1	EOP:	TITLE:				
	AP-SW.1		SERVICE	WATER	LEAK	
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QA X NON-QA CATEGORY 1.0

REVIEWED BY:

9003080341 900227 PDR ADDCK 05000244 F PNU

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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER \_\_\_\_\_\_\_

TECHNICAL REVIEW

PORC REVIEW DATE \_\_\_\_\_\_ 7.90\_\_\_\_

PLANT SUPERINTENDENT

2-23-90 EFFECTIVE DATE

	GINNA STATION		
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A. PURPOSE - This procedure provides the necessary instructions to respond to a station service water leak.

## B. ENTRY CONDITIONS/SYMPTOMS

- 1. SYMPTOMS The symptoms of SERVICE WATER LEAK are;
  - a. Service water header pressure low alarms on computer, or
  - b. Annunciator H-6, CCW SERVICE WATER LO FLOW 1000 GPM, alarms, or
  - c. Annunciator E-31, CONTAINMENT RECIRC FAN CONDENSATE HI-HI LEVEL alarm, exhibits an unexplained increase in frequency, or
  - d. Sump pump activity increases in containment, the aux bldg, or intermediate bldg, or
  - e. Unexplained increase in the waste hold-up tank, or
  - f. Visual observation of an SW leak.

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ST	EP ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
` <b>*</b> :		* * * * * * * * * * * * * * * * * * *
	F EITHER D/G STARTS, BUT WILL NOT AC OT AVAILABLE, STOP THE AFFECTED D/G	CCEPT BLECTRICAL LOAD, AND COOLING WATER TO PREVENT OVERHEATING.
* *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
NO	<u>TE</u> : o Steps 1 through 3 are IMMEDI	ATE ACTION steps.
	o See Attachment A for a list supplied by each service wat	of the major non-safeguards loads er header.
1	Verify 480V Busses 17 and 18 - ENERGIZED	Verify D/Gs running <u>OR</u> start D/Gs and manually load busses 17 and 14 onto the D/Gs if necessary.
2	Verify 1 SW Pump RUNNING In Each Loop:	<u>IF</u> an SW pump has tripped, <u>THEN</u> start the standby pump for that loop.
	o Loop A, 1A or 1B SWP pump - RUNNING	
	o Loop B, 1C or 1D SWP pump - RUNNING	,
3	Check SW Header Pressure For Each Loop:	<u>IF</u> pressure can <u>NOT</u> be restored i both loops, <u>THEN</u> trip the reactor and go to E-O, REACTOR TRIP or
	o A loop SW header pressure - GREATER THAN 40 PSIG AND STABLE OR INCREASING	SAFETY INJECTION.
	o B loop SW header pressure - GREATER THAN 40 PSIG AND STABLE OR INCREASING	

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	CTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED	1
STEP A	CTION/EXPECTED RESPONSE	RESPONSE NOT OBTRINED	
shou	W is lost to any safeguards equ ld be declared inoperable and a ired by Tech Specs, Section 3.	ipment, the affected comp appropriate actions taken	oonent as
	CNMT For SW Leakage:	<u>IF</u> the SW leak is <u>NOT</u> i <u>THEN</u> go to Step 8.	in the CNMT,
o CNMT	sump A level - INCREASING		
	sump A pump start frequency CREASING		
	n A-25.1, GINNA STATION EVENT H W leak in containment.	REPORT, should be submitte	ed for a
	efer to 0-9.3, NRC IMMEDIATE NG equirements.	DTIFICATION, for reporting	3
a	ump at 10 feet indicated on the pproximately 6 feet 6 inches be essel.		
Within	If The SW Leak Is The Capacity Of 1 CNMT ump (50 GPM):	<u>IF</u> leakage exceeds the l CNMT sump pump, <u>THEN</u> shutdown should be cons	plant
runn THAN	mum of 1 CNMT sump A pump ing AND sump A level - LESS 10 FEET AND STABLE OR EASING		
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AF-	-34.1		SERVICE 1		PAGE 5 of
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STE	SP A	CTION/EXPECTED	RESPONSE	RESPONSE	NOT OBTAINED
NOT		recirc fan co identifying a l			icators may be helpful
6	If Sou Leakin Coolen	, Prior to A nrce Of SW L ng CNMT Reci c OR A React ctment Coole	eak Is A rc Fan or '	<b>'</b> ,	•
1	read iso] Atta	recirc fan co tor compartmer ated one at a chment B for i CAGE DETECTED	nt coolers time (Refer	to a CNMT , CONTAIN	k can <u>NOT</u> be located t a CNMT entry, <u>THEN</u> make entry. Refer to A-3, NMENT VESSEL ACCESS EMENTS.
7		ete - ISOLAT SE SOURCE AN 16			
8	Sump H	Aux Bldg And Pump To Dete al Location (	rmine The	sump pumps increased	DG and Intermediate Bldg. s run frequency has <u>NOT</u> , <u>THEN</u> have personnel leakage in the Turbine
	o Aux run	Bldg OR Inter frequency - IN	Bldg sump pur ICREASED	mp Bldg.	
9		ish - THE S ON OF THE L			•
10	THECC	ete An Evalu ONSEQUENCES ( CAKING SECTIO	OF ISOLATIN	ſĠ	
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<u>NOTE</u> : If SW is lost to either D/G, re EMERGENCY D/Gs, if cooling is r	
<pre>11 Establish If Plant Operation May Continue:     o Plant operation - MAY CONTINUE</pre>	
12 Establish Isolation Of The SV Leak At The Source:	<b>1</b>
a. SW leak - ISOLATED AT THE SOURC	E a. <u>IF</u> the leak can <u>NOT</u> be isolated within either loop, <u>THEN</u> split <sup>.</sup> the A and B loops as follows:
	1) Close V-4669 <u>OR</u> V-4760 in B D/G room.
	2) Close V-4611 <u>OR</u> V-4612 in screenhouse.
۰ .	3) Close V-4625 <u>OR</u> V-4626 in Inter Bldg clean side.
	4) Close V-4639 <u>OR</u> V-4756 in Inter Bldg clean side.
	5) Go to Step 13.
b. Go to Step 16	
13 Establish Which Loop Has The Leak:	
a. Check leak location on SW flow print - TO DETERMINE WHICH LOOP SHOULD BE AFFECTED	
b. Verify header pressure in affected loop - LESS THAN INTAC LOOP HEADER PRESSURE	T .

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SERVICE WATER LEAK

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- STE	EP ACTION/EXPECTED RESPONSE RE	SPONSE NOT OBTAINED
14	SW Pumps In Affected Loop - Stop STOPPED	p SW pumps in affected loop.
15	Complete - ISOLATION OF THE LEAK	
16	Complete - NOTIFICATION TO MAINTENANCE AND HIGHER SUPERVISION	
	-END-	• 2
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## ATTACHMENT\_A

A SW LOOP NON-SAFETY RELATED LOADS:

- 1A and 1C instrument air compressors. 0
- 1A main feed pump. 0
- o Exciter cooler.
- . o Bus duct coolers (both)
- o Seal oil unit airside and H2 side coolers.
- B turbine oil cooler. 0
- All 3 condensate pumps. 0
- Secondary sample coolers. ο
- Battery room air conditioners. 0
- Relay room air conditioners. 0
- Traveling screens. 0
- o Circulating water pumps.
- Administrative computer room HVAC. 0
- House heating boiler sample cooler. 0
- Spent fuel pit Hx. 0

B SW LOOP NON-SAFETY RELATED LOADS:

- 1B main feed pump. 0
- Both heater drain pumps. 0
- Both EH oil coolers. 0
- A turbine oil cooler. 0
- ο 1B instrument air compressor.
- o Service air compressor.
- Vacuum priming pumps.1A and 1B HVAC water chillers.
- Laundry room cooler. 0
- New spent fuel pit Hx. 0

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## ATTACHMENT B

SERVICE WATER LOADS IN CONTAINMENT AND ASSOCIATED ISOLATION VALVES: <u>NOTE</u>: A locked valve key will be needed as these are locked valves. Intermediate Bldg. (clean side):

- A CNMT recirc fan cooler
   SW inlet V-4627
   SW outlet V-4629
- o B CNMT recirc fan cooler SW inlet V-4628 SW outlet V-4630
- o C CNMT recirc fan cooler SW inlet V-4641 SW outlet V-4643
- o D CNMT recirc fan cooler SW inlet V-4642 SW outlet V-4644

Intermediate Bldg. (hot side - sample hood):

- o A Rx compartment cooler
  SW inlet V-4757
  SW outlet B-4758
- o B RX compartment cooler
  SW inlet V-4635
  SW outlet V-4636

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