

PMSummerColpEM Resource

From: Sebrosky, Joseph
Sent: Friday, June 04, 2010 6:47 AM
To: PMSummerColpEM Resource
Cc: Habib, Donald; 'amonroe@scana.com'
Subject: audit plan for review of calculation packages associated with Summer wet bulb temperature exemption request
Attachments: wet bulbAudit Plan.doc

MEMORANDUM TO: File (Summer COLA Units 2 and 3)

From: Joe Sebrosky, Project Manager
AP1000 Projects Branch (NWE1)
Division of New Reactor Licensing
Office of New Reactors

Attached is the audit plan for review of calculation packages associated with Summer's wet bulb temperature exemption request

Hearing Identifier: VCSummer_COL_Public
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Subject: audit plan for review of calculation packages associated with Summer wet bulb temperature exemption request
Sent Date: 6/4/2010 6:46:38 AM
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From: Sebrosky, Joseph

Created By: Joseph.Sebrosky@nrc.gov

Recipients:

"Habib, Donald" <Donald.Habib@nrc.gov>

Tracking Status: None

"amonroe@scana.com" <amonroe@scana.com>

Tracking Status: None

"PMSummerColpEM Resource" <PMSummerColpEM.Resource@nrc.gov>

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wet bulbAudit Plan.doc	36930	

Options

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Audit Plan for Review of Summer Calculations Associated with
Wet Bulb Temperature Exemption Request
May 24, 2010

Background

The V.C. Summer COL Application, Part 7, Departure and Exemptions, provides justification to the maximum safety wet bulb (noncoincident) air temperature of 87.3 °F. This corresponding site characteristic value exceeds the AP1000 DCD site parameter by 1.2 °F. Analysis of the maximum safety wet bulb (noncoincident) air temperature at a bounding value of 87.4 °F has been performed by the COL applicant. The detailed justification was performed on the following components/systems.

- Containment pressure design limits
- IRWST temperature control with normal residual heat removal system
- Component cooling water system
- Nuclear Island nonradioactive ventilation system capability

In request for additional information (RAI) 6.2.1-1 and 9.2.2-1, the staff asked the applicant to provide information related to the containment pressure design limit and other calculations that were performed to support the exemption request, respectively. The applicant has provided draft responses to these RAIs available in ADAMS at ML101410204 for RAI 6.2.1-1 and ML101410201 for RAI 9.2.2-1.

The draft RAI responses reference 5 Westinghouse calculations in total that were performed to support the request. The purpose of the audit is to review these calculations and determine what information from these calculations (if any) needs to be placed on the docket and what subset of this information should be placed in the FSAR.

Regulatory Audit Basis

The basis for the audit is the exemption request is contained in the following regulations:

- 10 CFR Part 52, Appendix D, "Design Certification Rule for the AP1000 Design," Section VIII, "Processes for Changes and Departures," Item B.5.
- 10 CFR Part 52, Appendix D, "Design Certification Rule for the AP1000 Design," Section IV.A.2.d.

An applicant for a combined license that wishes to reference this appendix shall...comply with the following requirements: Include, as part of its application...Information demonstrating compliance with the site parameters and interface requirements.

Regulatory Audit Scope or Methodology

Review of the 5 calculations referenced in the draft RAI responses 6.2.1-1 and 9.2.2-1.

Team Assignments

Don Habib, Tanya Simms – Project manager

Larry Wheeler – lead reviewer for 9.2.2-1 response

Michelle Hayes – lead reviewer for 6.2.1-1 response, secondary reviewer for 9.2.2-1 response related to performance of containment cooling system

Shie-Jeng Peng – support for 9.2.2-1 response related to control room habitability and HVAC response

John Budzynski – support for 9.2.2-1 response related to residual heat removal system

Logistics

Review of calculation packages will take place the week of May 24, 2010 at Westinghouse's Rockville Office. Neither the applicant or Westinghouse will be at the audit. The staff will review the calculations in a room provided by Westinghouse. Based on the results of the review of the calculations a phone call will be held with applicant to discuss the draft RAI responses, the calculations packages and the path forward to supplement the RAI response as appropriate.