

December 14, 2000

MEMORANDUM TO: Donald C. Cook Nuclear Plant Manual Chapter 0350 Panel  
FROM: Geoffrey E. Grant, Director, DRP */RA/*  
SUBJECT: MINUTES OF INTERNAL MEETING OF THE DONALD C. COOK  
NUCLEAR PLANT MANUAL CHAPTER 0350 PANEL

The Donald C. Cook Nuclear Plant Manual Chapter 0350 Panel charter was announced on April 17, 1998, and most recently revised on October 4, 2000. These internal meetings are used to discuss significant technical and performance issues, NRC regulatory approach, and inspection resources and priorities. Attached for your information are the minutes from the internal meetings of the Inspection Manual Chapter 0350 Restart Panel held on December 5, 7, and 8, 2000.

Docket Nos. 50-315; 50-316

Attachment: As stated

cc w/att: T. Bergman, NRR  
S. Singh Bajwa, NRR  
C. Craig, NRR  
J. Stang, NRR  
J. Thompson, NRR  
J. Grobe, RIII  
G. Grant, RIII  
A. Vogel, RIII  
M. Holmberg, RIII  
B. Bartlett, RIII  
D. Passehl, RIII  
K. Coyne, RIII  
J. Maynen, RIII  
R. Walton, RIII  
Docket Files

DOCUMENT NAME: G:\cook\dcc1205&07&082000.mtgsum.wpd

To receive a copy of this document, indicate in the box: "C" = Copy without enclosure "E" = Copy with enclosure "N" = No copy

OFFICE	RIII	E	RIII	N	RIII			
NAME	Veget/co		Bajwa		Grant			
DATE	12/13/00		12/13/00		12/14/00			

**OFFICIAL RECORD COPY**

MEETING MINUTES: Internal MC 0350 Restart Panel Meeting  
on the D. C. Cook Nuclear Plant

DATES: December 5, 7, and 8, 2000

**ATTENDEES:**

S. Bajwa	J. Lamb
B. Bartlett	J. Maynen (December 5 )
K. Coyne	D. Passehl (December 5 and 8)
G. Grant	J. Stang (December 5)
M. Holmberg (December 5 )	A. Vogel
	K. Coyne

Discussion Topics:

1. *Plant Status and Inspector Insights*

The Senior Resident Inspector provided a summary of plant activities. Unit 2 continues to operate at full power with no significant equipment problems. Unit 1 continues to make progress toward restart. The licensee is moving forward with preparations for Mode 4 (Hot Shutdown). Major activities ongoing include surveillance testing, containment cleanup, and documentation closure. In addition, the Restart Readiness Assessment Team Leader updated the Panel on the status of the ongoing inspection, including a summary of findings, and observations. On December 7, 2000, the Senior Resident Inspector reported containment cleanup activities had been completed and Unit 1 entered Operational Mode 4 at 6:18 a.m.

2. *Discuss Restart Action Matrix (RAM)*

The Panel reviewed and discussed the status of items listed on the Unit 1 RAM. For each RAM item, inspectors or NRR staff members presented to the panel their assessment of associated issues and made recommendations to the panel. The Panel approved closure of the following Unit 1 RAM Item on December 5, 2000:

- Item C.4.h, Effectiveness of the plant maintenance program

The Panel approved closure of the following Unit 1 RAM Item on December 7, 2000:

- Item C.4.j, Adequacy of Plant Housekeeping and Equipment Storage

The Panel approved closure of the following Unit 1 RAM Item on December 8, 2000:

- Item C.3.3.e, Assessment of plant staff performance during restart. Sustained control room observations by NRC personnel.

Closure documentation for RAM items C.4.h, C.4.j, and C.3.3.e will be provided in NRC Inspection Report 50-315/2000023 - Unit 1 Restart Readiness Team Inspection.

3. *Discuss Closure of Restart Action Matrix.*

On December 8, 2000, the Panel concluded that all issues related to the Unit 1 Restart Action Matrix had been sufficiently addressed by the licensee. The panel members reviewed and approved a memorandum from the MC 0350 Chairman to the Regional Administrator documenting the closure of the Restart Action Matrix. The panel discussed notification requirements following Regional Administrator approval of the panels recommendations.

4. *Other.*

The Restart Action Matrix is attached.

## Attachment

## D. C. Cook Restart Action Matrix Unit 1

December 8, 2000

Item No.	Description	NRC Lead	Inspection Procedure	References	Documentation	ECD	Status
<b>Inspection Report References</b>							
Notes: ECD Estimated Completion Date (Present to IMC 0350 Panel) NRR NRC Office of Nuclear Reactor Regulation RRATI Restart Readiness Assessment Team Inspection SER Safety Evaluation Report SRI Senior Resident Inspector UCS Union of Concerned Scientists  IR 2000021 - Biennial Permanent Mods & Annual 50.59 Insp 11/06/00 to 11/17/00 IR 2000022 - Resident Inspector Report 10/11/00 to 11/11/00 IR 2000023 - Unit 1 Restart Readiness Assessment Team Inspection 11/27/00 to 12/01/00 IR 2000025 - Resident Inspector Report 11/12/00 to 12/31/00							
<b>Restart Issues</b>							
<b>1. Ice Condenser Operability</b>							
1.1	Unit 1 ice condenser restoration - Observe ice condenser ice load & surveillance testing	SRI	IP 71111.22 (Surveillance Testing)	LER 315/2000-001-00, Stress Loads for the Ice Condenser Basket Assembly Greater Than Allowed by Safety Analysis Report  IR 99026	IR 2000022 (10/11/00 to 11/11/00)	11/06/00	Closed  IR 2000022 (Pending)
<b>2. Containment Operability</b>							
2.1	Evaluate modifications to the Unit 1 recirculation sump to address previous deficiencies with inadequate inventory, dead ended compartments and sump venting.	Biennial Permanent Mods & Annual 50.59 Insp	71111.17 (Permanent Plant Modifications)	IR 99029	IR 2000021 (11/06/00 to 11/17/00)	11/21/00	Closed  IR 2000021 (Pending)
2.2	Confirm removal of fibrous material in the Unit 1 Containment that could clog the recirculation sump.	SRI	71111.20 (Refueling and Outage Activities)	IR 2000016	IR 2000023 (11/27/00 to 12/01/00)	11/21/00	Closed  IR 2000023 (Pending)

Attachment

Item No.	Description	NRC Lead	Inspection Procedure	References	Documentation	ECD	Status
2.3	Evaluate Licensee Corrective Actions for Containment Internal Structural Walls	SRI  NRR	71111.20 (Refueling and Outage Activities)	LER 316/2000-003-00, Containment Internal Concrete Structures Do Not Meet Design Load Margins  0350 Mtg. Minutes dtd. 06/12/00	IR 2000023 (11/27/00 to 12/01/00)  Panel Internal Meeting Minutes	11/21/00 (SRI)  11/28/00 (NRR)	Closed  IR 2000023 (Pending)
<b>3. Valve Operability</b>							
3.1	Evaluate modifications completed to resolve operability of the Unit 1 MOVs	Biennial Permanent Mods & Annual 50.59 Insp	71111.17 (Permanent Plant Modifications)	LER 315/1999-031-00, Interim - Valves Required to Operate Post-Accident Could Fail to Open Due to Pressure Locking/Thermal Binding  IR 2000002	IR 2000021 (11/06/00 to 11/17/00)	11/28/00	Closed  IR 2000021 (Pending)
3.2	Evaluate Modifications Completed to Address Unit 1 Compressed Air System Operability	Biennial Permanent Mods & Annual 50.59 Insp	71111.17 (Permanent Plant Modifications)	IR 99029	IR 2000021 (11/06/00 to 11/17/00)	11/21/00	Closed  IR 2000021 (Pending)
<b>4.. Auxiliary Feedwater Operability</b>							
4.1	Evaluate modifications completed to resolve operability of the AFW system, associated with postulated high energy line breaks.	Biennial Permanent Mods & Annual 50.59 Insp)	71111.17 (Permanent Plant Modifications)	LER 315/1999-026-00, High Energy Line Break Programmatic Inadequacies Result in Unanalyzed Conditions  IR 2000007	IR 2000021 (11/06/00 to 11/17/00)	11/21/00	Closed  IR 2000021 (Pending)
<b>5. Electrical System Operability</b>							
5.1	Evaluate modifications completed to resolve the Unit 1 electrical system fuse and breaker coordination.	Biennial Permanent Mods & Annual 50.59 Insp	71111.17 (Permanent Plant Modifications)	IR 2000007	IR 2000021 (11/06/00 to 11/17/00)	11/21/00	Closed  IR 2000021 (Pending)
<b>6. Emergency Core Cooling System Operability</b>							
6.1	Evaluate setpoint changes for the Unit 1 RWST Level to account for measurement error and instrument uncertainties	Biennial Permanent Mods & Annual 50.59 Insp	71111.17 (Permanent Plant Modifications)	IR 2000007	IR 2000021 (11/06/00 to 11/17/00)	11/21/00	Closed  IR 2000021 (Pending)

Attachment

Item No.	Description	NRC Lead	Inspection Procedure	References	Documentation	ECD	Status
<b>7. Licensing Basis Control Program</b>							
7.1	Evaluate licensing basis program controls for safety reviews in accordance with 10 CFR 50.59.	Biennial Permanent Mods & Annual 50.59 Insp	71111.02 (Evaluation of Changes, Tests, or Experiments)	IR 99023	IR 2000021 (11/06/00 to 11/17/00)	11/21/00	Closed IR 2000021 (Pending)
<b>8. Licensing Issues, Amendments, Unreviewed Safety Questions</b>							
8.1	Reconstitution of Assumptions and Methodology for Transient Mass Distribution (TMD) Sub-compartment Analysis and Containment Sub-compartment Structural Issues	NRR	N/A		11/28/00 NRR Evaluation Issued	11/28/00	Closed 0350 Mtg. 11/28/00
8.2	Tornado Missile Licensing Bases Change - Use of approved PRA Techniques	NRR	N/A		License Amendment 247 (U1) 228 (U2)	11/21/00	Closed 0350 Mtg. 11/21/00
8.3	Pressurizer Heater Surveillance Change TS 4.4.2	NRR	N/A		License Amendment 246 (U1) 227 (U2)	10/20/00	Closed 0350 Mtg. 10/24/00
8.4	NRC Review of Leak Before Break Methodology for the Pressurizer Surge Line	NRR	N/A		11/08/00 SER Issued	11/14/00	Closed 0350 Mtg. 11/14/00
8.5	ILRT TS Change and Exemption	NRR	N/A		License Amendment 248 (U1) 229 (U2)	11/21/00	Closed 0350 Mtg. 11/21/00
8.6	QAPD Cad-Weld Commitment	NRR	N/A		11/07/00 SER Issued	11/14/00	Closed 0350 Mtg. 11/14/00
8.7	USQ on Methodology Changes (modeling of operator actions and use of actual tube flows) to Tube Rupture Analysis. (SG Overfill)	NRR	N/A		IR 2000023 (11/27/00 to 12/01/00)	11/21/00	Closed IR 2000023 (Pending)
8.8	USQ on HELB - Licensing Basis Change Request for 10D on Plume and SRP, MEB 3-1 exclusion areas. Tac no. MA 8893/94	NRR	N/A		License Amendment 249 (U1) 230 (U2)	11/21/00	Closed 0350 Mtg. 11/21/00
8.9	Technical Specification Change Request Valve Position for Automatic Valves in the Auxiliary Feedwater System	NRR	N/A		License Amendment 250 (U1) 231 (U2)	11/29/00	Closed 0350 Mtg. 12/01/00

Attachment

Item No.	Description	NRC Lead	Inspection Procedure	References	Documentation	ECD	Status
<b>Guidelines for Restart Approval</b>							
C.3.3	Operator Issues						
C.3.3.d	Effectiveness of restart simulator/required training necessary to re-familiarize personnel with operating conditions.	SRI	71111.11 (Licensed Operator Requalification)		IR 2000023 (11/27/00 to 12/01/00)	11/28/00	Closed IR 2000023 (Pending)
C.3.3.e	Assessment of plant staff performance during restart. Sustained control room observations by NRC personnel	RRATI	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	12/08/00	Closed IR 2000023 (Pending)
C.4	Assessment of Physical Readiness of the Plant						
C.4.a	Operability of Technical Specification systems, specifically those with identified operational, design, and maintenance issues.	SRI RRATI	71111.15 (Operability Evaluations)		IR 2000023 (11/27/00 to 12/01/00)	12/01/00	Closed IR 2000023 (Pending)
C.4.b	Operability of required secondary and support systems.	SRI RRATI	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	12/01/00	Closed IR 2000023 (Pending)
C.4.c	Results of pre-startup testing.	SRI	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	12/01/00	Closed IR 2000023 (Pending)
C.4.d	Adequacy of system lineups.	RRATI SRI	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	12/01/00	Closed IR 2000023 (Pending)
C.4.e	Adequacy of surveillance tests/test program.	SRI	IP 71111.22 (Surveillance Testing)	LER 50-315/99003-00, Control Room pressurization Surveillance Test Does Not Test System In Normal Operating Condition	IR 2000023 (11/27/00 to 12/01/00)	12/01/00	Closed IR 2000023 (Pending)

Attachment

Item No.	Description	NRC Lead	Inspection Procedure	References	Documentation	ECD	Status
C.4.f	Significant hardware issues resolved (i.e., equipment with poor material condition, equipment aging, modifications).	SRI  Biennial Permanent Mods & Annual 50.59 Insp	71111.17 (Permanent Plant Modifications)	LER 50-315/99011-01, Air System for Emergency Diesel Generators May Not Support Long Term Operability Due to Original Design Error	IR 2000023 (11/27/00 to 12/01/00)	11/28/00	Closed  IR 2000023 (Pending)
C.4.g	Adequacy of the power ascension testing program.	SRI	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	11/28/00	Closed  IR 2000023 (Pending)
C.4.h	Effectiveness of the plant maintenance program.	SRI	71111.12 (Maintenance Rule Implementation)		IR 2000023 (11/27/00 to 12/01/00)	12/05/00	Closed  IR 2000023 (Pending)
C.4.i	Maintenance backlog managed and impact on operation assessed.	SRI	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	11/28/00	Closed  IR 2000023 (Pending)
C.4.j	Adequacy of plant housekeeping and equipment storage.	SRI	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	12/07/00	Closed  IR 2000023 (Pending)
C.5	Assessment of Compliance with Regulatory Requirements						
C.5.a	Applicable licensee amendments have been issued.	NRR	IMC 0350		Memo from NRR to IMC 0350 Panel	12/01/00	Closed 0350 Mtg. 12/01/00
C.5.b	Applicable exemptions have been granted.	NRR	IMC 0350		Memo from NRR to IMC 0350 Panel	12/01/00	Closed 0350 Mtg. 11/28/00
C.5.c	Applicable reliefs have been granted.	NRR	IMC 0350		Memo from NRR to IMC 0350 Panel	12/01/00	Closed 0350 Mtg. 11/28/00
C.5.d	Imposed orders have been modified or rescinded.	NRR	IMC 0350		Memo from NRR to IMC 0350 Panel	12/01/00	Closed 0350 Mtg. 11/28/00
C.5.e	Confirmatory Action Letter conditions have been satisfied.	Veget	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	11/21/00	Closed  IR 2000023 (Pending)

Attachment

Item No.	Description	NRC Lead	Inspection Procedure	References	Documentation	ECD	Status
C.5.f	Significant enforcement issues have been resolved.	Vegel	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	11/21/00	Closed IR 2000023 (Pending)
C.5.g	Allegations have been appropriately addressed.	Vegel	IMC 0350		IR 2000023 (11/27/00 to 12/01/00)	11/21/00	Closed IR 2000023 (Pending)
C.5.h	10 CFR 2.206 Petitions have been appropriately addressed.	NRR	IMC 0350		Memo from NRR to IMC 0350 Panel	12/01/00	Closed 0350 Mtg. 11/28/00
C.6	Coordination with Interested Agencies and Parties						
C.6.e.1	Appropriate state and local officials -FEMA	RIII State Liaison Officer	IMC 0350		Memo to IMC 0350 Panel		Closed 0350 Mtg. 11/28/00
C.6.e.2	Appropriate state and local officials -Congressional Affairs	NRR RIII PAO	IMC 0350		OCA Notified; RIII PAO to provide press release to OCA		Open
C.6.e.3	Appropriate state and local officials -Inform Stakeholders (UCS)	NRR	IMC 0350		Memo to IMC 0350 Panel		Closed 0350 Mtg. 11/28/00
C.6.f	Appropriate public interest groups.	Public Affairs	IMC 0350		N/A		Open
C.6.g	Local news media.	Public Affairs	IMC 0350		N/A		Open