. EPR FSAR Tier 2, Figure 11.4-1, “Solid Waste Management Flow Diagram,” or a system P&ID. This information was requested to evaluate the adequacy of the design as required by 10 CFR 50.34a. The applicant responded by providing additional detail in U.S. EPR FSAR Tier 2, Figure 11.4-1. Specifically, clarification to the processing path for the waste stream wet active waste and a block for the concentrate recirculation pump were included.

Although general descriptions of components have been included and U.S. EPR FSAR Tier 2, Figure 11.4-1, “Solid Waste Management Flow Diagram,” has been revised, the applicant needs to include in the FSAR a COL Information Item for the SWMS P&IDs. The applicant also needs to provide additional information in U.S EPR FSAR Tier 2, Figure 11.4-1 on major system interfaces, potential bypass routes, and other connections within the “Radioactive Concentrates Processing System (Wet Solid Wastes).” Specifically, additional process flow diagram information is requested that relates to, but is not limited to, flush water connections to the resin proportioning tank, disposition of water from the vacuum unit, connections between the condensate drying units, condensate counters, and the condensate buffer sluice, and scrubber tank connections to the radioactive waste building ventilation system.

11.04-6

Follow-up to RAI 11.4-2

The staff asked the applicant in RAI 11.4-2 to provide the general equipment design parameters of the solid waste management system (SWMS), such as pump capacity, crane capacity, tank volume, materials, so the staff could adequately assess the design of the SWMS. The applicant replied to RAI 11.4-2 in its response to Request for Additional Information (RAI) Number 105, Revision 0 dated November 5, 2008. In the response, the applicant stated that Table 11.4-14, "Solid Waste Management System Component Data," will be added to U.S. EPR FSAR Tier 2, Section 11.4. However, Table 11.4-14 does not provide the equipment design standards. The staff finds the component information inadequate to assess the system compliance to the design standards referenced in Regulatory Guide (RG) 1.143, "Design Guidance for Radioactive Waste Management Systems, Structures, and Components Installed in Light-Water-Cooled Nuclear Power Plants," Table 1. Revise the DCD to specify that the codes and standards referenced in RG 1.143 Table 1 are complied with for the SWMS.