June 13, 2000

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

SUBJECT: CLOSURE OF NRC INSPECTION MANUAL CHAPTER 0350 RESTART ACTION PLAN FOR RESTART OF THE DONALD C. COOK (D.C. COOK) NUCLEAR PLANT - UNIT 2

Dear Mr. Powers:

This letter documents the completion of NRC actions necessary prior to restart of D.C. Cook - Unit 2 and the NRC review of specific corrective actions that your staff committed to complete prior to restarting Unit 2.

On September 9, 1997, American Electric Power shut down both units of D.C. Cook after plant staff declared the emergency core cooling systems inoperable based on findings of an NRC Architect Engineering Inspection. On September 19, 1997, NRC issued a Confirmatory Action Letter (CAL) describing your commitment to take corrective action on nine technical issues and perform an assessment to determine if the engineering deficiencies described in the CAL affected system operability of other safety-related systems. On March 7, 1998, you developed a Restart Plan which outlined the system readiness reviews, programmatic assessments, and functional area reviews that your plant staff would complete to address the CAL and other issues to ensure safe plant startup and operation. Your Restart Plan has since undergone several revisions and changes in scope and assigned responsibilities.

In April 1998, due to the identification of additional concerns regarding the ice condenser and fibrous material inside containment, and recognizing the necessary scope and depth of assessment and corrective actions, the NRC initiated focused and coordinated regulatory oversight of D.C. Cook. The NRC Region III and Office of Nuclear Reactor Regulation established an oversight panel in accordance with NRC Inspection Manual Chapter 0350, "Staff Guidelines for Restart Approval," for D.C. Cook to ensure appropriate focus was provided and resources were allocated with regard to reviewing D.C. Cook improvement initiatives. Concurrently, the NRC identified violations in the performance of test activities, the implementation of the corrective action program, the control of the facility design basis, and the conduct of safety evaluations which resulted in a Severity Level II enforcement action and a $500,000 Civil Penalty. Of greatest concern were the failure to update and maintain the design and licensing bases of the plant when plant activities altered system or equipment design and the failure to implement a corrective action program that resulted in prompt identification and resolution of safety concerns. Performance errors were also identified regarding the conduct of 10 CFR 50.59 safety evaluations, calculations, and engineering analysis.

On July 30, 1998, the NRC issued a Case Specific Checklist for D.C. Cook, which was developed in accordance with NRC Inspection Manual Chapter 0350. The Case Specific Checklist defined actions and issues that needed to be considered by the NRC in determining whether D.C. Cook implemented effective corrective actions necessary for the plant to restart. The NRC Oversight Panel verified that the issues identified in the Case Specific Checklist were included in revisions to your Restart Plan. The Case Specific Checklist was last updated on September 17, 1999, in response to NRC assessments at the D.C. Cook plant.

The NRC staff has completed its inspection and assessment activities and has evaluated the effectiveness of your staff's actions to address the issues that resulted in the plant shutdown. We also evaluated your actions to resolve the issues described in the CAL, which we enclosed in a separate letter to you dated February 2, 2000. The NRC Oversight Panel's assessment of your corrective actions was based on resident and region-based inspector observations and a number of special inspection efforts, including:

- Design Control (Inspection Report 99023)
- Corrective Action Program (Inspection Report 99024)
- Ice Condenser (Inspection Report 99026)
- Engineering Corrective Action (Inspection Report 99029)
- Instrument Uncertainty (Inspection Report 99032)
- Surveillance Testing and Emergency Operating Procedures (Inspection Report 99033)
- Programmatic Readiness (Inspection Report 99034)
- Motor Operated Valves (Inspection Report 2000002)
- Restart Readiness Assessment (Inspection Report 2000003)
- Backlog Assessment (Inspection Report 2000004)
- Engineering Followup (Inspection Report 2000007)
- Emergency Operating Procedures Program (Inspection Report 2000010)

In addition, there have been frequent public meetings between your staff and the NRC Oversight Panel, and frequent internal meetings of the NRC Oversight Panel. The results of these meetings were documented in public meeting summaries and internal NRC Oversight Panel meeting minutes, all of which have been or will be placed in the NRC Public Electronic Reading Room.

The NRC Oversight Panel has concluded that your staff's performance improvement initiatives have been sufficiently effective to support restart of D.C. Cook Unit 2. After consultation with the Executive Director for Operations and the Director, Office of Nuclear Reactor Regulation, I have determined that we have no further concerns regarding restart of D.C. Cook Unit 2. Therefore, the Inspection Manual Chapter 0350 Case Specific Checklist for D.C. Cook Unit 2 is closed. The Restart Action Matrix, which documented the actions initiated by the NRC per the Inspection Manual Chapter 0350 process, is included as Enclosure 1.

As discussed with you in our March 10, 2000, public meeting, and documented in a letter dated April 20, 2000, implementation of the revised reactor oversight process and the revised assessment process has been delayed until following restart of Unit 2. Further, the Inspection Manual Chapter 0350 Oversight Panel will continue to provide oversight of D.C. Cook through restart of Unit 1 and until sufficient operating experience has accumulated such that augmented NRC oversight through an NRC Oversight Panel is no longer necessary and NRC oversight can occur under the routine inspection program.

While the specific Restart Action Matrix issues have been adequately resolved, you remain responsible for ensuring that any other issues which may impact plant restart and safe operation are promptly identified and properly addressed. In addition, continued focus must be applied to correcting the remaining deficiencies in Unit 2 structures, systems and components that were deferred until after restart. Region III will continue to monitor D.C. Cook Unit 2 startup activities through resident and region-based inspection activities, including a period of continuous observation during restart of the plant.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response if you choose to respond, will be placed in the NRC Public Electronic Reading Room (PERR) link at the NRC homepage, namely http://www.nrc.gov/NRC/ADAMS/index.html.

Sincerely,

J. E. Dyer
Regional Administrator

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

Enclosure: Restart Action Matrix

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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Enclosure 1

D. C. Cook Restart Action Matrix

June 12, 2000

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
Case Specific Checklist Items						
Notes:	CAPT - Corrective Action Program Team Inspection (IR 99024) DCTI - Design Control Team Inspection (IR 99023) ICI - Ice Condenser Inspection (IR 99026) IUI - Instrument Uncertainty Inspection (IR 99032) ECATI - Engineering Corrective Action Team Inspection (IR 99029) EFTI - Engineering Followup Team Inspection (IR 2000007) ST/EOP - Surveillance Testing and Emergency Operating Procedure Program Inspection (IR 99033) PRI - Programmatic Readiness Inspection (IR 99034) MOV - Motor Operated Valve Inspection (IR 2000002) NRR - NRC Office of Nuclear Reactor Regulation RRATI - Restart Readiness Assessment Team Inspection (IR 2000003) SI - Surveillance Inspection (IR 20000001) SRI - Senior Resident Inspector (IR 2000001: 02/26/00-04/01/00) (IR 2000013: 04/02/00-05/27/00) (IR 2000016: 05/28/00-07/01/00) RFI - Licensee is ready for this item to be inspected TBD - To be determined The column labeled “Licensee Status” lists either RFI or gives an estimated date when the licensee will be ready for this item to be inspected.					
1	Programmatic Breakdown in Surveillance Testing					
1A	Inadequate Instructions in Surveillance Tests	SI (Passehl)	High	05/13/00	IR 98004 IR 98005 IR 98007 IR 98009 IR 97017 IR 99033	Closed IR 2000001
1B	Acceptance Criterion Lack Sufficient Margin to Analysis Limit	SI (Passehl)	High	05/13/00	IR 98005 IR 99033	Closed IR 2000001
1C	Failure to Meet Technical Specification Requirements	SI (Passehl)	High	05/13/00	IR 98005 IR 98007 IR 99033 LER 315/98015-01	Closed IR 2000001
1D	Preconditioning of Equipment Prior to Surveillance Testing	SI (Passehl)	High	05/13/00	IR 98007 IR 99033	Closed IR 2000001
1E	Failure to Assess and Control the Quality of Contractors Performing Surveillance Testing	SI (Passehl)	High	05/13/00	IR 98005 IR 99033	Closed IR 2000001

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
2	Corrective Action Program Breakdown					
2A	Failure to Promptly Identify and Evaluate Conditions Adverse to Quality	CAPT	High			Closed IR 99024
2B	Inadequate Corrective Actions for Previously Identified Conditions Adverse to Quality	ECATI	High		IR 98004 IR 98005 IR98009 IR 97017 LERs 315/98010 315/98017	Closed IR 99029
3	Programmatic Breakdown in the Maintenance of the Design Basis					
3A	Inadequate Design Control Pertaining to Uncontrolled and/or Unintended Changes in the Plant Design	EFTI	High		IR 98004 IR 98005 IR 98007 IR 98009 IR 97017	Closed IR 2000007
3B	Failure to Update the Final Safety Analysis Report	ECATI	High		IR 98005	Closed IR 99029
3C	Failure to Consider Instrument Uncertainties, Setpoints and/or Instrument Bias	IUI	High		IR 98009	Closed IR 99032
3D	Inadequate Consideration for System/Component Failure Modes	ECATI	High		IR 98009	Closed IR 99029
4	Safety Evaluations					
4A	Failure to Perform Safety Evaluations or Safety Evaluation Screenings	DCTI	High			Closed IR 99023
4B	Inadequate Safety Evaluations	DCTI	High			Closed IR 99023
5	Operator Training Issues					
5A	Training Staff Ability to Develop Technically Accurate Examination Material in Accordance with Examination Guidelines Was Considered Poor		High		IR 97305	Closed IR 98023
5B	Operator Ability to Determine the Correct Protective Action Recommendations for the Emergency Event in Question		High		IR 97305	Closed IR 98023
5C	High Failure Rate for the Operator Examinations Indicated That the Applicants Were Not Well Prepared		High		IR 97305	Closed IR 98023

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
5D	Applicant Abilities to Communicate and Diagnose Events During the Dynamic Simulator Scenarios Was Considered Weak		High		IR 97305	Closed IR 99016
6	Resolution of Ice Condenser Issues	ICI	High		IR 98005 LERs 98004, 5,6,7,8,10,15,17, 24,25,26,32,35	Closed IR 99026
7	Resolution of Non-Safety Related Cables Going to Shunt Trip Coils	NRR/ Shear Falevits	High		LER 98016 See item R.2.7.5 IR 99032 IR 2000013	Closed 0350 Mtg. 05/24/00
8	Resolution of Hydrogen Recombiner Operability Issues	ECATI	High		IR 98007 LER 98009, 98019	Closed IR 99029
9	Resolution of Distributed Ignition Technical Specification Issue	ECATI	High		IR 98007	Closed IR 99029
10	Resolution of Containment Spray System Operability Issues	ECATI	High		LER 98022	Closed IR 99029
11	Resolution of Hydrogen Mitigation System Operability and Material Condition Issues	Holmberg RRATI	High	04/20/00	IR 98007 IR 2000007 IR 2000003 LER 98001	Closed 0350 Mtg. 05/19/00
12	Containment Liner Pitting	ICI	High		LER 98011	Closed IR 99026
13	Systems and Containment Readiness Assessments	SRI	High	05/06/00	Licensee's Restart Plan IR 2000016	Closed 0350 Mtg. 06/05/00
13A	Systems and Containment Problem Discovery		High		Licensee's Restart Plan	Closed IR 99002 IR 99003 IR 99006 IR 99007

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
13B	Systems and Containment Final Readiness Review	RRATI	High	03/20/00	Licensee's Restart Plan IR 2000016	Closed 0350 Mtg. 06/05/00
14	Programmatic Readiness Assessment	RRATI	High	04/23/00	Licensee's Restart Plan	Closed 0350 Mtg. 05/19/00
14A	Programmatic Problem Discovery		High		Licensee's Restart Plan	Closed IR 99013
14B	Contractor Control Program Ready for Restart	PRI	High		Licensee's Restart Plan	Closed IR 99034
14C	Preventative Maintenance Program Ready for Restart	PRI	High		Licensee's Restart Plan	Closed IR 99034
14D	Emergency Operating Procedures Program Ready for Restart	ST/EOP	High		Licensee's Restart Plan IR 99033	Closed IR 2000010
14E	Electrical Protection Coordination including Fuse/Breaker Control Program Ready for Restart	EFTI	High		Licensee's Restart Plan	Closed IR 2000007
14F	Operability Determination Program Ready for Restart	PRI	High		Licensee's Restart Plan	Closed IR 99034
14G	Programmatic Final Readiness Reviews	RRATI	High	04/23/00	Licensee's Restart Plan	Closed 0350 Mtg. 05/19/00
15	Functional Area Readiness Assessment	RRATI	High	04/21/00	Licensee's Restart Plan	Closed 0350 Mtg. 05/19/00
15A	Functional Area Problem Discovery		High		Licensee's Restart Plan	Closed IR 99013
15B	Functional Area Final Readiness Reviews	RRATI	High	04/21/00	Licensee's Restart Plan	Closed 0350 Mtg. 05/19/00
16	Resolution of Operability of Motor Operated Valves in the GL 89-10 Program	MOV	High	04/10/00 (U2)	CR 98-2246, 3555 & 3920 IR 2000002	Closed 0350 Mtg. 05/01/00
Restart Issues						
R.1	Issues That Involve an Operability Question Regarding a System Required for Restart.					
R.1.1	URI 50-315/96013-06, "Normal Charging Capability"	ECATI	Low		SOPI Issue.	Closed IR 99029

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.1.2	LER 50-316/97003-03, “Performance of Dual Train Component Cooling Water Outage During Unit 2 1996 Refueling Outage Resulted in Condition Outside Plant Design Basis”	ECATI	Low		AE team issue (EEI 50-315/316/98009-29).	Closed IR 99029
R.1.3	LER 50-316/97005-01, “Condition Outside Design Basis Results in Technical Specification Required Shutdown”	ECATI	High		See also LER 315/97017-01 CAL Item 1	Closed IR 99029
R.1.4	LER 50-315/97017-01, “Condition Outside Design Basis Results in Technical Specification Required Shutdown”	ECATI	High		See also LER 316/97005-01 CAL Item 1	Closed IR 99029
R.1.5	LER 50-315/97018-01, “Failure to Maintain the 1/4 Inch Particulate Retention Requirement for the Containment Recirculation Sump Results in a Condition Outside the Design Basis”	ECATI	High		AE team issue (EEI 50-315/316/98009-08). CAL Item 2	Closed IR 99029
R.1.6	LER 50-315/97019-01, “Operation Contrary to the Design Bases with Residual Heat Removal Suction Valves Automatic Closure Interlock Defeated in Modes 4 and 5"	ECATI	Low		AE team issue (EEI 50-315/316/98009-34). CAL Item 6 The licensee plans to submit an amendment to Technical Specifications to close the issue.	Closed IR 99029
R.1.7	LER 50-315/97020-01, “Failure to Maintain Sump Vent Configuration Results in Condition Outside the Design Basis”	ECATI	High		AE team issue (EEI 50-315/316/98009-31). CAL item 2.	Closed IR 99029
R.1.8	LER 50-315/97021-01, “Potential Loss of All Medium and High Head Injection Due to Single Failure Could Result in a Condition That Would Prevent the Fulfillment of the Safety Function of a System”	ECATI	High		AE team issue (URI 50-315/316/98009-07). CAL Item 4.	Closed IR 99029

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.1.9	LER 50-315/97022-01, “Failure to Comply with USAS B31.1 Power Piping Code Due to Oversight in Valve Control Requirements Results in a Condition That Could Have Prevented Fulfillment of a Safety Function of a System”	ECATI	Low		AE team issue (URI 50-315/316/98009-24).	Closed IR 99029
R.1.10	URI 50-315/97025-03, “SSPS Relay Operability History”	EFTI	Low		See also LER 315/98002-01.	Closed IR 2000007
R.1.11	LER 50-315/97026-01, “Potential for Over pressurization of the Control Air Headers Determined to Be Unanalyzed Condition”	ECATI	Low		AE team issue (URI 50-315/316/98009-13). CAL Item 5	Closed IR 99029
R.1.12	LER 50-316/98004-02, “Ice Condenser Bypass Potentially in Excess of Design Basis Limit”	ICI	Low			Closed IR 99026
R.1.13	EEI 50-315/316/98004-10, “Failure to Consider the Effects of Change to ES-0.1 on the Shutdown Margin”	ST/EOP	Low			Closed IR 99033
R.1.14	LER 50-316/98005-00, “Interim LER - Potential for High Energy Line Break to Degrade Component Cooling Water System”	EFTI	High		IR 99029	Closed IR 2000007
R.1.15	URI 50-315/316/98005-31, “As-Found Operability of Ice Condenser in Question for Past Plant Operation”	ICI	Low		See also LERs 315/98004-02, 315/98005-03, 315/98006-02, 315/98007-01, 315/98008-02, 315/98015-00, 315/98017-01, 315/98025-00, 315/98026-00, 315/98032-00, 315/98035-01.	Closed IR 99026
R.1.16	URI 50-316/98007-13, “Pending the Licensee’s Assessment of the As Found Operability of the Open Electrical Junction Box, and Additional Inspector Review”	ECATI	Low			Closed IR 99029
R.1.17	URI 50-315/316/98009-13, “Apparent Failure to Analyze All Potential Failure Modes of the Instrument Air System That Could Render Redundant Trains of Safety-Related Equipment Inoperable”	ECATI	Low		See also LERs 315/97023-01, 315/97026-01. CAL Item 5	Closed IR 99029

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.1.18	EEI 50-315/316/98009-34, “Operation of the Plant without Overpressure Protection for the RHR System, Contrary to the UFSAR”	ECATI	Low		Technical Specification amendment submitted. See also LER 315/97019-01.	Closed IR 99029
R.1.19	LER 50-315/98031-01, “Potential Common Mode Failure of Residual Heat Removal Pumps Due to Use of Inaccurate Values”	ECATI	Low			Closed IR 99029
R.1.20	LER 50-315/98032-00, “Defective and Missing Ice Condenser Basket Welds Represents Unanalyzed Condition, and 10 CFR Part 21 Report”	ICI	Low			Closed IR 99026
R.1.21	LER 50-315/98037-01, “Ice Condenser Bypass Leakage Exceeds Design Basis Limit of 5 Square Feet”	ICI	Low			Closed IR 99026
R.1.22	LER 50-315/98046-00, “Auxiliary Feedwater System Unable to Meet Design Flow Requirements During Special Test”	ECATI	Low			Closed IR 99029
R.1.23	LER 50-315/98050-00, “Ancillary Equipment Installed in Ice Condenser Not Designed to Withstand Design Basis Accident/Earthquake”	ICI	Low			Closed IR 99026
R.1.24	LER 50-315/98058-00, “Postulated High Energy Line Break Could Result in Condition Outside Design Basis for Auxiliary Feedwater”	EFTI	High			Closed IR 2000007
R.1.25	LER 50-315/99001-00, “General Electric HFA Relays Installed in Emergency Diesel Generators May Not Meet Seismic Qualification”	ECATI	Low			Closed IR 99029
R.1.26	LER 50-315/99008-00, “Residual Heat Removal (RHR) Piping Vibrations Could Potentially Cause RHR Piping Failures”	ECATI	Low			Closed IR 99029
R.1.27	LER 50-315/99010-00, “Reactor Coolant System Leak Detection System Sensitivity Not in Accordance with Design Requirements”	ECATI	Low			Closed IR 99029
R.1.28	LER 50-315/99011-01, “Air System for Emergency Diesel Generators (EDG) May Not Support Long Term Operability Due to Original Design Error ”	Holmberg RRATI	High		IR 99029 IR 2000007 IR 2000003	Closed 0350 Mtg. 05/19/00
R.1.29	LER 50-315/99012-00, “Auxiliary Building ESF Ventilation System may not be Capable of Maintaining ESF Room Temperatures Post-Accident ”	ECATI	Low			Closed IR 99029

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.1.30	LER 50-315/99013-00, “Safety Injection and Centrifugal Charging Throttle Valve Cavitation During LOCA Could Lead to ECCS Pump Failure”	ECATI	Low			Closed IR 99029
R.1.31	LER 50-316/99003-00, “Fuses Not Installed for Cable Passing Through Containment Penetration”	SRI	Low	03/29/00	IR 2000013	Closed 0350 Mtg. 05/01/00
R.1.32	LER 50-315/99022-01, “Electrical Bus Degraded Voltage Setpoints Too Low For Safety Related Loads”	NRR	Low	03/31/00	Discuss at 03/24/00 Tech Mtg IR 2000007 IR 2000016	Closed 0350 Mtg. 05/30/00
R.1.33	LER 50-315/99023-00, “Inadequate Technical Specification Surveillance Testing of Essential Service Water Pump Engineered Safety Feature Response Time”	ST/EOP	Low			Closed IR 99033
R.1.34	LER 50-315/99024-00, “ Literal Technical Specifications Requirement Not Met By Accumulator Valve Surveillance”	ST/EOP	Low			Closed IR 99033
R.1.35	LER 50-315/99026-00, “High Energy Line Break Programmatic Inadequacies Result in Unanalyzed Conditions”	EFTI	High		Results of the licensee’s evaluations and analysis of the safety significance of the conditions described will be provided in a supplement to this LER.	Closed IR 2000007
R.1.36	URI 50-315/316/99021-02, “Review ESW system licensing basis and operational requirements”	SRI	Low		IR 2000013	Closed 0350 Mtg. 05/24/00
R.1.37	LER 50-315/2000-002-00, “Large Bore Piping Not Meeting the Code of Record Results in Safety Systems Being Seriously Degraded”	SRI	Low		IR 2000013	Closed 0350 Mtg. 05/24/00
R.1.38	Licensee biennial review of operations’ procedures	SRI	Low		IR 2000016	Closed 0350 Mtg. 06/02/00

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2	Issues That Pertain to an Existing Case Specific Checklist Item.					
R.2.1	Issues That Pertain to Case Specific Checklist Item 1, Programmatic Breakdown in Surveillance Testing					
R.2.1.1	EEI 50-315/316/97017-03, “A Procedure That Defines How to Perform Containment Inspections and Makes No Reference to Looking for Fibrous Material or Insulation That Could Clog the Recirculation Sump Is Not Appropriate to the Circumstances”	ECATI	High		Escalated enforcement item A.1.c. CAL Item 7.	Closed IR 99029
R.2.1.2	LER 50-315/98001-02, “Containment Air Recirculation System Flow Testing Results Indicate Condition Outside the Design Basis”	ECATI	Low		See also EEI 50-315/316/98007-06.	Closed IR 99029
R.2.1.3	LER 50-315/98004-02, “Interim LER - Restricted Ice Condenser Flow Passages Found to Constitute an Unanalyzed Condition”	ICI	Low			Closed IR 99026
R.2.1.4	IFI 50-315/316/98004-03, “Verification of Sump Screen As-Left Configuration”	ECATI	Low			Closed IR 99029
R.2.1.5	LER 50-315/98006-02, “Interim LER - Ice Basket Weighing Option Results in Potential Unanalyzed Condition”	ICI	Low			Closed IR 99026
R.2.1.6	LER 50-315/98007-01, “Interim LER - Ice Condenser Weights Used to Determine Technical Specification Compliance Not Representative”	ICI	Low		See IR 98005	Closed IR 99026
R.2.1.7	EEI 50-316/98007-07, “An Apparent Violation for Failure to Comply with TS Requirements Upon Discovery of an Inoperable PORV”	ST/EOP	Low		See also LER 316/98002-00.	Closed IR 99033
R.2.1.8	URI 50-315/98007-16, “Review of Additional Information on the Appropriateness of the Use of Duct Tape Inside of Containment”	ST/EOP (N.Shah)	Low		CAL Item 7 IR 99033	Closed IR 2000001
R.2.1.9	URI 50-315/316/98009-09, “ECCS Pump Suction Valves Not Leak-Rate Tested to Confirm Accident Analysis Assumption”	ECATI	High		CAL Item 8.	Closed IR 99029
R.2.1.10	URI 50-315/316/98009-15, “Apparent Failure to Establish Controls to Prevent Potential Operation of the CCW System with the CCW Heat Exchangers Above the Maximum Fouling Factor Value Established by the GL 89-13 Testing Program”	ECATI	Low			Closed IR 99029

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.1.11	URI 50-315/316/98009-16, “Performance Testing of the EDG Heat Exchangers Was Not Able to Detect Degradation, As Required by the Licensee's GL 89-13 Testing Program”	SRI	Low		IR 99021 Long Term Corrective Actions to be Addressed After Restart IFI 99021-03	Closed
R.2.1.12	LER 50-315/98015-01, “Ice Weight Requirements Potentially Not Met Due to Nonconservative Assumption in Software Program”	ICI	Low			Closed IR 99026
R.2.1.13	EEI 50-315/98021-03, “Surveillance Procedure Did Not Direct the Operators to Restore the AES System to a Configuration Included in the Normal Operating Procedure or Enter the Appropriate TS Limiting Condition for Operation Action Statement”					Closed IR 99010
R.2.1.14	LER 50-315/98036-00, “Flow Indicator Not Calibrated at Technical Specification Required Frequency”	ST/EOP	Low			Closed IR 99033
R.2.1.15	LER 50-315/98041-00, “Component Cooling Water Pump Surveillance Testing Has Potential to Cause Unplanned Entry into TS 3.0.3"	ST/EOP	Low			Closed IR 99033
R.2.1.16	LER 50-315/98043-00, “Containment Air Locks Testing Not Performed in Accordance with TS 4.6.1.3.a”	ST/EOP	Low			Closed IR 99033
R.2.1.17	LER 50-315/98044-00, “Offsite Power Availability Not Verified as Required by Technical Specification Surveillance”	ST/EOP	Low			Closed IR 99033
R.2.1.18	LER 50-315/98051-00, “Reactor Trip Signal from Manual Safety Injection Not Verified as Required by Technical Specification Surveillance”	ST/EOP (N.Shah)	Low		IR 99033 Licensee Updating CRs	Closed IR 2000001
R.2.1.19	LER 50-315/98053-00, “Interim LER - Use of Inoperable Substitute Subcooling Margin Monitor”	SI (Passehl)	Low	03/31/00	IR 99033 IR 2000013	Closed 0350 Mtg. 05/01/00
R.2.1.20	LER 50-315/98060-00, “Interim LER - Reactor Trip System Response Time Testing Does Not Comply with Technical Specification Requirement”	ST/EOP (J. Maynen)	Low		IR 99033 Licensee Updating CRs	Closed IR 2000001
R.2.1.21	LER 50-315/99003-00, “Control Room Pressurization System Surveillance Test Does Not Test System in Normal Operating Condition”	ST/EOP (N.Shah)	Low		IR 99033	Closed IR 2000001

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.1.22	LER 50-316/99002-00, “Requirements of Technical Specification 4.0.5 Not Met Due to Improperly Performed Test”	ST/EOP (N.Shah)	Low		IR 99033	Closed IR 2000001
R.2.1.23	LER 50-315/99032-00, “Failures to Comply with Technical Specification 4.0.5 Identified by Inservice Testing Program Assessment”	MOV/ SI	High	03/31/00	IR 2000002	Closed 0350 Mtg. 05/01/00
R.2.1.24	LER 50-315/99014-00, “Requirements of Technical Specification 4.0.5 Not Met for Boron Injection Tank Bolting”	SRI	Low		IR 2000013	Closed (Pending IR 2000013)
R.2.1.25	LER 50-315/99015-00, “Radiation Monitoring System Not Tested in Accordance with Technical Specification Surveillance Requirements”	SRI	Low		IR 2000013	Closed (Pending IR 2000013)
R.2.1.26	LER 50-315/99016-00, “Technical Specification Requirements for Source Range Neutron Flux Monitors Not Met”	SRI	Low		IR 2000013	Closed (Pending IR 2000013)
R.2.1.27	LER 50-315/99021-00, “Generic Letter 96-01 Test Requirements Not Met in Surveillance Tests”	SRI	Low		IR 2000013	Closed (Pending IR 2000013)
R.2.2	Issues That Pertain to Case Specific Checklist Item 2, Corrective Action Program Breakdown					
R.2.2.1	IFI 50-315/316/96006-07, “Responses to NRC Generic Communications Was Narrowly Focused and Did Not Fully Address the Issues”	ECATI	Low		IPAP issue.	Closed IR 99029
R.2.2.2	IFI 50-315/316/96006-14, “Slowed Implementation of Procedural Improvements”	SRI	Low		IPAP issue.	Closed IR 99022
R.2.2.3	LER 50-315/97010-02, ”Unit Operation with Lake Temperature in Excess of Design Basis Value Results in Condition Outside the Design Basis”	ECATI	Low		AE team issue (EEI 50-315/316/9800 9-28). See also R.3.9.	Closed IR 99029
R.2.2.4	URI 50-315/316/97017-05, “The As-Found Condition of the Containment Recirculation Sump Relative to Technical Specification Operability During Modes 1, 2, and 3"	ECATI	High		See also LER 315/97024-04.	Closed IR 99029
R.2.2.5	EEI 50-315/316/98004-16, “Failure to Implement Corrective Actions for a Previous Condition Adverse to Quality”	ECATI	Low			Closed IR 99029
R.2.2.6	EEI 50-315/316/98005-12, “Failure to Identify/Evaluate Missing Ice Segments in Lower Section of Ice Baskets”	ICI	Low		Escalated enforcement item B.2.	Closed IR 99026
R.2.2.7	EEI 50-315/316/98005-13, “Failure to Identify/Evaluate Buckled Webbing in Lower Section of Ice Baskets”	ICI	Low		Escalated enforcement item B.3.	Closed IR 99026

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.2.8	EEI 50-315/316/98005-14, “Failure to Identify/Evaluate Fibrous Material in the Ice Condenser”	ICI	Low			Closed IR 99026
R.2.2.9	EEI 50-315/316/98005-15, “Failure to Promptly Identify/Evaluate Missing Ice Basket Sheet Metal Screws”	ICI	Low		See also LER 315/98005-03. Escalated enforcement item B.1.	Closed IR 99026
R.2.2.10	EEI 50-315/316/98005-16, “Failure to Prevent Recurrence of Loose U-Bolt Nuts”	ICI	Low		Escalated enforcement item B.4.	Closed IR 99026
R.2.2.11	EEI 50-315/98005-17, “Failure to Prevent Recurrence of Separated Ice Baskets”	ICI	Low		Escalated enforcement item B.5.	Closed IR 99026
R.2.2.12	EEI 50-315/316/98005-18, “Failure to Take Prompt Effective Corrective Action Ice Baskets with Failed Fillet Welds”	ICI	Low		Escalated enforcement item B.6.	Closed IR 99026
R.2.2.13	URI 50-315/316/98009-04, “Apparent Failure to Take Prompt Corrective Action After the 1993 Systems Based Instrument and Control Inspection Finding Regarding the Potential for Vortexing and Air Entrainment in the RWST, and After Documented by the Licensee in 1995 in CR 95-1015"	ECATI	High			Closed IR 99029
R.2.2.14	EEI 50-315/316/98009-12, “Apparent Lack of Documentation to Demonstrate That the Control Room Equipment Was Qualified at Worst Case Operating Temperatures in the Control Room”	ECATI	Low		See also LER 315/97014-02.	Closed IR 99029
R.2.2.15	LER 50-315/98010-01, “Ice Condenser Intermediate Deck Door Structural Discrepancies Results from Failure to Follow Procedures”	ICI	Low			Closed IR 99026
R.2.2.16	EEI 50-315/315/98016-01, “Programmatic Breakdown in the Area of Corrective Action”	ECATI	Low			Closed IR 99029
R.2.2.17	LER 50-315/98017-01, “Debris Recovered from Ice Condenser Represents Unanalyzed Condition”	ICI	Low			Closed IR 99026
R.2.3	Issues That Pertain to Case Specific Checklist Item 3, Programmatic Breakdown in the Maintenance of the Design Basis					
R.2.3.1	IFI 50-315/316/96006-10, “Technical Operating Guidance Was Promulgated to Shift Supervisors Without Indication That It Had Operations Management Approval for Implementation”	SRI	Low		IPAP issue.	Closed IR 99022

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.3.2	LER 50-315/97011-02, “Operation Outside the Design Basis for ECCS and Containment Spray Pumps for Switchover to Recirculation Sump Suction”	Holmberg	High	04/13/00	AE team Issue (50-315/316/98009-01, 02, and 03). CAL Item 1 IR 99029 IR 2000013	Closed 0350 Mtg. 05/01/00
R.2.3.3	LER 50-315/97012-01, “Potential Operation of CCW System Above Design Basis Value for Heat Exchanger Outlet Constitutes Condition Outside Design Basis”	ECATI	Low		AE Team Issue (50-315/316/98009-33). CAL Item 3	Closed IR 99029
R.2.3.4	LER 50-315/97014-02, “ Potential for Operation in Unanalyzed Condition Due to Postulated Elevated Room Temperatures”	ECATI	Low		AE team Issue (50-315/316/98009-12).	Closed IR 99029
R.2.3.5	EEI 50-315/316/97017-01, “The Lack of Sufficient Measures to Assure That the Design Basis Was Correctly Translated into Specifications to Control the Installation of Material That Could Be Essential to the Safety-Related Functions of the Containment System”	ECATI	High		Escalated enforcement item C.2.d. IR 99029	Closed IR 2000007
R.2.3.6	EEI 50-315/316/97017-02, “The Lack of Sufficient Measures to Assure That the Design Basis Was Correctly Translated Into Instructions Which Would Be Changed in a Controlled Manner”	ECATI	High		Escalated enforcement item C.2.e.	Closed IR 99029
R.2.3.7	EEI 50-315/316/97017-04, “A Procedure for Installation, Replacement, and Repair of Silicone Fire Barrier Penetration Seals That Did Not Require That Fibrous Damming Material Be Removed or Encapsulated Following Sealing Operations Is Not Appropriate to the Circumstances”	EFTI	High		Escalated enforcement item C.2.d. IR 99029	Closed IR 2000007
R.2.3.8	LER 50-315/97024-04, “Material Discovered in Containment Degrades Containment Recirculation Sump and Results in Condition Outside Design Basis”	ECATI	High			Closed IR 99029
R.2.3.9	EEI 315/316/98004-09, “Failure to Verify or Adequately Check the Design Inputs in Calculation DCCHV12AE06-N”	ECATI	Low		Escalated enforcement item C.2.l.	Closed IR 99029
R.2.3.10	EEI 50-315/316/98005-20, “WCAP-11902 Analysis Not Incorporated into the FSAR Per 50.71e”	ICI	Low		Escalated enforcement item C.1.a.	Closed IR 99026
R.2.3.11	EEI 50-315/316/98005-21, “As-Built Ice Basket Bottom Assembly Not Incorporated into the FSAR Per 50.71e”	ICI	Low		Escalated enforcement item C.1.b.	Closed IR 99026

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.3.12	EEI 50-315/316/98005-22, “As-Used Ice Form Not Incorporated into the FSAR Description Per 50.71e”	ICI	Low			Closed IR 99026
R.2.3.13	EEI 50-316/98005-23, “Ice Basket Modified by 02-MM-032 Not Incorporated into the FSAR Description Per 50.71e”	ICI	Low		Escalated enforcement item C.1.c.	Closed IR 99026
R.2.3.14	EEI 50-315/98005-24, “Ice Baskets Modified by 01-MM-048 Not Incorporated into the FSAR Description Per 50.71e”	ICI	Low		Escalated enforcement item C.1.c.	Closed IR 99026
R.2.3.15	EEI 50-315/316/98005-25, “Westinghouse Ice Basket Seismic Load Study, Dated February 28, 1990 Not Incorporated into the FSAR Per 50.71e”	ICI	Low		Escalated enforcement item C.1.d.	Closed IR 99026
R.2.3.16	EEI 50-315/316/98005-26, “Revised Replacement Ice Basket Design Not Incorporated into the FSAR Per 10 CFR 50.71e”	ICI	Low			Closed IR 99026
R.2.3.17	EEI 50-315/98005-27, “Unauthorized Modification (Bolt Vice Pin) Installed in Three Unit 1 Ice Baskets”	ICI	Low		Escalated enforcement item C.2.a.	Closed IR 99026
R.2.3.18	EEI 50-316/98005-28, “Unauthorized Modification (Sheath of Sheet Metal) Installed on a Unit 2 Ice Basket”	ICI	Low		Escalated enforcement item C.2.b.	Closed IR 99026
R.2.3.19	EEI 50-316/98005-29, “Unauthorized Modification (Rivets Vice Screws) Installed on a Unit 2 Ice Basket”	ICI	Low		Escalated enforcement item C.2.c.	Closed IR 99026
R.2.3.20	EEI 50-315/316/98005-30, “Failure to Follow Design Controls for Ice Basket Cruciform Modifications”	ICI	Low			Closed IR 99026
R.2.3.21	URI 50-316/98007-15, “Upward Travel of the Blocks Would be Limited by Contact with the Loose Nuts”	EFTI	Low			Closed IR 2000007
R.2.3.22	EEI 50-315/316/98009-01, “Apparent Failure to Recognize and Evaluate All RWST Level Measurement Error and Uncertainties”	IUI	High		See also LER 315/97011-02. Escalated enforcement item C.2.f.	Closed IR 99032
R.2.3.23	URI 50-315/316/98009-02, “Incorrect RWST Level Acceptance Criterion Specified in TS Surveillance Procedure Could Have Allowed RWST Level to be Less than the TS Requirement”	ECATI	Low		See also LER 315/97011-02.	Closed IR 99029

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.3.24	EEI 50-315/316/98009-03, “Apparent Failure to Consider Potential for Vortexing and Air Entrainment When Establishing the RWST Low-Low Level Setpoint”	Holmberg	High	03/29/00	See also R.2.3.2 and LER 315/97011-02 Escalated enforcement item C.2.g. IR 99029 IR 2000013	Closed 0350 Mtg. 05/01/00
R.2.3.25	EEI 315/316/98009-05, “The Uncertainty Calculations for the Containment and Containment Sump Level Instrumentation Loops Do Not Account for the Impact on the Post-Accident Containment Water Levels (ECPs 1-2-N3-01, 1-RPC-14, and 2-RPC-14), and Do Not Consider the Potential for Vortexing, Air Entrainment, or NPSH Requirements”	EFTI	High		Escalated enforcement item C.2.h. IR 99032	Closed IR 2000007
R.2.3.26	EEI 50-315/316/98009-06, “Apparent Failure to Demonstrate, Using Design Basis Documentation, That There Was Adequate Containment Recirculation Sump Water Volume Following a LOCA”	ECATI	High		Escalated enforcement item C.2.i.	Closed IR 99029
R.2.3.27	URI 50-315/316/98009-07, “Apparent Failure to Preclude a Single Active Failure When Performing Changes to the Plant, Which Is Contrary to the Assumptions in the UFSAR and the Design Basis”	ECATI	Low		See also LER 315/97021-01.	Closed IR 99029
R.2.3.28	EEI 50-315/316/98009-08, “Apparent Failure to Maintain the 1/4 Inch Containment Recirculation Sump Particulate Retention Requirement, Which Could Allow the ECCS Throttle Valves and Containment Spray Nozzles to Become Inoperable”	ECATI	High		See also LER 315/97018-01 Escalated enforcement item C.2.k.	Closed IR 99029
R.2.3.29	URI 50-315/316/98009-10, “Apparent Failure to Demonstrate, Using Design Basis Documentation, That the Plant Could Perform a TS 3.0.3 Shutdown in 36 hours to 200°F Using One CCW Train and Design Basis Assumptions”	ECATI	Low		CAL Item 3	Closed IR 99029
R.2.3.30	URI 50-315/316/98009-11, “Apparent Failure to Correctly Translate the As-Built Design of the CCW Heat Exchanger into Safety-Related Calculations and Analyses”	ECATI	Low			Closed IR 99029
R.2.3.31	EEI 50-315/316/98009-14, “Operation of the Plant with CCW Supplied Flows to Safety-Related and Important to Safety Components Contrary to the Values Stated in the UFSAR”	ECATI	Low			Closed IR 99029

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.3.32	URI 50-315/316/98009-17, “Inadequate Justification to Return the Unit 2 250 VDC Battery Train CD to an Operable Status”	SRI	Low			Closed IR 99021
R.2.3.33	EEI 50-315/316/98009-18, “Apparent Failure to Maintain Adequate Design and Procedural Controls That Allowed the Plant to Operate in Modes 5 and 6 without an Adequate Volume of Borated Water in the Other Unit's RWST in Order to Meet Appendix R Requirements”	ECATI	Low			Closed IR 99029
R.2.3.34	URI 50-315/316/98009-19, “Apparent Failure to Perform Instrument Uncertainty Calculation for the CCW Heat Exchanger Outlet Temperature Loop Uncertainty”	IUI	Low			Closed IR 99032
R.2.3.35	URI 50-315/316/98009-20, “Apparent Failure to Perform Instrument Uncertainty Calculation for the ESW Intake Temperature Loop Uncertainty”	IUI	Low			Closed IR 99032
R.2.3.36	URI 50-315/316/98009-21, “Apparent Failure to Perform Instrument Uncertainty Calculation for the Control Room Temperature Loop Uncertainty”	IUI	Low			Closed IR 99032
R.2.3.37	URI 50-315/316/98009-22, “Apparent Programmatic Deficiency with the Setpoint Control Program Concerning the Ability to Perform and Account for Instrument Uncertainties”	IUI	Low			Closed IR 99032
R.2.3.38	URI 50-315/316/98009-23, “Performing Changes to Safety-Related Procedures without Apparent Proper Review and/or Approval, Contrary to the Provisions of TS 6.5.3.1 and 10 CFR Part 50.59 Requirements”	SRI	Low			Closed IR 2000001
R.2.3.39	URI 50-315/316/98009-24, “Apparent Failure to Maintain Proper Design Control Regarding Industry Standards and Codes”	EFTI	Low		See also LER 315/97022-01.	Closed IR 2000007
R.2.3.40	URI 50-315/316/98009-25, “Apparent Failure to Maintain Adequate Design Control and Follow Established Procedures for Equipment Abandoned in Place”	ECATI	Low			Closed IR 99029
R.2.3.41	URI 50-315/316/98009-26, “Apparent Failure to Maintain Adequate Drawing Control That Has the Potential to Impact Plant Operating Procedures, and Maintenance Activities That Use Drawings”	ECATI	Low			Closed IR 99029
R.2.3.42	URI 50-315/316/98009-27, “Apparent Failure to Adequately Translate Design Basis Assumptions into Plant Procedure OHP4021.001.004, Plant Cooldown from Hot Standby to Cold Shutdown”	ECATI	Low			Closed IR 99029

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.3.43	EEI 50-315/316/98009-29, “Dual Train CCW Outage During Unit 2 Refueling Outage Results in Condition Outside the Design Basis”	SRI	Low		See also LER 316/97003-03 Escalated enforcement item D.1.a.	Closed IR99023
R.2.3.44	IFI 50-315/316/98009-35, “UFSAR and TS Inconsistencies with RWST Volume”	ECATI	Low			Closed IR 99029
R.2.3.45	IFI 50-315/316/98009-36, “The RWST and the Containment Water Level Instrumentation AOTs Should Appropriately be Governed by Consistent AOT Requirements”	ST/EOP	Low			Closed IR 99033
R.2.3.46	LER 50-315/98011-02, “Steel Containment Liner Pitting in Excess of Design Basis”	ICI	Low			Closed IR 99026
R.2.3.47	LER 50-315/98012-01, “1/4 Inch Particulate Requirement not maintained in Containment Recirculation Sump”	ECATI	High			Closed IR 99029
R.2.3.48	LER 50-315/98013-01, “Improper Splice Configurations for Power Operated Relief Valve Limit Switches Results in Unanalyzed Condition”	EFTI	Low			Closed IR 2000007
R.2.3.49	LER 50-315/98014-03, “‘Response to High-High Containment Pressure’ Procedure Not Consistent with Analysis of Record”	ST/EOP	Low			Closed IR 99033
R.2.3.50	LER 50-315/98018-02, “Use of Reactor Coolant Pump Seals as Alternate Boron Injection Flow Path Potentially Results in Unanalyzed Condition”	ST/EOP	High		IR 99033	Closed IR 2000010
R.2.3.51	LER 50-315/98020-01, “Interim LER - Containment Recirculation Sump pH Upper Limit Potentially Exceeded Due to Analysis Input Omission”	ECATI	Low			Closed IR 99029
R.2.3.52	LER 50-315/98022-02, “Potential Failure of Spray Additive Tank Nitrogen Regulator Results in Unanalyzed Condition”	ECATI	Low			Closed IR 99029
R.2.3.53	LER 50-315/98038-00, “Potential for Single Failure to Isolate Emergency Core Cooling System Suction Paths”	ECATI	Low			Closed IR 99029
R.2.3.54	LER 50-315/98045-01, “Interim LER - Insufficient Deliverable Volume in Containment Spray System Chemical Additive Tank”	ECATI	Low			Closed IR 99029

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.3.55	LER 50-315/98047-00, “Interim - Potential Increase for Leakage Reactor Coolant Pump Seals Identified”	SI	High	04/08/00	USQ See R.3.7 IR 99033 IR 2000010 IR 2000016 LER will remain open pending review of supplement	Closed 0350 Mtg. 05/30/00
R.2.3.56	LER 50-315/98049-00, “Interim - Emergency Boron Injection Flow Path Inoperable Due to Original Design Deficiency”	ECATI	Low			Closed IR 99029
R.2.3.57	LER 50-315/98052-01, “Potential Failure Mode for Air Operated Components Not Considered in Original Design”	ECATI	Low		CAL Item 5	Closed IR 99029
R.2.3.58	LER 50-315/98055-00, “Interim - Potential Condition Outside Design Basis for Rod Control System”	ECATI	Low			Closed IR 99029
R.2.3.59	LER 50-315/98056-00, “Interim LER - Hot Leg Nozzle Gaps”	ECATI	Low		See also Item R.3.6.	Closed IR 99029
R.2.3.60	LER 50-315/98059-00, “Interim LER - Single Failure in Containment Spray System Could Result in Containment Spray pH Outside Design”	ECATI	Low			Closed IR 99029
R.2.3.61	LER 50-315/99017-00, “Improperly Installed Fuel Oil Return Relief Valve Renders Emergency Diesel Generator Inoperable Due to Personnel Error”	SRI	Low		IR 2000013	Closed (Pending IR 2000013)
R.2.3.62	LER 50-315/99020-00, “Emergency Diesel Generators Declared Inoperable Due to Inadequate Protection of Air Intake, Exhaust and Room Ventilation Structures from Tornado Missile Hazards”	SRI	Low		IR 2000013	Closed (Pending IR 2000013)
R.2.4	Issues That Pertain to Case Specific Checklist Item 4, Safety Evaluations					
R.2.4.1	VIO 50-315/96011-01, “Failure to Implement Temporary Modification Procedure”	ECATI	Low			Closed IR 99029
R.2.4.2	VIO 50-315/316/96015-04, “Failure of Design Control Measures to Adequately Review for Suitability Non-Safety Related Piping on the AFW Pumps”	ECATI	Low			Closed IR 99029
R.2.4.3	VIO 50-315/316/97004-04, “Failure to Perform 50.59 Evaluation (Ventilation Catch Basin in CR Panels)”					Closed IR 99001
R.2.4.4	VIO 50-315/316/97009-07, “Procedure on Temporary Modifications Was Not Followed”				OSTI issue.	Closed IR 97009

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.4.5	IFI 50-315/316/97009-08, “NRR to Determine If Seasonal Modification Is Really a Permanent Change”	ECATI	Low		OSTI issue.	Closed IR 99029
R.2.4.6	VIO 50-315/316/97009-09, “Modification Package Missed Discrepancies”	ECATI	Low		OSTI issue.	Closed IR 99029
R.2.4.7	URI 50-316/97018-03, “Adequacy of Operations Procedure Safety Evaluations”	ECATI	Low			Closed IR 99029
R.2.4.8	VIO 50-315/316/97024-01, “Failure to Maintain Written Safety Evaluation”	ECATI	Low			Closed IR 99029
R.2.4.9	LER 50-315/98002-01, “Degraded Solid State Protection System Master Relays Result in Condition Outside the Design Basis”	EFTI	Low		See also URI 50-315/316/97025-03.	Closed IR 2000007
R.2.4.10	EEI 50-315/316/98004-01, “Failure to Perform a Safety Evaluation for Re-Drilling the Sump Roof Vent Holes”	ECATI	Low			Closed IR99023
R.2.4.11	EEI 50-315/316/98004-02, “Failure to Perform a Safety Evaluation for the Change to Delete the Containment Recirculation Sump Support Nut”	ECATI	Low			Closed IR99023
R.2.4.12	EEI 50-315/316/98004-04, “Failure to Perform a Safety Evaluation Screening for Changing the Containment Recirculation Sump Screen Materials”	ECATI	Low			Closed IR99023
R.2.4.13	EEI 50-315/316/98004-05, “Failure to Perform a Safety Evaluation for the Welding and Reduction in Sump Screen Size”	ECATI	Low			Closed IR99023
R.2.4.14	URI 50-315/316/98004-07, “Historic Operability Review for Past ES-1.3 Revisions”	ST/EOP	Low		CAL Item 4	Closed IR 99033
R.2.4.15	EEI 50-315/316/98004-11, “Failure to Perform an Adequate Safety Evaluation Prior to the CVCS Filter Change”	ECATI	Low			Closed IR99023
R.2.4.16	EEI 50-315/316/98004-12, “Failure to Perform a Safety Evaluation for Procedure Changes Required by Design Change RFC-DC-12-2665"	ECATI	Low			Closed IR 99029
R.2.4.17	EEI 50-315/316/98004-13, “Failure to Perform an Adequate Safety Evaluation for Changes to the Plant Affecting Four Emergency Operating and Abnormal Operating Procedures”	ST/EOP	Low		See also Case Specific Checklist Item 5.	Closed IR 99033
R.2.4.18	EEI 50-315/316/98004-14, “Failure to Perform an Adequate Safety Evaluation to Support Changes to CCW Flows that Could Exceed the UFSAR CCW Heat Exchanger Design Flow Values”	ECATI	Low		Escalated enforcement item D.1.c.	Closed IR 99029

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.4.19	EEI 50-315/316/98004-15, “Failure to Perform an Adequate Safety Evaluation for the RWST Low Level Alarm Setpoint Change”	ECATI	Low		Escalated enforcement item D.1.c.	Closed IR 99029
R.2.4.20	VIO 50-315/316/98007-01, “Failure to Perform a Full Safety Evaluation on the Change to the Operating Procedure for the Hydrogen Recombiners”	ECATI	Low			Closed IR 99029
R.2.4.21	EEI 50-315/316/98007-06, “An Apparent Violation for Failure to Comply with 10 CFR 50.59"	ECATI	Low		See also LER 315/98001-02.	Closed IR 99029
R.2.4.22	URI 50-315/98007-17, “Review Divider Deck Barrier Seal Installation Procedure Which allowed Seal Material Configuration to Vary with Engineering Approval”	ICI	Low			Closed IR 99026
R.2.4.23	EEI 50-315/316/98009-28, “Operation of the Plant Above the Maximum UHS Temperature Limit without Performing a 10 CFR 50.59 Evaluation”	ECATI	Low		See also LER 315/97010-02. See also Item R.3.9. Escalated enforcement item D.1.a.	Closed IR 99029
R.2.4.24	EEI 50-315/316/98009-30, “Revision to ES-1.3 Created a Single Failure Vulnerability That Could Render One RHR Pump and Both Trains of SI and CCP Inoperable”	ST/EOP	Low		CAL item 4. Escalated enforcement item D.1.b.	Closed IR 99033
R.2.4.25	EEI 50-315/316/98009-31, “Refilling the Containment Recirculation Sump Ventilation Holes without Performing a 10 CFR 50.59 Safety Evaluation”	ECATI	Low		See also LER 315/97020-01. Escalated enforcement item C.2.j.	Closed IR 99029
R.2.4.26	EEI 50-315/316/98009-32, “Change to CCW Operating Procedure Was Not Recognized as a Change to the Intent of the Procedure”	SRI	Low		Escalated enforcement item D.1.b.	Closed IR 99021
R.2.4.27	EEI 50-315/316/98009-33, “Operation with Less Than UFSAR Specified CCW Flow Through the RCP Thermal Barrier without Performing a 10 CFR 50.59 Safety Evaluation”	ECATI	Low		See also LER 315/97012-01. Escalated enforcement item D.1.b.	Closed IR 99029
R.2.4.28	EEI 50-315/316/98018-01, “Improperly Closed Request for Change”	ECATI	Low			Closed IR 99029

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.5	Issues That Pertain to Case Specific Checklist Item 5, Operator Training Issues					
R.2.5.1	LER 50-316/91007-02, "Simulator Scenario Identified Flowpath That Diverted ECCS Flow, Caused by Plant Design/Emergency Response Guidelines"	ECATI	Low			Closed IR 99033
R.2.5.2	IFI 50-315/316/98023-01, "Verify the Quality and Adequacy of the Licensee's EOPs Prior to Plant Restart"	ST/EOP	High		IR 99033	Closed IR 2000010
R.2.6	Issues That Pertain to Case Specific Checklist Item 6, Resolution of Ice Condenser Issues					
R.2.6.1	EEI 50-315/316/98005-01, "Inadequate Instructions for Inspection of Flow Passages"	ICI	Low		See also Case Specific Checklist Item 1. See also LERs 315/98004-02, 315/98005-03, 315/98006-02, 315/98007-01, 315/98008-02, 315/98015-00, 315/98017-01, 315/98025-00, 315/98026-00. Escalated enforcement item A.1.a.	Closed IR 99026
R.2.6.2	EEI 50-315/316/98005-02, "Inadequate Instructions for Selecting Flow Passages"	ICI	Low		See also Case Specific Checklist Item 1. See also LERs 315/98004-02, 315/98005-03, 315/98006-02, 315/98007-01, 315/98008-02, 315/98015-00, 315/98017-01, 315/98025-00, 315/98026-00. Escalated enforcement item A.1.a.	Closed IR 99026

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.6.3	EEI 50-315/316/98005-03, “Insufficient Margin to Analysis Limit for Evaluating a Degraded Ice Condenser”	ICI	Low		See also Case Specific Checklist Item 1. Escalated enforcement item A.2.a.	Closed IR 99026
R.2.6.4	EEI 50-315/316/98005-04, “Insufficient Margin to Analysis Limit for Maximum Gross Ice Basket Weight”	ICI	Low		See also Case Specific Checklist Item 1. Escalated enforcement item A.2.b.	Closed IR 99026
R.2.6.5	EEI 50-315/316/98005-05, “Inadequate Instructions for Entry into an Unanalyzed Condition (Unpinning 60 Ice Baskets)”	ICI	Low		See also Case Specific Checklist Item 1. See also LERs 315/98004-02, 315/98006-02, 315/98007-01, 315/98015-00, 315/98017-01, 315/98025-00, 315/98026-00. Escalated enforcement item A.1.b.	Closed IR 99026
R.2.6.6	EEI 50-315/316/98005-06, “Failure to Follow the Procedure Change Process for a Completed Surveillance Test”	ICI	Low		See also Case Specific Checklist Item 1.	Closed IR 99026

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.6.7	EEI 50-315/316/98005-07, “Failure to Select a Representative Sample of Ice Baskets to Weigh Per TS 4.6.5.1.b2"	ICI	Low		See also Case Specific Checklist Item 1. See also LERs 315/98004-02, 315/98005-03, 315/98006-02, 315/98007-01, 315/98008-02, 315/98015-00, 315/98017-01, 315/98025-00, 315/98026-00, 315/98032-00, 315/98035-01. Escalated enforcement item A.5.	Closed IR 99026
R.2.6.8	EEI 50-315/316/98005-08, “Failure to Assess and Control the Quality of Work by Ice Condenser Contractors”	ICI	Low		See also Case Specific Checklist Item 1. See also LERs 315/98004-02, 315/98005-03, 315/98007-01, 315/98008-02, 315/98015-00, 315/98017-01, 315/98026-00, 315/98032-00, 315/98035-01. Escalated enforcement item A.3.	Closed IR 99026

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.6.9	EEI 50-315/316/98005-09, “Failure to Inspect Accessible Areas of the Lower Ice Basket Per TS 4.6.5.1.d”	ICI	Low		See also Case Specific Checklist Item 1. See also LERs 315/98004-02, 315/98005-03, 315/98007-01, 315/98008-02, 315/98015-00, 315/98017-01, 315/98026-00, 315/98032-00, 315/98035-01. Escalated enforcement item A.4.	Closed IR 99026
R.2.6.10	EEI 50-315/316/98005-10, “Insufficient Margin to TS 4.6.5.3.1.b Limit for Lower Ice Inlet Door Opening Torque”	ICI	Low		See also Case Specific Checklist Item 1.	Closed IR 99026
R.2.6.11	EEI 50-315/316/98005-11, “Insufficient Margin to TS 4.6.5.3.2.b Limit for Intermediate Deck Door Opening Force”	ICI	Low		See also Case Specific Checklist Item 1.	Closed IR 99026
R.2.6.12	LER 50-315/98005-03, “Screws Missing from Ice Condenser Ice Basket Coupling Rings Results in Potential Unanalyzed Condition”	ICI	Low			Closed IR 99026
R.2.6.13	LER 50-315/98024-00, “Allegation Concerning Accuracy of Ice Basket Weights”	ICI	Low		See also Case Specific Checklist Item 1.	Closed IR 99026
R.2.6.14	LER 50-315/99007-00, “Calculations show that the Divider Barrier Between Upper and Lower Containment Volumes May Be Overstressed”	ECATI	Low		See also Case Specific Checklist Item 1.	Closed IR 99029
R.2.7	Issues That Pertain to Case Specific Checklist Item 7, Resolution of Non-Safety Related Cables Going to Shunt Trip Coils					
R.2.7.1	EEI 50-315/98007-02, “An Apparent Violation for Declaring the Recombiner Operable with Recorded Data Which Exceeded the TS Limits”	EFTI	Low		See also Case Specific Checklist Item 1. See also LER 315/98009-01.	Closed IR 2000007

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.7.2	EEI 50-315/98007-03, “An Apparent Violation for an Inadequate Procedure Which Failed to Measure Resistance to Ground Immediately Following the Heat Up Test”	EFTI	Low		See also Case Specific Checklist Item 1. See also LER 315/98019-02.	Closed IR 2000007
R.2.7.3	EEI 50-316/98007-04, “An Apparent Violation for a Procedure Which Caused Inconsistent Performance of TS Surveillances”	ST/EOP	Low		See also Case Specific Checklist Item 1.	Closed IR 99033
R.2.7.4	EEI 50-315/316/98007-05, “An Apparent Violation for Failure to Correct a Previously Identified Condition Regarding Preconditioning of Equipment Prior to a Surveillance Test”	ST/EOP	Low		See also Case Specific Checklist Items 2 and 3.	Closed IR 99033
R.2.7.5	LER 50-315/98016-02, “Non-Safety Related Cables Routed to Safety Related Equipment”	NRR/ Shear Falevits	Low		LER retracted IR 99032 IR 2000007 IR 2000013 See CSC 7	Closed 0350 Mtg. 05/24/00
R.2.8	Issues That Pertain to Case Specific Checklist Item 8, Resolution of Hydrogen Recombiner Operability Issues					
R.2.8.1	LER 50-315/98009-01, “Hydrogen Recombiner Surveillance Requirement Not Being Met Results in a Condition Prohibited by Technical Specifications”	ECATI	Low		See also EEI 50-315/98007-02.	Closed IR 99029
R.2.8.2	LER 50-315/98019-02, “Hydrogen Recombiner Temperature Circuit Technical Specification Surveillance Requirement Not Met”	ECATI	Low			Closed IR 99029
R.2.8.3	LER 50-315/98033-00, “Hydrogen Recombiner Wattmeter Circuit Technical Specification Surveillance Requirement Not Met”	ECATI	Low			Closed IR 99029
R.2.9	Issues That Pertain to Case Specific Checklist Item 9, Resolution of Distributed Ignition Technical Specification Issue					
R.2.9.1	IFI 50-315/98007-08, “Review of the Design Basis for the DIS and How the Raised Lip Supported the Design Basis”				See also Case Specific Checklist Item 3.	Closed IR99001
R.2.9.2	IFI 50-315/98007-09, “Review of the Design Basis for the DIS and How the Spray Impingement May Have Affected the Design Basis”	ECATI	Low		See also Case Specific Checklist Item 3.	Closed IR 99029

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.9.3	IFI 50-315/316/98007-10, "Review of the Design Basis for the DIS and Whether the DIS Is Required to be Environmentally Qualified"				See also Case Specific Checklist Item 3.	Closed IR 99001
R.2.9.4	IFI 50-315/98007-11, "Unable to Identify Any NRC Correspondence That Specifically Approved the Licensee Position"	SRI	Low		See also Case Specific Checklist Item 3.	Closed IR 99021
R.2.9.5	IFI 50-315/98007-12, "DIS Was Declared Inoperable on March 11, 1998, Pending Resolution of the Surveillance Testing Questions"				See also Case Specific Checklist Item 3.	Closed IR99001
R.2.9.6	URI 50-315/316/98007-14, "Review of Whether the DIS Is Required for Design Basis Accidents"					Closed IR99001
R.2.10	Issues That Pertain to Case Specific Checklist Item 10, Resolution of Containment Spray System Operability Issues					
R.2.10.1	LER 50-315/98027-00, "Interim LER - Debris of Unknown Origin Found in West Containment Spray Header"	SRI	High			Closed IR 99022
R.2.10.2	LER 50-315/98030-01, "Incorrect Installation of Containment Spray Heat Exchanger Could Result in Unanalyzed Condition"	ECATI	Low			Closed IR 99029
R.2.10.3	LER 50-315/98034-00, "Interim LER - Flow Rates to Containment Spray Headers Are Potentially Lower than Design Basis Values"	ECATI	High			Closed IR 99029
R.2.13	Issues That Pertain to Case Specific Checklist Item 13, Systems and Containment Readiness Assessments					
R.2.13.1	LER 50-316/99001-00, "Degraded Component Cooling Water Flow to Containment Main Steam Line Penetrations"	SRI	Low			Closed IR 99022
R.2.13.2	LER 50-316/20001-00, "Through -Liner Hole Discovered in Containment Liner"	EFTI	Low		IR 2000013	Closed 0350 Mtg. 05/16/00
R.2.13.3	Operability of degraded Unit 2 CEQ fan room concrete wall (CRs P-00-02506 and P-00-00610). Potential bypass of lower containment during a MSLB if wall fails.	R. Landsman	High			Closed 0350 Mtg. 06/12/00
R.2.13.4	LER 50-315/99019-00, "Victoreen Containment High Range Radiation Monitors Not Environmentally Qualified to Withstand Post-LOCA Conditions"	SRI	Low		IR 2000013	Closed (Pending IR 2000013)
R.2.14	Issues That Pertain to Case Specific Checklist Item 14, Programmatic Readiness Assessment					
R.2.14.1	LER 50-316/99027-00, "Underrated Fuses Used in 250 Vdc System Could Result in Lack of Protective Coordination"	EFTI	High			Closed IR 2000007

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.2.16	Issues That Pertain to Case Specific Checklist Item 16, Resolution of Operability of Motor Operated Valves in the GL 89-10 Program					
R.2.16.1	LER 50-315/99031-00, "Valves Required to Operate Post-Accident Could Fail to Open Due to Pressure Locking/Thermal Binding"	MOV	Low	04/10/00	IR 2000002	Closed 0350 Mtg. 05/01/00
R.2.16.2	LER 50-315/99018-00, "Refueling Water Storage Tank Suction Motor Operated Valve Inoperable Due to Inadequate Design"	SRI	Low		IR 2000013	Closed (Pending IR 2000013)
R.3	License Issues That Need to Be Addressed to Support Plant Restart.					
R.3.1	Unreviewed Safety Question on Containment Sump Level	NRR	High		Amendments 234 and 217 issued 12/13/99. CAL Issue.	Closed. (See Comment)
R.3.2	Ice Condenser Sublimation Rate	NRR	Low		Amendments 234 and 217 issued 12/13/99. CAL Issue.	Closed. (See Comment)
R.3.3	Unreviewed Safety Question on Containment Liner Pitting	NRR	Low		Not a USQ. See IR 99026 E8.2.	Closed IR 99026
R.3.4	Unreviewed Safety Question on Hydrogen Sub-Compartment Issue.	NRR	Low		Following a design basis accident, areas >4% hydrogen. Licensee meets requirements of 10 CFR 50.54 02/15/00 Public Meeting (See Minutes) IR 2000016	Closed 0350 Mtg. 05/30/00
R.3.5	Containment Sump/Spray pH Issue	NRR	Low	12/31/99	See also USQ on Containment Sump Level. IR 2000016	Closed 0350 Mtg. 05/30/00

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.3.6	Hot Leg Nozzle Gap Credit for Peak Centerline Temperature	NRR	Low		Amendments 236 and 218 issued 12/23/99. See also LER 315/98056-00.	Closed. (See Comment)
R.3.7	Unreviewed Safety Question on Reactor Coolant Pump Seal Leakoff	NRR	Low	TBD	See also LER 315/98047-00 See R.2.3.55 IR 2000016	Closed 0350 Mtg. 05/30/00
R.3.8	Control Room Habitability	NRR	Low	TBD	See also USQ on Containment Sump Level. IR 2000016	Closed 0350 Mtg. 06/02/00
R.3.9	Lake Water Temperature Affects on ESW System and Control Room Temperatures	NRR	Low	TBD	See LER 315/97010-02 See EEI 50-315/316/98009-28.	Closed 0350 Mtg. 06/09/00
R.3.10	Adequate NPSH for ECCS Pumps	NRR	High	TBD	TACs MA8265 MA8566	Closed 05/03/00 ltr Stang to Powers
R.3.11	USQ for Auxiliary Feedwater Ventilation	NRR	High	TBD		Closed Amendments 244 (U1) 225(U2) issued 04/25/00
R.3.12	Tornado Missile - Related issue on Unit 2: Missile issue for the Heating, Ventilation and Air Conditioning (HVAC) intake hoods located on the roof of the Electrical Switchgear Room and Spent Fuel Building	NRR			See Minutes to 0350 Mtg held on 06/08/00	Closed 0350 Mtg. 06/08/00
R.3.13	HELB USQ - Licensing Basis Change Request for 10D on Plume and SRP, MEB 3-1 exclusion areas	NRR			See Minutes to 0350 Mtg held on 06/08/00	Closed 0350 Mtg. 06/08/00

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
R.3.14	Methodology Changes to Steam Generator Tube Rupture (SGTR) Analysis: Original 30 minute operator action time to isolate the affected Steam Generator to prevent overfill was not supported by analysis	NRR			See Minutes to 0350 Mtg held on 06/08/00	Closed 0350 Mtg. 06/08/00
R.3.15	Loss of AC and Feedwater Analyses Revision: Input changes on positive Moderator Temperature Coefficient (MTC) used to meet acceptance criteria, resulting in a reduction in safety margin for Unit 2	NRR			See Minutes to 0350 Mtg held on 06/08/00	Closed 0350 Mtg. 06/08/00
R.3.16	Auxiliary Building Engineered Safety Feature Ventilation System (AES or ESF) Filtration System Bypass Damper Redundancy: The previous charcoal filter bypass dampers were installed in series; because of excess leakage rates they were replaced, however, the replacement dampers were installed in parallel and are subject to single failure issues.	NRR			See Minutes to 0350 Mtg held on 06/08/00	Closed 0350 Mtg. 06/08/00
R.3.17	Changes in Input Assumptions and the UFSAR for Transient Mass Distribution (TMD) Analysis: Reconstitution of Sub-Compartment Blowdown Analysis and Assumptions Resulted in Differential Pressures Higher than in the UFSAR	NRR			See Minutes to 0350 Mtg held on 06/08/00	Closed 0350 Mtg. 06/08/00
R.4	Issues That Could Result in Significant Personnel Radiation Exposure, Radioactivity Release or Effluent Discharge, in Excess of Limits.					
R.4.1	IFI 50-315/316/96013-08, “Consequences of Single Failure of CCP [Centrifugal Charging Pump] Emergency Leakoff Valves”	ECATI	Low		SOPI Issue.	Closed IR 99029
R.4.2	IFI 50-315/316/98004-08, “Peak Containment Pressure and Long-Term Post-LOCA Core Subcriticality Evaluations”	ECATI	Low			Closed IR 99029
R.4.3	LER 50-315/98029-01, “Spent Fuel Pool Ventilation Inoperable Due to Original Design Deficiency”	ECATI	Low			Closed IR 99029
Guidelines for Restart Approval						
C.1.1	Root Cause Determination					
C.1.1.b	Potential root causes of the conditions requiring shutdown and any associated problems were thoroughly evaluated.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
C.1.1.c	The scope of the analysis considered the applicability of related issues on similar systems, structures, components, procedures, processes, or activities at their own and other industry facilities in an attempt to identify trends or generic industry concerns.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.1.e	Rationale for rejecting potential root causes was clearly defined and documented for all root causes evaluated.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.1.f	The licensee's rationale for terminating the root cause and casual factors analyses was based on a documented process that provides a reasonable basis for all conclusions reached.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.1.g	The population of potential root causes and their respective evaluations have been independently reviewed by the licensee's oversight committee.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.2	Corrective Action Development					
C.1.2.a	The proposed corrective actions are clearly cross-referenced to all of the associated root causes and causal factors they are intended to correct as appropriate.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.2.b	Each of the corrective actions is assigned an appropriate priority based on safety significance to ensure the proper resources and attention are devoted.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.2.c	Proposed corrective actions identify the desired conditions to be achieved and are adequate to preclude repetition.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
C.1.2.d	Corrective actions are sufficiently detailed to ensure that all activities related to completion of the corrective action have been identified (i.e., procedure or drawing changes, Technical Specification changes, etc.).	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.2.e	Corrective actions include restoring systems and equipment to service and verifying they can perform their intended safety functions through post-maintenance or post-modification testing.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.2.f	The licensee performed safety evaluations to ensure that corrective actions (e.g., procedure changes or modifications) did not result in a loss of safety margin.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Items 2 and 4. IR 2000013	Closed 0350 Mtg. 05/24/00
C.1.2.g	The licensee adhered to applicable industry codes and standards during the development and analysis of corrective actions.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.2.h	The licensee expanded the scope of the corrective actions to consider all of the casual factors that contributed to the deficiency or problem, including potential generic concerns.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.2.i	Development of the corrective actions included insights from the organizations or individuals that may have contributed to the event, those responsible for developing the corrective actions, and those responsible for implementing the corrective actions.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.2.j	Interim corrective actions have been developed and documented when permanent corrective action will take an excessive amount of time to implement or cannot be completed before the licensee plans to restart the facility.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/24/00

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
C.1.2.k	All corrective actions have been incorporated into a comprehensive corrective action plan, which has been approved by the licensee's independent oversight committee.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3	Corrective Action Plan Implementation and Effectiveness					
C.1.3.a	Each of the corrective actions is assigned a required start and completion date commensurate with the complexity and safety significance of the action.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3.b	An organization and individual have been designated with lead responsibility for each of the corrective actions.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3.c	The responsible individual has sufficient authority, resources, and management support to ensure the action will be adequately completed.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3.d	The licensee has defined objectives to be achieved from implementing the corrective action plan, including interim objectives to assess the progress of the plan. The objectives are focused on ensuring a lasting improvement in the operation and maintenance of the plant.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3.e	Whenever possible, the licensee's objectives are based on a measurable set of criteria that the licensee can track and trend, as appropriate, to provide continuous monitoring of the implementation and effectiveness of the corrective action plan. These measures should form the acceptance criteria for closure and provide precursor indication of declining performance.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3.f	The licensee has anticipated and addressed potential conflicts of implementing the corrective action plan with existing facility operational (maintenance, engineering, etc.) practices, regulatory requirements, or personnel activities.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
C.1.3.g	The corrective action plan contains guidance for the licensee to assess changing information or conditions to determine whether the licensee must modify the corrective action plan.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3.h	The licensee has developed training on both lessons learned from the event analysis and root cause determination and the technical and administrative changes made to the facilities or practices that includes a discussion regarding why the changes are necessary.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3.i	The corrective action plan includes requirements to have self-assessments, and as necessary independent assessments, of the implementation and effectiveness of the plan.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.1.3.j	In cases where long term actions remain to be accomplished, the licensee has clearly documented when the action will be complete, the basis for the delay in completing the actions, and how the action will be tracked and trended to ensure completion.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/24/00
C.1.3.k	The licensee has established a predefined time frame following completion of the corrective actions during which they will continue to monitor the effectiveness of the corrective actions.	MC 0350 Panel	High	N/A	See also Case Specific Checklist Item 2. IR 2000013	Closed 0350 Mtg. 05/10/00
C.2.1	Self-Assessment Capability					
C.2.1.a	Effectiveness of Quality Assurance Program.	SRI	High	N/A		Closed IR 99022
C.2.1.c	Effectiveness of licensee's Independent Review Groups.	SRI	High	N/A	IR 2000013	Closed 0350 Mtg. 05/24/00
C.2.1.d	Effectiveness of deficiency reporting system.	SRI	High	N/A		Closed IR 99022
C.3.1	Assessment of Staff					
C.3.1.a	Demonstrated commitment to achieving improved performance through the results of the programmatic readiness assessment.	SRI	High	N/A		Closed IR 99022

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
C.3.1.d	Understanding of plant issues and corrective actions.	SRI	High	N/A	IR 2000013	Closed 0350 Mtg. 05/24/00
C.3.2	Assessment of Corporate Support					
C.3.2.a	Demonstrated commitment to achieving improved performance through the results of the programmatic readiness assessment.	SRI	High	N/A		Closed IR 99022
C.3.2.e	Effectiveness of corporate engineering support.	EFTI	High	N/A		Closed IR 2000007
C.3.2.f	Effectiveness of corporate design modification process.	EFTI	High	N/A		Closed IR 2000007
C.3.2.g	Effectiveness of licensing support.	NRR	High	N/A	IR 2000016	Closed 0350 Mtg. 06/02/00
C.3.3	Operator Issues					
C.3.3.d	Effectiveness of restart simulator/required training necessary to re-familiarize personnel with operating conditions.	SRI RRATI	High	N/A	See also Case Specific Checklist Item 5.	Closed 0350 Mtg. 05/19/00
C.3.3.e	Assessment of plant staff performance during restart. Sustained control room observations by NRC personnel	RRATI	High	N/A		Closed 0350 Mtg. 05/19/00
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	High	N/A	See also Case Specific Checklist Items 6 through 12 and 16. IR 2000016	Closed 0350 Mtg. 06/05/00
C.4.b	Operability of required secondary and support systems.	SRI RRATI	High	N/A	See also Case Specific Checklist Items 6 through 12 and 16.	Closed 0350 Mtg. 05/19/00
C.4.c	Results of pre-startup testing.	SRI	High	N/A	IR 2000016	Closed 0350 Mtg. 06/05/00
C.4.d	Adequacy of system lineups.	SRI	High	N/A	IR 2000016	Closed 0350 Mtg. 06/05/00

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
C.4.e	Adequacy of surveillance tests/test program.	SRI SI	High	N/A	See also Case Specific Checklist Item 1.	Closed IR 2000001
C.4.f	Significant hardware issues resolved (i.e., equipment with poor material condition, equipment aging, modifications).	SRI	High	N/A	See also Case Specific Checklist Items 6 through 12 and 16. IR 2000013	Closed 0350 Mtg. 05/01/00
C.4.g	Adequacy of the power ascension testing program.	SRI	High	N/A	IR 2000016	Closed 0350 Mtg. 06/05/00
C.4.h	Effectiveness of the plant maintenance program.	SRI	High	N/A	IR 2000016	Closed 0350 Mtg. 06/05/00
C.4.i	Maintenance backlog managed and impact on operation assessed.	SRI SRA	High	N/A	IR 2000013	Closed 0350 Mtg. 05/24/00
C.4.j	Adequacy of plant housekeeping and equipment storage.	SRI	High	N/A	IR 2000016	Closed 0350 Mtg. 06/05/00
C.5	Assessment of Compliance with Regulatory Requirements					
C.5.a	Applicable licensee amendments have been issued.	NRR	High	N/A	IR 2000016	Closed 0350 Mtg. 05/30/00
C.5.b	Applicable exemptions have been granted.	NRR	High	N/A	IR 2000016	Closed 0350 Mtg. 05/30/00
C.5.c	Applicable reliefs have been granted.	NRR	High	N/A	IR 2000016	Closed 0350 Mtg. 05/30/00
C.5.d	Imposed orders have been modified or rescinded.	MC 0350 Panel	High	N/A	IR 2000016	Closed 0350 Mtg. 06/02/00
C.5.e	Confirmatory Action Letter conditions have been satisfied.	MC 0350 Panel	High	N/A		Closed IR 99022

Enclosure 1

Item No.	Description	NRC Lead	Priority	Licensee Status	Comments	Status
C.5.f	Significant enforcement issues have been resolved.	MC 0350 Panel	High	N/A	IR 2000013	Closed 0350 Mtg. 05/24/00
C.5.g	Allegations have been appropriately addressed.	MC 0350 Panel	High	N/A		Closed 0350 Mtg. 06/12/00
C.5.h	10 CFR 2.206 Petitions have been appropriately addressed.	NRR	High	N/A	IR 2000016	Closed 0350 Mtg. 05/30/00
C.6	Coordination with Interested Agencies and Parties					
C.6.e	Appropriate state and local officials. -FEMA -Congressional Affairs -Inform Stakeholders	RIII State Liaison Officer MC 0350 Panel	High	N/A		Open
C.6.f	Appropriate public interest groups.	Public Affairs	High	N/A		Open
C.6.g	Local news media.	Public Affairs	High	N/A		Open