RGE AND
A Subsidiary of RGS Energy Group, Inc.

ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649-0001 • 716-771-3250 www.rge.com

JOSEPH A. WIDAY
VICE PRESIDENT & PLANT MANAGER
GINNA STATION

December 20, 2000

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

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

Dear Mr. Vissing:

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
E Index
ATT-11.2, Rev. 1
E-2, Rev. 9

A002

PARAMETERS: DOC TYPES - PRAR PRATT PRE 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	004	06/26/98	02/10/98	02/10/03	EF
ATT-2.2	ATTACHMENT SW ISOLATION	006	03/25/99	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-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	006	07/07/98	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	003	03/31/00	02/10/98	02/10/03	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
ATT-11.2	ATTACHMENT DIESEL AIR COMPRESSOR	001	12/20/00	04/03/98	04/03/03	EF

PARAMETERS: DOC TYPES - PRAR PRATT PRE STATUS: EF QU 5 YEARS ONLY:

PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
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	004	05/01/98	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	006	10/13/00	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	003	05/22/97	02/10/98	02/10/03	EF
ATT-16.0	ATTACHMENT RUPTURED S/G	009	01/11/00	01/11/00	01/11/05	EF
ATT-16.1	ATTACHMENT SGTL	000	09/08/00	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	010	10/13/00	02/29/00	02/28/05	EF
ATT-17.1	ATTACHMENT SD-2	005	09/26/96	09/10/96	09/10/01	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	001	02/12/99	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

TOTAL FOR PRATT 47

PARAMETERS: DOC TYPES - PRAR PRATT PRE

STATUS: EF QU 5 YEARS ONLY:

PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
E-0	REACTOR TRIP OR SAFETY INJECTION	027	05/18/00	05/01/98	05/01/03	EF
E-1	LOSS OF REACTOR OR SECONDARY COOLANT	019	12/02/99	05/01/98	05/01/03	EF
E-2	FAULTED STEAM GENERATOR ISOLATION	009	12/20/00	05/01/98	05/01/03	EF
E-3	STEAM GENERATOR TUBE RUPTURE	026	03/31/00	05/01/98	05/01/03	EF

TOTAL FOR PRE 4

EOP:	TITLE:	REV: 1
ATT-11.2	ATTACHMENT DIESEL AIR COMPRESSOR	PAGE 1 of 2

Responsible Manager _____ Date 12-20-2000

CAUTION: THE PORTABLE DIESEL DRIVEN AIR COMPRESSOR SHOULD ONLY BE USED TO SUPPLY INSTRUMENT AIR IN AN EMERGENCY SO AS TO PREVENT OIL CONTAMINATION OF THE INSTRUMENT AIR SYSTEM.

To supply Instrument Air System using the Diesel Air Compressor perform the following:

1. Verify hose installed between Diesel Compressor discharge valve (located on compressor) and service air connection (at V-7203C) by Turbine Building overhead door #10.

2. Start the portable Diesel Driven Air Compressor using instructions mounted locally on the compressor.

NOTE: Blowdown portable Diesel Air Compressor Discharge Filter hourly after initial system start until oil and water are sufficiently removed from header, THEN blowdown the Discharge Filter once every 4 hours.

3. Blowdown portable Diesel Air Compressor Discharge Filter by cycling open and closed Service Air Yard inlet drain/trap drain valve V-7203B until only air escapes. (Next to Door #10, Column A-7 Turbine Building Basement North)

4. Check closed Breathing Air Compressor discharge isolation valve V-14007Y (next to Door #10, Column A-7 Turbine Building Basement North).

5. Check closed Backup Air Compressor discharge drain valve V-14007X (next to Door #10, Column A-7 Turbine Building Basement North).

6. Open Service Air isolation valve to Turbine Building from Yard, V-7203. (Next to Door #10, Column A-7 Turbine Building Basement North)

7. Blowdown residue in line by throttling open Backup Air Compressor discharge drain valve V-14007X until residue is removed, THEN close drain valve V-14007X.

8. Open Back-up Air Compressors discharge inner isolation valve to Service Air header, V-7195A. (Next to Door #10, Column A-7 Turbine Building Basement Northwest).

9. Check open Back-up Air Compressors discharge outer isolation valve to Service Air header, V-7195. (Overhead by Door #10 Column A-7 Turbine Building Basement Northwest)

10. Open Service Air crosstie valve to Instrument Air System V-5365 to crosstie the Service Air and Instrument Air Systems. (Bypasses AOV-5251, just West of Instrument Air Receivers)

11. IF Instrument Air header pressure is greater than normal operating pressure (~ 120 psig) when using the Gardner Denver Diesel Driven Air Compressor, THEN throttle open V-GD1B, Compressor discharge service isolation valve to maintain Instrument Air header at ~ 120 psig.

12. Maintain proper fuel oil level in portable Diesel Driven Air Compressor. (Notify Maintenance if necessary)

13. Inform I&C that Instrument Air and Service Air are crosstied.

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

RESPONSIBLE MANAGER

12-20-2000
EFFECTIVE DATE

CATEGORY 1.0

REVIEWED BY:_____

A. PURPOSE - This procedure provides actions to identify and isolate a faulted steam generator.

B. ENTRY CONDITIONS/SYMPTOMS

1. ENTRY CONDITIONS - This procedure is entered from:

a. E-0, REACTOR TRIP OR SAFETY INJECTION, with the following symptoms:

1) Any S/G pressure decreasing in an uncontrolled manner.

2) Any S/G completely depressurized.

b. E-1, LOSS OF REACTOR OR SECONDARY COOLANT,
E-3, STEAM GENERATOR TUBE RUPTURE,
ECA-3.1, SGTR WITH LOSS OF REACTOR COOLANT - SUBCOOLED RECOVERY DESIRED, and
ECA-3.2, SGTR WITH LOSS OF REACTOR COOLANT - SATURATED RECOVERY DESIRED, with the following symptoms and/or conditions:

1) Any S/G pressure decreasing in an uncontrolled manner.

2) Any S/G completely depressurized.

3) Faulted S/G isolation not verified.

c. FR-H.5, RESPONSE TO STEAM GENERATOR LOW LEVEL, when the affected S/G is identified as faulted.

d. Other procedures whenever a faulted S/G is identified.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

* *

CAUTION

- o AT LEAST ONE S/G SHALL BE MAINTAINED AVAILABLE FOR RCS COOLDOWN.
- o ANY FAULTED S/G OR SECONDARY BREAK SHOULD REMAIN ISOLATED DURING SUBSEQUENT RECOVERY ACTIONS UNLESS NEEDED FOR RCS COOLDOWN.

* *

NOTE: o Critical Safety Function Status Trees should be monitored.

o Adverse CNMT values should be used whenever CNMT pressure is greater than 4 psig or CNMT radiation is greater than 10^{+05} R/hr.

1 Check MSIV Of Faulted S/G(s) - CLOSED

Manually close valve.

IF valve will NOT close from MCB, THEN dispatch AO with locked valve key to locally closed faulted S/G(s) MSIV as follows:

- o S/G A
  - 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 AND V-5474

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
2	Check If Any S/G Secondary Side Is Intact: o Check pressure in S/G A - STABLE OR INCREASING -OR- o Check pressure in S/G B - STABLE OR INCREASING	IF both S/G pressures decreasing in an uncontrolled manner, THEN go to ECA-2.1, UNCONTROLLED DEPRESSURIZATION OF BOTH STEAM GENERATORS, Step 1.
3	Check Faulted S/G Status: o Faulted S/G pressure - DECREASING IN AN UNCONTROLLED MANNER -OR- o Faulted S/G - COMPLETELY DEPRESSURIZED	IF both S/G pressures stable or increasing, THEN search for initiating break and go to Step 6. • Main steamlines • Main feedlines • S/G blowdown system • Sample system

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
4	Isolate Feed Flow To Faulted S/G: o Close faulted S/G MDAFW pump discharge valve • S/G A, MOV-4007 • S/G B, MOV-4008 o Pull stop faulted S/G MDAFW pump o Close faulted S/G TDAFW flow control valve • S/G A, AOV-4297 • S/G B, AOV-4298 o Verify faulted S/G MFW regulating valve and bypass valve - CLOSED • S/G A, HCV-466 and HCV-480 • S/G B, HCV-476 and HCV-481 o Verify MDAFW pump crosstie valves - BOTH CLOSED • MOV-4000A • MOV-4000B o Close faulted S/G SAFW pump discharge valve • S/G A, MOV-9701A • S/G B, MOV-9701B	Manually close valves. IF valves can NOT be closed, THEN dispatch AO to locally isolate flowpaths as necessary.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

* *

CAUTION

IF THE TDAFW PUMP IS THE ONLY AVAILABLE SOURCE OF FEED FLOW, THEN STEAM SUPPLY TO THE TDAFW PUMP MUST BE MAINTAINED FROM ONE S/G.

* *

5 Isolate Steam Flow From Faulted S/G: o Verify faulted S/G ARV - CLOSED • S/G A, AOV-3411 • S/G B, AOV-3410 o Close faulted S/G TDAFW pump steam supply valve and place in PULL STOP • S/G A, MOV-3505A • S/G B, MOV-3504A o Verify faulted S/G blowdown and sample valves - CLOSED • S/G A, AOV-5738 and AOV-5735 • S/G B, AOV-5737 and AOV-5736 o Dispatch AO to complete faulted S/G isolation (Refer to Attachment FAULTED S/G)	Manually close valves. IF valves can NOT be closed, THEN dispatch AO to locally isolate flowpaths as necessary.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

* *

CAUTION

IF CST LEVEL DECREASES TO LESS THAN 5 FEET, THEN ALTERNATE WATER SOURCES FOR AFW PUMPS WILL BE NECESSARY (REFER TO ER-AFW.1, ALTERNATE WATER SUPPLY TO AFW PUMPS).

* *

NOTE: TDAFW pump flow control valves fail open on loss of IA.

* **6** Monitor Intact S/G Levels:

a. Narrow range level - GREATER THAN 5% [25% adverse CNMT]

a. Maintain total feed flow greater than 200 gpm until narrow range level greater than 5% [25% adverse CNMT] in at least one S/G.

b. Control feed flow to maintain narrow range level between 17% [25% adverse CNMT] and 50%

b. IF narrow range level in any S/G continues to increase in an uncontrolled manner, THEN go to E-3, STEAM GENERATOR TUBE RUPTURE, Step 1.

7 Check Secondary Radiation Levels - NORMAL

- o Steamline radiation monitor (R-31 and R-32)
- o Air ejector radiation monitor (R-15)
- o S/G blowdown radiation monitor (R-19)
- o Request RP sample S/Gs for activity

IF steamline radiation monitors NOT available, THEN dispatch AO to locally check steamline radiation.

IF abnormal radiation levels detected in any S/G, THEN go to E-3, STEAM GENERATOR TUBE RUPTURE, Step 1.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
8	Adjust Steam Dump To Minimize RCS Heatup:	
	a. Determine allowable intact S/G pressure using maximum hot leg temperature (Refer to Figure INTACT S/G PRESSURE)	
	b. Check condenser steam dump available: o Verify intact S/G MSIV - OPEN o Annunciator G-15, STEAM DUMP ARMED- LIT	b. Perform the following: 1) Adjust intact S/G ARV to pressure determined from Figure INTACT S/G PRESSURE. 2) Go to E-1, LOSS OF REACTOR OR SECONDARY COOLANT, Step 1.
	c. Verify steam dump mode selector switch in MANUAL	
	d. Adjust condenser steam dump controller in AUTO to pressure determined from Figure INTACT S/G PRESSURE	
9	Go To E-1, LOSS OF REACTOR OR SECONDARY COOLANT, Step 1	

-END-

E-2 APPENDIX LIST

TITLE

1) FIGURE INTACT S/G PRESSURE (FIG-7.0)

2) ATTACHMENT FAULTED S/G (ATT-10.0)