



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

February 18, 2000

Mr. R. P. Powers
Senior Vice President
Nuclear Generation Group
American Electric Power Company
500 Circle Drive
Buchanan, MI 49107-1395

SUBJECT: SUMMARY OF THE JANUARY 6, 2000, D. C. COOK PUBLIC MEETING

Dear Mr. Powers:

On January 6, 2000, the Nuclear Regulatory Commission (NRC) held a public meeting at the D. C. Cook Training Center in Bridgman, Michigan. The meeting was held to discuss the status of the D. C. Cook restart and NRC Manual Chapter (MC) 0350 oversight inspections. Formal presentations were made by the Indiana Michigan Power Company (licensee) staff. Enclosure 1 is a list of attendees for the meeting, and a copy of the slides used by the licensee participated as Enclosure 2.

The MC 0350 public meetings between the licensee and the NRC staff are designed to provide a mechanism for the exchange of information and a update on the status of the readiness of the units at D. C. Cook to restart. High-level management from the NRC and the licensee participated in the meetings.

The licensee's presentations at the January 6, 2000, meeting provided the status of the restart action plan, as well as the status of several performance areas including operations readiness and regulatory activities.

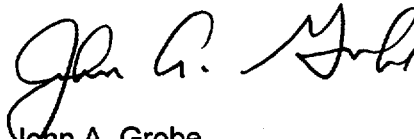
The D. C. Cook Operations Manager described to the NRC staff the actions that had been taken or will be taken to prepare operators for restart. The licensee and the NRC staff held discussions on training being provided to operators and crew composition during Unit 2 restart. The licensee also presented the status of system turnover to operations, with 16 systems having been completed.

The licensee stated that significant progress has been made in resolving restart issues including NRC Manual Chapter 0350 Case Specific Check List Items. However, due to the recent holidays and slower progress than expected in completing some work activities, the scheduled restart date was expected to slip. Currently, the schedule was under evaluation, with April 1, 2000, being a likely date that the Unit 2 plant would be placed on line.

Following the licensee's presentation, the NRC staff described the regulatory process for coverage of the restart, and provided a summary of the results of six recent inspections. Results from the following inspections were discussed: Surveillance/Emergency Operating Procedure, Programmatic Readiness, Safety Evaluation, Instrument Uncertainty, Ice

Condenser, and the Engineering and Corrective Actions Team inspection. Based on these inspections, a majority of the Manual Chapter 0350 Case Specific Checklist Items and Confirmatory Action Letter Items were being considered for closure.

Sincerely,



John A. Grobe
Division of Reactor Safety

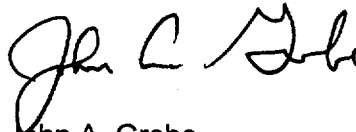
Enclosures: 1. List of Meeting Attendees
2. Licensee's Slide Presentation

Docket Nos. 50-315; 50-316
License Nos. DPR-58; DPR-74

cc w/encl: A. C. Bakken III, Site Vice President
J. Pollock, Plant Manager
M. Rencheck, Vice President, Nuclear Engineering
R. Whale, Michigan Public Service Commission
Michigan Department of Environmental Quality
Emergency Management Division
MI Department of State Police
D. Lochbaum, Union of Concerned Scientists

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- A. C. Bakken III, Site Vice President
 - J. Pollock, Plant Manager
 - M. Rencheck, Vice President, Nuclear Engineering
 - R. Whale, Michigan Public Service Commission
 - Michigan Department of Environmental Quality
 - Emergency Management Division
 - MI Department of State Police
 - D. Lochbaum, Union of Concerned Scientists

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DOCUMENT NAME: G:\0350 Public Meetings\0350-01-06-00 minutes.wpd

To receive a copy of this document, indicate in the box "C" = Copy w/o att/encl "E" = Copy w/att/encl "N" = No copy

OFFICE	RIII	E	RIII	N	RIII	E	RIII	E	RIII
NAME	Passehl/dp	AV for	Vegel AV for		Craig AV for	AV for	Shear AV for		Globe
DATE	01/13/00		01/10/00		01/16/00		02/18/00		02/14/00

OFFICIAL RECORD COPY

* Recd comments 2/10/00 via phone conversation
changes made.

R. Powers

-3-

Distribution:

RRB1 (E-Mail)

WES (E-Mail)

JFS2 (Project Mgr.) (E-Mail)

J. Caldwell, RIII w/encl

B. Clayton, RIII w/encl

SRI D. C. Cook w/encl

DRP w/encl

DRS w/encl

RIII PRR w/encl

PUBLIC IE-01 w/encl

Docket File w/encl

GREENS

not found

D. C. Cook Nuclear Plant

January 6, 2000 NRC 0350 Restart Panel Meeting

Name	Organization	Phone Number
Mike Rencheck	Engineering	616-466-2499
Robert Godley	Director Reg Affairs	616-466-2698
Bob Powers	Senior Vice President	616-466-2400
Larry Weber	Ops AEP	616-466-2443
Joe Pollock	Plant Manager	616-466-2424
Chris Bakken	Site Vice President	616-466-2409
Bruce Bartlett	USNRC	616-465-6775
John Zwolinski	NRR-DLPM	301-415-1453
Sam Collins	NRR/NRC	301-415-1270
Jack Grobe	NRC/Region III	630-829-9700
S. Singh Bajwa	NRC/NRR	301-415-3037
Claudia Craig	NRC/NRR	301-415-2429
John Stang	NRC/NRR	301-415-1345
Joseph Gallo	Gallo & Ross	202-842-0417
Dan Salter	HGP, Inc	864-370-0213
Tom Quaka	AEP- Engineering	616-466-2701
Gary L. Smith	Ops Staff/ DE&SR	616-466-2562
Tric Commons	AEP - Operations	616-428-2708
Brad Smalldridge	AEP - Operations	616-428-2708
Bill Schalk	AEP	465-6101
Lee DeLorme	The Delta Group	428-1103
Greg Smith	Operations	1045
Gary Shear	NRC	630-829-9876
Jim Dyer	NRC, RIII	630-829-9657
A. Vogel	NRC, RIII	630-829-9620
Kevin Coyne	NRC, Resident Inspector	616-465-6775
David Kunsemiller	AEP	616-466-2405
Ron Gaston	AEP, Reg Affairs	616-465-5901 ext. 1366
Lou Brandon	MDEQ, Radiation Safety	517-335-8191
Diane Fitzgerald	AEP IN/MI State Office	616-921-1672
John Sampson	AEP IN/MI State Office	619-425-2101
Roger Rickman	AEPNG	616-465-5901 ext. 3079
Mike Horvath	AEP, ECP Manager	616-466-3300
Jim Labis	AEP, ECP Investigator	616-466-3435

David W. Jenkins	AEP, Legal	616-466-2790
Gerald E. Vaughn	GSW Nuclear	361-881-5301
Rich Whale	MPSC	517-241-6074

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Every step of the way.*
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Enclosure 2

American Electric Power

Meeting with

Nuclear Regulatory Commission

Restarting D. C. Cook
January 6, 2000

AEP **AMERICAN[®]**
ELECTRIC
POWER

Agenda

- | | |
|------------------------------------|-----------------|
| ■ Introduction | Bob Powers |
| ■ Operations Readiness & Schedule | Larry Weber |
| ■ Regulatory Activities | Robert Godley |
| ■ Conclusion | Bob Powers |
| ■ MC 0350 Panel Chairman's Remarks | Jack Grobe, NRC |

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Operations Readiness & Schedule

Larry Weber

Operations Manager

Operations Ready to Support Restart

■ **Accomplishments:**

- **Core Safety is THE Priority**
- **Taking Leadership Role**
- **Operations owns Training**
- **Culture change Underway**

■ **Working Leadership Plan to Achieve Long-term Vision**

■ **Shift Crews and Management Oversight Aligned**

◀ *Operations Stands for Safety* ▶

Crew Composition During Unit 2 Restart

UNIT 2			COMMON	UNIT 1		
POSITION	TECH. SPEC. RQD.	ACTUAL	POSITION	TECH. SPEC. RQD.	ACTUAL	POSITION
	1*	1*	Shift Manager (SRO)	1*	1*	
	0	1*	Asst. Shift Manager (SRO)	0	1*	
	1*	1*	Shift Technical Advisor (STA)	0	1*	
Unit Supervisor (SRO)	1	1#		0	1	Unit Supervisor (SRO)
Reactor Operator (RO)	2	3		1	1	Reactor Operator (RO)
Non-Licensed Operators (NLO)	2	5		1	3	Non-Licensed Operators (NLO)

* Shared between Units

Will add additional SRO for certain complex evolutions

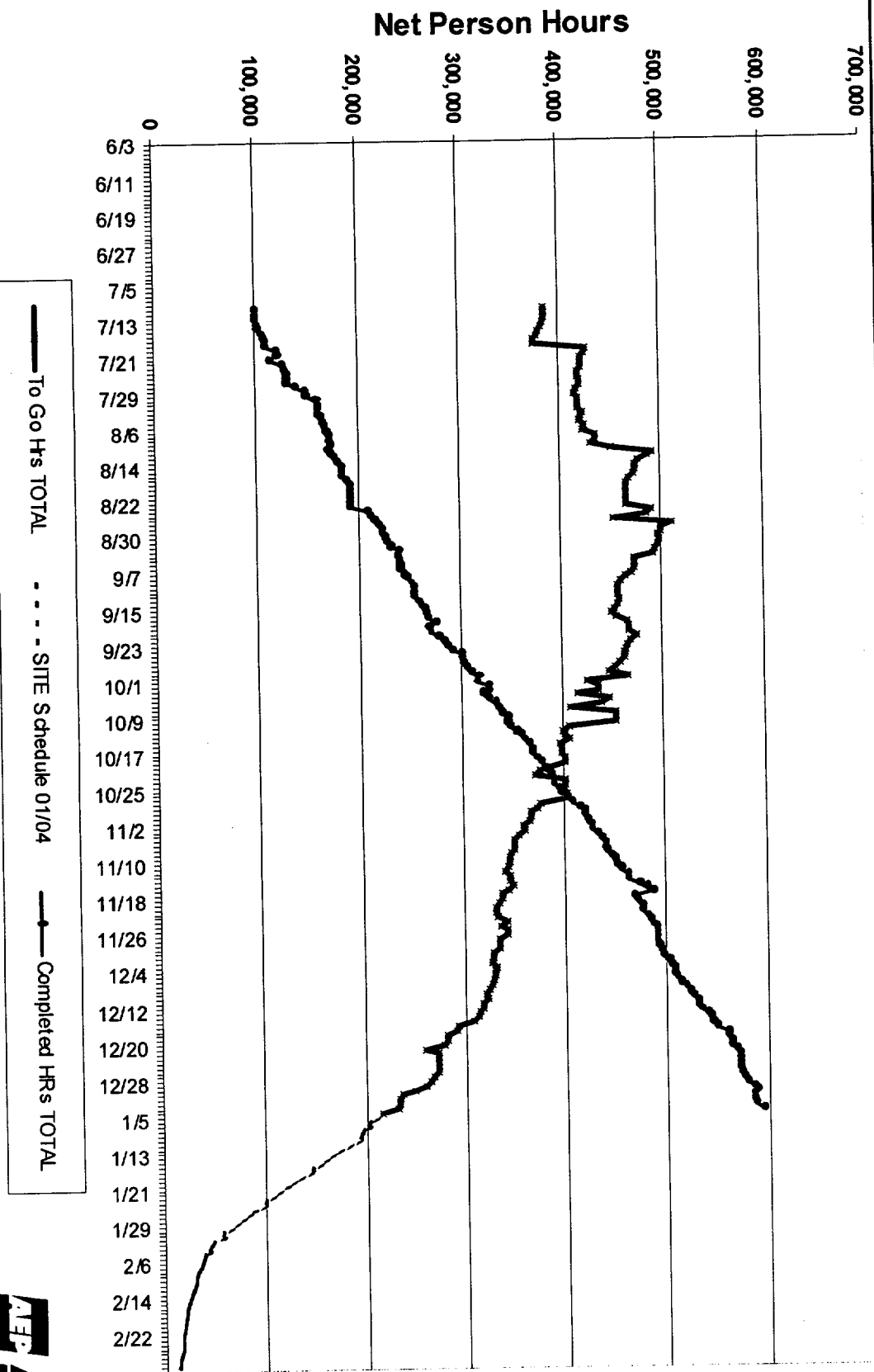
Additional Unit 2 Restart Support Personnel:

- Shift Plant Manager
- Shift Engineering Manager
- Start-up Test Engineer

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Schedule Progress

Schedule of Person-Hour Usage



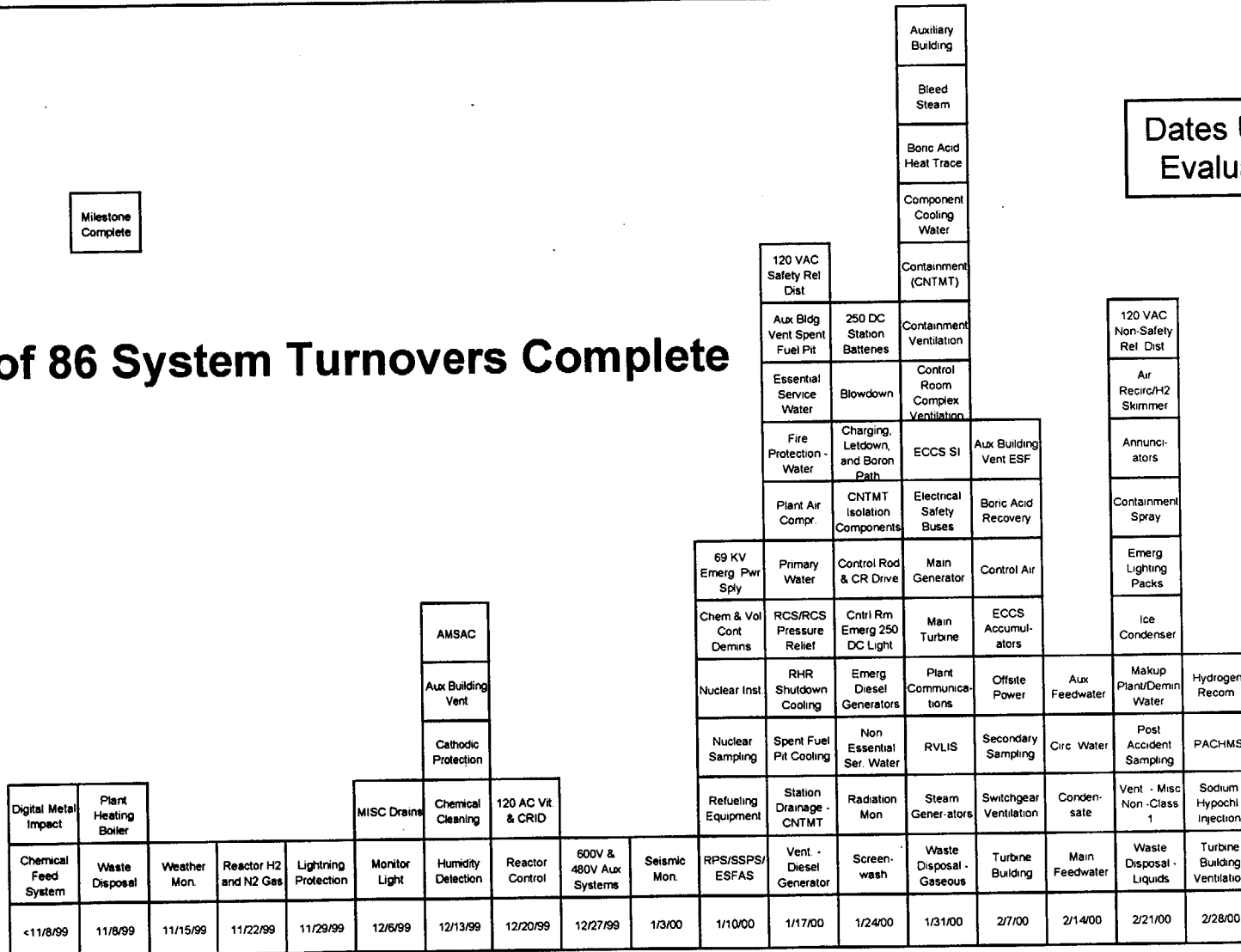
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System Turnover to Operations Complete Milestones

16 of 86 System Turnovers Complete

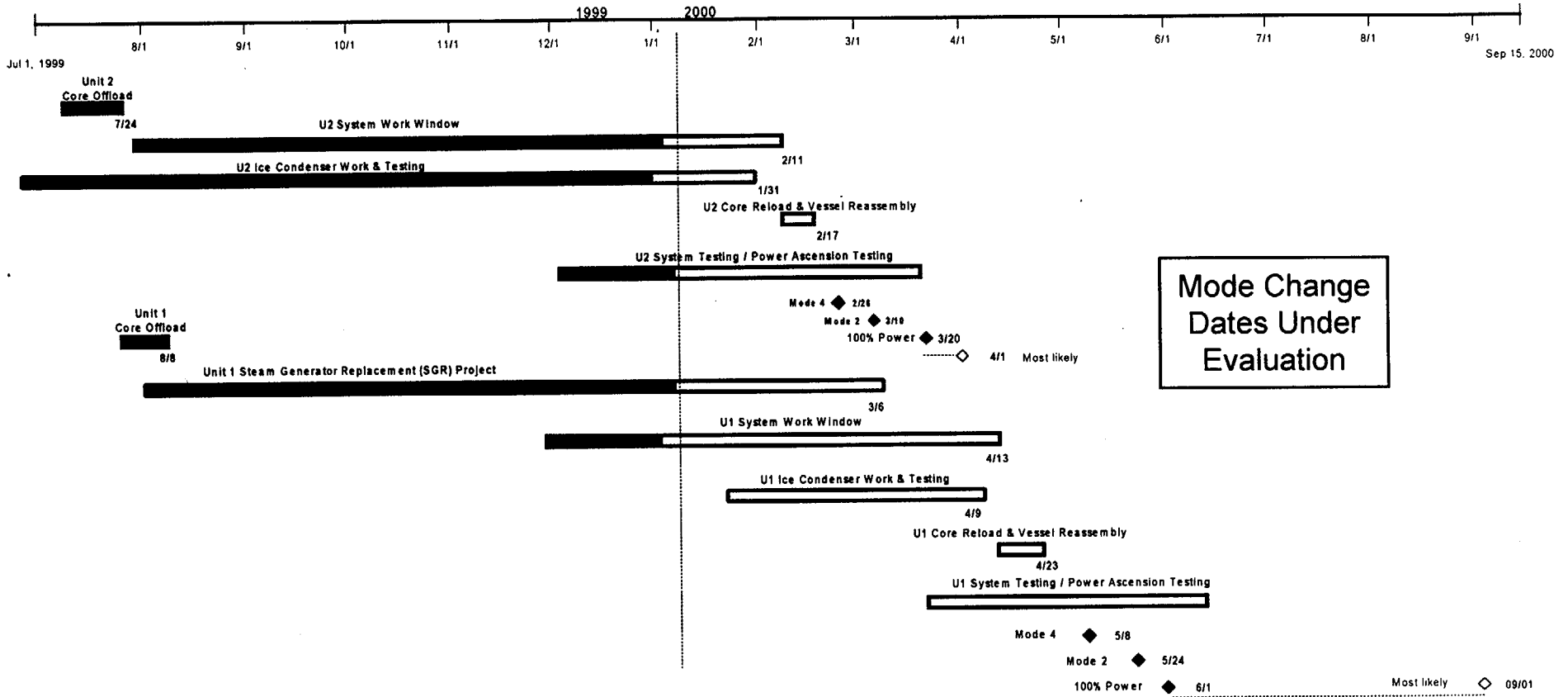
Milestone Complete

Dates Under Evaluation



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DC Cook Internal Restart Schedule



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Regulatory Activities

Robert Godley

Director - Regulatory Affairs

RESTART ACTION PLAN (RAP) PROGRESS AND PERFORMANCE CHART

1200 1/6/00

0350 Item	RAP Development & Approval						U2 RAP Work Activity Progress				U2 RAP Closure Packages				PA	NRC Inspection					
	Accountable Managers	Condition Report (CR)		Restart Action Plan (RAP)			SMRT Approval	In Integrated Schedule?		Scheduled Activities % Complete				CPs with Compliance/CPs Total	Closure Package (CP) % Complete				Assessment Completed	Inspection Date(s)	IR Nos.
		RCA	CARB	Owner Org	Reg Compl	SRRB		Yes	No	0	25	50	75		100	0	25	50			
1 A - E	D. Crouch / P. Gamber	98-1181 99-0930	7/14/99	10/4/99	10/6/99	10/7/99	11/2/99	<input type="checkbox"/>	<input type="checkbox"/>	85				42/54	78				11/24/99	12/17/99	99033
2 A	M. Danford / C. Hutchinson	97-3360	9/15/99	9/17/99	9/17/99	9/17/99	9/22/99	<input type="checkbox"/>	<input type="checkbox"/>	100				8/8	100				8/10/99	11/15/99	99024 Closed
B		97-3360	9/15/99	9/17/99	9/17/99	9/17/99	9/22/99	<input type="checkbox"/>	<input type="checkbox"/>	100					100				11/15/99	12/17/99	99029
3 A	S. Farlow / W. Elfert	99-0594	9/8/99	10/12/99	10/12/99	10/13/99	10/15/99	<input type="checkbox"/>	<input type="checkbox"/>	90				28/33	88				11/15/99	12/17/99	99029
B	D. Garner / R. Grumbir	98-3281	10/8/99	9/18/99	9/19/99	9/17/99	10/19/99	<input type="checkbox"/>	<input type="checkbox"/>	100				21/21	100				11/15/99	12/17/99	99029
C	S. Farlow / J. Kovarik	97-2312	9/15/99	9/23/99	9/24/99	9/24/99	11/9/99	<input type="checkbox"/>	<input type="checkbox"/>	95				12/12	100				11/3/99	11/19/99	99032
D	S. Farlow / K. Green	98-7575	7/29/99	10/19/99	10/22/99	10/19/99	10/23/99	<input type="checkbox"/>	<input type="checkbox"/>	100				6/6	100				11/15/99	12/17/99	99029
4 A & B	R. Godley / R. Castel	98-5338	9/25/99	9/21/99	9/20/99	9/21/99	9/21/99	<input type="checkbox"/>	<input type="checkbox"/>	99				18/18	81				9/3/99	9/13/99	99023 Closed
5	B. Wallace / W. Nelson	98-5887	4/30/99	7/30/99	8/3/99	8/25/99	N/A	<input type="checkbox"/>	<input type="checkbox"/>	100					100				N/A	11/16/99	99023 Closed
6	D. Hefer / E. Young J. Allard / P. Schoepf	98-1130 98-7848	9/30/99	9/22/99	9/22/99	9/22/99	11/5/99	<input type="checkbox"/>	<input type="checkbox"/>	81				32/58	50				1/27/99	12/31/99	99026
7	K. Riches / J. Pollock / J. Gelston	N/A	N/A	9/24/99	9/24/99	9/24/99	11/15/99	<input type="checkbox"/>	<input type="checkbox"/>	95				0/1	0 No "Restart Required" Action Items				11/9/99	11/19/99	99032
8	L. Thornberry / J. Sankey	98-1130 98-7848	11/11/99	9/27/99	9/28/99	11/18/99	11/24/99	<input type="checkbox"/>	<input type="checkbox"/>	85				18/30	53				11/28/99	12/17/99	99029
9	L. Thornberry / J. Sankey	98-1130 98-7848	10/14/99	10/13/99	10/13/99	10/14/99	10/27/99	<input type="checkbox"/>	<input type="checkbox"/>	87				4/8	44				11/15/99	12/17/99	99029
10	L. Thornberry / J. Gebbe	98-1226	10/5/99	8/5/99	9/10/99	10/5/99	11/1/99	<input type="checkbox"/>	<input type="checkbox"/>	89				4/8	50				11/15/99	12/17/99	99029
11	L. Thornberry / J. Gebbe	97-3429	9/15/99	9/23/99	9/23/99	9/23/99	10/5/99	<input type="checkbox"/>	<input type="checkbox"/>	100				18/18	100				10/1/99	12/17/99	99029
12	J. Glass / S. Chakrabarti	99-18478	10/7/99	10/7/99	10/8/99	10/8/99	11/8/99	<input type="checkbox"/>	<input type="checkbox"/>	95				11/11	100				11/22/99	12/31/99	99026
13 A	S. Lacey / L. Thornberry	N/A	N/A	8/21/99	8/21/99	8/29/99	10/15/99	<input type="checkbox"/>	<input type="checkbox"/>	80				9/12	59				9/23/99	9/17/99	99002, 3, 6, 7 Closed
B	System and Containment Final Readiness Review of 13A						<input type="checkbox"/>	<input type="checkbox"/>	80									< 1/11/00	1/25 - 1/30		
14 A	G. Harland / D. Crouch	N/A	N/A	9/2/99	9/2/99	9/3/99	10/5/99	<input type="checkbox"/>	<input type="checkbox"/>	90				10/16	66				9/24/99	9/17/99	99013 Closed
B	R. Thiele / J. Weidner	99-13884	11/23/99	RST-1999-009-MNT	10/21/99	11/30/99	11/30/99	<input type="checkbox"/>	<input type="checkbox"/>	90									11/29/99	12/17/99	99034
C	T. Camilleri / M. Finlay	99-13897	11/23/99	SA-1999-003/014-ENP	11/24/99	12/11/99	12/11/99	<input type="checkbox"/>	<input type="checkbox"/>	90									12/14/99	12/17/99	99034
D	R. Rickman / L. Weber	99-1657	9/11/99	RST-1999-005-OPS	9/10/99	11/4/99	11/4/99	<input type="checkbox"/>	<input type="checkbox"/>	90									11/22/99	12/17/99	99033
E	J. Pollock / K. Riches	N/A	N/A	SA-1999-008-MED	11/15/99	12/01/99	12/01/99	<input type="checkbox"/>	<input type="checkbox"/>	90									11/15/99	12/17/99	99029
F	T. McCool / L. Weber	99-09338	11/19/99	RST-1999-007-OPS	9/22/99	12/01/99	12/01/99	<input type="checkbox"/>	<input type="checkbox"/>	90									12/2/99	12/17/99	99034
G	G. Harland / D. Crouch	Programmatic Final Readiness Review of 14A						<input type="checkbox"/>	<input type="checkbox"/>	90									< 1/11/00	1/25 - 1/30	
15 A	T. Noonan / L. Weber	Functional Area Final Readiness Review of 15A						<input type="checkbox"/>	<input type="checkbox"/>	90				8/12	75				9/24/99	9/17/99	99013 Closed
B								<input type="checkbox"/>	<input type="checkbox"/>	90									< 1/11/00	2/1 - 2/4	
16	J. Kinsey / R. Withrow	99-6150	9/17/99	9/9/99	9/13/99	12/9/99	12/22/99	<input type="checkbox"/>	<input type="checkbox"/>	68				2/35					< 1/11/00	1/10 - 1/14	

- Approved/Complete
 - Approved with Comments
 - Scheduled Review Date
 - Tabled / Overdue
 GP - Completed as Green Package
 < - Complete Before This Date
 - Closed Pending IR
 - Inspection in Progress

% of Closure Packages approved by Compliance: 37

% of Closure Packages received by Compliance: 66

- | | | |
|--|---|---|
| <ol style="list-style-type: none"> 1. Programmatic Breakdown in Surveillance Testing <ol style="list-style-type: none"> A. Inadequate Instructions in Surveillance Tests B. Acceptance Criterion Lack Sufficient Margin to Analysis Limit C. Failure to Meet Technical Specification Requirements D. Preconditioning of Equipment Prior to Surveillance Testing E. Failure to Assess and Control the Quality of Contractors Performing Surveillance Testing 2. Corrective Action Program Breakdown 3. Programmatic Breakdown in the Maint. of the Design Basis <ol style="list-style-type: none"> A. Inadequate Design Control B. Failure to Update UFSAR C. Failure to Consider Instrument Uncertainties D. Consideration of System/Component Failure Modes | <ol style="list-style-type: none"> 4. Safety Evaluations 5. Operator Training Issues 6. Resolution of Ice Condenser Issues 7. Resolution of Non-Safety Related Cables Going to Shunt Trip Coils 8. Resolution of Hydrogen Recombiner Operability Issues 9. Resolution of Distributed Ignition Technical Specification Issue 10. Resolution of Containment Spray System Operability Issues 11. Resolution of Hydrogen Mitigation System Operability and Mat'l Condition Issues 12. Resolution of Containment Liner Pitting 13. Systems and Containment Readiness Assessments | <ol style="list-style-type: none"> 14. Programmatic Readiness Assessment <ol style="list-style-type: none"> A. Programmatic Problem Discovery B. Contractor Control Program C. Preventive Maintenance Program D. Emergency Operating Procedures Program E. Electrical Protection Coordination Including Fuse/Breaker Control Program F. Operability Determination Program G. Programmatic Final readiness Reviews 15. Functional Area Readiness Assessment 16. Resolution of Operability of MOVs in the GL 89-10 Program |
|--|---|---|

10

01/05/2000-DRAFT



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Regulatory Activities: Key License Changes

#	Subject	Unit(s)	Final Inputs to Licensing	Submittal Drafted	PORC Meeting	NSDRG Meeting	NRC Submittal Date	NRC RAI	AEP Response to RAI	NRC Approval/Concurrence Required By
1	Rod Insertion - Switchover USQ	1&2	Complete	Complete	Complete	Complete	9/17/99	10/26/99	11/10/99 11/19/99	12/23/99
2	Post Accident Containment Sump Inventory Issues (Sump Level, RWST Volume, Ice Mass & Melt Rate) - Cal Item #1	1&2	Complete	Complete	Complete	Complete	10/1/99	11/10/99	11/19/99	12/13/99
3	Containment Spray Pump/ Spray Additive Flow Surveillance Change to Standard Tech Spec	1&2	Complete	Complete	Complete	Complete	10/12/99	N/A	N/A	1/11/00
4	Accumulator Isolation Valve Breaker Rackout	1&2	Complete	Complete	Complete	Complete	11/5/99	N/A	N/A	12/23/99
5	RCS Volume - Administrative Tech Spec change eliminating RCS Volume in Section 5 using Standard Tech Spec format/methods	1&2	Complete	Complete	Complete	Complete	12/21/99	TBD	TBD	2/17/00
6	Modification of 0737 Order for Post Accident Hydrogen Monitor (currently 30 minutes)	1&2	Complete	Complete	Complete	Complete	12/22/99	TBD	TBD	1/31/00
Steam Generator Repair Project Work Activities/Issues That Require Action Prior to Restart of Unit 1										
7	Heavy Loads (SGRP)	1	Complete	Complete	Complete	Complete	9/23/99	10/18/99	11/10/99 (NRC Call 12/3/99)	12/7/99
8	RCS Chemistry Sampling in Modes 5 & 6	1&2	Complete	Complete	Complete	Complete	9/10/99	N/A	N/A	11/19/99
9	ZIRLO Fuel Cladding Amendment	1	Complete	Complete	Complete	Complete	11/3/99	N/A	N/A	2/15/00

1
1 1/6/2000



Regulatory Activities: Confirmatory Action Letter

■ AEP CAL Closure Communications:

- Initial Letter Sent October 25th**
- Final Letter Sent December 15th**

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Commission Brief Preview & Conclusion

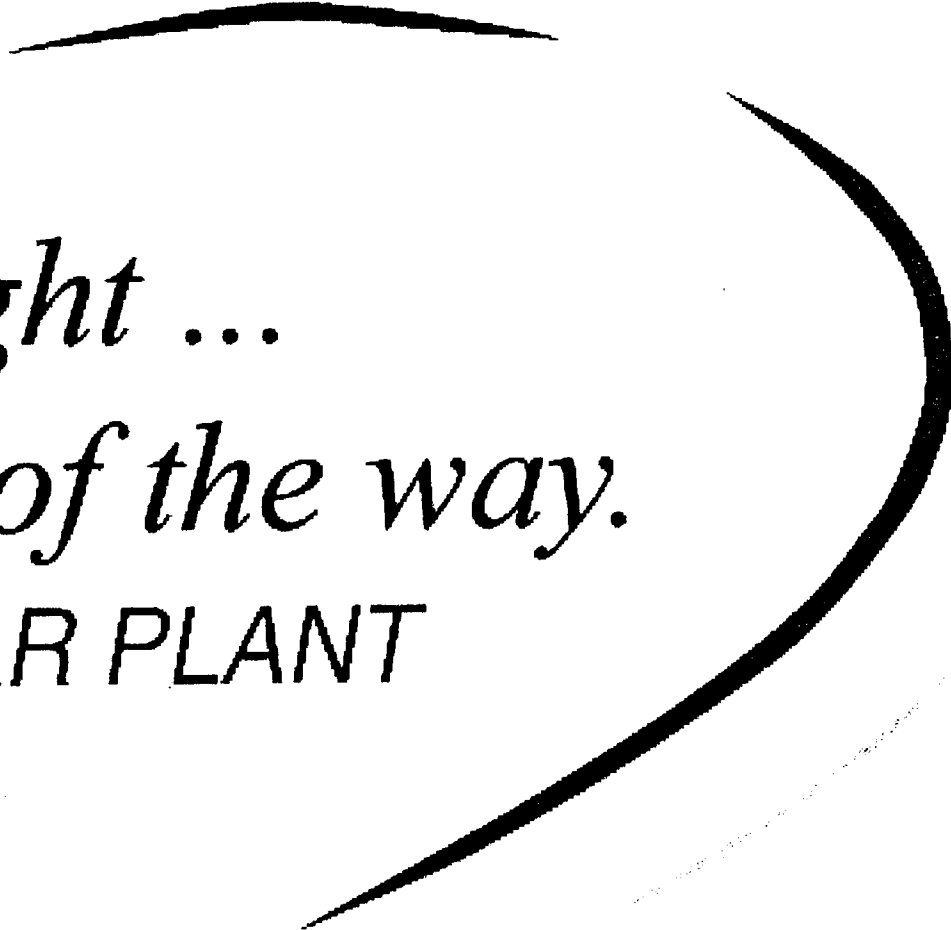
Bob Powers

**Senior Vice-President
Nuclear**

Conclusion: Challenges & Next Steps

- **Safely Completing Restart-required Work**
- **Replacing Steam Generators on Unit 1**
- **Assuring Quality Results**

**◀ We Are Doing What We
Said We Would Do ▶**



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