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JOSEPH A. WIDAY
VICE PRESIDENT & PLANT MANAGER
GINNA STATION

January 8, 2002

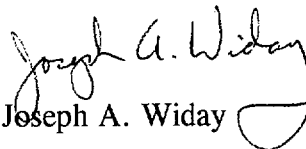
U.S. Nuclear Regulatory Commission
Document Control Desk
Attn: Robert Clark
Project Directorate I
Washington, D.C. 20555

Subject: Emergency Operating Procedures
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Clark:

As requested, enclosed are Ginna Station Emergency Operating Procedures.

Very truly yours,


Joseph A. Widay

JAW/jdw

xc: U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Ginna USNRC Senior Resident Inspector

Enclosure(s):

ATT Index
ATT-2.4, Rev 1
ATT-14.1, Rev 5

A045
Rec'd
02/13/02

REPORT NO. 01
REPORT: NPSF0200
DOC TYPE: PRATT

GINNA NUCLEAR POWER PLANT
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PARAMETERS: DOC TYPES - PRATT PRER PRPT PRPTT STATUS: EF QU 5 YEARS ONLY:

PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
ATT-1.0	ATTACHMENT AT POWER CCW ALIGNMENT	001	07/26/94	02/10/98	02/10/03	EF
ATT-1.1	ATTACHMENT NORMAL CCW FLOW	000	05/18/00	05/18/00	05/18/05	EF
ATT-2.1	ATTACHMENT MIN SW	005	02/01/01	02/10/98	02/10/03	EF
ATT-2.2	ATTACHMENT SW ISOLATION	007	10/31/01	08/11/98	08/11/03	EF
ATT-2.3	ATTACHMENT SW LOADS IN CNMT	003	01/25/95	12/31/99	12/31/04	EF
ATT-2.4	ATTACHMENT NO SW PUMPS	001	01/08/02	10/31/01	10/31/06	EF
ATT-3.0	ATTACHMENT CI/CVI	005	01/25/99	01/06/99	01/06/04	EF
ATT-3.1	ATTACHMENT CNMT CLOSURE	003	01/25/99	01/25/99	01/25/04	EF
ATT-4.0	ATTACHMENT CNMT RECIRC FANS	003	07/26/94	05/13/98	05/13/03	EF
ATT-5.0	ATTACHMENT COND TO S/G	004	01/25/95	12/31/99	12/31/04	EF
ATT-5.1	ATTACHMENT SAFW	007	09/20/01	12/31/99	12/31/04	EF
ATT-5.2	ATTACHMENT FIRE WATER COOLING TO TDAFW PUMP	003	01/14/99	01/14/99	01/14/04	EF
ATT-6.0	ATTACHMENT COND VACUUM	003	12/18/96	02/10/98	02/10/03	EF
ATT-7.0	ATTACHMENT CR EVAC	005	02/11/00	02/10/98	02/10/03	EF
ATT-8.0	ATTACHMENT DC LOADS	006	03/22/99	01/14/99	01/14/04	EF
ATT-8.1	ATTACHMENT D/G STOP	004	11/03/95	02/10/98	02/10/03	EF
ATT-8.2	ATTACHMENT GEN DEGAS	006	08/17/99	08/17/99	08/17/04	EF
ATT-8.3	ATTACHMENT NONVITAL	003	07/26/94	02/10/98	02/10/03	EF
ATT-8.4	ATTACHMENT SI/UV	004	04/24/97	02/10/98	02/10/03	EF
ATT-9.0	ATTACHMENT LETDOWN	007	06/09/00	01/06/99	01/06/04	EF
ATT-9.1	ATTACHMENT EXCESS L/D	004	10/31/01	10/31/01	10/31/06	EF
ATT-10.0	ATTACHMENT FAULTED S/G	005	10/03/96	05/13/98	05/13/03	EF
ATT-11.0	ATTACHMENT IA CONCERNS	002	04/07/97	08/11/98	08/11/03	EF
ATT-11.1	ATTACHMENT IA SUPPLY	002	04/07/97	08/11/98	08/11/03	EF

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ATT-11.2	ATTACHMENT DIESEL AIR COMPRESSOR	002	05/11/01	04/03/98	04/03/03	EF
ATT-12.0	ATTACHMENT N2 PORVS	003	03/24/97	02/10/98	02/10/03	EF
ATT-13.0	ATTACHMENT NC	002	07/26/94	02/10/98	02/10/03	EF
ATT-14.0	ATTACHMENT NORMAL RHR COOLING	002	04/07/97	09/23/99	09/23/04	EF
ATT-14.1	ATTACHMENT RHR COOL	005	01/08/02	05/01/98	05/01/03	EF
ATT-14.2	ATTACHMENT RHR ISOL	001	07/26/94	02/10/98	02/10/03	EF
ATT-14.3	ATTACHMENT RHR NPSH	002	08/01/97	01/06/99	01/06/04	EF
ATT-14.4	ATTACHMENT RHR SAMPLE	001	07/26/94	01/06/99	01/06/04	EF
ATT-14.5	ATTACHMENT RHR SYSTEM	002	07/26/94	02/10/98	02/10/03	EF
ATT-14.6	ATTACHMENT RHR PRESS REDUCTION	001	01/14/99	01/14/99	01/14/04	EF
ATT-15.0	ATTACHMENT RCP START	008	09/14/01	03/17/00	03/17/05	EF
ATT-15.1	ATTACHMENT RCP DIAGNOSTICS	003	04/24/97	02/10/98	02/10/03	EF
ATT-15.2	ATTACHMENT SEAL COOLING	004	08/30/01	02/10/98	02/10/03	EF
ATT-16.0	ATTACHMENT RUPTURED S/G	011	07/18/01	01/11/00	01/11/05	EF
ATT-16.1	ATTACHMENT SGTL	001	07/18/01	09/08/00	09/08/05	EF
ATT-16.2	ATTACHMENT RCS BORON FOR SGTL	001	10/13/00	09/08/00	09/08/05	EF
ATT-17.0	ATTACHMENT SD-1	011	01/09/01	02/29/00	02/28/05	EF
ATT-17.1	ATTACHMENT SD-2	005	09/26/96	01/30/01	01/30/06	EF
ATT-18.0	ATTACHMENT SFP - RWST	004	10/08/97	02/10/98	02/10/03	EF
ATT-20.0	ATTACHMENT VENT TIME	003	07/26/94	02/10/98	02/10/03	EF
ATT-21.0	ATTACHMENT RCS ISOLATION	001	07/26/94	02/10/98	02/10/03	EF
ATT-22.0	ATTACHMENT RESTORING FEED FLOW	002	09/20/01	03/24/97	03/24/02	EF
ATT-23.0	ATTACHMENT TRANSFER 4160V LOADS	000	02/26/99	02/26/99	02/26/04	EF
ATT-24.0	ATTACHMENT TRANSFER BATTERY TO TSC	000	09/08/00	09/08/00	09/08/05	EF

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PARAMETERS: DOC TYPES - PRATT PRER PRPT PRPTT STATUS: EF QU 5 YEARS ONLY:

PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
ATT-26.0	ATTACHMENT RETURN TO NORMAL OPERATIONS	000	10/31/01	10/31/01	10/31/06	EF
TOTAL FOR PRATT	49					

EOP: ATT-2.4	TITLE: ATTACHMENT NO SW PUMPS	REV: 1 PAGE 1 of 1
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Responsible Manager Belshin Date 1-8-2002

This attachment provides additional guidance if no service water pumps are available.

CAUTION

RHR SYSTEM WILL NOT BE AVAILABLE FOR NORMAL SHUTDOWN COOLING OR SUMP RECIRCULATION. RCS COOLING MUST BE MAINTAINED USING THE SG AS THE HEAT SINK.

1. Trip both RCPs.
2. IF any D/G is running without adequate cooling, THEN perform the following:
 - a) Trip the affected D/G
 - b) Immediately depress voltage shutdown pushbutton.
3. Isolate letdown.
4. Direct an AO to align alternate cooling to both D/Gs using ER-D/G.2.
5. Direct an AO to align fire water cooling to the TDAFW pump using ATT-5.2, ATTACHMENT FIRE WATER COOLING TO TDAFW PUMP.
6. Refer to ER-AFW.1 for options for maintaining a source of feed flow to the SGs (consult Plant Staff if necessary).
7. IF the plant fire water header is required to supply TDAFW pump cooling or CST makeup, THEN consider crosstie of city water hydrant to the plant fire water header (refer to SC-3.16.4.1).
8. Secure CRFCs until SW can be restored for motor cooling.
9. Consider securing the following equipment until service water can be restored:
 - SFP Pumps
 - MFW Pumps
 - MDAFW Pumps (TDAFW pump is preferred, if available)
 - Condensate Pumps (Refer to T-5F)
 - CCW Pumps (impact on thermal barrier)

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Responsible Manager

[Signature]

Date

1-8-2002

NOTE: Maintain operating RCP #1 seal DP greater than 220 psid.

1. Maintain RCS Temp < 350°F AND align the RHR system for shutdown operations as follows:
 2. Open RHR Heat Exchanger bypass (HCV-626) isolation valves:
 - V-712A
 - V-712B
 3. Ensure closed the following valves:
 - RHR PUMP DISCHARGE TO RX VESSEL DELUGE MOV-852A
 - RHR PUMP DISCHARGE TO RX VESSEL DELUGE MOV-852B
 4. Open RHR Pump discharge crosstie valves
 - V-709C
 - V-709D
 5. Open RHR PUMP DISCHARGE TO SI PUMP SUCTION MOV-857C
 6. Verify RHR PUMP SUCTION FROM RWST MOV-856 open.
- NOTE: WHEN the next step is performed, THEN Annunciator A-20 will light.**
7. Start one RHR Pump AND locally throttle open RHR PUMP DISCHARGE TO SI PUMP SUCTION valves MOV-857A and 857B to maintain combined flow of < 1500 GPM as read on FI-931A and 931B.
 - RHR Pump Started
 - MOV-857A Throttled
 - MOV-857B Throttled
 8. Throttle RHR Flow control valves to 50% open
 - HCV-624 Throttled
 - HCV-625 Throttled
 - HCV-626 Throttled
 9. AFTER the RHR Pump has run 10 minutes, THEN obtain a sample of RHR System to verify Boron Concentration is greater than RCS Boron Concentration. If not, continue running RHR Pump until RCS Boron Concentration is acceptable.

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NOTE: **WHEN** the next step is performed, **THEN** Annunciator A-20 will extinguish.

10. Stop the running RHR PUMP.
11. Place RHR suction from RWST MOV-856 Key Switch to ON.
12. Close RHR PUMP SUCTION FROM RWST MOV-856.
13. Close RHR PUMP DISCHARGE TO SI PUMP SUCTION MOVs
 - MOV-857A
 - MOV-857B
 - MOV-857C

NOTE: **DO NOT** remove fuses.

14. Open the following breakers (Bkr):
 - MOV-857A (MCC C Pos 7M) Bkr
 - MOV-857B (MCC D Pos 7M) Bkr
 - MOV-857C (MCC C Pos 15J) Bkr
15. Close RHR Flow control valves
 - HCV-624
 - HCV-625
 - HCV-626
16. Close RHR PUMP SUCTION FROM CNMT SUMP B MOV-851A breaker (MCC C Pos 10M).
17. Close RHR PUMP SUCTION FROM CNMT SUMP B MOV-851B breaker (MCC D Pos 10M).
18. Close RHR PUMP SUCTION FROM CNMT SUMP B MOVs. IF MOV-851A and/or MOV-851B will NOT close, THEN consult Plant Staff to determine if MOV-850A and/or MOV-850B should be closed.
 - MOV-851A
 - MOV-851B

NOTE: **DO NOT** remove fuses.

19. Open RHR PUMP SUCTION FROM CNMT SUMP B MOV-851A breaker (MCC C Pos 10M).

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20. Open RHR PUMP SUCTION FROM CNMT SUMP B MOV-851B breaker (MCC D Pos 10M).
 21. WHEN Primary System pressure reaches 350 to 360 psig, THEN perform the following:
 22. To prevent flashing in the CCW System, start a second Component Cooling Water Pump and put a second Component Cooling Water Heat Exchanger into service.
- NOTE: IF FI-619 (PPCS point F0619) is > 4900 gpm, THEN notify the Shift Supervisor (Flow induced vibration concern).**
23. With two CCW HX's in service, ensure CCW flow is \leq 4900 gpm.
 24. Control RCS pressure using PRZR heaters and spray as follows:
 - 24.1 IF at least one RCP is running, THEN reduce RCS pressure to approximately 325 psig and stabilize pressure.
 - 24.2 IF NO RCP running, THEN stabilize RCS pressure between 350 and 360 psig.
 25. Enable LTOP RCS pressure alarms associated with Annunciator F-29 as follows:
 - 25.1 Replace annunciator window F-29 with LTOP RCS pressure alarm window.
 - 25.2 On PPCS, substitute a value of one (1) for point ID KPLTOP.
 - 25.3 Substitute a value for P0420 or P0420A greater than 390 psig.
 - 25.4 Verify that annunciator F-29 alarms.
 - 25.5 Restore selected point to processing.
 - 25.6 Verify that annunciator F-29 clears.
 - 25.7 Substitute a value for P0420 or P0420A less than 300 psig.
 - 25.8 Verify that annunciator F-29 alarms.
 - 25.9 Restore selected point to processing.
 - 25.10 Verify that annunciator F-29 clears.

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26. Open CCW to RHR HX A MOV-738A.

27. Open CCW to RHR HX B MOV-738B.

NOTE: IF FI-619 (PPCS point F0619) is > 4900 gpm, THEN notify the Shift Supervisor (Flow induced vibration concern).

28. AFTER MOV-738A and MOV-738B are open, verify CCW flow is \leq 4900 gpm on FI-619.

29. Verify LOW PRESS LTDN PRESS PI-135 PCV-135 setpoint set to 300 psig.

30. Open RHR HX BYPASS HCV-626 to 25% to ensure RHR System pressure equalization.

31. Station an Auxiliary Operator at RHR pressure indicator PIC-629 (South of Spent Fuel Pool Pump A).

32. Ensure CVCS letdown aligned up to PCV-135.

33. SLOWLY open RHR LETDOWN TO CVCS HCV-133 to 100% to fill AND pressurize the RHR system.

34. Verify RHR pressure (PIC-629) is within 200 psig of RCS pressure (P-420 or P-420A).

35. Remove AND reinsert control power fuses for RHR PUMP SUCTION FROM LOOP A HOT LEG MOV-700. (MCC C Pos 7F)

36. Close MOV-700 breaker (MCC C Pos 7F).

37. Remove AND reinsert control power fuses for RHR PUMP SUCTION FROM LOOP A HOT LEG MOV-701. (MCC D Pos 7F)

38. Close MOV-701 breaker (MCC D Pos 7F).

39. Open RHR PUMP SUCTION FROM LOOP A HOT LEG MOVs.

- MOV-701
- MOV-700

40. Verify closed RHR HX flow control valves.

- HCV-626
- HCV-625
- HCV-624

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NOTE: It may be necessary to close down PCV-135 following RHR Pump start to maintain < 70 gpm Letdown flow. This can be done by raising PCV-135 AUTO setpoint OR taking MANUAL control of PCV-135 AND closing.

NOTE: PI-135 may read 100 psi greater than PI-420 due to RHR Pump shutoff head.

NOTE: Annunciator A-20 will light.

41. Start one RHR PUMP.

NOTE: DO NOT run two (2) RHR pumps with the discharge crossties open AND flow < 1200 gpm.

42. Adjust Low Press LTDN Press PCV-135 to establish desired Letdown flow (FI-134).

NOTE: PCV-135 (Letdown flow) determines the amount of flow during this temperature equalization.

43. Maintain flow at a minimum through HCV-624 and HCV-625 for 5 minutes to equalize the temperature of the RHR Loops.

44. Perform the following to establish the RHR System as a heat sink and secure the Steam Generators as heat sinks:

NOTE: To prevent flashing in the CCW System, ensure 2 CCW Pumps and 2 CCW Heat Exchangers are in service.

44.1 Remove AND reinsert control power fuses for RHR PUMP DISCHARGE TO LOOP B COLD LEG MOV-720.

44.2 Close MOV-720 breaker (MCC C Pos 7C).

44.3 Remove AND reinsert control power fuses for RHR PUMP DISCHARGE TO LOOP B COLD LEG MOV-721.

44.4 Close MOV-721 breaker (MCC D Pos 7C).

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44.5 Open RHR PUMP DISCHARGE TO LOOP B COLD LEG.

- MOV-720
- MOV-721

44.6 Manually increase RHR flow and adjust HCV-624, HCV-625, and HCV-626; while simultaneously reducing Steam Generator feeding AND steaming rate to control RCS temperature.

NOTE: Maximizing feeding and steaming during subsequent cooldown on RHR will assist in SG cooling, and allow access as soon as possible.

44.7 WHEN Steam Generator feeding AND steaming has been reduced to the desired rate or secured, THEN continue increasing RHR flow AND/OR adjust HCV-624, HCV-625, and HCV-626 as necessary to establish the desired cooldown rate.

44.8 Readjust Low Press LTDN Press PCV-135 to re-establish desired letdown flow.

NOTE: FI-626 flow indication will be lost during reset of flow alarm.

44.9 Notify I&C to reset RHR flow alarm to 400 gpm.

44.10 WHILE I&C resets the RHR flow alarm, THEN place RHR HX BYPASS HCV-626 in MANUAL.

44.11 Open RHR LETDOWN TO CVCS HCV-133.