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October 28, 2005

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

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

As requested, enclosed are Ginna Station Emergency Operating Procedures.

Very truly yours

Dave A. Holm

DAH/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):

AP Index AP-CR.1, Rev 23

4002

NPSP0200 E66429	Ginna Nuclear Power Plant PROCEDURE INDE>			Fri '	10/28/2005 8:33 Page	3:20 a ∋ 1 of
INPUT PARAMETERS			5 YEARS ON	ILY :		an a star a star a star
PRAP A	ABNORMAL PROCEDURE					
PROCEDURE	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT	ST
AP-CCW.1	LEAKAGE INTO THE COMPONENT COOLING LOOP	017	06/30/2004	06/26/2002	06/26/2007	B
AP-CCW.2	LOSS OF CCW DURING POWER OPERATION	020	04/28/2005	06/26/2002	06/26/2007	E
AP-CCW.3	LOSS OF CCW - PLANT SHUTDOWN	017	04/28/2005	06/26/2002	06/26/2007	B
AP-CR.1	CONTROL ROOM INACCESSIBILITY	023	10/28/2005	06/26/2002	06/26/2007	Ð
AP-CVCS.1	CVCS LEAK	014	06/30/2004	06/03/2002	06/03/2007	Ø
AP-CVCS.3	LOSS OF ALL CHARGING FLOW	005 [^]	04/10/2005	02/27/2004	02/27/2009	8
AP-CW.1	LOSS OF A CIRC WATER PUMP	012	09/17/2004	04/16/2003	04/16/2008	E
AP-ELEC.1	LOSS OF 12A AND/OR 12B BUSSES	028	01/21/2005	06/26/2002	06/26/2007	E
AP-ELEC.2	SAFEGUARD BUSSES LOW VOLTAGE OR SYSTEM LOW FREQUENCY	011	06/10/2004	. 06/26/2002	06/26/2007	8
AP-ELEC.3	LOSS OF 12A AND/OR 12B TRANSFORMER (BELOW 350 F)	. 013	01/21/2005	06/26/2002	06/26/2007	B
AP-ELEC.13/15	LOSS OF BUS 13/15	001	06/30/2004	09/24/2003	09/24/2008	B
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	009	01/21/2005	06/26/2002	06/26/2007	E
AP-ELEC.17/18	LOSS OF SAFEGUARDS BUS 17/18	008	01/21/2005	06/26/2002	06/26/2007	8
AP-FW.1	ABNORMAL MAIN FEEDWATER FLOW	016	06/30/2004	06/26/2002	06/26/2007	Ð
AP-IA.1	LOSS OF INSTRUMENT AIR	018	06/26/2002	04/16/2003	04/16/2008	Ξ
AP-PRZR.1	ABNORMAL PRESSURIZER PRESSURE	015	06/30/2004	06/26/2002	06/26/2007	E
AP-RCC.1	CONTINUOUS CONTROL ROD WITHDRAWALINSERTION	009	06/30/2004	04/16/2003	04/16/2008	8
AP-RCC.2	RCC/RPI MALFUNCTION	012	04/10/2005	2//20/51/2	01/22/2007	8
AP-RCC.3	DROPPED ROD RECOVERY	007	04/28/2005	02/25/2003	02/25/2008	E
AP-RCP.1	RCP SEAL MALFUNCTION	017	06/30/2004	04/24/2003	04/24/2008	Е
AP-RCS.1	REACTOR COOLANT LEAK	017	06/30/2004	04/16/2003	04/16/2008	8
AP-RCS.2	LOSS OF REACTOR COOLANT FLOW	012	06/30/2004	04/16/2003	04/16/2008	8
AP-RCS.3	HIGH REACTOR COOLANT ACTIVITY	011	06/30/2004	04/01/2002	01/22/2007	Ξ
AP-RCS.4	SHUTDOWN LOCA	017	03/18/2005	04/30/2003	04/30/2008	E
AP-RHR.1	LOSS OF RHR	019	04/30/2003	04/30/2003	04/30/2008	Ε
AP-RHR.2	LOSS OF RHR WHILE OPERATING AT RCS REDUCED INVENTORY CONDITIONS	015	04/05/2005	04/30/2003	04/30/2008	E
AP-SG.1	STEAM GENERATOR TUBE LEAK	004	04/10/2005	06/28/2002	06/26/2007	B
AP-SW.1	SERVICE WATER LEAK	021	09/17/2004	04/21/2003	04/21/2008	E
AP-SW.2	LOSS OF SERVICE WATER	007	01/21/2005	1//20/50/3	10/31/2006	E

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NPSP0200 E66429		Ginna Nuclear Power Plant PROCEDURE INDE>			Fri '	10/28/2005 8:33 Page	20 ar 2 of 2
INPUT PARAMETEI		STATUS VALUE(S): EF, QU		5 YEARS ON		177 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	ang saya da Anana
PRAP	ABNORMAL PROCEDURE			18-4 (18-20-20-20-20-20-20-20-20-20-20-20-20-20-			469461-692
PROCEDURE NUMBER	PROCEDURE TITLE	· · · · · · · · · · · · · · · · · · ·	REV	EFFECT	LAST REVIEW	NEXT REVIEW	ST
AP-TURB.2	TURBINE LOAD REJECTION		021	04/10/2005	06/26/2002	06/26/2007	F
AP-TURB.3	TURBINE VIBRATION		014	07/01/2005	06/26/2002	06/26/2007	F
AP-TURB.4	LOSS OF CONDENSER VACUUM		018	04/10/2005	04/30/2003	04/30/2008	æ
AP-TURB.5	RAPID LOAD REDUCTION		008	04/10/2005	06/26/2002	06/26/2007	F

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GRAND TOTAL: 34

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	AP-CR.1	CONTROL ROOM INACCESSIBILITY	PAGE 1 of 15
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GINNA STATION CONTROLLED COPY NUMBER

RESPONSIBLE MANAGER

10-28-2005 EFFECTIVE DATE

CATEGORY 1.0

REVIEWED BY: _____

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	AP-CR.1	CONTROL ROOM INACCESSIBILITY	REV: 23
		CONTROL ROOM INACCESSIBILITI	PAGE 2 of 15

- A. PURPOSE This procedure provides the guidance necessary to place and maintain the plant in a Hot Shutdown Condition in the event that a control room evacuation is necessary.
- B. ENTRY CONDITIONS/SYMPTOMS
 - 1. ENTRY CONDITIONS This procedure is entered from:
 - a. ER-SC.2, RESPONSE TO INTRUSION BY ADVERSARY, if the Shift Manager determines to evacuate the Control Room.
 - b. ER-FIRE.0, CR RESPONSE TO FIRE ALARMS AND REPORTS, if the fire is in the Control Complex and affects Control Room Habitability or continued safe plant operation.
 - 2. SYMPTOMS The symptoms of CONTROL ROOM INACCESSIBILITY are:
 - a. Fire in the Control Complex, or
 - b. Smoke in the Control Complex, or
 - c. Noxious Fumes in the Control Room.

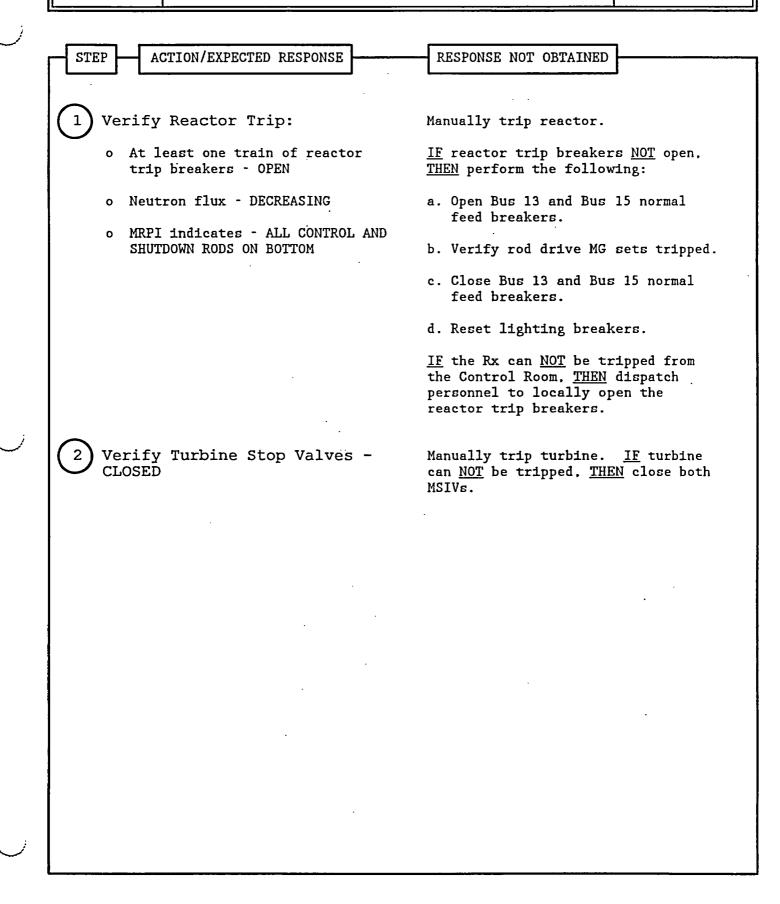
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CONTROL ROOM INACCESSIBILITY

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	AP-CR.1	CONTRO	L ROOM INAC	CESSIBILITY	
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/ 	STEP A	CTION/EXPECTED RESPO		RESPONSE NOT OBTAIN	
	NOTE: o C		evaluated fo	or site contingency rep	orting
	((Refer to EPIP-1.0. (CLASSIFICATION).	GINNA STATION	EVENT EVALUATION AND	
	o S	Should an unsafe con	dition exist	in the Turbine Buildir Door 52 in the Control	g, the
	l	The Relay Room can t niddle level or to t	hen be exited	l either to the Turbine	Building
		to Control Compl		TE fine in NOT contra	
	Condit	te Control Compleions:	ex	<u>IF</u> fire is <u>NOT</u> contro perform the following	;: ;:
	o Veri	lfy no fire in progr	888	a. Place <u>BOTH</u> ARVs in 1005 psig.	AUTO, set at
- ·				b. Manually close bot	h MSIVs.
• •		• • •		c. Trip both RCPs <u>ANI</u> PULL-STOP.) place in
			· :	d. Place both PRZR PO CLOSE.	ORV switches to
				• PCV-430	•
		· · ·	. • •	• PCV-431C	
				e. Stop all charging place in PULL-STOP	pumps <u>AND</u>
		· · · · · · · · · · · · · · · · · · ·		f. Place the following	ng in PULL STOP:
				1) TURB DRVN AFW I VLV. MOV-3504A	PUMP STM SUPPLY
			•	2) TURB DRVN AFW I	1
			•	VLV, MOV-3505A	
			•	3) TURB DRVN AFW I PUMP switch.	PUMP DC OIL
	·	с.		4) TURB DRVN AFW I PUMP switch.	PUMP AC OIL
				g. Operating shift pe	ersonnel
		•		proceed to Appendi immediately outsid Room.	lx R locker
	•		• •	h. Go to ER-FIRE.1, A	T.T.T.R.NATTVE
î.	•			SHUTDOWN FOR CONT FIRE. DO <u>NOT</u> cont procedure.	ROL COMPLEX
				hreedere.	
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TITLE: EOP: REV: 23 AP-CR.1 CONTROL ROOM INACCESSIBILITY PAGE 5 of 15 STEP ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINED NOTE: PPCS terminals may be used for monitoring and trending plant parameters. 4 Establish Local Operating Stations (Refer to ATT-7.0, ATTACHMENT CR EVAC) 5 Locally Verify Emergency AC Busses 14 And 18 - ENERGIZED Consider restoration of emergency AC power using ER-FIRE.1, ALTERNATE (STA in A D/G room at ELCP) SHUTDOWN FOR CONTROL COMPLEX FIRE.

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STEP ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6 Locally Establish AFW Flow To S/Gs (HCO):	
a. Transfer MDAFW pump control to LOCAL	· · · ·
b. Start MDAFW pumps – ANY PUMPS RUNNING	b. Locally perform the following:
	 Open TDAFW pump steam supply valves at the steam header.
	 MOV-3504A MOV-3505A
	 Insert pins in valve operators for TDAFW flow control valves to allow operation of valves.
	 AOV-4297 AOV-4298
	 Throttle TDAFW flow to each S/G to maintain approximately 350 inches wide range level.
	4) Go to Step 7.
c. Verify MDAFW pump flow – LESS THAN 230 GPM PER RUNNING PUMP	c. Locally throttle MDAFW flow control valves to maintain flow less than 230 gpm per running pump.
	 MOV-4007 MOV-4008
d. Throttle MDAFP flow to each S/G to maintain approximately 350 inches wide range level.	· ·
 MDAFP A. MOV-4007 MDAFP B. MOV-4008 	

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- STEP	ACTION/EXPECTED	RESPONSE	·	RESPONSE N	OT OBTAIN	1ED	
	· · · · · · · · · · · · · · · · · · ·	·····		<u> </u>		/ ·	
			•			•	
7 Ener	gize IPELIP (S om Of IBELIP)	Switch At	•				
DOLL	om of ibedii)		•				
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STEP ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINED * 8 Monitor RCS Temperature (IBELIP) . a. RCS Temperature - STABLE a. IF RCS temperature increasing. THEN go to Step 9. IF RCS temperature decreasing, THEN perform the following: 1) Locally throttle AFW flow to that required to maintain S/G level stable. • MDAFW Pump A, MOV-4007 • MDAFW Pump B, MOV-4008 • TDAFW Pump to S/G A. AOV-4297 • TDAFW Pump to S/G B. AOV-4298 2) IF cooldown continues, THEN close MSIVs as follows: (locked valve key required) o S/GA • Close IA to MSIV, V-5408A • Open vent valves, V-5471 AND V-5473 o S/G B • Close IA to MSIV, V-5409B • Open vent valves, V-5472 <u>AND</u> V-5474 3) IF MDAFW pump available to feed S/Gs. THEN manually isolate steam supply to TDAFW pump. • V-3504 V-3505 b. Go to Step 10.

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STEP ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
9 Monitor RCS Temperature (IBELIP)	
a. RCS temperature - INCREASING	a. To to Step 10.
b. Locally throttle S/G ARVs to stabilize RCS temperature.	· ·
c. <u>IF</u> ARVs <u>NOT</u> adequate, <u>THEN</u> perform the following:	
 Check open MSIVs or open MSIV bypass valves as necessary. 	·
• S/G A, V-3615 • S/G B, V-3614	
2) Open priming ejector steam supply root valve, V-3578	
3) Throttle open selected priming ejector steam supply to 200 psig (PI-2019)	
 Priming ejector A. V-3581 Priming ejector B, V-3580 	
10 Locally Establish Charging Flow Control (CO):	
a. Transfer charging pump control to LOCAL	
b. Verify at least one charging pump - RUNNING	b. Locally start one charging pump
c. Check PRZR level - GREATER THAN 13% (charging pump room and AFW pump area, west wall)	c. Locally increase charging pump speed to restore PRZR level to greater than 13%. <u>IF</u> necessary <u>THEN</u> locally start a second charging pump.
d. Locally control charging pump speed and letdown orifices to restore PRZR level to 35%	

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STEP ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<pre>11 Locally Monitor PRZR Pressure - PRESSURE STABLE (AFW pump area, west wall)</pre>	<u>IF</u> pressure increasing, <u>THEN</u> ensure RCS temperature and PRZR level stable.
	<u>IF</u> pressure decreasing, <u>THEN</u> perform the following:
	a. Transfer PRZR heater backup group to local control (MDAFW pump area).
	b. Verify PRZR level greater than 13%.
	c. Energize PRZR heater backup group.
12 Check SW Pumps - AT LEAST ONE RUNNING IN EACH LOOP (CRF, Locally in the Screenhouse)	Locally close SW Pump breakers to establish one SW pump running in each loop.
	o Loop A
	 Bus 18 Position 29C, SW Pump A Bus 17 Position 27C, SW Pump B
	o Loop B
	 Bus 18 Position 29D, SW Pump C Bus 17 Position 27D, SW Pump D
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STEP	ACTION/EXPECT	TED RESPONSE	RESPONSE NOT OBTAINED
Co Al lo	ransfer CNMT Re ontrol To LOCAL I LEAST TWO FAL ocal operating DAFW pump)	L And Check - NS RUNNING (At	Establish two fans running.
a) o	onitor S/G Leve rea, west wall Levels - APPROX Levels - STABLE): IMATELY 350 INCHES	Locally throttle AFW flows to maintain S/G level approximately 350 inches wide range level. • MDAFW pump A, MOV-4007 • MDAFW pump B, MOV-4008 • TDAFW pump to S/G A, AOV-4297 • TDAFW pump to S/G B, AOV-4298
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STEP ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
15 Establish CSD Xenon Free Boron Concentration:	
	· ·
a. Determine amount of boron required (Refer to 0-3.1, BORON	
CONCENTRATION FOR THE XENON FREE ALL RODS IN - MOST REACTIVE ROD	
STUCK OUT SHUTDOWN MARGIN)	
b. Locally open emergency borate	b. Perform the following:
valve, MOV-350 (Primary AO)	1) Locally open manual charging
	pump suction from RWST, V-35 (charging pump room between and B pumps).
	2) Go to Step 15e.
c. Transfer boric acid pump control to LOCAL (Primary AO)	
d. Start one boric acid pump (Primary AO)	
e. Check if required amount of	e. Continue with Step 16. WHEN
boric acid added	required amount of boric acid added, <u>THEN</u> do Step 15f.
f. Stop boration as follows:	
1) Stop all boric acid pumps	
2) Locally close emergency	
borate valve, MOV-350	
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16 Evaluate Con Conditions - HABITABLE	trol Room CONTROL ROOM	Return to Step 5.
17 Evaluate MCE Status (Ref Procedures)		
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AP-CR.1	AP-CR.1 CONTROL ROOM INACCESSIBILITY			
			GE 14	
STEP ACT	ION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED		
equipn	ment control may be transfe	by NRC licensed personnel, then erred back to the control room in staff for additional guidance.	ı an	
18 Establis Operatio	sh Normal Control Room	· ·		
	re normal control room tion of equipment	·· ·		
• Char • SW p	l heaters rging pumps pumps f recirc fans			
• TDAE	W pump steam supplies W pump flow control valves lown orifice valves	3	· .	
• Othe	f pumps er equipment that was ally operated			
b. Verify	y 431K in AUTO	b. Place 431K in AUTO, if a	lesired	
c. Verify	y PRZR spray valves in AUTC) c. Place PRZR spray valves if desired.	in AUT	
d. Ensure	e PRZR heaters restored:			
o PRZ bre	ZR proportional heaters eaker – CLOSED			
	ZR backup heaters breaker - SET, IN AUTO			
e. Verify	y one charging pump in AUTO	e. Place one charging pump if desired.	in AUT	
	lt Plant Staff to determine oldown is necessary	f. <u>IF</u> cooldown <u>NOT</u> required go to O-3. HOT SHUTDOWN XENON PRESENT.		

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EOP: TITLE: REV: 23 AP-CR.1 CONTROL ROOM INACCESSIBILITY PAGE 15 of 15 .' STEP ACTION/EXPECTED RESPONSE **RESPONSE NOT OBTAINED** (Step 18 continued from previous page) g. At least one RCP - RUNNING g. Perform the following: 1) Ensure 2 control rod shroud fans running. 2) Go to ES-0.2. NATURAL CIRCULATION COOLDOWN, Step 1. h. Go to O-2.2. PLANT SHUTDOWN FROM HOT SHUTDOWN TO COLD SHUTDOWN -END-

