

September 17, 1997

LICENSEE: Florida Power Corporation
FACILITY: Crystal River Unit 3 (CR-3)
SUBJECT: SUMMARY OF MEETING ON SEPTEMBER 5, 1997
STATUS OF LICENSING ACTIVITIES

On September 5, 1997, R. Grazio, and D. Kunsemiller of the Florida Power Corporation, licensee for Crystal River Nuclear Plant, Unit 3, met with J. Zwolinski, F. Hebdon, L. Raghavan (Office of Nuclear Reactor Regulation), and J. Jaudon (Region II), at Nuclear Regulatory Commission Headquarters in Rockville, Maryland. The status of expected and active licensing submittals related to Crystal River Unit 3, was discussed. The enclosure provides an updated schedule. The staff reiterated to the licensee that the large number of licensing submittals that are required to be processed within a very short period poses a significant challenge to staff resources and that it is imperative that the licensee submittals be timely and of high quality. The discussions were working-level in nature and did not result in specific action items.

original signed by L. Raghavan
L. Raghavan, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-302

Enclosure: As Stated

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Name	LRaghavan <i>LR</i>	BClayton <i>BC</i>	FHebdon <i>FH</i>		
Date	9/15/97	09/12/97	9/15/97		
Copy	(Yes/No)	Yes	Yes/No		

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

September 15, 1997

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FACILITY: Crystal River Unit 3
SUBJECT: SUMMARY OF MEETING ON SEPTEMBER 5, 1997
STATUS OF LICENSING ACTIVITIES

On September 5, 1997, R. Grazio, and D. Kunsemiller of the Florida Power Corporation, licensee for Crystal River Nuclear Plant, Unit 3, met with J. Zwolinski, F. Hebdon, L. Raghavan (Office of Nuclear Reactor Regulation), and J. Jaudon (Region II), at Nuclear Regulatory Commission Headquarters in Rockville, Maryland. The status of expected and active licensing submittals related to Crystal River Unit 3, was discussed. The enclosure provides an updated schedule. The staff reiterated to the licensee that the large number of licensing submittals that are required to be processed within a very short period poses a significant challenge to staff resources and that it is imperative that the licensee submittals be timely and of high quality. The discussions were working-level in nature and did not result in specific action items.

A handwritten signature in black ink, appearing to read "L. Raghavan", is positioned above the typed name and title.

L. Raghavan, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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Crystal River Reading

OGC

ACRS

L. Raghavan

J. Johnson, RII

E-Mail

S. Collins/F. Miraglia (SJC1,FJM)

R. Zimmerman (RPZ)

B. Boger (BAB2,RCN)

J. Zwolinski (JAZ)

K. Landis(KDL)

F. Hebdon

B. Clayton

J. Joudan, RII

T. Martin (e-mail to SLM3)

M. Geroni, EDO

Florida Power Corporation

CRYSTAL RIVER UNIT NO. 3
GENERATING PLANT

cc:

Mr. R. Alexander Glenn
Corporate Counsel
Florida Power Corporation
MAC-A5A
P.O. Box 14042
St. Petersburg, Florida 33733-4042

Mr. Charles Pardee, Director
Nuclear Plant Operations (NA2C)
Florida Power Corporation
Crystal River Energy Complex
15760 W. Power Line Street
Crystal River, Florida 34428-6708

Mr. Bruce J. Hickle, Director
Director, Restart (NA2C)
Florida Power Corporation
Crystal River Energy Complex
15760 W. Power Line Street
Crystal River, Florida 34428-6708

Mr. Robert B. Borsum
B&W Nuclear Technologies
1700 Rockville Pike, Suite 525
Rockville, Maryland 20852

Mr. Bill Passeti
Office of Radiation Control
Department of Health and
Rehabilitative Services
1317 Winewood Blvd.
Tallahassee, Florida 32399-0700

Attorney General
Department of Legal Affairs
The Capitol
Tallahassee, Florida 32304

Mr. Joe Myers, Director
Division of Emergency Preparedness
Department of Community Affairs
2740 Centerview Drive
Tallahassee, Florida 32399-2100

Chairman
Board of County Commissioners
Citrus County
110 North Apopka Avenue
Iverness, Florida 34450-4245

Mr. Robert E. Grazio, Director
Nuclear Regulatory Affairs (SA2A)
Florida Power Corporation
Crystal River Energy Complex

Senior Resident Inspector
Crystal River Unit 3
U.S. Nuclear Regulatory Commission
6745 N. Tallahassee Road
Crystal River, Florida 34428

Mr. James S. Baumstark
Director, Quality Programs (SA2C)
Florida Power Corporation
Crystal River Energy Complex
15760 W. Power Line Street
Crystal River, Florida 34428-6708

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
61 Forsyth Street, SW., Suite 23T85
Atlanta, GA 30303-3415

Mr. John P. Cowan
Vice President - Nuclear Production
(NA2E)
Florida Power Corporation
Crystal River Energy Complex
15760 W. Power Line Street
Crystal River, Florida 34428-6708

Mr. Roy A. Anderson
Senior Vice President,
Nuclear Operations
Florida Power Corporation
ATTN: Manager, Nuclear Licensing
Crystal River Energy Complex (SA2A)
15760 W. Power Line Street
Crystal River, Florida 34428-6708

Mr. Kerry Landis
U.S. Nuclear Regulatory Commission
61 Forsyth Street, SW., Suite 23T85
Atlanta, GA 30303-3415

Overall Status of FPC Submittals

	<u>Tech. Spec. & License Amendments</u>	<u>Other Restart Submittals</u>
Original List (3/21)	21	22
Added by FPC	21	8
RAIs	4	-
Added by NRC Request	<u>-</u>	<u>10</u>
Total Required	46	40
Submittals Completed/Resolved*	31	25
Remaining	<u>15</u>	<u>15</u>

License Amendments Remaining:

• Tech. Spec. Change Requests	3
• Supplements/RAIs	3
• Potential USQs	
- License Amendment	6
- Information Letter	1
• Appendix R	<u>2</u>
	15

*Resolved includes 11 Potential



USQs STATUS RESOLUTION

TOTAL POTENTIAL USQs	18
RESOLVED	<u>11</u>
SUBMITTED	1
REMAINING	6



USQS

Status/Resolution

Issue	Resolution	Status
EDG Fan Upgrade - fans under capacity	USQ - to be submitted	Submitted 8/26
EOP operator actions	Review ongoing	Open - due 9/30
Letdown Line Rupture - manual operator action in place of automatic	USQ - preparation of submittal ongoing	Open - due 8/30
EDG Protective Trips - installation of overvoltage trips could result in trip of EDG	USQ - design in progress, USQD to follow, USQ remains valid and submittal required	Open - due 9/15
Control Complex (Issues)	Review ongoing - potential USQ	Open - due 9/30
AHF-1C - this modification makes control logic changes to allow use of AHF-1C by providing interlocks with its MCC-3AB transfer switch	Not a USQ for installation, however, use of it will be due to reliability of circuitry being modified and use of operator actions. Modification will be made but not turned over until LAR approved.	Open - due 9/30
Boron Precipitation Mitigation	USQ - implementation of Hot Leg Injection	Open - due 9/30



USQS

Status/Resolution

Issue	Resolution	Status
HPI Cavitating Venturi Flow Test	FPC determined that alternate approach would be developed for installation in Refueling Outage 11 R	Resolved (follow-up letter)
Main Steam Line Break	Review ongoing - not a USQ	Resolved
RWP Cyclone Separator Fouling - strainers installed upstream might have clogged resulting in a loss of RWPs	Not a USQ - new strainer tested and no clogging resulted	Resolved
HPI Pump Recirc. Line - MAR 96-11-02-01, proposes to install an alternate manual recirculation line from HPI discharge header and the RB (operator action)	Not a USQ - actions identified for operator action were concluded to be equivalent to existing actions	Resolved
MUV-31 (Pressurizer Level Control Valve) control logic response during transient conditions - replacement of some parts	Not a USQ - design change is like for like replacement	Resolved
HPI Nozzle Cycles - planned change in methodology reflected in FSAR increased allowable thermal cycles from 11 to 80	Not a USQ - change not implemented; submitted with FSAR R23 letter, will correct FSAR back to 11 from 80 and maintain approved methodology	Resolved
AHFL - 1/2 testing not in compliance with FSAR	Not a USQ - FPC will comply with testing requirements	Resolved
MUV-27, - MAR 97-02-17-01, HPI autoclosure, add automatic closure upon receipt of 1500# RCS low pressure signal	Not a USQ - action is an aid to the operator, no credit for actions in DBA analysis; this is reflected in SBLOCA submittal	Resolved
Remote shutdown panel fuses as originally intended to be installed would not extinguish MCR lights on failure	Not a USQ - revised design	Resolved
CT protectors addition could reduce availability of bus	Not a USQ - overall bus availability determined no discernible impact	Resolved
ADV capacity does not meet FSAR values (301,000 lb/hr vs. 419,700 lb/hr)	No USQ - ADVs had overcapacity and can perform function with existing internals; action is to clarify FSAR information and resolve ambiguity regarding ADV actual capacity	Resolved

NRC RESTART LICENSING SUBMITTALS

9/3/97

Issue	Submittal Date
Restart License Amendments	
1. Small Break LOCA Analysis - TSCRN 210	Complete 6/14/97
a. TSCRN 210 (SBLOCA) - Supplement 1 (Fuel Storage, Appendix D)	9/15/97 (N)
2. Decay Heat - Flow Instrument Removal	Complete 6/26/97
3. Appendix R Thermo-Lag Resolution Schedule (Letter to Address Exemption Request)	Complete 7/26/97 (N)
4. Appendix R	
a. (III.O - Reactor Coolant Pump Oil Cooling) Potential Exemption Withdrawal/Revision - When "A" Pump is in Compliance	10/8/97 (N)
b. Exemption Request for Lube Oil Remote Fill Line	9/5/97 (N)
5. Low Temp Over Pressurization (LTOPs) - Code Case N-514 Exemption	Complete 4/7/97
6. LTOPs TSCRN 213	
a. 30 Effective Full Power Years (EFPY) License Amendment	Complete 7/18/97
b. 30 EFPY License Amendment (not needed until cycle 12)	Resolved (N)
c. Revision 1	9/18/97 (N)
d. RAI	9/5/97 (N)
7. Letdown Rupture Line (USQ)	9/5/97 (R)
8. Integrated Leak Rate Test, Appendix J, Option B	Complete 2/1/97
9. Integrated Leak Rate Test, Appendix J, Option B, Rev. 1	Complete 5/1/97
10. Appendix J, Option B - Additional Information	Complete 8/11/97 (N)
11. System Readiness Review (Potential License Amendment)	Resolved
12. License Condition Amendment (if needed)	Resolved
<i>Items 13-30. Potential USQ Submittals</i>	
13. Emergency Diesel Generator Protective Trips During Engineered Safety Actuation and Loss of Offsite Power	9/15/97 (R)
14. HPI Analysis (Without Cavitating Venturis)	Complete 6/14/97
15. HPI Pump Recirc	Resolved
16. High Pressure Injection Nozzle Cycles (Contained in the FSAR R.23, 7/3/97 Letter, and not a USQ)	Resolved

Issue	Submittal Date
17. Air Handling Filter-1/2 Testing Requirements	Resolved
18. Makeup Supply Valve (MUV-27) - Add Automatic Closure upon Receipt of #1500 Signal	Complete 6/14/97
19. EDG Fan Upgrade	Complete 8/26/97 (N)
20. Atmospheric Dump Valve (ADV) Design Capacity	Resolved ¹ (N)
21. Operator Actions for EOPs and APs	9/30/97 (R)
22. Remote Shutdown Panel Added Components	Resolved ² (N)
23. RW Cyclone Separator Fouling	Resolved
24. MUV-31 Control Logic	Resolved
25. CT Protectors	Resolved ² (N)
26. MSLB	Resolved (N)
27. HPI Cavitating Venturis Special Test	Resolved ³ (N)
28. AHF-1C Fan Auto Transfer	9/30/97 (N)
29. Boron Precipitation Mitigation - Hot Leg Injection	9/30/97 (N)
30. CCHE Leakage/Dose Methodology	9/26/97 (N)
31. Once Through Steam Generator (OTSG) License Amendment 211, R1 a. OTSG, License Amendment 211, Resubmit Sholly Notice b. OTSG Response to Additional Information Request from NRC c. Revision 1 to License Amendment 211	Complete 3/27/97 Complete 5/1/97 (N) Complete 8/19/97 (N) Complete 8/20/97 (N)
32. OTSG License Amendment - IGA Growth Tube Plugging Information	9/30/97 (N)
33. PAM Table Revision, TSCRN 209, RG 1.97 (EDG kW Meters)	Complete 7/29/97
34. ECCS Mode 4 Tech Spec Change	9/1/97 (N)
35. CCHE Surveillance TS (Submit Prior to Restart)	11/24/97

¹ Information letter to NRC 9/2 (C)

² Information letter to NRC 8/19 (C)

³ Information letter to NRC 9/15

Issue	Submittal Date
36. EDG Surveillance Testing - Exigent License Amendment TSCRN 215 -TSCRN 215, Revision 1	Complete 8/4/97 (N) Complete 8/16/97 (N)
37. 500 kV Backfeed Tech Spec Change (not needed before restart)	Resolved (N)
Licensing Restart Submittals (Non-License Amendments)	
1. Boron Precipitation Letter	9/5/97
2. Appendix R Issues a. Independent Assessment Summary b. Appendix R - Revise Response to Address 72 hr. Cold Shutdown (NRC RAI 7/7/97) c. Appendix R - Thermo-Lag Ampacity (NRC RAI) d. Appendix R - NRC Information Notice 92-18 (Hot Shorts) e. Appendix R - Submit Description of Issues Related to Restart Issue D-11 to Support NRC Plans for Close-out (NRC RAI 7/7/97)	Complete 7/3/97 Complete 8/29/97 (N) Complete 7/3/97 (N) 9/19/97 (N)(R) 9/25/97 (N)
3. System Readiness Review - Summary Report	11/5/97
4. Generic Letter 96-01 - Summary Report	9/5/97
5. FSAR Revision 23 - USQ Review	Complete 7/3/97
6. Generic Letter 96-06 - Summary Report	10/3/97 (R)
7. Tendon Surveillance Report (if needed)	11/1/97 (R)
8. Maintenance Rule Structural Baseline - Walkdown Summary Report (if needed)	10/6/97 (R)
9. Integrated Safety Assessment of Current Outage Modifications - Summary Report	10/27/97
10. FSAR Rev. 24 Upgrade	12/4/97
11. Restart Request Letter	12/1/97
12. RCS Attached Piping - Respond to NRC 4/7/97 Letter a. Program Plan for Fatigue Analysis	Complete 10/30/97 (N)
13. Loss of DC Power, Failure Modes and Effects Analysis - Summary Report	8/30/97 (R)
14. FSAR Rev. 24/25 Upgrade Program Description	Complete 7/17/97 (N)
15. 50.54(f) Letter to Address Discrepancies (if needed)	Resolved (N)
16. Review of Implementation of License Conditions a. Supplement to Address Additional Condition - Closed (IR 97-08)	Complete 5/20/97 Resolved (N)

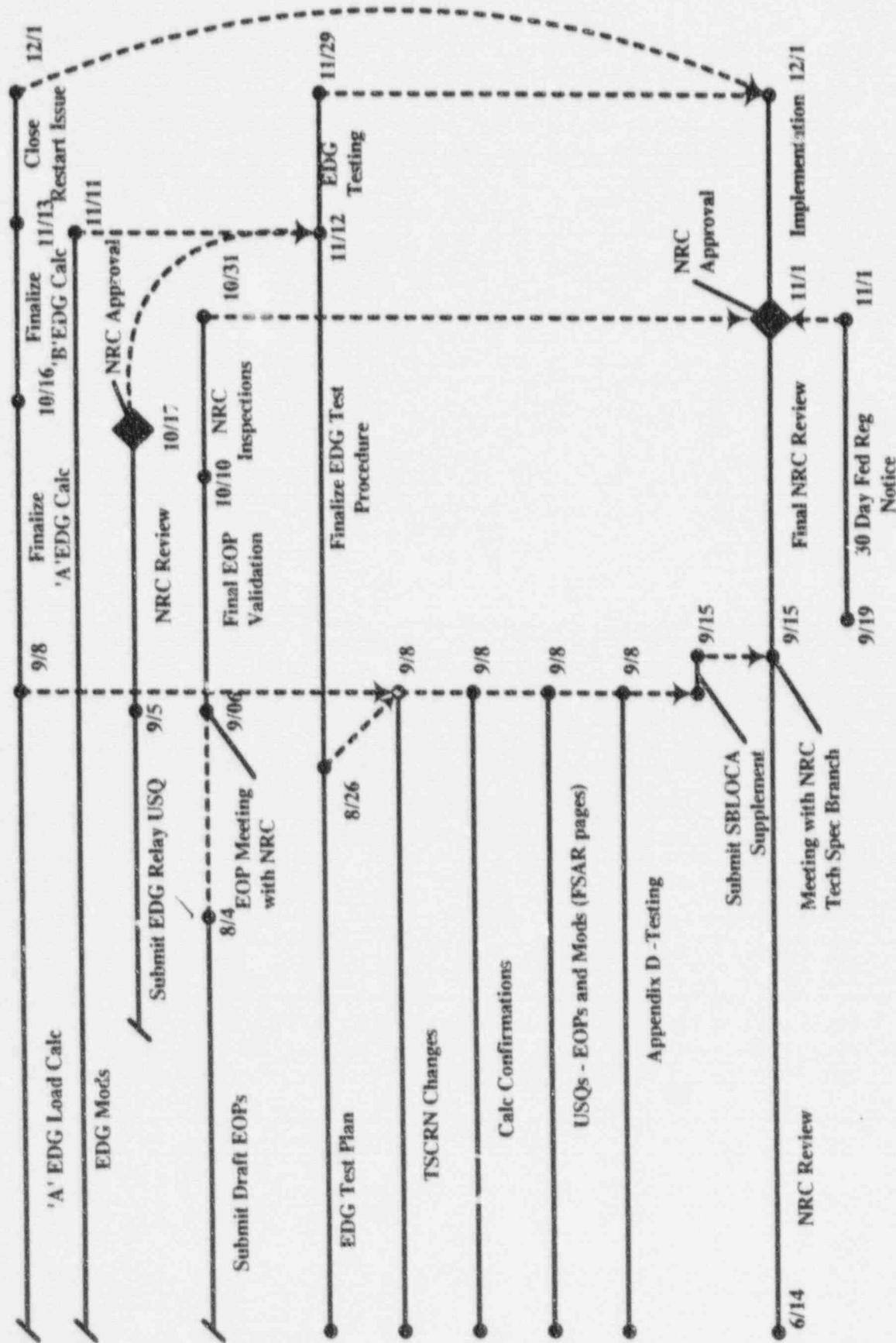
Issue	Submittal Date
17. Submittals to Support SBLOCA TSCRN 210: a. Letter to Confirm Calculations (EDG Loading, Block Valve Cycling) b. Letter to Confirm EOPs do not Result in a USQ c. Submit Draft EOPs 3 and 8, AP 770 d. Submit Proprietary and Non-proprietary Version of LBLOCA Analysis of Record e. EDG Testing Plan	9/15/97 (N) ** 9/15/97 (N) ** Complete 8/4/97 (N) Complete 9/2/97 (N) 9/15/97 (N) **
18. Licensing Basis for Dynamic Loads a. Initial Response (Pipe Whip) to NRC 4/10/97 Letter b. Supplemental Response (re: Jet Impingement)	Complete 6/5/97 (N) 9/29/97 (N)
19. Low Pressure Injection - Mission Time	Complete 5/15/97
20. Appendix R - Atmospheric Dump Valve 30 Day Response	Complete 4/30/97
21. System Readiness Review Plan	Complete 3/27/97
22. EOP/AP Operator Action - Commitment Date Change	Complete 3/25/97
23. GL 96-06, Letter regarding Service Water Fittings	Complete 4/30/97
24. ASME Section XI - Code Case Relief Request	Complete 3/24/97
25. MCAP-II, Rev. 2	Complete 4/25/97
26. ITS Bases Submittal	Complete 4/18/97
27. Letter on Pressure Locking re: EFV-12,-32,-33 (Supports SER for GL 95-07)	Complete (N) 8/11/97
28. Resolution of A-46 SQUG Walkdown Issues (NRC RAI 5/27/97)	Complete (N) 8/1/97
29. Temporary Waiver of Compliance for CCHE Modifications (FSAR Requirement)	Resolved (N)
30. Submit FPC Plan for HPI Nozzle Ocone Issue	TBD (N)

(N) New

(R) Revised

** Consolidated with TSCRN 210 Supplement Due 9/15/97

SBLOCA ITS AMENDMENT APPROVAL



CRYSTAL RIVER 3 - SCHEDULE AND STATUS OF LICENSING ACTIONS/ACTIVITIES

September 5, 1997

No	TAC No.	Action	Description	Application	Request Target	Remarks/Open Items
1	98991	SBLOCA License Amendment	Mitigation of SBLOCA. A combination of ECCS, EFW flow, and EDG load management are required to address SBLOCA event. This amendment addresses: EDG upgrade, requalification and load management; EFW and HPI system modifications; and TS and FSAR changes associated with the above.	06/14/97A	11/1/97	<p>FPC items: D1, D2. The submittal includes:</p> <ul style="list-style-type: none"> - RCS 1500 psi signal for Makeup Supply Valve(MUV-27) automatic closure (not an USQ). This is in addition to the existing operator action. - HPI analysis without cavitating venturis. - HPI analysis with valves in throttle position in lieu of cavitating venturis. - USQ re: EDG fan upgrade submittal on 8/26/97 (See item 33). <p>Other Open items:</p> <ul style="list-style-type: none"> - EDG loading calc and testing requirements due 9/15/97. - Draft EOPs 3 and 8, and AP 770 due 8/4/97. - Letter to confirm mods and EOPs do not result in additional USQs due 9/15/97 - Proprietary and non-proprietary versions of the LBLOCA analysis due 8/29/97. - Determine need to perform 30-start test or submit BGE/Coltec test results due 9/15/97 - Propose license conditions for commitments 6 and 7 of the submittal - Resolve LER 97-021 regarding loss of 'A' Train battery and 'B' Train uncontrolled HPI flow.
2	99128	License Amendment DH-45-F1	Delete license condition 2C(5) which requires testing of flow indication in the ECCS for boron dilution.	5/26/97A	9/26/97	Issue linked with boron precipitation (Item 13). 8/4 teleconference identified need to request approval for current licensing basis (3 active methods) and resolution of item 13.
3		Appendix R Exemption	Appendix R III.0 exemption for RCP lube oil fill line - welded connections.	9/5/97		Request will be similar to AND
4	95817 (a)	Thermolag	Enhanced sprinklers in certain areas in lieu of thermal barrier upgrade.	06/21/96A		
5	95817 (b)	Thermolag	Emergency lighting. Allow use of AC and portable DC powered lighting in two areas.	06/21/96A	7/25/97	FPC reevaluation of lighting exemption request
6	99277	LTOPs License Amendment	TSCRN 213- PORV setpoint and LTOP TS using P/T curves for 15 EFPY.	07/18/97A	10/18/97	Approved exemption from 10 CFR 50.60 acceptance criteria (Code Case N514) by letter dated 7/3/97 Sholly sent out on 8/1. Issued RAI on 8/12/97 and Telecon on 8/13. FPC response by 9/2.

2	97087	LLRT/LLRT	App. J, Option B, including Rev. 1 (See 2/1/97 5/1/97)	05/01/97	7/24/97C	Item closed. LER 97-014 (7/17/97) reported RB pressure sensing line penetrations local test not done. FPC to complete all tests by 11/30.
8		License Amendment USQ - Letdown line rupture	Operator action (20 mts) to isolate letdown (MUV 49) per EOP following loss of subcooling margin.	9/5/97	11/25/97	LER 97-015 (7/11/97) Will include two open items requiring installation of a new inboard isolation valve and completion of an analysis to address EQ parameters. PC 97-5975 subsequently identified similar condition with outboard valve MUV-49.
9		Potential USQ	EDG Protective Trips not bypassed during ESAS and LOOP. (May modify design instead of a license amendment). Add new EDG trips.	09/15/97		EEI 97-09-01. EA 97-330. See FPC response to EEI dated 8/11/97.
10	98262	OTSG License Amendment	TSCRN 211- exclusion of specific set of tubes in "B" steam generator from random selection for inspection and sample expansion criteria	05/01/97A	10/30/97	In staff review. (See also 3/27/97 submittal) RAI response provided 8/20/97 and included new TS page for reporting (revert to existing reporting requirements). Open Item - FPC to provide new TSCRN (not restart related) by 10/6/97 regarding IGA growth to allow release of TSCRN 211
11	96696	Reg. Guide 1.97 License Amendment	TSCRN 209- T _{sat} PAM, EDG kW Meters (Other new Type A's). 9/27/96 sub. Requested to add the subcooling margin monitors and LPI flow indication to the PAM instrument table.	07/29/97A	11/4/97	- Scope of response has been increased to include kW meters. See previous FPC submittal 9/27/96. Additional design details required. FPC to justify to implement by Refuel 11. (TSCRN 209-1)
12	96314	SBLOCA Issues	LPI Mission Time (DHP) letter	05/13/97A		In staff review. Need more info Re; FSAR pump curves
13		Boron Precipitation Potential USQ.	IPAP issue. FSAR change relies on reactor hotleg injection instead of active method for preventing boron precipitation.	09/02/97		URI 96-201-01. See item 2 - FPC to develop contingency if not resolved.
14	M98943	Appendix R Issues	Description of Issues related to FPC Restart Issue D-11 to support staff closeout.	09/25/97		Design item D11. Requested more specific definition of issues. See NRC letter 7/7/97. Inspection 3/4/97.
15		Appendix R Issues	Capability to achieve cold shutdown within 72 hours (Atmospheric dump valve capability)	08/29/97A		In staff review.
16		Appendix R Issues Potential USQ	Use of Current Transformer Protectors in safety-related circuits (hot shorts)	08/19/97A		FPC has determined this to be not an USQ. Item is closed. See FPC letter dated 8/19/97. Staff question: If the change is due to thermolag, it may be an USQ. FPC to respond.
17		Appendix R Issues	Response to IN 92-18 regarding modification to valves needed for cold shutdown (safe shutdown analysis)	09/19/97		
18		Appendix R Issues Potential USQ	Remote Shutdown Panel addition of fuses to control circuits	08/19/97A		Expedited review needed to support construction FPC has determined this to be not an USQ. See FPC letter dated 8/19/97.

No	TAC No.	Action	Description	Application	Request Target	Remarks/Open Items
19	94668	GL 96-01	Logic testing. First Submittal 4/18/96A. Summary Report expected	08/22/97 09/5/97		Several LERs (96-011, 96-025, 97-003) indicate problems with logic testing. Report to be provided as required by GL 96-01
20		Potential USQs	FSAR Rev. 23 includes several potential USQs. NRC letter 12/20/96 identified 15 examples. Licensee provided response	07/10/97A		
21		Seismic qual. of equip. - A-46 Phase II response.	Several outliers. Licensee to provide schedule and status for resolution of restart related items.	08/1/97A		inspection to occur in October, 1997
22		License amendment (TS)	ECCS/EFW requirements/operable equipment required for LOCA in Mode 4.	09/05/97	11/1/97	
23		License amendment Potential USQs	Operator Actions in EOPs and APs	09/30/97		Draft EOPs scheduled to be complete 8/29/97
24		License Amendment Potential USQ	ADV design capacity: Reduction in flow, local operator action for opening.	08/27/97		FPC has determined this to be not an USQ.
25	M95347	License Submittal	Review response to request for information regarding RCS attached piping fatigue analysis adequacy	06/17/97 09/30/97		FPC Item D-62. FPC letter 6/17/97 indicates a schedule for this effort will be developed by 9/30/97.
26	M96604	Licensing Basis-Dynamic Loads	Review of evaluation to determine jet impingement interaction between the pressurizer surge line and SW piping. Initial response (pipe whip) received 6/5/97A.	09/26/97		Reference IFI 95-15-02 and FPC letter dated 6/5/97. Need to inform Region of results
27	M93454	GL95-07	Response to RAI Additional information regarding pressure locking for valves EFV-12, EFV-32, EFV-33,	08/11/97A		RAI dated 6/13/96 addressed PGRV Block Valve (RCV-11). Additional valves identified in LER 97-011.
28		USQ	WPI cavitating venturi test	09/15/97	N/A	Special Test FPC to provide explanation.
29	00327	License Amendment	Exigent amendment. One time amendment to not perform the 31-day surveillance on the required operable SDG during the current EDC modification.	08/4/97A	07/29/97A	FPC ltr 8/16/97 withdraws SR 3.8.1.3.
30		Potential USQ	Modification to provide automatic loading of third Reactor Building Cooling Unit (ARF-1C) could result in two RBCUs loading to one ED;	09/30/97		

No	TAC No.	Action	Description	Application	Request Target	Remarks/Open Items
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31		FPC ltr	FPC plan for inspection of HPI Nozzles as a result of Ozone issue.			IN 97-46
32	99449	Relief Request 97-001-RR	Containment Inspection Implementation (LME/ML)	08/21/97A	11/15/97	IN 97-29
33	99484	USQ	License amendment - EDG fan upgrade. A single or two fan coolers would be acceptable to maintain EDG room temperatures within the EDG vendor limits.	08/26/97A	11/1/97	See also item 1.

No	TAC No.	Action	Description	Application	Request Target	Remarks/Open Items
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31		FPC ltr	FPC plan for inspection of HPI Nozzles as a result of Ocone issue.			IN 97-46
32	99449	Relief Request 97-001-RR	Containment Inspection Implementation (TWE/IDL)	08/21/97A	11/15/97	IN 97-29
33	99484	USD	License amendment - EDG fan upgrade. A single or two fan coolers would be acceptable to maintain EDG room temperatures within the EDG vendor limits.	08/26/97A	11/1/97	See also item 1.