



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

MAY 31 1994

MEMORANDUM FOR: L. J. Callan, Regional Administrator

FROM: A. Bill Beach, Chairman
South Texas Project Restart Panel

SUBJECT: COMPLETION OF SOUTH TEXAS PROJECT UNIT 2 CONFIRMATORY ACTION
LETTER ITEMS AND RESTART ACTION PLAN STATUS

The purpose of this memorandum is to document the discussions and presentation to you on May 17, 1994, which informed you of the status of Houston Lighting & Power Company's (HL&P) actions to implement the South Texas Project (STP) Confirmatory Action Letter (CAL 4-93-04B) dated October 15, 1993, and the status of tasks associated with the STP Restart Action Plan for Unit 2. A previous memorandum from Samuel J. Collins to you, dated March 3, 1994, documented those HL&P actions to implement the STP CAL and the status of tasks associated with the STP Restart Action Plan for Unit 1.

Confirmatory Action Letter

On February 3, 1993, following a reactor trip, the Unit 2 turbine-driven auxiliary feedwater pump started and immediately tripped on overspeed. On February 4, 1993, Unit 1 was required to shut down as a result of repeated failures of the turbine-driven auxiliary feedwater pump to start on demand and operate without tripping on overspeed. As a result of these problems, NRC issued a Confirmatory Action Letter (CAL) to HL&P on February 5, 1993, and dispatched an augmented inspection team (AIT). The CAL required resolution of the overspeed trip condition affecting the turbine-driven auxiliary feedwater pumps and a briefing of NRC staff prior to restart of either unit.

In addition to the AIT activities, several special inspections were conducted at STP, including a diagnostic evaluation by the NRC office of Analysis and Evaluation of Operational Data conducted during the period of March 29 to April 30, 1993. The findings of these reviews resulted in supplements to the CALs issued on May 7, 1993 (CAL 4-93-04), and October 15, 1993 (CAL 4-93-04B). These supplements included issues that NRC considered of sufficient scope and safety significance to require resolution prior to either unit being restarted (Enclosures 1, 2, and 3). Those issues involving Unit 1 have been resolved as documented in Mr. Collin's memorandum.

Licensee Actions

In addition to the hardware related issues at STP, the NRC required HL&P to address programmatic problems, including work backlogs, postmaintenance testing shortcomings, outstanding modifications, operations staffing adequacy, fire protection equipment and training, management effectiveness in

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identifying, pursuing, and correcting plant problems, and the results of internal restart readiness reviews. In response, the licensee developed the Operational Readiness Plan submitted to the NRC in August 1993, which described specific actions to be taken prior to the resumption of power operation. Additionally, longer-term actions were described in the Business Plan submitted to NRC in October 1993. The Operational Readiness Plan for Unit 2 was submitted to the NRC in March 1994.

On May 9, 1994, HL&P requested a meeting to brief the NRC on the status of the issues described in the February 5, 1993, CAL and its supplements. In the licensee's written submittal dated May 16, 1994, they described the actions taken in response to NRC concerns and included a summary of actions remaining prior to resumption of power operation. A public meeting was conducted at the site on May 17, 1994, during which the licensee confirmed actions taken in preparation for the resumption of power operation of STP, Unit 2.

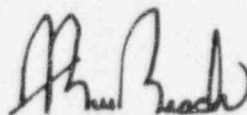
NRC Actions

The NRC Region IV Regional Administrator chartered the STP Review Panel on March 11, 1993. The STP Review Panel implemented NRC Inspection Manual Chapter 0350, "Staff Guidelines for Restart Approval," as described in Samuel J. Collins' memorandum of March 3, 1994, to you. The STP Restart Panel issued the STP Restart Action Plans. Revision 1 of the Unit 2 Plan is attached as Enclosure 4.

Based on the independent inspections and reviews conducted by the NRC staff and described in Enclosure 4 (STP Restart Action Plan), the licensee has satisfactorily completed the items specified in the CAL.

Restart Panel Meeting

The STP Restart Panel met on May 17, 1994, in accordance with NRC Manual Chapter 0350, "Staff Guidelines for Restart Approval," to review outstanding issues requiring resolution prior to restart of Unit 2. Based on the independent inspection and reviews conducted at STP and described in Enclosure 4 and the satisfactory resolution of those items addressed in the May 17, 1994, public meeting, the Panel recommended approving the resumption of operation of STP, Unit 2, in accordance with the facility Technical Specifications. In accordance with the May 3, 1994, memorandum from the Director, Division of Reactor Projects to the STP Restart Panel, augmented inspection coverage of the unit restart commenced operations on May 16, 1994, and will continue until Unit 2 has demonstrated successful operation.



A. Bill Beach, Chairman
STP Restart Panel

Enclosures:

1. CAL of February 5, 1993
2. CAL of May 7, 1993
3. CAL of October 15, 1993
4. STP Unit 2 Restart Action Plan, Revision 1

cc w/enclosures:

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Vice President, Nuclear
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Wadsworth, Texas 77483

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bcc to DMB (IE36)

bcc distrib. by RIV:

L. J. Callan
 Branch Chief (DRP/A)
 MIS System
 RIV File
 R. Bachmann, OGC, MS: 15-B-18
 A. Thadani, NRR, MS: 15-B-18
 J. Roe, NRR, MS: 12-G-18
 RIV OEDO Coordinator, MS: 17-G-21
 L. Kokajko, NRR, MS: 13-H-10
 S. Black, NRR, MS: 13-H-15

Resident Inspector
 Leah Tremper, OC/LFDCB, MS: MNBB 4503
 DRSS-FIPB
 Project Engineer (DRP/A)
 Branch Chief (DRP/TSS)
 W. Russell, NRR, MS: 12-G-18
 E. Adensam, NRR, MS: 13-E-4
 S. Collins, D:DRSS
 T. Gwynn, D:DRS
 A. Howell, Acting in OEDO, MS: 17-G-21

RIV:DRP/A	SRI/DRP/A	D:DRS	D:DRSS	NRR
WDJohnson;df	DPLoveless	TPGwynn	SCollins	LEKokajko
5/26/94	5/27/94	5/31/94	5/29/94	5/31/94

NRR	D:DRP			
SCBlack	ABBlack			
5/27/94	5/28/94			



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV
611 RYAN PLAZA DRIVE, SUITE 470
ARLINGTON, TEXAS 76010-0664

ENCLOSURE 1

FEB - 5 1993

Docket 50-498
50-499
License NPF-76
NPF-80
CAL 4-93-04

Houston Lighting & Power Company
ATTN: Donald P. Hall, Group
Vice President, Nuclear
P.O. Box 1700
Houston, Texas 77251

SUBJECT: CONFIRMATORY ACTION LETTER

Pursuant to our telephone conversation on February 4, 1993, it is our understanding that South Texas Project, Units 1 and 2, will not be taken critical until you have briefed the NRC staff of the results of your efforts to correct the overspeed trip condition that is affecting the turbine-driven auxiliary feedwater pumps.

Pursuant to Section 182 of the Atomic Energy Act, 42 U.S.C. 2232, and 10 CFR 2.204, you are required to notify me immediately if your understanding differs from that set forth above.

Issuance of this Confirmatory Action Letter does not preclude issuance of an order formalizing the above commitments or requiring other actions on the part of the licensee. Nor does it preclude the NRC from taking enforcement action for violations of NRC requirements that may have prompted the issuance of this letter. In addition, failure to take the actions addressed in this Confirmatory Action Letter may result in enforcement action.

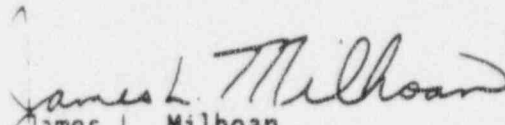
The responses directed by this letter are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Action of 1980, Pub. L. No. 96-511.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

802160019

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter will be placed in the NRC Public Document Room.

Sincerely,


James L. Milhoan
Regional Administrator

cc:
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NRC Public Document Room

Texas Radiation Control Program Director



UNITED STATES
NUCLEAR REGULATORY COMMISSION

ENCLOSURE 2

REGION IV

511 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

MAY - 7 1993

Dockets: 50-498
50-499
Licenses: NPF-76
NPF-80
CAL 4-93-04

Houston Lighting & Power Company
ATTN: William T. Cottle, Group
Vice President, Nuclear
P.O. Box 1700
Houston, Texas 77251

SUBJECT: CONFIRMATORY ACTION LETTER SUPPLEMENT

This supplements my Confirmatory Action Letter of February 5, 1993, which noted Houston Lighting & Power Company's management agreement that South Texas Project, Units 1 and 2, will not be taken critical until the NRC Staff has been briefed on the results of your efforts to correct the overspeed trip condition which affected the turbine-driven auxiliary feedwater pumps.

Because of the number of issues that have been identified both by your staff and the NRC, you agreed, in our telephone conversation of May 7, 1993, to include the following additional topics in your briefing of the NRC staff which will be scheduled later.

- The Station Problem Report process, including process improvements, threshold, and the results of your review of existing reports for issues affecting equipment operability and safe plant operation;
- The Service Request backlog, including reduction accomplished during the current outages and your review of outstanding Service Requests for issues affecting equipment operability, safe plant operation, and operator work-arounds;
- The postmaintenance test program, including corrective actions in response to recent violations and other process improvements and the basis for your confidence that equipment removed from service for maintenance is properly restored to an operable status;
- The outstanding design modifications, temporary modifications, and other engineering backlog items, including your review of these for issues affecting equipment operability, safe plant operation, and operator work-arounds;

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- Staffing in the operations department, including adequacy of current staffing levels, plans for replacing planned and unexpected losses to support safe plant startup and operation, and the adequacy of staffing under emergency conditions;
- The status of fire brigade leader training, including verification that this training meets regulatory requirements;
- The status of the fire protection computers, including reliability and functionality of operator interface;
- Management effectiveness in identifying, pursuing, and correcting plant problems, including any plans for independent reviews; and
- The results of your internal restart readiness reviews.

It is important that a thorough review of the backlogs in the areas of Service Requests, engineering items, and Station Problem Reports be conducted to assure that unknown equipment operability problems are identified and corrected. An example of a recent problem affecting safety-related equipment operability which had previously been identified in a Service Request was the missing screws in the Qualified Display Processing System. Weaknesses in the postmaintenance testing program have resulted in inoperable equipment being returned to service. The many outstanding design modifications should be carefully prioritized to ensure that those with importance to safety of operations are implemented in a timely manner and that no potential operability issues exist.

In view of the marginal staffing level in the operations department, it is important that unnecessary burdens and distractions be removed and that you have a plan in place to provide for contingencies and losses. Adequacy of the initial training for fire brigade leaders is an open issue and their overdue requalification training has resulted in an extra burden being placed on nonlicensed operators. Reliability of and operator interface difficulties with the fire protection computers has placed an extra burden on operators and could delay response to a fire in the plant. The outstanding temporary modifications which require additional operator actions, such as manual operation of automatic control systems, should be restored to minimize their impact on the efficiency of operators.

Weaknesses in problem identification, problem reporting, safety impact evaluation, root cause analysis, and corrective action processes have been observed in both the Station Problem Report process and in the Service Request process, indicating ineffective management of these areas.

This listing of topics for discussion is intended to focus the briefing on staff concerns involving potential safety issues. If other such topics are identified prior to the briefing, you will be advised by letter or telephone. Please inform me when your staff has made significant progress in addressing

these issues so I can schedule a special inspection prior to the briefing. All provisions of the February 5, 1993, letter remain in effect. If you have any questions, please feel free to contact me or Bill Beach of my staff.

Sincerely,

James L. Milhoan
James L. Milhoan
Regional Administrator

cc:
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UNITED STATES
NUCLEAR REGULATORY COMMISSION

ENCLOSURE 3

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
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OCT 15 1993

Dockets: 50-498
 50-499
Licenses: NPF-76
 NPF-80
CAL 4-93-04B

Houston Lighting & Power Company
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P.O. Box 1700
Houston, Texas 77251

SUBJECT: CONFIRMATORY ACTION LETTER SUPPLEMENT 2

This is the second supplement to my Confirmatory Action Letter of February 5, 1993, which noted Houston Lighting & Power Company's management agreement that South Texas Project, Units 1 and 2, will not be taken critical until the NRC staff has been briefed on the results of your efforts to correct the overspeed trip condition which affected the turbine-driven auxiliary feedwater pumps.

As discussed with Mr. John Groth in a public meeting in Arlington, Texas, on October 5, 1993, the following topics have been identified as additions to the issues which must be resolved prior to startup of either South Texas Project unit. In a telephone conversation on October 15, 1993, you acknowledged these issues and agreed that these topics would be addressed in your briefing of the NRC staff in a meeting to be scheduled prior to unit startup.

The additional topics are:

- Effectiveness of the SPEAKOUT program;
- Standby diesel generator reliability;
- Essential chiller reliability;
- The system certification program;
- Reliability and operability of the feedwater isolation bypass valves;
- Adequacy of tornado damper testing; and
- Acceptability of the emergency preparedness accountability drill results.

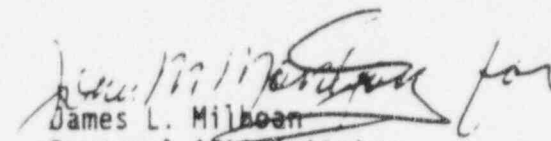
These are not new issues, but they were considered to be significant following reviews of the Diagnostic Evaluation Report, your Operational Readiness Program, the allegation process, and recent NRC inspection findings. The complete results of these reviews are documented in NRC Inspection Report 50-498/93-31; 50-499/93-31. This listing of topics for discussion is

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intended to focus the briefing on staff concerns involving potential safety issues. If other such topics are identified prior to the briefing, you will be advised by letter or telephone. Please inform me when your staff has made significant progress in addressing these issues so I can schedule special inspections prior to the briefing. All provisions of the February 5, 1993, letter and its supplement of May 7, 1993, remain in effect. If you have any questions, please feel free to contact me or Mr. Art Howell of my staff.

Sincerely,


James L. Milboon
Regional Administrator

cc:

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MAY 31 1994

MEMORANDUM FOR: L. J. Callan, Regional Administrator
L. A. Reyes, Acting Associate Director for Project
Office of Nuclear Reactor Regulation

FROM: A. Bill Beach, STP Restart Panel Chairman

SUBJECT: SOUTH TEXAS PROJECT UNIT 2 RESTART ACTION PLAN, REVISION 1

Attached for your information is Revision 1 of the South Texas Project Restart Action Plan for Unit 2. This revision updates the plan following the completion of the remainder of the checklist items in preparation for restart of STP Unit 2 and completes the Restart Action Plan. In accordance with the STP Unit 2 Restart Action Plan, the inspections performed to confirm resolution of restart issues were performance based, focusing on the effectiveness of implementation in Unit 2 of programs previously reviewed in conjunction with Unit 1 restart inspections.

A. Bill Beach
STP Restart Panel Chairman

Enclosure: South Texas Project
Unit 2 Restart Action Plan, Revision 1

cc w/enclosure:
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L. J. Callan
L. A. Reyes

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SOUTH TEXAS PROJECT UNIT 2 RESTART ACTION PLAN

PLANT SPECIFIC STARTUP ISSUES

The list of plant specific restart issues was developed from a review of the Diagnostic Evaluation Team Report, the Confirmatory Action Letter and supplements, the licensee's Operational Readiness Plan, routine and special NRC reports, the allegation process, and NRC staff actions assigned by the Executive Director for Operations following the Diagnostic Evaluation. NRC Inspection Report 50-498/499-93-31 identified issues which require resolution prior to the restart of either STP unit.

The following table lists the plant-specific restart issues and their status. The STP Restart Panel met onsite May 17, 1994, to review the status of Unit 2 restart issues following a presentation by the licensee.

RESTART ISSUE		RELATED ITEMS	DATE CLOSED UNIT 2	DATE CLOSED UNIT 1
1	Turbine-driven Auxiliary Feedwater Pump Reliability and Testing Methodology	9331-07(9338-0) (9346-0) (9404-0), 08(9338-0) (9344-0) (9345-C) (9353-0) (9404-0), 09(9338-0) (9344-0) (9353-0) (9404-0), 10(9338-0) (9346-0) (9348-C), 43(9338-C), 50(9338-0), 71(9338-C) 9305-04(9338-C), 05(9338-0) (9406-C), 07(9338-C) Unit 1 LER 9307(9338-0) Unit 2 LER 9304(9338-0) (9355-C)	05/17/94 9417	02/14/94 9338 9409
2	Station Problem Report Process, Threshold, Licensee's Review of Existing Reports for Issues Affecting Operability and Safe Plant Operation	9331-06(9338-0) (9354-C) 18(9344-0) (9345-0) (9354-0), 23(9354-0) (9348-C) (9355-0), 25(9406-C), 26(9354-0), (9348-C), 27(9354-0) (9348-C), 28(9344-0) (9354-C), 67(9354-C) 9235-02(9354-C) (9404-C), 9224-01(9354-C) (9404-C) 9321-01(9333-C), 9322-02(9333-C) 9308-02(9345-C), 04(9345-C)	05/17/94 9420	02/01/94 9354
3	Service Request Backlog, Including Reduction Accomplished During the Current Outages and the Licensee's Review of Outstanding Srs for Issues Affecting Equipment Operability, Safe Plant Operation, and Operator Work-arounds	9331-02(9345-0) (9353-C), 03(9340-0) (9341-C) (9346-0) (9353-C), 07(9338-0) (9346-0) (9404-0), 08(9338-0) (9344-0) (9345-0) (9353-0) (9404-0), 09(9338-0) (9344-0) (9353-0) (9404-0), 29(9353-C), 31(9345-C), 37(9353-0) (9408-C), 38(9353-0), 39(9353-0) (9408-0), 47(9353-0) (9348-0) (9408-0), 49(9345-C) (9353-0) (9408-C), 62(9353-0) (9408-0), 79(9353-0) (9346-0), 80(9353-C)	05/17/94 9420	02/01/94 9408

RESTART ISSUE	RELATED ITEMS	DATE CLOSED UNIT 2	DATE CLOSED UNIT 1
4 The Postmaintenance Test Program, Including Corrective Actions in Response to Violations and Other Process Improvements and the Basis For the Licensee's Confidence That Equipment Removed From Service for Maintenance is Properly Restored to an Operable Status	9331-03(9340-0) (9341-C) (9346-0) (9353-C), 04(9337-0) (9346-0), 07(9338-0) (9346-0) (9404-0), 10(9338-0) (9346-0) (9348-C), 13(9339-0) (9344-0) (9346-0) (9348-C), 14(9339-C), 15(9346-0), 51, 63 (9346-C), 68(9339-C), 79(9353-0) (9346-0), 9226-03(9339-C) (9404-C), 9320-02(9339-C) 9305-01, 05, 07(9344-C) Unit 1 LER 9204(9339-C), 9207(9339-C), 9214(9339-C), 9216(9339-C), 9305(9344-C)	05/17/94 9417	02/01/94 9346 9354
5 The Outstanding Design Modifications, Temporary Modifications, and Other Engineering Backlog Items, Including the Licensee's Review of These For Issues Affecting Equipment Operability, Safe Plant Operation, and Operator Work-arounds	9331-02(9337-0) (9345-0) (9353-C), 04(9337-0) (9346-0), 08(9338-0) (9344-0) (9345-0) (9353-0) (9404-0), 12(9344-0) (9348-C), 16(9355-C), 18(9344-0) (9345-0) (9354-0) (9355-0), 19(9344-0) (9345-C), 20(9404-C), 21(9404-C), 30(9345-0), (9348-C) (9355-C), 31(9345-C), 40(9345-C), 41(9345-0) (9348-C) (9355-C), 42(9345-0) (9348-C) (9355-C), 44(9404-C), 45(9404-C), 48(9345-C), 52(9338-0) (9345-C), 64(9345-C), 65(9340-0) (9341-C), 77(9345-C), 81(9345-C), 9208-01(9406-C) 9306-07(9353-0), 9315-01(9345-C) Unit 1 LER 9220(9345-C) Unit 2 LER 9204(9345-C)	05/17/94 9420	02/01/94 9355

RESTART ISSUE		RELATED ITEMS	DATE CLOSED UNIT 2	DATE CLOSED UNIT 1
6	Adequacy of Operations Staffing	9331-01(9340-0) (9341-C), 03(9340-0) (9341-C) (9346-0) (9353-C), 24(9340-C), 56(9340-0) (9341-C), 57(9340-0) (9341-0) (9406-C), 59(9340-0) (9341-C), 60(9340-C), 65(9340-0) (9341-C), 66(9340-0) (9341-C), 73(9340-0) (9341-C) 9116-02(9340-0) (9341-0) (9406-C) 9304-03(9340-C), 04(9340-C), 9311-04(9340-C), 9322-01(9340-C) Unit 2 LERs 9305(9340-C), 9312(9340-C)	05/17/94 9417 9420	02/01/94 3341
7	Adequacy of Fire Brigade Leader Training and Qualifications	9331-04(9337-0) (9346-0), 33(9337-C), 75(9337-0) (9345-C)	04/19/94	02/01/94 9337
8	Adequacy of Fire Protection Computers and Software, the Licensee's Success in Reducing the Number of Spurious Fire Protection System Alarms, and Other Fire Protection Hardware Problems	9331-02(9337-0) (9345-0) (9353-C), 04(9337-0) (9346-0), 17(9337-0) (9345-C), 22(9337-0) (9345-C), 58(9337-C), 75(9337-0) (9345-C) 9235-06(9337-0), 9309-01(9337-C)	05/04/94 9415	02/01/94 9345

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RESTART ISSUE		RELATED ITEMS	DATE CLOSED UNIT 2	DATE CLOSED UNIT 1
9	Licensee Management's Effectiveness in Identifying, Pursuing, and Correcting Plant Problems	9331-04(9337-0) (9346-0), 05(9406-C), 06(9338-0) (9354-C), 17(9338-0) (9345-C), 18(9344-0) (9345-0) (9354-0) (9355-0), 22(9337-0) (9345-C), 23(9354-0), (9348-C), 25(9406-C), 32, 34, 35(9338-0) (9345-C), 37(9353-0) (9408-C), 46(9355-C), 54(9406-C), 55(9343-0) (9406-C), 56(9340-0) (9341-C), 61(9406-C), 62(9353-0) (9408-0), 65(9340-0) (9341-C), 67(9354-C), 69, 70(9338-C), 72(9338-C), 73(9340-0) (9341-C), 80(9353-C), 82(9343-C), 9321-01, 9322-02 9224-01(9354-C) (9404-C) 9217-02(9406-C), 04, 9303-01(9406-0) 9308-02(9345-C), 04(9345-C) Unit 1 LER 9204(9339-C)	05/17/94 9420	02/01/94
10	NRC Review of the Effectiveness of the Licensee's SPEAKOUT Program	9331-78(9352-C)	05/17/94 9421	02/01/94 9352
11	Standby Diesel Generator Reliability	9331-08(9338-0) (9344-0) (9345-0) (9353-0) (9404-0), 09(9338-0) (9344-0) (9353-0) (9404-0), 11(9344-C), 12(9344-0) (9348-C), 13(9344-0) (9348-C), 16(9355-C), 19(9344-0) (9345-C), 28(9344-0) (9354-C) 9214-03(9344-C), 9221-03(9344-C) 9305-01(9344-C), 9315-03(9330-C) Unit 1 LER 9305(9344-C)	05/17/94 9413 9416	02/01/94 9344

RESTART ISSUE		RELATED ITEMS	DATE CLOSED UNIT 2	DATE CLOSED UNIT 1
12	Essential Chiller Reliability	9331-10(9338-0) (9346-0) (9348-C), 13(9344-0) (9348-C), 20(9404-C), 21(9404-C), 44(9404-C), 45(9404-C), 74(9404-C), 9224-03(9404-C)	05/17/94 9417	02/01/94 9404
13	Monitoring of the Licensee's System Certification Program	9331-35(9338-0) (9345-C), 53(9345-0)	05/17/94 9417	02/01/94 9345
14	Adequacy of the Licensee's Resolution of the Reliability and Operability of the Feedwater Isolation Eypass Valves	9319-01 through 07(9335-C) 9324-01(9335-0) (9406-C) Unit 1 LER 9317(9335-C) Unit 1 LER 9320(9335-0) (9406-C) 9335-01(9406-C)	05/17/94 9417	02/15/94 9406 9409
15	Tornado Damper Issues	9331-76(9342-C)	05/17/94 9417	02/01/94 9342
16	Emergency Preparedness Accountability Issues	URI 498;499/9325-02(9347-C)	04/19/94	02/01/94 9347

Reference/Information (Unit 1)

1. Resolved with exception of Mode 3 testing in IR 9338. Mode 3 testing completed IR 9409.
2. IR 9354 proposed closing this issue. ORAT found corrective action program to be weak, but improvements were in progress and program was adequate to support restart. Discussed in Panel meeting 02/01/94.
3. Progress noted in IR 9353. Followup in IR 9408. Discussed in Panel meeting 02/01/94.
4. Progress noted in IR 9339. Significant program improvement noted in IR 9346, but implementation weaknesses exist. Correction of weaknesses addressed in IR 5354. Discussed in Panel meeting 02/01/94.
5. Progress noted in IR 9345. Followup conducted in IR 9355. Discussed in Panel meeting 02/01/94.
6. Progress noted in IR 9340. Operator administrative workload reductions noted in IRs 9346 and 9353. Closed in IR 9341 dated 12/16/93. Discussed in Panel meeting 02/01/94.
7. Closed in IR 9337 dated 11/23/93. Discussed in Panel meeting 02/01/94.
8. Addressed in IR 9345. Discussed in Panel meeting 02/01/94.
9. Favorable observations with respect to fire protection issues in IR 9337. Favorable comments with respect to TDAFW issues in IR 9338. Favorable observations with respect to operator staffing issues in IRs 9339 and 9341. Favorable observations with respect to tornado damper issues in IR 9342. Good response to refueling machine problems noted in IR 9335. Good response to SR backlog noted in IR 9353. Favorable overall findings in IR 9343. Favorable findings with respect to PMT noted in IR 9346. Favorable observations with respect to standby diesel generators in IR 9344. Favorable observations in IR 9345. Addressed in IR 9355. Panel discussions on 01/27/94 and 02/01/94.
10. IR 9352 issued 01/21/94. Panel discussion on 02/01/94.
11. Addressed in IR 9344. Followup open items in IR 9355. Discussed in Panel meeting 02/01/94.
12. Addressed in IR 9404. Discussed in Panel meeting 02/01/94.
13. Favorable observations in IR 9336. Addressed in IR 9345. Discussed in Panel meeting 02/01/94.
14. Significant progress noted in IR 9335. Addressed in IR 9406. Mode 3 testing completed IR 9409.
15. Closed in IR 9342 dated 11/19/93. Discussed in Panel meeting 02/01/94.
16. Closed in IR 9347 dated 12/08/93. Discussed in Panel meeting 02/01/94.

Reference/Information (Additional for Unit 2)

1. IR 9311 documented testing of Unit 2 TDAFW pump. Surveillance testing to be performed again in Mode 3 prior to restart. Inspection completed 05/16/94. IR 9417. Discussed in Panel meeting 05/17/94.
2. Programmatic revisions reviewed during Unit 1 restart inspections. Need to review licensee's evaluation of existing SPRs for issues affecting operability and safe plant operation. Conducted during team inspection during the week of 05/09/94. IR 9420. Discussed in Panel meeting 05/17/94.

3. Programmatic revisions reviewed during Unit 1 restart inspections. Need to review current Unit 2 backlog status and the licensee's review for issues affecting equipment operability, safe plant operation, and operator work-arounds. Team inspection conducted during the week of 05/09/94. IR 9420. Discussed in Panel meeting 05/17/94.
4. Revised program reviewed during Unit 1 restart inspections. Monitor effectiveness of program on Unit 2. Inspection performed during the week of 05/09/94. IR 9417. Discussed in Panel meeting 05/17/94.
5. Engineering backlog reductions reviewed during Unit 1 restart inspections. For Unit 2, need to review backlog status and review licensee's evaluation of outstanding items for issues affecting equipment operability, safe plant operation, and operator work-arounds. Reviewed during team inspection during the week of 05/09/94. IR 9420. Discussed in Panel meeting 05/17/94.
6. Covered during Unit 1 restart inspections. For Unit 2, need to review status of operations staffing enhancements and administrative workload reductions, including effectiveness of the operations work control group. Inspection completed 05/13/94. IRs 9417 and 9420. Discussed in Panel meeting 05/17/94.
7. Issue resolved during Unit 1 restart inspections. No specific inspection required for Unit 2 prior to restart. Discussed in Panel meeting 04/19/94.
8. For Unit 2, need to verify reduction of service request backlog on fire protection equipment and effectiveness of modifications made to the fire protection computer. Inspection conducted during the week of 04/25/94. IR 9415. Results discussed in Panel meeting 05/04/94.
9. For Unit 2, need to verify continued effectiveness in this area. Inspection completed 05/13/94. IR 9420. Discussed in Panel meeting 05/17/94.
10. Reviewed during Unit 1 restart inspection. For Unit 2, need to check status of revised program implementation. Inspection completed 05/13/94. IR 9421. Discussed in Panel meeting 05/17/94.
11. Reviewed extensively during Unit 1 restart inspections. For Unit 2, monitor resolution of issues involving SDG 22. Addressed in public meetings 03/16/94 and 05/04/94. IRs 9413 and 9416. System certification package for SDGs reviewed by DRS 05/12-13/94. Discussed in Panel meeting 05/17/94.
12. Design modifications reviewed during Unit 1 restart inspections. For Unit 2, need to verify successful completion of postmodification testing. Inspection completed 05/16/94. IR 9417. Discussed in Panel meeting 05/17/94.
13. Reviewed in depth during Unit 1 restart inspections. Smaller scope inspection needed for Unit 2. Inspection completed 05/13/94. IR 9417. Discussed in Panel meeting 05/17/94.
14. Design modifications reviewed during Unit 1 restart inspections. For Unit 2, need to verify successful completion of postmodification testing. Inspection completed 05/14/94. IR 9417. Discussed in Panel meeting 05/17/94.
15. Reviewed during Unit 1 restart inspections. For Unit 2, need to verify completion of damper testing under revised procedures. Inspection completed 05/12/94. IR 9417. Discussed in Panel meeting 05/17/94.

16. Issue resolved during Unit 1 restart inspections. No specific inspection required for Unit 2 prior to restart. Discussed in Panel meeting 04/19/94.

ASSESSMENT OF PHYSICAL READINESS OF THE PLANT:

The physical condition of the plant is of principal importance not only when a shutdown is the result of a physical event or a hardware deficiency but for other reasons as well, especially following prolonged outages.

The causes of significant equipment problems should be identified and appropriate corrective actions taken. Operational testing should verify that each significant equipment problem has been resolved. As appropriate, the complete spectrum of preoperational and startup testing programs may need to be expanded to cover the more complex types of problems or the effects on plants that have been shut down for extended periods.

The licensee must be able to demonstrate that all needed safety equipment is operational before restart. Systems and equipment need to be available and aligned. Surveillance tests should also be up to date. The maintenance backlog should be managed at controllable levels and should be evaluated for impact on safe operation. Maintenance must also be capable of responding to equipment failures during startup and operation and should not be hindered by unresolved chronic problems with equipment readiness. Procedures should be adequate and up to date. The emergency preparedness function both onsite and offsite needs to be capable of protecting public health and safety.

ISSUES	RESP ORG	DATE CLOSED
1. Operability of technical specifications systems	RIV/DRP	05/17/94
2. Operability of required secondary and support systems	RIV/DRP	05/17/94
3. Adequacy of system lineups	RIV/DRP	05/17/94
4. Adequacy of the power ascension testing program	PANEL	05/17/94
5. Adequacy of plant housekeeping and equipment storage	RIV/DRP	05/17/94

Reference/Information

Items 1 - 5 were reviewed by the augmented resident inspection staff. Equipment out of service was being tracked by the control room, reflecting the appropriate mode restraints. Several minor steam leaks were evident in the turbine building. The power ascension testing program was similar to the Unit 1 program, but included changes based on lessons learned. Many scaffolds remain but they are being tracked by the licensee and none were observed to cause a safety impact. Most outage equipment had been stored. The remaining equipment, such as coils of hoses, did not create a safety hazard. IR 9417. Discussed in Panel meeting 05/17/94.

ASSESSMENT OF COMPLIANCE WITH REGULATORY REQUIREMENTS:

The plant and its prospective operation must not be in conflict with any applicable regulations or requirements of any document authorizing restart (such as license amendments, orders, or a CAL). Restart should not conflict with any ongoing matter such as an Atomic Safety and Licensing Board hearing.

ISSUES	RESP ORG	DATE CLOSED
1. Applicable license amendments have been issued	NRR	04/29/94
2. Confirmatory Action Letter conditions have been satisfied	PANEL	05/17/94
3. Significant enforcement issues have been resolved	PANEL	05/17/94
4. Allegations have been appropriately addressed	PANEL	05/17/94
5. 10 CFR 2.206 Petitions have been appropriately addressed	NRR	07/08/93 05/17/94

Reference/Information

1. Amendment 48 covering a special test exemption for cross calibration was issued 04/01/94. Amendment 49 allowed equipment which was removed from service or declared inoperable to comply with action statements to be returned to service under administrative controls solely to perform testing required to demonstrate operability (issued 04/29/94).
Discussed in Panel meeting 05/17/94.
2. Discussed in Panel meeting 05/17/94.
3. Discussed in Panel meeting 05/17/94.
4. Discussed in Panel meeting 05/17/94.
5. Saporito petition acknowledgement letter of 07/08/93. The final Director's decision was under review on 05/17/94.

COORDINATION WITH INTERESTED AGENCIES/PARTIES:

Coordination with other interested parties and agencies is important to ensure that concerns and requirements of these organizations are factored into the restart authorization.

ORGANIZATION	RESP ORG	DATE CLOSED
1. Federal Emergency Management Agency	RIV/NRR	05/12/94
2. Department of Justice	PANEL	05/17/94
3. Department of Labor	PANEL	05/17/94
4. Appropriate State and Local Officials	RIV	05/17/94
5. Appropriate Public Interest Groups	RIV	05/17/94
6. Local News Media	RIV	05/17/94

Reference/Information

1. FEMA letter to Regional Administrator - no objections to Unit 2 operation. Discussed in Panel meeting 05/17/94.
2. No active cases. Discussed in Panel meeting 05/17/94.
3. No restart concerns from open cases. Discussed in Panel meeting 05/17/94.
- 4-6. Press release 05/12/94. Public meeting 05/17/94. PUC, LLRW Compact, and Governor's office notified. Discussed in Panel meeting 05/17/94.

CLOSEOUT ACTIONS:

When the actions to resolve the restart issues and significant concerns are substantially complete, closeout actions are needed to verify that planned inspections and verifications are complete. The licensee should certify that corrective actions required prior to restart are complete and that the plant is physically ready for restart. This table provides actions associated with completion of significant NRC reviews and preparations for restart.

TASK	RESP ORG	DATE CLOSED
1. Evaluate licensee's restart readiness self-assessment	PANEL	05/17/94
2. Verify that licensee has incorporated lessons learned from Unit 1 restart process	PANEL	05/17/94
3. Restart issues closed	PANEL	05/17/94
4. Issue Augmented Restart Coverage Inspection Plan	RIV/DRP	05/03/94
5. Comments from other parties considered	PANEL	05/17/94
6. Determine that all conditions of the CAL and its Supplements are satisfied	PANEL	05/17/94

Reference/Information

1. Discussed Mode 4 assessment in public meeting 05/04/94. Reviewed by team inspection 05/09/94. IR 9420. Discussed Mode 2 assessment in public meeting 05/17/94. Discussed in Panel meeting 05/17/94.
2. Discussed in public meetings 05/04/94 and 05/17/94. Addressed by team inspection during the week of 05/09/94. IR 9420. Discussed in Panel meeting 05/17/94.
3. Discussed in Panel meeting 05/17/94.
4. Plan issued 05/03/94. Coverage commenced 05/16/94.
5. Discussed in Panel meeting 05/17/94.
6. Discussed in Panel meeting 05/17/94.

RESTART AUTHORIZATION:

When the restart review process has reached the point that the issues have been identified, corrected, and reviewed, a restart authorization process is begun. At this point the restart panel should confirm that all actions are substantially complete and that the panel has not overlooked any items.

TASK	RESP ORG	DATE CLOSED
1. Prepare restart authorization document and basis for restart	RIV/DRP	05/17/94
2. NRC Restart Panel approves Restart Authorization	PANEL	05/17/94
3. No restart objections from other applicable HQ offices	PANEL	05/17/94
4. No restart objections from applicable Federal agencies	PANEL	05/12/94
5. Regional Administrator concurs in Restart Authorization	RIV	05/17/94
6. NRR Associate Director and/or NRR Director concurs in Restart Authorization	NRR	05/17/94
7. EDO concurs in Restart Authorization	RIV	05/17/94

Reference/Information.

1. Regional Administrator letter to licensee.
2. Discussed in Panel meeting 05/17/94.
3. Discussed in Panel meeting 05/17/94.
4. FEMA letter to Regional Administrator - no objections to Unit 2 restart.
5. Regional Administrator briefed at 05/17/94 Panel meeting. CAL release letter signed.
6. Telephone call by Regional Administrator.
7. Telephone call by Regional Administrator.

RESTART AUTHORIZATION NOTIFICATION:

Notify the applicable parties of the restart authorization. Communication of planned actions is important at this stage to ensure that NRC intentions are clearly understood.

TASK	RESP ORG	DATE CLOSED
1. Commission	NRR	05/13/94
2. EDO	RIV/NRR	05/17/94
3. Congressional Affairs	NRR	05/16/94
4. ACRS	NRR	05/17/94
5. Applicable Federal Agencies	RIV/NRR	05/17/94
6. Public Affairs	RIV	05/17/94
7. State and Local Officials	RIV	05/17/94

Reference/Information

1. EDO memorandum to the Commission.
2. Briefing conducted 05/17/94.
3. NRR informed the Office of Congressional Affairs (Thomas J. Madden via E-mail).
4. Not required prior to restart. Briefing may be conducted after restart.
5. FEMA notified. Not required for DOL or DOJ.
6. PAO attended public meeting 05/17/94.
7. Public meeting at site 05/17/94 addressed restart authorization.