

May 20, 2004

MEMORANDUM TO: Davis-Besse Oversight Panel

FROM: John A. Grobe, Chairman, Davis-Besse Oversight Panel */RA/*

SUBJECT: MINUTES OF INTERNAL MEETING OF THE DAVIS-BESSE
OVERSIGHT PANEL

The implementation of the IMC 0350 process for the Davis-Besse Nuclear Power Station was announced on April 29, 2002. An internal panel meeting was held on January 8, 2004. Attached for your information are the minutes from the internal meeting of the Davis-Besse Oversight Panel, the approved Management & Human Performance Followup Inspection Plan, the approved RAM Closure Forms, and the "Open" Action Items List.

Attachments: As stated

cc w/att: D. Weaver, OEDO
J. Caldwell, RIII
G. Grant, RIII
S. Reynolds, DRP
B. Clayton, EICS
DB0350

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OFFICE	RIII		RIII		RIII		RIII	
NAME	RBaker/trn		DPassehl		CLipa		JGrobe	
DATE	05/20/04		05/17/04		05/19/04		05/20/04	

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MEETING MINUTES: Internal IMC 0350 Oversight Panel Meeting
Davis-Besse Nuclear Power Station

DATE: January 8, 2004

TIME: 11:30 a.m. Central

ATTENDEES:

J. Grobe	W. Ruland	S. Thomas
C. Lipa	A. Mendiola	R. Baker
M. Phillips	J. Hopkins	G. Wright
D. Passehl	J. Stang	

Agenda Items:

1. Discuss/Approve Today's Agenda

The Panel approved the agenda, but modified the order of presentations. **THE APPROVED AGENDA REFLECTS THE ORDER LISTED IN THESE MINUTES.**

2. Discuss Plant Status and Inspector Insights and Emergent Issues List

S. Thomas led a discussion of plant status and inspector insights and emergent issues.

The licensee is preparing to conduct a plant cooldown to Mode 4. The cooldown is required by Technical Specification 3.7.1.2.a, due to a turbine casing steam leak identified on #1 Auxiliary Feedwater Pump low pressure turbine during the post maintenance testing of the governor. The licensee also plans to perform work on #2 Auxiliary Feedwater Pump to ensure that the same problem does not occur on that pump. Additional work items being scheduled following the cooldown include:

- 1) Repair of a small steam leak on a body-to-bonnet seal weld on valve RC1AB, the reactor coolant system loop 2 hot leg flow transmitter source valve.
- 2) Complete required testing on Steam/Feed Water Rupture Control System channel 2 steam generator differential pressure input. Testing was suspended due to leaking isolation valves on the 5-way valve manifold for the pressure switch and the licensee plans to replace the 5-way valve manifold.
- 3) Repair the motor coupling on Containment spray pump #2, which exhibited an abnormally high outboard bearing temperature while being used to recirculate water in the Borated Water Storage Tank. The cause was determined to be a misaligned coupling. Repairs are scheduled to be completed on 1/12/04. If the pump is not operable by 5:45 p.m. on 1/13/04, Technical Specification 3.6.2.1 would require return to Mode 5.

S. Thomas also provided an update on the issue of an inadvertent Technical Specification violation. On January 6, 2004, problems occurred during the surveillance testing of a flow measurement instrument in the feedwater system. The test required the instrument be taken out of service; the Technical Specification requires that the instrument be restored to service within 1 hour or that the instrument be placed in a

tripped condition. Because of the testing problems, technicians were unable to complete the test, but did not restore the instrument to service within the required period. It was restored in about 2 hours. This situation was apparently the result of inadequate communications between the testing staff and the control room operators.

Because of this incident, the Chief Operating Officer of FirstEnergy Nuclear Operating Co. requested that the NRC defer the Followup Restart Readiness Assessment Team Inspection, previously planned to begin January 12. The licensee is conducting a root cause analysis of the evolution and will provide the results to the NRC when available.

3. Discuss and Receive Comments on the Format and Content of the Revised Daily Updates for Davis-Besse Status

J. Grobe led a discussion on the process of providing a daily update Davis-Besse restart status to senior management. The daily status provided by the Senior Resident Inspector will be updated and sent out by 4:00 p.m. EST to the DB0350 distribution list, J. Caldwell, and G. Grant. R. Baker took the action to send out the daily updates.

4. Discuss Recent Licensee Actions Which Impact When the Restart Meeting Will Occur

C. Lipa led a discussion on how recent licensee actions will impact the proposed date of the Public Restart Meeting. The Panel concurred that the next earliest date would be after the Followup RRATI and review of the licensee's root cause analysis of recent operational performance deficiencies. The meeting could possibly be as early as January 29, but this is entirely dependent on the licensee's actions to address performance issues.

5. Discuss Management & Human Performance Followup Inspection: Staffing/Strategy/Logistics/Exit

G. Wright led a discussion on the approach, staffing, and logistics for conducting the Followup Management and Human Performance Inspection. One key note of the discussion was the need to maintain a separation between the inspection objectives of the Followup RRATI and the Followup Management and Human Performance inspections.

6. Panel Review/Approve Management & Human Performance Followup Inspection Plan

G. Wright led a review of the Followup Management and Human Performance Inspection Plan. The Panel provided minor editorial changes and approved the inspection plan. **THE APPROVED INSPECTION PLAN IS ATTACHED TO THESE MINUTES.**

7. Discuss Including the Operations Area Concerns in the Draft Confirmatory Order

Again, the question of the need to include the operations area in the Confirmatory Order arose, especially in light of the recent licensee's operational performance challenges. The Panel decided to gather additional information concerning recent events in this area and to discuss this topic at the next Panel meeting on January 13.

8. Discuss Reasonableness of Licensee's Success Path

J. Grobe opened a discussion on whether or not the licensee has a reasonable approach to a success path for correcting the deficiencies observed in the operations area. The Panel concluded that a final determination will have to wait for the licensee to complete its root cause determination. Following a review of that report, the Panel will revisit this issue.

9. Discuss Revised Restart Recommendation Memo

J. Grobe led a review of the revised Restart Recommendation Memorandum. Due to the extensive update of both the memo and the attachments, the Panel decided to review and provide final comments to M. Phillips. M. Phillips took the action to resolve the comments and present the final draft at a future Panel meeting.

10. Discuss New/Potential Licensing Issues

J. Hopkins briefed the Panel on the status of the Steam Generator (SG) inspection license amendment request. The licensee's responses to the March 2002 SG inspection RAI have been received and are being reviewed by the technical staff. Initial review indicates that all of the questions have been adequately resolved and the technical staff is moving forward with the license amendment request.

11. Discuss Communication Status

J. Stang informed the Panel that the Communications Team Tracking Matrix is being updated with resolutions from yesterday's Communication Team meeting, and will be ready for Panel review at next week's Panel meeting.

12. Discuss RAM Closure Items

M. Phillips led a review of RAM closure items. **THE RESTART ACTION MATRIX ITEMS THAT THE PANEL APPROVED FOR CLOSURE ARE ATTACHED TO THESE MINUTES.**

13. Discuss Action Items

C. Lipa led a review of the Open Action Items. The Panel decided that a new column would be added to the list to provide a due date for the assigned items, to help facilitate tracking of the issues, and due dates were established for the Action Items. R. Baker took the action to revise the Open Action Items list for the next Panel meeting.

One new Action Item was added to the list. **THE UPDATED "OPEN" ACTION ITEMS LIST IS ATTACHED TO THESE MINUTES.**

14. Discuss Punch List

C. Lipa led a review of the Punchlist. R. Baker took the action to update the Punchlist with the Panel's comments.

15. Discuss/Update Milestones and Commitments

The Panel reviewed and discussed upcoming milestones and commitments.

16. Review Key Items Scheduled for Next Panel Meetings

C. Lipa discussed key items scheduled for upcoming Panel meetings.

APPROVAL SHEET FOR
MANAGEMENT & HUMAN PERFORMANCE ASSESSMENT
FOLLOW UP INSPECTION

Inspection Dates: Jan 12 through Jan30

Exit: Jan 21 (tentatively)

Applicable Inspection Procedures:

93812, "Emergency Response"

Inspection Procedure:

Prepared by: /RA by C. Lipa for/
G. C. Wright, RIII, DRP
Project Engineer/Team Lead

Reviewed by: /RA/
Christine Lipa
Chief, Projects Branch 4, DRP
Oversight Manager

Approved by: /RA/
Jack Grobe, Chairman,
Davis-Besse 0350 Oversight Panel

Follow Up Inspection:

The Follow Up Inspection of the Management and Human Performance Assessment is to independently verify the licensee's assessment of the causal factors responsible for the decline in performance between the March and November SCWE surveys and to assess the corrective actions proposed to address the factors. The team proposes to use a modified Phase 3 to accomplish the task. The inspection will be accomplished by a special inspection consisting of NRC inspectors, specialists, and consultants noted below.

The Follow Up Inspection plan consists of a review of the method the licensee used to assess the survey findings, independent verification/validation of the data obtained by the licensee, assessment of the data reduction, and review and assessment of the corrective actions identified by the licensee.

The basic activity of the inspection will be interviews with both focus groups and individuals. We expect to conduct 6 focus groups and a 25% random sample of individual interviews from staff in operations, plant engineering, maintenance and quality assurance.

XVII. Inspection Team:

Team Leader:	Geoffrey Wright, Region III
Team Members:	Clare Goodman, NRR
	June Cai, NRR
	Dave DeSaulniers, NRR
	Julius Persensky, RES
	Molly Keefe, RES
	Lisamarie Jarriel, OE
	James Heller, RIII
	Michael Brothers, Consultant

II Inspection Activities:

Docket	=	05000346
Report No.	=	50-346/2004003
Insp. Proc.	=	93812
Inspection IPE	=	ER
Preparation IPE	=	SEP
Documentation IPE	=	SED
Travel	=	AT

III Inspection Deliverables:

This special inspection is designed to provide the NRC's 0350 Panel (Panel) with an evaluation of (1) the processes the licensee used to assess changes in the results of the safety culture and safety conscious work environment (SCWE) survey (ECP survey) conducted in March and November 2003, (2) the corrective actions the licensee plans for improving their safety culture and SCWE, and (3) the monitoring activities the licensee plans to undertake associated with continued assessment of its safety culture and SCWE. The input from this inspection, when combined with other inputs, e.g., System Health inspections, Program Review inspections, Containment Health inspections, and the Corrective Action Team Inspection, will allow the Panel to make an informed decision on the effectiveness of the licensee's Management and Human Performance corrective actions. To that end, the following deliverables are expected from this special inspection.

A. Independent Assessment

The inspection team will provide the 0350 Panel with an assessment of the input parameters, evaluation techniques, and methods to determine the root cause and to develop conclusions used by the licensee's assessment team.

B. Assessment of Licensee Corrective Actions

The inspection team will provide the 0350 Panel with an assessment of the actions the licensee plans to implement to improve their safety culture and SCWE.

C. Future Monitoring Activities

In light of the decline in survey results between March and November, the team will revisit the licensee's proposed monitoring plans for 2004 to evaluate their appropriateness.

IV Inspection Details

A. Independent Assessment, i.e., the assessment performed by the contractor.

1. Evaluate suitability of the following tools used by the independent assessment team, relative to the data from the November ECP survey:
 - a. interview questions
 - c. appropriateness of the focus group technique;
 - d. documents reviewed
 - e. sampling plan for all above

2. Evaluate implementation of the licensee's safety culture evaluation techniques
 - a. how individuals were selected to participate as described in the process; and
 - b. the qualifications and independence of the assessment team
 3. Evaluate the methodology used to develop results and conclusions from the data to determine:
 - a. if the methodology is appropriate, applicable, and comprehensive;
 - b. if the methodology was applied consistently; and
 - c. if the statistical techniques applied to sampling and to the results were appropriate.
 4. Evaluate the results of the assessment and the data collected by the licensee's evaluation team to determine:
 - a. if the results drawn from the assessment are consistent with the data collected;
 - b. how the results drawn from the assessment compare with data from the ECP survey
 - c. if the overall conclusions drawn from assessment are consistent with the data collected by the licensee's evaluation team
 - d. If the results of the inspections teams efforts confirm the licensee's results
- B. Review the licensee's response to the findings from the ECP survey and the independent assessment to determine:
1. If planned actions are appropriate for resolving identified issues
 2. If appropriate monitoring methods are in place to identify similar problems in the future
 3. If appropriate criteria for qualifications of personnel who will conduct and evaluate the results of future periodic safety culture and SCWE assessments have been established;
 4. If appropriate criteria for action based on the results of future periodic safety culture and SCWE assessments have been established

V Methods

A. Interviews

1. The inspection team will use a combination of individual and focus group application specific interviews to achieve a random sample of approximately 25% of target working groups for individual interviews, with

a control sample from one other work group. The focus groups will consist of from six to eight individuals randomly selected from each work group. These individuals would not be exempt from selection for individual interviews. The team will also be available for confidential interviews off-site for individuals who want that level of confidentiality.

a. Interview six focus groups,

- 1) one focus group each of staff from operations, plant engineering, maintenance, and quality assurance
- 2) one focus group from training - as a control group
- 3) one conglomerate focus group of supervisors from operations, plant engineering, maintenance, training and quality assurance

b. Interview individuals from operations, plant engineering, maintenance, quality assurance, and training

2. The team will interview members of the independent assessment team
3. The team will interview licensee staff and managers responsible for the implementation of corrective actions resulting from the independent assessment and future assessments of safety culture and SCWE

B. Document Review

1. The inspection team will review the documents described in the process diagram developed by the licensee's independent assessment team
2. The inspection team will review any written reports resulting from the licensee's independent assessment
3. The inspection team will review condition reports and corrective actions resulting from the licensee's independent inspection
4. The inspection team will review licensee documents and procedures that describe their implementation of corrective actions and continued monitoring of safety culture and SCWE

VI Brief 0350 Oversight Panel on findings and conclusions from inspection.

VII. Exit Meeting with licensee

RAM Item No. - C-35**Closed:** Y

Description of Issue - Extent of Condition Reviews for generic implications were inadequate as determined by a Perry review of D-B CRs.

Restart Checklist Item: N/A

Description of Resolution - DRP BC followed up with the licensee to discuss the Perry root cause report that referred to a review of several DB and Perry CR extent of condition reviews. The root cause report documented several problems at both Perry and Davis-Besse. The Davis-Besse staff reviewed the Perry Root Cause Report. In the Root Cause Report done by Perry, the licensee listed several preventive actions that were being taken to address the "generic implications" issue. Licensee staff stated that some of these actions were Corporate level actions. One of the actions was to incorporate the generic implications issue into the Apparent Cause Training the licensee had been giving at Davis-Besse. Also, the licensee will be clarifying the guidance/definition of "generic implications" on a pilot basis and then reevaluating the need to incorporate this into the Corrective Action Program. The NRC's review determined that this level of review by the Davis-Besse licensee and the corrective actions proposed were reasonable.

RAM Item No. - LER-22**Closed:** Y

Description of Issue - Trip of Reactor Protection System During Plant Cooldown. Davis-Besse Operations Procedure DB-OP-06903, "Plant Shutdown and Cooldown," Revision 11 provided an option to cooldown the reactor coolant system with the Group 1 Safety Control Rods fully withdrawn.

Description of Resolution - The performance deficiency associated with this event is the control room staff did not adequately monitor and control reactor coolant system pressure which resulted in an unexpected reactor trip on shutdown bypass high pressure. The licensee implemented several actions to address the deficiencies associated with this issue. These actions included the following:

- until completion of the initial analysis of the event, returned the plant to normal operating pressure and temperature with all control rods tripped;
- implemented an operational stand down until the initial investigation of the event could be completed;
- implemented their problem solving and decision process and developed a root cause analysis;
- modified the cooldown procedure to reflect results from the initial investigation;
- developed guidance for that cooldown that specified the pressure and temperature band specifically for each evolution until Mode 5 was attained;
- for the cooldown to Mode 5 for each control room shift crew, conducted just in time simulator training that covered just the activities that would occur on that shift; and

- chartered a team to review the collective significance of this trip and other recent events involving operations and to develop an operations improvement plan.

The licensee entered the event into its corrective action program as Condition Report 03-08374. The inspectors reviewed the outstanding corrective actions and determined the proposed actions and due dates assigned to these actions were appropriate.

Reference Material - Inspection Report Nos. 50-346/03-022 (ADAMS Accession No. ml033570081) and 50-346/04-02, scheduled to be issued in February 2004.

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DAVIS-BESSE OVERSIGHT PANEL "OPEN" ACTION ITEM LIST			
Item Number	Action Item (Date generated)	Assigned to	Comments
197	Develop a communication plan with restart Qs and As. (06/17)	J. Stang	6/24-Lead changed; 08/21-Lead changed; 09/30-Discussed, list of Q & As is being gathered for review and forwarding to RA; 10/14-Discussed, J. Shea is compiling the list of Q & As for review by the Panel and results will be forwarded to the RA; 10/21-Brainstorming session to occur 10/23 to final presentation to Panel; 11/20- The list of Q&As will be inserted to the Comm Matrix today; 12/15-Discussed, Plan with Panel Chairman; 12/30-Discussed, major rework in progress and plan will need to go back into concurrence.
208	Evaluate the need to call back CI regarding Allegation RIII-2002-A-0177 (D-B) after the OI Investigation is complete. (08/21)	M. Phillips	10/14-Investigation is still ongoing; 12/23-Discussed, awaiting DOJ Investigation.
212	Determine whether the Communication Team has received all electronic and written correspondence from external sources. If there is reasonable confidence that the Communication Team has all the correspondence then develop a set of bullets explaining why there is reasonable confidence. (09/23)	J. Stang	10/14-Discussed, Set of bullets still under development; item will be discussed at next Panel meeting on 10/16; 11/04 - Discussed, J. Stang is adding to Comm. Matrix; 11/20-Only remaining is the documented criteria for proof of reasonable confidence; 12/15-Discussed, all inputs received from panel members-closure memo to document completeness confidence in draft and will go to Panel next week; 12/30-Discussed, Bullets in review and NRR will forward to Region; 1/06-Discussed, List of Bullets in final review and will be disseminated 1/09/04.
219	Brief Jim Caldwell on how Immediate Action Maintenance issue was resolved. He would like to see the revised procedure. (10/21)	S. Thomas	10/28-Brief will include research information on Exelon approach; 11/20-NRC is reviewing a copy of the licensee's revised procedure; 12/15-Discussed, FENOC rep met with SRI 12/14 to review new procedure; 12/18-Discussed, need to setup briefing for RA; 1/06-Discussed, brief will be given to Branch Chief with follow on briefing for Jim Caldwell.

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DAVIS-BESSE OVERSIGHT PANEL "OPEN" ACTION ITEM LIST			
Item Number	Action Item (Date generated)	Assigned to	Comments
220	Develop inspection plan requirements which include review of post restart security program effectiveness. (10/28)	D. Passehl	11/20-The plan is being developed and supplemented from baseline requirements; 12/15-Discussed, draft plan in final.
224	Rewrite the proposed IN on TSP to be generic and reflect attainable plant conditions and what information should be disseminated to the industry concerning Boric Acid Corrosion Control Programs. (12/09)	D. Hills	12/15-Discussed, D. Hills is working; 12/23-Discussed, this issue will be discussed internally in RIII and brought to Panel on 1/06/03 for a final decision on how to proceed.
228	Place all Email requests sent throughout Agency, responses received, and issue resolutions in ADAMS package for documentation. (12/16)	M. Mitchell	1/06-Discussed, will verify ADAMS package is in place to support collection of emails and responses-email requests will be resent due to small response to date.
231	As soon as the final RRATI report is issued, Email a copy to Rick Jacobs at INPO.(12/19)	D. Passehl	
232	Track the status of the response to Gunter on Fire Protection Issues due 01/09/04. (12/30)	J. Stang	12/30-Discussed, J. Dyer briefed on 12/29/03; J. Caldwell brief scheduled for 12/31/03.
233	Determine if a new allegation, or new information is presented in the 12/18/03 Lochbaum letter. (12/30)	M. Phillips/Jacobson	12/30-Discussed, should have an answer by 01/09/04.
234	Develop protocol paper for NRC representative on DOJ committee interface with 0350 Panel for updates. (1/06)	W. Ruland	

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DAVIS-BESSE OVERSIGHT PANEL "OPEN" ACTION ITEM LIST			
Item Number	Action Item (Date generated)	Assigned to	Comments
235 (NEW ITEM)	Advise panel on need for post-restart inspection, based on review of our Greenpeace 2.206 petition and the immediate action response letter we issued on Nov 26, 2003. (01/08)	J. Jacobson	