

June 26, 2002

MEMORANDUM TO: File (Davis-Besse)

FROM: Douglas V. Pickett, Senior Project Manager, Section 2 */RA/*
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION - SUMMARY OF
NUCLEAR REGULATORY COMMISSION ACTIVITIES FOR THE WEEK
OF APRIL 22, 2002, RE: CONTROL ROD DRIVE MECHANISM
NOZZLE PROJECT (TAC NO. MB4479)

April 22:

Attachment 1 is the licensee daily status summary, which is used as the agenda for the daily status call. Items discussed during the telecon included:

- Relief requests to support repair plan to be submitted April 25.
- Discussed repair plan for Nozzle 46.
- Discussed Safety Significance Assessment submittal of April 8 and the need to respond to staff questions concerning probabilistic risk assessment.

Participants included:

Carol Moyer	Bill Cullen	Terence Chan	Steve Long
Simon Sheng	Bill Bateman	Ed Andruszkiewicz	Stephanie Coffin
Allen Hiser	Keith Wichman	Andrea Lee	Stephen Sands
Tim Steingass	Ken Chang	Beth Wetzell	Doug Pickett

April 22:

Nuclear Reactor Regulation Reactor Systems Branch plans to perform confirmatory analyses as part of their review of the control rod relocation aspect of the repair plan. A telecon was held to discuss our needs to perform the confirmatory analyses. Items discussed during the telecon included:

- Information needed includes cross sections, lay-out of core depletion map, control rod lay-out, fuel type, rod worth, and shutdown margin.
- We intend to limit our confirmatory analyses to audit-type calculations of steady state conditions. We do not intend to perform confirmatory analyses for Chapter 15 transients.
- Licensee and staff in agreement on what to provide and how to provide (i.e., CD without QA documentation). Licensee plans to submit information by May 8.

Participants included: Tony Attard Tony Ulyses Sean Peters Doug Pickett

April 23:

A public meeting was scheduled for May 7 at Headquarters to discuss the root cause.

April 24:

Attachment 2 is the licensee daily status summary, which is used as the agenda for the daily status call. Attached is a draft reactor head repair plan outline. Items discussed during the telecon included:

- May 7 has been tentatively chosen for the Root Cause public meeting in Rockville.
- Licensee intends to provide responses to staff's 32 questions concerning the four page preliminary root cause analysis report by April 30.
- Repair plan for Nozzle 2 and the combined Nozzle 3/11 cavity removal plan to be submitted tomorrow.
- Licensee intends to update the Safety Significance Assessment with results using the minimum as-found clad thickness of 0.24 inch. Revised analyses to be submitted in about a week. Staff informs license that we will be issuing a request for additional information on this issue.
- Licensee has performed first test cut using abrasive water jet on test sample. They plan to perform first mock-up cut on April 28 and second mock-up cut on May 1.
- Steps 1, 2, & 3 from the Nozzle 46 repair plan are complete. No wastage observed. A slight gap around nozzle exists that is considered to be remaining from original construction. Licensee needs staff approval to proceed with repair plan.

Participants included:

Tony Mendiola	Stephen Sands	Andrea Lee	Keith Wichman
Bill Cullen	Ken Chang	Ed Andruszkiewicz	Allen Hiser
Terence Chan	Jim Davis	Simon Sheng	Steve Long
Tim Steingass	Doug Pickett		

April 25:

Attachment 3 is a list of the licensee's inspection plans for extent of condition of boric acid corrosion throughout the reactor coolant system (RCS).

April 26:

Attachment 4 is the licensee daily status summary, repair plan for Nozzle No. 46, and staff discussion of the exposed cladding area size. Items discussed during the telecon included:

- The licensee has submitted their repair plan and American Society of Mechanical Engineers (ASME) Code relief requests by over-night mail. They would like to schedule a separate telecon to discuss this.
- Addendum to Safety Significance Assessment scheduled for week of May 6.

- Licensee needs staff approval to go beyond the stop point following Step 3 of the Nozzle 46 repair plan. We question the significance of physical coloring of photos from Nozzle 46. We provide approval to proceed to Steps 4 through 7 for the Nozzle 46 repair plan.
- Licensee wants to discuss extraction and preservation plan. We may not be able to support discussions next week due to ASME Code meetings staff is attending.
- Mock-up schedule previously provided has slipped. Final water cuts now scheduled for May 6/7 time frame.
- Tim Steingass questions the licensee's plan to have staff performing extent of condition walkdowns with only VT-2 qualifications. Walkdowns being performed to satisfy Item 3 of the confirmatory action letter. We indicate VT-1 and VT-3 qualifications to be more appropriate.
- Discussion on total surface area of clad exposed. Licensee measures 20.0 sq inches and uses 25.0 sq inches in safety assessment.

Participants included:

Stephen Sands	Tim Steingass	Terence Chan	Bill Cullen	Doug Pickett
Andrea Lee	Steve Long	Simon Sheng	Ken Chang	

Docket No. 50-346

- Attachments:
1. April 22 licensee daily status summary (one page).
 2. April 24 licensee daily status summary and attached draft repair plan outline (5 pages)
 3. E-mail from D. Wuokko (licensee) to S. Sands (NRR) dated April 25, boric acid corrosion extent of condition throughout RCS (1 page)
 4. April 26 licensee daily status summary and attached repair plan for Nozzle No. 46, and E-mail from W. Cullen (NRR) to S. Sands (NRR), RE: safety significance assessment and exposed cladding area size (8 pages)

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