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Rev. 20 Effective Date 12/8/97

INFORMATION

ANNUNCIATOR RESPONSE

AR-501

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

ICS I ANNUNCIATOR RESPONSE

APPROVED BY: Interpretation Contact

SIGNATURE ON FILE

DATE: 12/5/97

Interpretation Contact: Manager, Nuclear Plant Operations Support

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1.0 PURPOSE

- 1.1 Establish a reference document for each Annunciator Window on the ICS-CY1 Lampbox.
- Establish operator actions for valid Annunciator alarms on the ICS-CY1 Lampbox.
- 1.3 Establish a reference to other procedures which address operator actions for valid Annunciator alarms on the ICS-CY1 Lampbox.

2.0 REFERENCES

2.1 IMPLEMENTING REFERENCES

- 2.1.1 AP-545, Plant Runback
- 2.1.2 OP-302, RC Pump Operation
- 2.1.3 OP-506, LPMS Data Handling Recording and Analysis Equipment
- 2.1.4 EOP, Emergency Operating Procedure

2.2 DEVELOPMENTAL REFERENCES

- 2.2.1 INPO 90-021, Good Practice OP-217, Alarm Response Procedures
- 2.1.2 Annunciator Window Engraving Drawing E-224-048

3.0 PERSONNEL INDOCTRINATION

3.1 The Annunciator System is powered from VBDP-5 Breaker 28.

4.0 INSTRUCTIONS

4.1 Respond to alarms on the ICS-CY1 Lampbox as indicated on Enclosure 1, Annunciator Response.

5.0 FOLLOW-UP ACTIONS

None

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ENCLOSURE 1 (Page 1 of 94)

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	RC PUMI	PA
	TRIP	

EVENT POINT 1377

INDICATED CONDITION:

O RCP-1A BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o GREEN LIGHT ON WITH A RED FLAG ON RCP-1A CONTROL STATION. o RCS FLOW IS DECREASING.

OPERATOR ACTIONS FOR A VALID ALARM:

O REFER TO AP-545.

DISCUSSION:

A RCP TRIP SHOULD CAUSE A PLANT RUNBACK AND CAUSE FEEDWATER TO RE-RATIO.

ADDRESS TS REQUIREMENTS CONCERNING THIS CONDITION.

REFERENCES: DRAWING 208-047 SHEET RC-01

SENSING ELEMENT: CONTROL SWITCH AND BREAKER CONTACTS

AR-501

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ENCLOSURE 1 (Page 2 of 94) 10

ICS-I ANNUNCIATOR RE	ICS-I ANNUNCIATOR RESPONSE		I-01-02
		RC PUMP MTR VIBRA HIGH	

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EVENT POINT 1299

INDICATE	D CONDITION:
o RCP-1	A MOTOR VIBRATION >2 MILS AS SENSED BY RC-42-MS.
REDUNDAN	T INDICATION WHICH WILL VERIFY ALARM:
	DANT RCP VIBRATION INDICATIONS AS SEEN ON RCP VIBRATION MONITORING , LPP-1A.
OPERATOR	R ACTIONS FOR A VALID ALARM:
o CONSI	TO OP-302 FOR ACTIONS ON HIGH RCP VIBRATION. DERATION SHOULD BE GIVEN TO SHUTTING DOWN A RCP WITH HIGH
VIBRA	TIONS.
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DISCUSSI THE VII DEPRES	ION: BRATION SWITCH RESET PUSH-BUTTON ON THE MAIN CONTROL BOARD MUST BE SED TO RESET THIS ALARM.
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ENCLOSURE 1 (Page 3 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-03	I-01-03
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	RC PUMP A CLG WTR FLOW LOW	

EVENT POINT 1419

INDICATED CONDITION:

O SW FLOW TO RCP-1A IS <260 Gr M AS SENSED BY SW-108-FS2.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O WHITE RCP-1A SW FLOW INTERLOCK LIGHT NOT ON.

OPERATOR ACTIONS FOR A VALID ALARM:

VERIFY NORMAL SW SYSTEM OPEPATION.
 REFER TO OP-302 FOR SW REQUINIMENTS FOR RUNNING REACTOR COOLANT PUMPS.

DISCUSSION:

THIS ALARM MAY BE CAUSED BY LARGE SW SYSTEM LOADS. IN THESE INSTANCES CONSIDERATION SHOULD BE GIVEN TO RUNNING SWP-1A OR SWP-1B INSTEAD OF HSING THE NORMAL DUTY SW PUMP, SWP-1C.

REFERENCES: DRAWING 208-047 SHEET RC-05

SENSING ELEMENT: SW-108-F52

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ENCLOSURE 1 (Page 4 of 94)

ICS-CY1-01-04	I-01-04
	ICS-CY1-01-04

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RC PUMP OVERCURRENT

EVENT POINT 1378

INDICATED CONDITION:

o RCP-1A MOTOR AMPS >110% RATED LOAD.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O HIGH MOTOR AMPS INDICATED ON RCP-1A CONTROL STATION. O RCP-1A TRIPS.

OPERATOR ACTIONS FOR A VALID ALARM:

INVESTIGATE CAUSE OF HIGH CURRENT.
 INSPECT BREAKER FOR DROPPED TARGETS.

DISCUSSION:

THIS ALARM INDICATES THAT EITHER THE TIMED OVERCURRENT OR INSTANTANEOUS OVERCURRENT PROTECTIVE DEVICES HAVE ACTUATED. INSTANTANEOUS OVERCURRENT PROTECTIVE RELAY ACTUATION WILL TRIP THE BREAKER.

IT IS POSSIBLE TO HAVE THIS ALARM PRIOR TO THE BREAKER TRIP.

REFERENCES: DRAWING 208-047 SHEET RC-01

SENSING ELEMENT: 74-RCP-1A

AR-501

ENCLOSURE 1

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ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-04	I-01-04	
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RC PUMP OVERCURRENT

EVENT POINT 1380

INDICATED CONDITION:

O RCP-18 MOTOR AMPS >110% RATED LOAD.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o HIGH MOTOR AMPS INDICATED ON RCP-1B CONTROL STATION. o RCP-1B TRIPS.

OPERATOR ACTIONS FOR A VALID ALARM:

o INVESTIGATE CAUSE OF HIGH CURRENT. o INSPECT BREAKER FOR DROPPED TARGETS.

DISCUSSION:

THIS ALARM INDICATES THAT EITHER THE TIMED OVERCURRENT OR INSTANTANEOUS OVERCURRENT PROTECTIVE DEVICES HAVE ACTUATED. INSTANTANEOUS OVERCURRENT PROTECTIVE RELAY ACTUATION WILL TRIP THE BREAKER.

IT IS POSSIBLE TO HAVE THIS ALARM PRIOR TO THE BREAKER TRIP.

REFERENCES: DRAWING 208-047 SHEET RC-02

SENSING ELEMENT: 74-RCP-18

ENCLOSURE 1 (Page 6 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-04	I-01-04
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RC PUMP OVERCURRENT

EVENT POINT 1382

INDICATED CONDITION:

O RCP-1C MOTOR AMPS >110% RATED LOAD.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o HIGH MOTOR AMPS INDICATED ON RCP-1C CONTROL STATION. o RCP-1C TRIPS.

OPERATOR ACTIONS FOR A VALID ALARM:

INVESTIGATE CAUSE OF HIGH CURRENT.
 INSPECT BREAKER FOR DROPPED TARGETS.

DISCUSSION:

THIS ALARM INDICATES THAT EITHER THE TIMED OVERCURRENT OR INSTANTANEOUS OVERCURRENT PROTECTIVE DEVICES HAVE ACTUATED. INSTANTANEOUS OVERCURRENT PROTECTIVE RELAY ACTUATION WILL TRIP THE BREAKER.

IT IS POSSIBLE TO HAVE THIS ALARM PRIOR TO THE BREAKER TRIP.

REFERENCES: DRAWING 208-047 SHEET RC-03

SENSING ELEMENT: 74-RCP-1C

ENCLOSURE 1 (Page 7 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-04 I-01-0		
	RC PUN OVERCUR		
	EVENT POINT 1384		

INDICATED CONDITION:

o RCP-1D MOTOR AMPS >110% RATED LOAD.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o HIGH MOTOR AMPS INDICATED ON RCP-1D CONTROL STATION. : RCP-1D TRIPS.

OPERATOR ACTIONS FOR A VALID ALARM:

INVESTIGATE CAUSE OF HIGH CURRENT.
 INSPECT BREAKER FOR DROPPED TARGETS.

DISCUSSION:

THIS ALARM INDICATES THAT EITHER THE TIMED OVERCURRENT OR INSTANTANEOUS OVERCURRENT PROTECTIVE DEVICES HAVE ACTUATED. INSTANTANEOUS OVERCURRENT PROTECTIVE RELAY ACTUATION WILL TRIP THE BREAKER.

IT IS POSSIBLE TO HAVE THIS ALARM PRIOR TO THE BREAKER TRIP.

REFERENCES: DRAWING 208-047 SHEET RC-04

SENSING ELEMENT: 74-RCP-1D

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ENCLOSURE 1 (Page 8 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-06	I-01-06
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RC PUMP LIFT OIL PUMP TRIP

EVENT POINT 1269

INDICATED CONDITION:

O RCP-28 BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN LIGHT ON WITH A RED FLAG ON RCP-2B CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

o ENSURE DC LIFT OIL PUMP IS OPERATING. o INVESTIGATE CAUSE OF PUMP TRIP.

DISCUSSION:

REFERENCES: DRAWING 208-047 SHEET RC-10

ENCLOSURE 1 (Page 9 of 94)

ICS-I ANNUNCIATOR RESPONSE ICS-CY1	-01-06 I-01-06	
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RC PUMP LIFT OIL PUMP TRIP

EVENT POINT 1272

INDICATED CONDITION:

o RCP-2C BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN LIGHT ON WITH A RED FLAG ON RCP-2C CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

• ENSURE DC LIFT OIL PUMP IS OPERATING. • INVESTIGATE CAUSE OF PUMP TRIP.

DISCUSSION:

REFERENCES: DRAWING 208-047 SHEET RC-11

ENCLOSURE 1 (Page 10 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-06	I-01-06
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LIFT	OIL	PUM
	TRI	P

EVENT POINT 1275

INDICATED CONDITION:

o RCP-2D BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN LIGHT ON WITH A RED FLAG ON RCP-2D CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

ENSURE DC LIFT OIL PUMP IS OPERATING.
 INVESTIGATE CAUSE OF PUMP TRIP.

DISCUSSION:

REFERENCES: DRAWING 208-047 SHEET RC-12

ENCLOSURE 1 (Page 11 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-06	I-01-06
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RC PUMP LIFT OIL PL'MP TRIP

EVENT POINT 1277

INDICATED CONDITION:

o RCP-3A BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN LIGHT ON WITH A RED FLAG ON RCP-3A CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

O INVESTIGATE CAUSE OF PUMP TRIP.

DISCUSSION:

REFERENCES: DRAWING 208-047 SHEET RC-21

ENCLOSURE 1 (Page 12 of 94)

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ICS-J ANNUNCIATOR RESPONSE	ICS-CY1-01-06	I-01-06

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RC PUMP LIFT OIL PUMP TRIP

EVENT POINT 1281

INDICATED CONDITION:

o RCP-3B BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN LIGHT ON WITH A RED FLAG ON RCP-3B CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

START AC LIFT OIL PUMP.
 INVESTIGATE CAUSE OF PUMP TRIP.

DISCUSSION:

THE AC LIFT OIL PUMP WILL NOT AUTO START ON A LOW OIL PRESSURE SIGNAL. SO THE AC LIFT OIL PUMP MUST BE MANUALLY STARTED.

REFERENCES: DRAWING 208-047 SHEET RC-22

ENCLOSURE 1 (Page 13 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-06	I-01-06
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LIFT	OIL	PUMP
	TRI	P

EVENT POINT 1285

INDICATED CONDITION:

o RCP-3C BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

KEDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN LIGHT ON WITH A RED FLAG ON RCP-3C CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

START AC LIFT OIL PUMP.
 INVESTIGATE CAUSE OF PUMP TRIP.

DISCUSSION:

THE AC LIFT OIL PUMP WILL NOT AUTO START ON A LOW OIL PRESSURE SIGNAL. SO THE AC LIFT OIL PUMP MUST BE MANUALLY STARTED.

REFERENCES: DRAWING 208-047 SHEET RC-23

ENCLOSURE 1 (Page 14 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-01-06	1-01-06
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RC PUMP LIFT O'L PUMP

EVENT POINT 1289

INDICATED CONDITION:

o RCP-3D BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN LIGHT ON WITH A RED FLAG ON RCP-3D CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

O START AC LIFT OIL PUMP. O INVESTIGATE CAUSE OF PUMP TRIP.

UISCUSSION:

THE AC LIFT OIL PUMP WILL NOT AUTO START ON A LOW OIL PRESSURE SIGNAL. SO THE AC LIFT OIL PUMP MUST BE MANUALLY STARTED.

REFERENCES: DRAWING 208-047 SHEET RC-24

ENCLOSURE 1 (Page 15 of 94)

ICS-I	ANNUNCIATOR RESPONSE	ICS-CY1-02-01	I-02-01

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	And the second second	 IN AND DESCRIPTION OF THE OWNER	-

RC PUMP B

EVENT POINT 1379

INDICATED CONDITION:

O RCP-1B BREAKER IS OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

GREEN LIGHT ON WITH A RED FLAG ON RCP-1B CONTROL STATION.
 O RCS FLOW IS DECREASING.

OPERATOR ACTIONS FOR A VALID ALARM:

O REFER TO AP-545.

DISCUSSION:

A RCP TRIP SHOULD CAUSE A PLANT RUNBACK AND CAUSE FEEDWATER TO RE-RATIO.

ADDRESS TS REQUIREMENTS CONCERNING THIS CONDITION.

REFERENCES: DRAWING 208-047 SHEET RC-02

ENCLOSURE 1 (Page 16 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-02-02	I-02-02

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RC PUMP B MTR VIBRATION HIGH

EVENT POINT 1312

REFERENCES: DRAWING 208-047 SHEET RC-06

SENSING ELEMENT: RC-65-MS

ENCLOSURE 1 (Page 17 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-02-03	I-02-0
	RC PUM CLG WTR I	
	LOW	

EVENT POINT 1420

INDICATED CONDITION:

O RCP-1B SW COOLING FLOW <260 GPM AS SENSED BY SW-114-FS2.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O WHITE RCP-1A SW FLOW INTERLOCK LIGHT NOT ON.

OPERATOR ACTIONS FOR A VALID ALARM:

VERIFY NORMAL SW SYSTEM OPERATION.
 REFER TO OP-302 FOR SW REQUIREMENTS FOR RUNNING REACTOR COOLANT PUMPS.

DISCUSSION:

THIS ALARM MAY BE CAUSED BY LARGE SW SYSTEM LOADS. IN THESE INSTANCES CONSIDERATION SHOULD BE GIVEN TO RUNNING SWP-1A OR SWP-1B INSTEAD OF USING THE NORMAL DUTY SW PUMP, SWP-1C.

REFERENCES: DRAWING 208-047 SHEET RC-02

SENSING ELEMENT: RC-114-FS2

ENCLOSURE 1 (Page 18 of 94)

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RC PUMP MTR THRUST BRG TEMP HIGH

EVENT POINT 1304

INDICATED CONDITION:
O RCP UPPER OR LOWER THRUST BEARING TEMPERATURE >185° F AS SEEN ON RCP THRUST BEARING TEMPERATURE MONITOR PANEL, RC-133-TI.
REDUNDANT INDICATION WHICH WILL VERITY ALARM:
© RCP THRUST BEARING TEMPERATURES ON RC-133-TI. © AF.NORMAL RCP VIBRATIONS. © DBSERVE RCP SEAL PARAMETERS.
JPERATOR ACTIONS FOR A VALID ALARM:
 START BOTH LIFT OIL PUMPS AND CONTACT SITE NUCLEAR ENGINEERING FOR EVALUATION. IF THE ACTIVE THRUST BEAPING TEMPERATURE EXCEEDS 250° F AND THE TEMPERATURE IS INCREASING, THEN TRIP THE AFFECTED RCP. MONITOR RCP COMPUTER GROUPS FOR ABNCRMAL TRENDS: RCP-1A - GROUP 78, RCP-1B - GROUP 79, RCP-1C - GROUP 80, RCP-1D - GROUP 81.
DISCUSSION:
THIS ALARM INDICATES A LOSS OF LUBRICATION MAY BE OCCURRING TO THE RCP THRUST BEARINGS. IF TEMPERATURES CONTINUE TO INCREASE CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN THE RCP. THRUST BEARING FAILURE WILL CAUSE SIGNIFICANT AND RAPID SEAL FAILURE.
REFERENCES: DRAWING 208-047 SHEET RC-027
SENSING ELEMENT: RC-133-TI

ENCLOSURE 1 (Page 19 of 94)

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RC PUMP LIFT OIL PUMP AUTO START

EVENT POINT 1268

INDICATED CONDITION:

o RCP-2B CONTROL POWER BREAKER CLOSED WITH THE CONTROL HANDLE IN THE NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RED LIGHT ON WITH A GREEN FLAG ON RCP-2B CONTROL STATION. O RCP-1B TRIP.

OPERATOR ACTIONS FOR A VALID ALARM:

 INVESTIGATE CAUSE OF AUTO START.
 VERIFY PROPER LIFT OIL PRESSURE BY OBSERVING WHITE LIFT OIL PERMISSIVE LIGHT ON.

DISCUSSION:

THE AC LIFT OIL PUMP WILL AUTO START IF THE REACTOR COOLANT PUMP TRIPS OR IS TURNED OFF.

REFERENCES: DRAWING 208-047 SHEET RC-10

ENCLOSURE 1 (Page 20 of 94)

ICS-I ANNUNCIATOR RESPONSE ICS-CY1-	-02-05 I-02-05	
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RC PUMP LIFT OIL PUMP AUTO START

EVENT POINT 1271

INDICATED CONDITION:

o RCP-2C CONTROL BREAKER POWER CLOSED WITH THE CONTROL HANDLE IN THE NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RED LIGHT ON WITH A GREEN FLAG ON RCP-2C CONTROL STATION. O RCP-1C TRIP.

OPERATOR ACTIONS FOR A VALID ALARM:

 O INVESTIGATE CAUSE OF AUTO START.
 O VERIFY PROPER LIFT OIL PRESSURE BY OBSERVING WHITE LIFT OIL PERMISSIVE LIGHT ON.

DISCUSSION:

THE AC LIFT OIL PUMP WILL AUTO START IF THE REACTOR COOLANT PUMP TRIPS OR IS TURNED OFF.

REFERENCES: DRAWING 208-047 SHEET RC-11

ENCLOSURE 1 (Page 21 of 94)

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EVENT POINT 1274

INDICATED CONDITION:

O RCP-2D CONTROL POWER BREAKER CLOSED WITH THE CONTROL HANDLE IN THE NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RED LIGHT ON WITH A GREEN FLAG ON RCP-2D CONTROL STATION. o RCP-1D TRIP.

OPERATOR ACTIONS FOR A VALID ALARM:

O INVESTIGATE CAUSE OF AUTO START. O VERIFY PROPER LIFT OIL PRESSURE BY OBSERVING WHITE LIFT OIL PERMISSIVE LIGHT ON.

DISCUSSION:

THE AC LIFT OIL PUMP WILL AUTO START IF THE REACTOR COOLANT PUMP TRIPS OR IS TURNED OFF.

REFERENCES: DRAWING 208-047 SHEET RC-12

ENCLOSURE 1 (Page 22 of 94)

ICS-I ANNUNCIATOR RESPONSE	CS-CY1-02-05	I-02-05
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RC PUMP LIFT OIL PUMP AUTO START

EVENT POINT 1278

INDICATED CONDITION:

 RCP-3A CONTROL POWER BREAKER CLOSED WITH THE CONTROL HANDLE IN THE NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RED LIGHT ON WITH A GREEN FLAG ON RCP-3A CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

 INVESTIGATE CAUSE OF AUTO START.
 VERIFY PROPER LIFT OIL PRESSURE BY OBSERVING WHITE LIFT OIL PERMISSIVE LIGHT ON.

DISCUSSION:

THE DC LIFT OIL PUMP WILL AUTO START IF THE REACTOR COOLANT PUMP TRIPS OR IS TURNED OFF.

REFERENCES: DRAWING 208-047 SHEET RC-21

ENCLOSURE 1 (Page 23 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-02-05	I-02-05

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RC PUMP LIFT OIL PUMP AUTO START

EVENT POINT 1282

INDICATED CONDITION:

o RCP-3B CONTROL POWER BREAKER CLOSED WITH THE CONTROL HANDLE IN THE NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o RED LIGHT ON WITH A GREEN FLAG ON RCP-3B CONTROL STATION. o RCP-2B TRIP.

OPERATOR ACTIONS FOR A VALID ALARM:

 INVESTIGATE CAUSE OF AUTO START.
 VERIFY PROPER LIFT OIL PRESSURE BY OBSERVING WHITE LIFT OIL PERMISSIVE LIGHT ON.

DISCUSSION:

THE DC LIFT OIL PUMP WILL AUTO START IF THE REACTOR COOLANT PUMP TRIPS OR IS TURNED OFF AND LIFT OIL PRESSURE IS <110 PSIG AS SENSED BY RC-66-RS5.

REFERENCES: DRAWING 208-047 SHEET RC-22

ENCLOSURE 1 (Page 24 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-02-05	I-02-05
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RC PUMP LIFT OIL PUMP AUTO START

EVENT POINT 1286

INDICATED CONDITION:

o RCP-3C CONTROL POWER BREAKER CLOSED WITH THE CONTROL HANDLE IN THE NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o RED LIGHT ON WITH A GREEN FLAG ON RCP-3C CONTROL STATION o CP-2C TRIP.

OPERATOR ACTIONS FOR A VALID ALARM:

 INVESTIGATE CAUSE OF AUTO START.
 VERIFY PROPER LIFT OIL PRESSURE BY OBSERVING WHITE LIFT OIL PERMISSIVE LIGHT ON.

DISCUSSION:

THE DC LIFT OIL PUMP WILL AUTO START IF THE REACTOR COOLANT PUMP TRIPS OR IS TURNED OFF AND LIFT OIL PRESSURE IS <110 PSIG AS SENSED BY RC-89-RS5.

REFERENCES: DRAWING 208-047 SHEET RC-23

ENCLOSURE 1 (Page 25 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-02-05	I-02-05
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	representatives, termination, to the best			
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RC PUMP LIFT OIL PUMP AUTO START

EVENT POINT 1290

INDICATED CONDITION:

o RCP-3D CONTROL POWER BREAKER CLOSED WITH THE CONTROL HANDLE IN THE NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o RED LIGHT ON WITH A GREEN FLAG ON RCP-3D CONTROL STATION. o RCP-2D TRIP.

OPERATOR ACTIONS FOR A VALID ALARM:

o INVESTIGATE CAUSE OF AUTO START. o VERIFY PROPER LIFT OIL PRESSURE BY OBSERVING WHITE LIFT OIL PERMISSIVE LIGHT ON.

DISCUSSION:

THE DC LIFT OIL PUMP WILL AUTO START IF THE REACTOR COOLANT PUMP TRIPS OR IS TURNED OFF AND LIFT OIL PRESSURE IS <110 PSIG AS SENSED BY RC-112-RS5.

REFERENCES: DRAWING 208-047 SHEET RC-24

ENCLOSURE 1 (Page 26 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-02-06	I-02-06	
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RC PUMP OIL LIFT PUMP OVERLOAD

EVENT POINT 1729

INDICATED CONDITION:

O RCP-3A MOTOR AMPS >115% RATED LOAD.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o HIGH BATTERY AMPS. o LOW LIFT OIL PRESSURE (WHITE LIFT OIL PERMISSIVE LIGHT IS OFF).

OPERATOR ACTIONS FOR A VALID ALARM:

O INVESTIGATE CAUSE OF OVERLOAD CONDITION.

DISCUSSION:

IF PROPER LIFT OIL PRESSURE CANNOT BE MAINTAINED THEN CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN RCP-3A AND INVESTIGATING THE LIFT OIL SYSTEM.

REFERENCES: DRAWING 208-047 SHEET RC-21

ENCLOSURE 1 (Page 27 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-02-06	I-02-06
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RC PUMP OIL LIFT PUMP OVERLOAD

EVENT POINT 1283

INDICATED CONDITION:

O RCF 3B MOTOR AMPS >115% RATED LOAD.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O HIGH BATTERY AMPS. O LOW LIFT OIL PRESSURE (WHITE LIFT OIL PERMISSIVE LIGHT IS OFF).

OPERATOR ACTIONS FOR A VALID ALARM:

o START RCP-2B, SHUT DOWN RCP-3B.o INVESTIGATE CAUSE OF OVERLOAD CONDITION.

DISCUSSION:

IF PROPER LIFT OIL PRESSURE CANNOT BE MAINTAINED WITH THE AC PUMP RUNNING THEN CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN THE AC LIFT OIL PUMP AND INVESTIGATING THE LIFT OIL SYSTEM.

REFERENCES: DRAWING 208-047 SHEET RC-22

ENCLOSURE 1 (Page 28 of 94)

ICS-1 /	NNUNCIATOR RESPONSE	ICS-CY1-02-06	I-02-06

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19968				

RC PUMP OIL LIFT PUMP OVERLOAD

EVENT POINT 1287

INDICATED CONDITION:

O RCP-3C MOTOR AMPS >115% RATED LOAD.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o HIGH BATTERY AMPS. o LOW LIFT OIL PRESSURE (WHITE LIFT OT' PERMISSIVE LIGHT IS OFF).

OPERATOR ACTIONS FOR A VALID ALARM:

START RCP-2C, SHUT DOWN RCP-3C.INVESTIGATE CAUSE OF OVERLOAD CONDITION.

DISCUSSION:

IF PROPER LIFT OIL PRESSURE CANNOT BE MAINTAINED WITH THE AC PUMP RUNNING THEN CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN THE AC LIFT OIL PUMP AND INVESTIGATING THE LIFT OIL SYSTEM.

REFERENCES: DRAWING 208-047 SHEET RC-23

ENCLOSURE 1 (Page 29 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-02-06	I-02-0
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and the second		
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EVENT POINT 1291

INDICATED CONDITION:

O RCP-3D MOTOR AMPS >115% RATED LOAD.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o HIGH BATTERY AMPS. o LOW LIFT OIL PRESSURE (WHITE LIFT OIL PERMISSIVE LICHT IS OFF).

OPERATOR ACTIONS FOR A VALID ALARM:

START RCP-2D, SHUT DOWN RCP-3D.
 INVESTIGATE CAUSE OF OVERLOAD CONDITION.

DISCUSSION:

IF PROPER LIFT OIL PRESSURE CANNOT BE MAINTAINED WITH THE AC PUMP RUNNING THEN CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN THE AC LIFT OIL PUMP AND INVESTIGATING THE LIFT OIL SYSTEM.

REFERENCES: DRAWING 208-047 SHEET RC-24

ENCLOSURE 1 (Page 30 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-01	1-03-01
	RC PUM	e c
	TRIP	· ·

EVENT POINT 1381

INDICATED CONDITION:

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O RCP-1C BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTEP. START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN LIGHT ON WITH A RED FLAG ON RCP-1C CONTROL STATION. O RCS FLOW IS DECREASING.

OPERATOR ACTIONS FOR A VALID ALARM:

O REFER TO AP-545.

DISCUSSION:

A RCP TRIP SHOULD CAUSE A PLANT RUNBACK AND CAUSE FEEDWATER TO RE-RATIO.

ADDRESS TS REQUIREMENTS CONCERNING THIS CONDITION.

REFERENCES: DRAWING 208-047 SHEET RC-03

SENSING ELEMENT: CONTROL SWITCH AND BREAKER CONTACTS

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ENCLOSURE 1 (Page 31 of 94)

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ICS-I ANNUNCTATOR RESPONSE	ICS-CY1-03-02	I-03-02
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EVENT POINT 1324

	ED CONDITION:
o RCP-1	IC MOTOR VIBRATION >2 MILS AS SENSED BY RC-88-MS.
REDUNDA	NT INDICATION WHICH WILL VERIFY ALARM:
	NDANT RCP VIBRATION INDICATION AS SEEN ON RCP VIBRATION MONITO. ING
OPERATO	R ACTIONS FOR A VALID ALARM:
o CONS	R TO OP-302 FOR ACTIONS ON HIGH RCP VIBRATION. IDERATION SHOULD BE GIVEN TO SHUTTING DOWN A RCP WITH HIGH ATIONS.
DISCUSS	ION:
	BRATION SWITCH RESET PUSH-BUTTON ON THE MAIN CONTROL BOARD MUST BE SSED TO RESET THIS ALARM.
DEFENT	CES . DRAWING 208 047 SHEET RC 07
	NCES: DRAWING 208-047 SHEET RC-07

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ENCLOSURE 1 (Page 32 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-03	I-03-03
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RC PUMP C CLG WTR FLOW LOW

EVENT POINT 1421

INDICATED CONDITION:

o RCP-1C SW COOLING FLOW <260 GPM AS SENSED BY SW-96-FS2.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O WHITE RCP-1C SW FLOW INTERLOCK LIGHT NOT ON.

OPERATOR ACTIONS FOR A VALID ALARM:

o VERIFY NORMAL SW SYSTEM OPERATION. o REFER TO OP-302 FOR SW REQUIREMENTS FOR RUNNING REACTOR COOLANT PUMPS.

DISCUSSION:

THIS ALARM MAY BE CAUSED BY LARGE SW SYSTEM LOADS. IN THESE INSTANCES CONSIDERATION SHOULD BE GIVEN TO RUNNING SWP-1A OR SWP-1B INSTEAD OF USING THE NORMAL DUTY SW PUMP, SWP-1C.

REFERENCES: DRAWING 208-047 SHEET RC-03

SENSING ELEMENT: SW-96-FS2

ENCLOSURE 1 (Page 33 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-04	I-03-04
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RC PUMP VIBRATION ALERT

EVENT POINT 0811

INDICATED CONDITION:

O RCP-1A VIBRATION GREATER THAN SETPOINT ON BENTLY NEVADA VIBRATION MONITORING PANEL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o FLASHING ALERT LIGHT ON BENTLY NEVADA RCP VIBRATION MONITORING PANEL.
o REDUNDANT READINGS ON THE BENTLY NEVADA VIBRATION MONITORING PANEL.

OPERATOR ACTIONS FOR A VALID ALARM:

O REFER TO OP-302 FOR VIBRATION GUIDELINES.

DISCUSSION:

REFERENCES: BENTLY NEVADA DRAWINGS

ENCLOSURE 1 (Page 34 of 94)

ICS-I ANNUNCIATOR RESPONSE ICS	-CY1-03-04 I-03-04
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RC PUMP VIBRATION ALERT

EVENT POINT 0812

INDICATED CONDITION:

o RCP-1B VIBRATION GREATER THAN SETPOINT ON BENTLY NEVADA VIBRATION MONITORING PANEL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FLASHING ALERT LIGHT ON BENTLY NEVADA RCP VIBRATION MONITORING PANEL. O REDUNDANT READINGS ON THE BENTLY NEVADA VIBRATION MONITORING PANEL.

OPERATOR ACTIONS FOR A VALID ALARM:

O REFER TO OP-302 FOR VIBRATION GUIDELINES.

DISCUSSION:

REFERENCES: BENTLY NEVADA DRAWINGS

ENCLOSURE 1 (Page 35 of 94)

ICS-I ANNUNCIATOR RESPONSE	CS-CY1-03-04 I-03-04
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RC PUMP VIBRATION ALERT

EVENT POINT 0813

INDICATED CONDITION:

o RCP-1C VIBRATION GREATER THAN SETPOINT ON BENTLY NEVADA VIBRATION MONITORING PANEL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o FLASHING ALERT LIGHT ON BENTLY NEVADA RCP VIBRATION MONITORING PANEL. o REDUNDANT READINGS ON THE BENTLY NEVADA VIBRATION MONITORING PANEL.

OPERATOR ACTIONS FOR A VALID ALARM:

O REFER TO OP-302 FOR VIBRATION GUIDELINES.

DISCUSSION:

REFERENCES: BENTLY NEVADA DRAWINGS

ENCLOSURE 1 (Page 36 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-04	I-03-04
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RC PUMP VIBRATION ALERT

EVENT POINT 0821

INDICATED CONDITION:

o RCP-1D VIBRATION GREATER THAN SETPOINT ON BENTLY NEVADA VIBRATION MONITORING PANEL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o FLASHING ALERT LIGHT ON BENTLY NEVADA RCP VIBRATION MONITORING PANEL. o REDUNDANT READINGS ON THE BENTLY NEVADA VIBRATION MONITORING PANEL.

OPERATOR ACTIONS FOR A VALID ALARM:

O REFER TO OP-302 FOR VIBRATION GUIDELINES.

DISCUSSION:

REFERENCES: BENTLY NEVADA DRAWINGS

ENCLOSURE 1 (Page 37 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-04	I-03-04	
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RC PUMP VIBRATION ALERT

EVENT POINT 1937

INDICATED CONDITION:

O RCP BENTLY NEVADA VIBRATION MONITORING PANEL VIBRATION DETECTOR NOT OK.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o FLASHING BYPASSED INDICATION ON THE BENTLY NEVADA VIBRATION MONITORING PANEL.

OPERATOR ACTIONS FOR A VALID ALARM:

O CONTACT SITE NUCLEAR ENGINEERING.

DISCUSSION:

THIS ALARM INDICATES THAT ONE OF THE VIBRATION PICKUPS IS MALFUNCTIONING. ENGINEERING SHOULD BE NOTIFIED.

REFERENCES: BENTLY NEVADA DRAWINGS

ENCLOSURE 1 (Page 38 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05
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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1294

INDICATED CONDITION:

o RCP-1A MOTOR UPPER OIL LEVEL >1.25" ABOVE NORMAL AS SENSED BY RC-39-LSH.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES HIGH LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1A MOTOR UPPER OTL LEVEL WITH RC-190-LI.
 MONITOR RCP-1A USING COMPUTER GROUP 78.
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

RC PUMP MOTOR UPPER OIL RESERVOIR HOLDS APPROXIMATELY 175 GALLONS. NORMAL LEVEL IS 23 3/16".

REFERENCES: DRAWING 208-047 SHEET RC-05

SENSING ELEMENT: RC-39-LSH

ENCLOSURE 1 (Page 39 of 94)

RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1295

INDICATED CONDITION:

O RCP-1A MOTOR UPPER OIL LEVEL >.75" BELOW NORMAL AS SENSED BY RC-39-LSL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1A UPPER MOTOR OIL LEVEL WITH RC-190-LI.
MONITOR RCP-1A USING COMPUTER GROUP 78.
NOTIFY SITE NUCLEAR ENGINEERING.
NOTIFY ELECTRIC SHOP TO PREPARE TO ADD OIL TO MOTOR.

DISCUSSION:

RC PUMP MOTOR UPPER OIL RESERVOIR HOLDS APPROXIMATELY 175 GALLONS. NORMAL LEVEL IS 23 3/16".

REFERENCES: DRAWING 208-047 SHEET RC-05

SENSING ELEMENT: RC-39-LSL

ENCLOSURE 1 (Page 40 of 94)

ICS-1	ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05

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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1296

INDICATED CONDITION:

O RCP-1A MOTOR LOWER OIL LEVEL >1" ABOVE NORMAL AS SENSED BY RC-40-LSH.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1A LOWER MOTOR OIL LEVEL WITH RC-190-LI.
 MONITOR RCP-1A USING COMPUTER GROUP 78.
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

RC PUMP MOTOR LOWER OIL RESERVOIR HOLDS APPROXIMATELY 15 GALLONS. NORMAL LEVEL IS 14 9/16".

REFERENCES: DRAWING 208-047 SHEET RC-05

SENSING ELEMENT: RC-40-LSH

ENCLOSURE 1 (Page 41 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05
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	_ PERSONAL PROPERTY AND INC.	 	 	

RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1297

INDICATED CONDITION:

O RCP-1A MOTOR LOWER OIL LEVEL >1" BELOW MORMAL AS SENSED BY RC-40-LSL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1A LOWER MOTOR OIL LEVEL WITH RC-190-LI.
MONITOR RCP-1A USING COMPUTER GROUP 78.
NOTIFY SITE NUCLEAR ENGINEERING.
NOTIFY ELECTRIC SHOP TO PREPARE TO ADD OIL TO MOTOR.

DISCUSSION:

RC PUMP MOTOR LOWER OIL RESERVOIR HOLDS APPROXIMATELY 15 GALLONS. NORMAL LEVEL IS 14 9/16".

REFERENCES: DRAWING 208-047 SHEET RC-05

SENSING ELEMENT: RC-40-LSL

ENCLOSURE 1 (Page 42 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05
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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1307

INDICATED CONDITION:

O RCP-18 MOTOR UPPER OIL LEVEL >1.25" ABOVE NORMAL AS SENSED BY RC-62-LSH.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES HIGH LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1B MOTOR UPPER OIL LEVEL WITH RC-190-LI.
 MONITOR RCP-1B USING COMPUTER GROUP 79.
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

RC PUMP MOTOR UPPER OIL RESERVOIR HOLDS APPROXIMATELY 175 GALLONS. NORMAL LEVEL IS 23 3/16".

REFERENCES: DRAWING 208-047 SHEET RC-06

SENSING ELEMENT: RC-62-LSH

ENCLOSURE 1 (Page 43 of 94)

ICS-I ANNUNCIATOR RESPONSE IC	S-CY1-03-05 I-03-0	05
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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1308

INDICATED CONDITION:

O RCP-18 MOTOR UPPER OIL LEVEL >.75" BELOW NORMAL AS SENSED BY RC-62-LSL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1B UPPER MOTOR OIL LEVEL WITH RC-190-LI.
MONITOR RCP-1B USING COMPUTER GROUP 79.
NOTIFY SITE NUCLEAR ENGINEERING.
NOTIFY ELECTRIC SHOP TO PREPARE TO ADD OIL TO MOTOR.

DISCUSSION:

RC PUMP MOTOR UPPER OIL RESERVOIR HOLDS APPROXIMATELY 175 GALLONS. NORMAL LEVEL IS 23 3/16".

REFERENCES: DRAWING 208-047 SHEET RC-06

SENSING ELEMENT: RC-62-LSL

ENCLOSURE 1 (Page 44 of 94)

ICS-I ANNUNCIATOR RESPONSE ICS-CY.	1-03-05 I-03-0!	5
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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1309

INDICATED CONDITION:

O RCP-18 MOTOR LOWER OIL LEVEL >1" ABOVE NORMAL AS SENSED BY RC-63-LSH.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES HIGH LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1B LOWER MOTOR OIL LEVEL WITH RC-190-LI.
 MONITOR RCP-1B USING COMPUTER GROUP 79.
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

RC PUMP MOTOR LOWER OIL RESERVOIR HOLDS APPROXIMATELY 15 GALLONS. NORMAL LEVEL IS 14 9/16".

REFERENCES: DRAWING 208-047 SHEET RC-06

SENSING ELEMENT: RC-63-LSH

ENCLOSURE 1 (Page 45 of 94)

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ICS-I	ANNUNCIATOR RESPONSE	1-1-CY1-03-05	I-03-05

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RC PUMP MTK OIL LEVEL HIGH/LOW

EVENT POINT 1310

INDICATED CONDITION:

O RCP-18 MOTOR LOWER OIL LEVEL >1" BELOW NORMAL AS SENSED BY RC-63-LSL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1B LOWER MOTOR OIL LEVEL WITH RC-190-LI.
MONITOR RCP-1B USING COMPUTER GROUP 79.
NOTIFY SITE NUCLEAR ENGINEERING.
NOTIFY ELECTRIC SHOP TO PREPARE TO ADD OIL TO MOTOR.

DISCUSSION:

RC PUMP MOTOR LOWER OIL RESERVI/IR HOLDS APPROXIMATELY 15 GALLONS. NORMAL LEVEL IS 14 9/16".

REFERENCES: DRAWING 208-047 SHEET RC-06

SENSING ELEMENT: RC-63-LSL

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ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05

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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1319

INDICATED CONDITION:

O RCP-1C MOTOR UPPER OIL LEVEL >1.25" ABOVE NORMAL AS SENSED BY RC-85-LSH.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES HIGH LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1C MOTCR UPPER OIL LEVEL WITH RC-190-LI.
 MONITOR RCP-1C USING COMPUTER GROUP 80.
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

RC PUMP MOTOR UPPER OIL RESERVOIR HOLDS APPROXIMATELY 175 GALLONS. NORMAL LEVEL IS 23 3/16".

REFERENCES: DRAWING 208-047 SHEET RC=0,

SENSING ELEMENT: RC-85-LSH

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ICS-I ANNUNCIATOR RESPONSE	CS-CY1-03-05	1-03-05
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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1320

INDICATED CONDITION:

O RCP-1C MOTOR UPPER OIL LEVEL >.75" BELOW NORMAL AS SENSED BY RC-85-LSL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1C UPPER MOTOR OIL LEVEL WITH RC-190-LI.
MONITOR RCP-1C USING COMPUTER GROUP 80.
NOTIFY SITE NUCLEAR ENGINEERING.
NOTIFY ELECTRIC SHOP TO PREPARE TO ADD OIL TO MOTOR.

DISCUSSION:

RC PUMP MOTOR UPPER OIL RESERVOIR HOLDS APPROXIMATELY 175 GALLONS. NORMAL LEVEL IS 23 3/16".

REFERENCES: DRAWING 208-047 SHEET RC-07

SENSING ELEMENT: RC-85-LSL

ENCLOSURE 1 (Page 48 of 94)

ICS-I ANN . TATOR RESPONSE	IC5-CY1-03-05	I-03-05
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	ALC: NO	6.634				

RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1321

INDICATED CONDITION:

O RCP-1C MOTOR LOWER OIL LEVEL >1" ABOVE NORMAL AS SENSED BY RC-86.LSH.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES HIGH LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

o TREND RCP-1C LOWER MOTOR OIL LEVEL WITH RC-190-LI. o MONITOR RCP-1C USING COMPUTER GROUP 80. o NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

RC PUMP MOTOR LOWER OIL RESERVOIR HOLDS APPROXIMATELY 15 GALLONS. NORMAL LEVEL IS 14 9/16".

REFERENCES: DRAWING 208-047 SHEET RC-07

SENSING ELEMENT: RC-86-LSH

ENCLOSURE 1 (Page 49 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05
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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1322

INDICATED CONDITION:

O RCP-1C MOTOR LOWER OIL LEVEL >1" BELOW NORMAL AS SENSED BY RC-86-LSL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1C LOWER MOTOR OIL LEVEL WITH RC-190-LI.
MONITOR RCP-1C USING COMPUTER GROUP 80.
NOTIFY SITE NUCLEAR ENGINEERING.
NOTIFY ELECTRIC SHOP TO PREPARE TO ADD OIL TO MOTOR.

DISCUSSION:

RC PUMP MOTOR LOWER OIL RESERVOIR HOLDS APPROXIMATELY 15 GALLONS. NORMAL LEVEL IS 14 9/16".

REFERENCES: DRAWING 208-047 SHEET RC-07

SENSING ELEMENT: RC-86-LSL

ENCLOSURE 1 (Page 50 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05
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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1331

INDICATED CONDITION:

o RCP-1D MOTOR UPPER OIL LEVEL >1.25" ABOVE NORMAL AS SENSED BY RC-108-LSH.

REDUNDANT 1 DICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES HIGH LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1D MOTOR UPPER OIL LEVEL WITH RC-190-LI.
 MONITOR RCP-1D USING COMPUTER GROUP 81.
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

RC PUMP MOTOR UPPER OIL RESERVOIR HOLDS APPROXIMATELY 175 GALLONS. NORMAL LEVEL IS 23 3/16".

REFERENCES: DRAWING 208-047 SHEET RC-08

SENSING ELEMENT: RC-108-LSH

ENCLOSURE 1 (Page 51 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05
	consistent design and the second states the proceeding of the second states of	a service history on a result from the service of t

RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1332

INDICATED CONDITION:

O RCP-1D MOTOR UPPER OIL LEVEL >.75" BELOW NORMAL AS SENSED BY RC-108-LSL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1D UPPER MOTOR OIL LEVEL WITH RC-190-LI.
MONITOR RCP-1D USING COMPUTER GROUP 81.
NOTIFY SITE NUCLEAR ENGINEERING.
NOTIFY ELECTRIC SHOP TO PREPARE TO ADD OIL TO MOTOR.

DISCUSSION:

RC PUMP MOTOR UPPER OIL RESERVOIR HOLDS APPROXIMATELY 175 GALLONS. NORMAL LEVEL IS 23 3/16".

REFERENCES: DRAWING 208-047 SHEET RC-08

SENSING ELEMENT: RC-108-LSL

ENCLOSURE 1 (Page 52 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05
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and the second se	and the second second second				

RC FUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1333

INDICATED CONDITION:

O RCP-1D MOTOR LOWER OIL LEVEL >1" ABOVE NORMAL AS SENSED BY RC-108-LSH.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES HIGH LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

TREND RCP-1D LOWER MOTOR OIL LEVEL WITH RC-190-LI.
 MONITOR RCP-1D USING COMPUTER GROUP
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

RC PUMP MOTOR LOWER OIL RESERVOIR HOLDS APPROXYMATELY 15 GALLONS. NORMAL LEVEL IS 14 9/16".

REFERENCES: DRAWING 208-047 SHEET RC-08

SENSING ELEMENT: RC-108-LSH



ENCLOSURE 1 (Page 53 of 94)

ICS-I	ANNUNCIATOR RESPONSE	ICS-CY1-03-05	I-03-05
102-1	ANNUNCIATUR RESPONSE	105-011-05-05	1-05-05

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RC PUMP MTR OIL LEVEL HIGH/LOW

EVENT POINT 1334

INDICATED CONDITION:

o RCP-1D MOTOR LOWER OIL LEVEL >1" BELOW NORMAL AS SENSED BY RC-109-LSL.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP MOTOR OIL LEVEL INDICATION, RC-190-LI, INDICATES LOW LEVEL.

OPERATOR ACTIONS FOR A VALID ALARM:

o TREND RCP-1D LOWER MOTOR OIL LEVEL WITH RC-1∃0-LI.
o MONITOR RCP-1D USING COMPUTER GROUP 81.
o NOTIFY SITE NUCLEAR ENGINEERING.
o NOTIFY ELECTRIC SHOP TO PREPARE TO ADD OIL TO MOTOR.

DISCUSSION:

R. PUMP MOTOR LOWER OIL RESERVOIR HOLDS APPROXIMATELY 15 GALLONS. NORMAL LEVEL IS 14 9/16".

REFERENCES: DRAWING 208-047 SHEET RC-08

SENSING ELEMENT: RC-109-LSL

ENCLOSURE 1 (Page 54 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-06	I-03-06
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		1		
CARDON DOWNSTOCKED AND DESCRIPTION OF				

RC PUMP AIR COOLER LEAK

EVENT POINT 1298

INDICATED CONDITION:

O RCP-1A MOTOR COOLER SW LEAK AS SENSED BY RC-41-LS.

MEDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O SW COOLING WATER SUPPLY TO COOLER DIFFERENTIAL FLOW ALARM.

OPERATOR ACTIONS FOR A VALID ALARM:

o MONITOR RCP-1A PARAMETERS USING COMPUTER GROUP 78. o NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN RCP-1A IF THERE IS A SUBSTANTIAL AIR COOLER LEAK.

REFERENCES: DRAWING 208-047 SHEET RC-05

SENSING ELEMENT: RC-41-LS

ENCLOSURE 1 (Page 55 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-06	I-03-06
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 	NEW PROPERTY	 		

RC PUMP AIR COOLER LEAK

EVENT POINT 1311

INDICATED CONDITION:

O RCP-18 MOTOR COOLER SW LEAK AS SENSED BY RC-

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O SW COOLING WATER SUPPLY TO COOLER DIFFERENTIAL FLOW ALARM.

OPERATOR ACTIONS FOR A VALID ALARM:

MONITOR RCP-18 PARAMETERS USING COMPUTER GROUP 79.
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN RCP-1B IF THERE IS A SUBSTANTIAL AIR COOLER LEAK.

REFERENCES: DRAWING 208-047 SHEET RC-06

SENSING ELEMENT: RC-64-LS

ENCLOSURE 1 (Page 56 of 94)

ICS-I	ANNUNCIATOR RESPONSE	ICS-CY1-03-06	I-03-06
			and a second of the second

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RC PUMP AIR COGLER LEAK

EVENT POINT 1323

INDICATED CONDITION:

O RCP-1C MOTOR COOLER SW LEAK AS SENSED BY RC-87-LS.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O SW COOLING WATER SUPPLY TO COOLER DIFFERENTIAL FLOW ALARM.

OPERATOR ACTIONS FOR A VALID ALARM:

MONITOR RCP-1C PARAMETERS USING COMPUTER GROUP 80.
 NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN A RCP-1C IF THERE IS A SUBSTANTIAL AIR COOLER LEAK.

REFERENCES: DRAWING 208-047 SHEET RC-07

SENSING ELEMENT: RC-87-LS

ENCLOSURE 1 (Page 57 of 94)

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ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-03-06	I-03-0
	RC PUN	1P
	AIR COOL	LER
	LEAK	
	LEAN	
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EVENT POINT 1335

INDICATED CONDITION:

O RCP-1D MOTOR COOLER SW LEAK AS SENSED BY RC-110-LS.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O SW COOLING WATER SUPPLY TO COOLER DIFFERENTIAL FLOW ALARM.

OPERATOR ACTIONS FOR A VALID ALARM:

o MONITOR RCP-1D PARAMETERS USING COMPUTER GROUP 81. o NOTIFY SITE NUCLEAR ENGINEERING.

DISCUSSION:

CONSIDERATION SHOULD BE GIVEN TO SHUTTING DOWN A RCP-1D IF THERE IS A SUBSTANTIAL AIR COOLER LEAK.

REFERENCES: DRAWING 208-047 SHEET RC-08

SENSING ELEMENT: RC-110-LS

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ENCLOSURE 1 (Page 58 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-04-01	I-04-01
an construction are an an only - warman construction of the state of the state of the state of the state of the		
	RC PUMP D	
	TRIP	

EVENT POINT 1383

INDICATED CONDITION:

O RCP-1D BREAKER OPEN WITH CONTROL HANDLE IN THE NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o GREEN LIGHT ON WITH A RED FLAG ON RCP-1D CONTROL STATION. o RCS FLOW IS DECREASING.

OPERATOR ACTIONS FOR A VALID ALARM:

O REFER TO AP-545.

DISCUSSION:

A RCP TRIP SHOULD CAUSE A PLANT RUNBACK AND CAUSE FEEDWATER TO RE-RATIO.

ADDRESS TS REQUIREMENTS CONCERNING THIS CONDITION.

REFERENCES: DRAWING 208-047 SHFFT RC-04

SENSING ELEMENT: CONTROL SWITCH AND BREAKER CONTACTS

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ENCLOSURE 1 (Page 59 of 94)

RC PUMP D	
MTR VIBRATIO	N
	MTR VIBRATIO

EVENT POINT 1336

INDICATED CONDITION:

O RCP-1D MOTOR VIBRATION >2 MILS AS SENSED BY RC-111-MS.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

© REDUNDANT ►CP VIBRATION INDICATIONS AS SEEN ON RCP VIBRATION MONITORING PANEL, LPP-1A.

OPERATOR ACTIONS FOR A VALID ALARM:

REFER TO OP-302 FOR ACTIONS ON HIGH RCP VIBRATION.CONSIDERATION SHOULD BE GIVEN SHUTTING DOWN A RCP WITH HIGH VIBRATIONS.

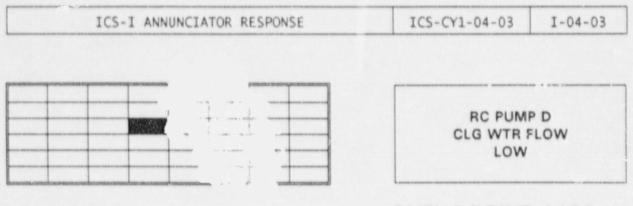
DISCUSSION:

THE VIBRATION SWITCH RESET PUSH-BUTTON ON THE MAIN CONTROL BOARD MUST BE DEPRESSED TO RESET THIS ALARM.

REFERENCES: DRAWING 208-047 SHEET RC-08

SENSING ELEMENT: RC-111-MS

ENCLOSURE 1 (Page 60 of 94)



EVENT POINT 1422

INDICATED CONDITION:

o RCP-1D SW COOLING FLOW IS <260 GPM AS SENSED BY SW-102-FS2.

REDUNDANT IN .CATION WHICH WILL VERIFY ALARM:

O WHITE RCP-1D SW FLOW INTERLOCK LIGHT NOT ON.

OPERATOR ACTIONS FOR A VALID ALARM:

O VER Y NORMAL SW SYSTEM OPERATION. O REFER TO OP-302 FOR SW REQUIREMENTS FOR RUNNING REACTOR COOLANT PUMPS.

DISCUSSION:

THIS ALARM MAY BE CAUSED BY LARGE SW SYSTEM LOADS. IN THESE INSTANCES CONSIDERATION SHOULD BE GIVEN TO RUNNING SWP-1A OR SWP-1B INSTEAD OF USING THE NORMAL DUTY SW PUMP, SWP-1C.

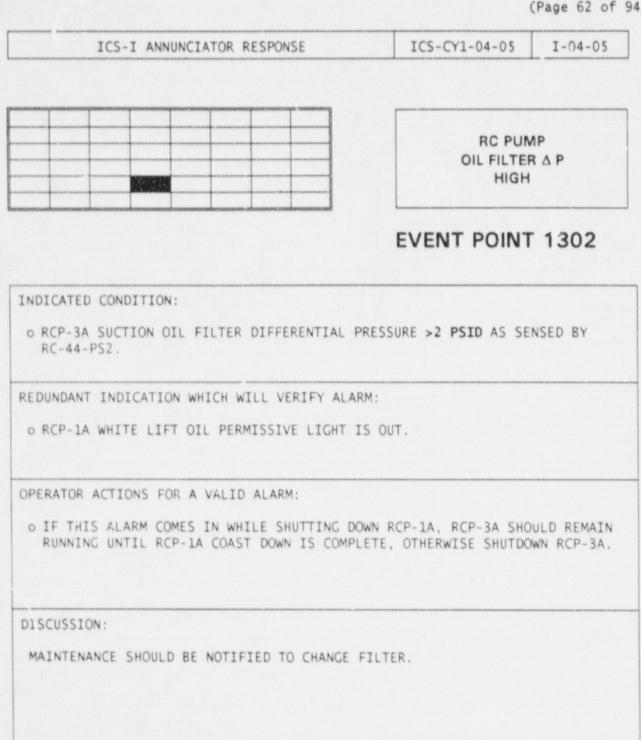
REFERENCES: DRAWING 208-047 SHEET RC-04

SENSING ELEMENT: SW-102-FS2

ENCLOSURE 1 (Page 61 of 94)

	(Page 61		
ICS-I ANNUNCIATCR RESPONSE	ICS-CY1-04-04	I-04-04	
	RC PUMP S UPPER ST TEMP HI	AGE	
	EVENT POINT	0787	
o RCP UPPER STAGE TEMPERATURE >150° F AS S RC-212-TS, RC-215-TS. REDUNDANT INDICATION WHICH WILL VERIFY ALA	RM:		
 RCP SEAL DATA RECORDERS, RC-19A-PR1, RC COMPUTER POINTS: RCP-1A, X-383 RCP-1B, X-386 RCP-1C 			
OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO OP-302 FOR ABNORMAL RCP SEAL T • CONTACT SITE NUCLEAR ENGINEERING. • MCNITOR RCP COMPUTER GROUP FOR INCREASI RCP-1A GRP. 78 RCP-1B GRP. 79 RCP	NG TRENDS:		
 REFER TO OP-302 FOR ABNORMAL RCP SEAL T CONTACT SITE NUCLEAR ENGINEERING. MCNITOR RCP COMPUTER GROUP FOR INCREASI 	NG TRENDS: -1C GRP. 80 RCP-1D TAGE TEMPERATURE IS HI EFFECTED RCP BY OBSER	GRP.81 GH. VING THE	
 REFER TO OP-302 FOR ABNORMAL RCP SEAL T CONTACT SITE NUCLEAR ENGINEERING. MCNITOR RCP COMPUTER GROUP FOR INCREASI RCP-1A GRP. 78 RCP-1B GRP. 79 RCP DISCUSSION: THIS ALARM COMES IN WHEN ANY RCP UPPER S' THE OPERATOR MUST DETERMINE WHICH IS THE UPPER STAGE COMPUTER POINTS LISTED OR TH 	NG TRENDS: -1C GRP. 80 RCP-1D TAGE TEMPERATURE IS HI EFFECTED RCP BY OBSER	GRP.81 GH. VING THE	

ENCLOSURE 1 (Page 62 of 94)



REFERENCES: DRAWING 208-047 SHEET RC-05

SENSING ELEMENT: RC-44-PS2

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ENCLOSURE 1 (Page 63 of 94)

I-04-0
P
RC PUMP OIL FILTER & P HIGH

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EVENT POINT 1314

INDICATED CONDITION:

o RCP-2B SUCTION OIL FILTER DIFFERENTIAL PRESSURE >2 PSID AS SENSED BY RC-67-PS1.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o RCP-1B WHITE LIFT OIL PERMISSIVE LIGHT IS OUT. o RCP-1B DC LIFT OIL PUMP, RCP-3B AUTO STARTS.

OPERATOR ACTIONS FOR A VALID ALARM:

o START RCP-3B. o SHUT DOWN RCP-2B.

DISCUSSION:

MAINTENANCE SHOULD BE NOTIFIED TO CHANGE FILTER.

REFERENCES: DRAWING 208-047 SHEET RC-06

SENSING ELEMENT: RC-67-PS1

ENCLOSURE 1 (Page 64 of 94)

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ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-04-05	I-04-0
	RC PUN	1P
	OIL FILTER & F HIGH	R Δ P

0

EVENT POINT 1315

INDICATED CONDITION:

o RCP-3B SUCTION OIL FILTER DIFFERENTIAL PRESSURE >2 PSID AS SENSED BY RC-67-PS2.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP-18 WHITE LIFT OIL PERMISSIVE LIGHT IS OUT.

OPERATOR ACTIONS FOR A VALID ALARM:

o START RCP-2B. o SHUT DOWN RCP-3B.

DISCUSSION:

MAINTENANCE SHOULD BE NOTIFIED TO CHANGE FILTER.

REFERENCES: DRAWING 208-047 SHEET RC-06

SENSING ELEMENT: RC-67-PS2

ENCLOSURE 1 (Page 65 of 94)

	RC PUMP OIL FILTER & P HIGH

o RCP-1C AC LIFT OIL PUMP, RCP-2C SUCTION OIL FILTER DIFFERENTIAL PRESSURE >2 PSID AS SENSED BY RC-90-PS1.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o RCP-1C WHITE LIFT OIL PERMISSIVE LIGHT IS OUT. o RCP-1C DC LIFT OIL PUMP, RCP-3C AUTO STARTS.

OPERATOR ACTIONS FOR A VALID ALARM:

o START RCP-3C. o SHUT DOWN RCP-2C.

DISCUSSION:

MAINTENANCE SHOULD BE NOTIFIED TO CHANGE FILTER.

REFERENCES: DRAWINC 208-047 SHEET RC-07

SENSING ELEMENT: RC-90-PS1

ENCLOSURE 1 (Page 66 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-04-05	I-04-
	and the second	
	DO DUN	
	RC PUN	
	OIL FILTER	RΔP
	HIGH	

EVENT POINT 1327

INDICATED CONDITION:

o RCP-1C DC LIFT OIL PUMP, RCP-3C SUCTION OIL FILTER DIFFERENTIAL PRESSURE >2 PSID AS SENSED BY RC-90-PS2.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP-1C WHITE LIFT OIL PERMISSIVE LIGHT IS OUT.

OPERATOR ACTIONS FOR A VALID ALARM:

o START RCP-2C. o SHUT DOWN RCP-3C.

DISCUSSION:

MAINTENANCE SHOULD BE NOTIFIED TO CHANGE FILTER.

REFERENCES: DRAWING 208-047 SHEET RC-07

SENSING ELEMENT: RC-90-PS2

ENCLOSURE 1 (Page 67 of 94)

ICS-I ANNUNCIATOR RESPONSE		ICS-CY1-04-05	I-04-0	
			RC PUN	
	elonand		OIL FILTER HIGH	

EVENT POINT 1338

INDICATED CONDITION:

3

O RCP-2D SUCTION OIL FILTER DIFFERENTIAL PRESSURE >2 PSID AS SENSED BY RC-113-PS1.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP-1D WHITE LIFT OIL PERMISSIVE LIGHT IS OUT. O RCP-1D DC LIFT OIL PUMP, RCP-3D AUTO STARTS.

OPERATOR ACTIONS FOR A VALID ALARM:

o START RCP-3D. o SHUT DOWN RCP-2D.

DISCUSSION:

MAINTENANCE SHOULD BE NOTIFIED TO CHANGE FILTER.

REFERENCES: DRAWING 208-047 SHEET RC-08

SENSING ELEMENT: RC-113-PS1

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ENCLOSURE 1 (Page 68 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-04-05	1-04-0
	RC PUN	1P
	OIL FILTER & P HIGH	RAP

EVE. T POINT 1339

INDICATED CONDITION:

o RCP-3D SUCTION OIL FILTER DIFFERENTIAL PRESSURE >2 PSID AS SENSED BY RC-113-PS2.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCP-10 WHITE LIFT OIL PERMISSIVE LIGHT IS OUT.

OPERATOR ACTIONS FOR A VALID ALARM:

o START RCP-2D. o SHUT DOWN RCP-3D.

DISCUSSION:

MAINTENANCE SHOULD BE NOTIFIED TO CHANGE FILTER.

REFERENCES: DRAWING 208-047 SHEET RC-08

SENSING ELEMENT: RC-113-PS2

ENCLOSURE 1 (Page 69 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-05-01	I-05-01
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PORV SAFETY VALVE OPEN

EVENT POINT 1957

INDICATED CONDITION:

o PRESSURIZER CODE SAFETY VALVE, RCV-8, ULTRASONIC INDICATION IS IN THE "VALVE OPEN" REGION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O RCS PRESSURE >2500 PSIG.
O RCS PRESSURE DECREASING.
O RC DRAIN TANK PRESSURE AND TEMPERATURE INCREASING.

OFERATOR ACTIONS FOR A VALID ALARM:

O LOWER RCS PRESSURE USING PORV OR SPRAY VALVE.

DISCUSSION:

THIS ALARM MUST BE RESET LOCALLY IN THE PORV POSITION INDICATION AND TSAT CABINET IN THE "B" ES 4160V. SWITCHGEAR ROOM.

REFERENCES: DRAWING 208-047 SHEET RC-027

SENSING ELEMENT: ALARM SWITCH 1

ENCLOSURE 1 (Page 70 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-05-01	I-05-01
	PORV SAFETY V OPEN	ALVE
	EVENT POINT	1958
INDICATED CONDITION:		
<pre>o PRESSURIZER CODE SAFETY VALVE, RCV-9, UI "VALVE OPEN" REGION.</pre>	LTRASONIC INDICATION I	IS IN THE
REDUNDANT INDICATION WHICH WILL VERIFY ALA	RM:	
<pre>o RCS PRESSURE >2500 PSIG. o RCS PRESSURE DECREASING. o RC DRAIN TANK PRESSURE AND TEMPERATURE</pre>	INCREASING.	
O RCS PRESSURE DECREASING.	INCREASING.	
o RCS PRESSURE DECREASING. o RC DRAIN TANK PRESSURE AND TEMPERATURE		
OPERATOR ACTIONS FOR A VALID ALARM:		
 ORCS PRESSURE DECREASING. ORC DRAIN TANK PRESSURE AND TEMPERATURE OPERATOR ACTIONS FOR A VALID ALARM: OLOWER RCS PRESSURE USING PORV OR SPRAY 	VALVE. POR POSITION INDICATI	ION AND TSA
 ORCS PRESSURE DECREASING. ORC DRAIN TANK PRESSURE AND TEMPERATURE OPERATOR ACTIONS FOR A VALID ALARM: O LOWER RCS PRESSURE USING PORV OR SPRAY DISCUSSION: THIS ALARM MUST BE RESET LOCALLY IN THE 	VALVE. POR POSITION INDICATI	ION AND TSA

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ENCLOSURE 1 (Page 71 of 94)

ICS-I	ANNUNCIATOR RESPONSE	ICS-CY1-05-01	I-05-01
102-1	ANNUNCIATUR RESPUNSE	103-011-03-01	1-05-01

	Market A	

PORV SAFETY VALVE OPEN

EVENT POINT 1959

INDICATED CONDITION:

o PRESSURIZER PILOT OPERATED RELIEF VALVE, RCV-10, ULTRASONIC INDICATION IS IN THE "VALVE OPEN" REGION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o RCS PRESSURE >2450 PSIG.
o RCS PRESSURE DECREASING.
o RC DRAIN TANK PRESSURE AND TEMPERATURE INCREASING.

OPERATOR ACTIONS FOR A VALID ALARM:

O LOWER RCS PRESSURE USING SPRAY VALVE.

DISCUSSION:

THIS ALARM MUST BE RESET LOCALLY IN THE PORV POSITION INDICATION AND TSAT CABINET IN THE "B" ES 4160V. SWITCHGEAR ROOM.

REFERENCES: DRAWING 208-047 SHEET RC-027

SENSING ELEMENT: ALARM SWITCH 3

ENCLOSURE 1 (Page 72 of 94)

102-1	ANNUNCIATOR RESPONSE	ICS-CY1-05-02	I-05-02
		·	
		PORV SELECTI CLOSE	ED
		EVENT POINT	1445
	TED RELIEF VALVE, RCV-10 CO		O "CLOSED."
REDUNDANT INDI	CATION WHICH WILL VERIFY AL	ARM:	
O POSITION OF	PORV SELECTOR SWITCH.		
	PORV SELECTOR SWITCH.		
OPERATOR ACTIO		SELECTED CLOSED.	

REFERENCES: DRAWING 208-047 SHEET RC-025 SENSING ELEMENT: CONTROL SWITCH CONTACTS

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ENCLOSURE 1 (Page 73 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-05-06	I-05-06
	LOOSE PA MONITOR	
	TROUB	LE
	EVENT POINT	1936
INDICATED CONDITION:		27.9-2-27
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ENCLOSURE 1 (Page 74 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-06-01	I-05-01
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	SOLENC	D
an manador an an anna an anna an anna an anna an an	EVENT POINT	1442
INDICATED CONDITION:		
O PILOT OPERATED RELIEF VALVE, RCV-10, SO	LENOID IS ENERGIZED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALA	IKM :	
<pre>o RCS PRESSURE >2450 PSIG. o PORV SWITCH RED INDICATING LIGHT IS ON. o ULTRASONIC FLOW INDICATION FOR PORV IN</pre>		."
 PORV SWITCH RED INDICATING LIGHT IS ON. O ULTRASONIC FLOW INDICATION FOR PORV IN 		."
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 O PORV SWITCH RED INDICATING LIGHT IS ON. O ULTRASONIC FLOW INDICATION FOR PORV IN OPERATOR ACTIONS FOR A VALID ALARM: O IF PORV IS NOT REQUIRED TO BE OPEN THEN - IF RC PRESSURE IS FAST DECREASING IN OR NOT FULL CLOSED, THEN CLOSE PORV DISCUSSION: THIS ALARM INDICATES ONLY THAT THE PORV I IS NOT ACTUAL PORV POSITION INDICATION. 	THE "VALVE OPEN REGION SELECT PORV TO "CLOSE DICATING THE PORV IS L BLOCK VALVE RCV-11. OPEN SOLENOID IS EN" "G ULTRASONIC FLOW INDICA" T <2380 PSIG WHEN SELE	D" EAKING BY IZED. THIS TION SHOULD CTED TO HIG
 OPORV SWITCH RED INDICATING LIGHT IS ON. OULTRASONIC FLOW INDICATION FOR PORV IN OPERATOR ACTIONS FOR A VALID ALARM: OIF PORV IS NOT REQUIRED TO BE OPEN THEN - IF RC PRESSURE IS FAST DECREASING IN OR NOT FULL CLOSED, THEN CLOSE PORV DISCUSSION: THIS ALARM INDICATES ONLY THAT THE PORV OF IS NOT ACTUAL PORV POSITION INDICATION. BE USED TO VERIFY THE PORV OPEN. PORV WILL OPEN AT >2450 PSIG AND CLOSE A 	THE "VALVE OPEN REGION SELECT PORV TO "CLOSE DICATING THE PORV IS L BLOCK VALVE RCV-11. OPEN SOLENOID IS EN" "G ULTRASONIC FLOW INDICA" T <2380 PSIG WHEN SELE	D" EAKING BY IZED. THIS TION SHOULD CTED TO HIG

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ENCLOSURE 1 (Page 75 of 94)

	EVENT POINT 1360
	CLOSED
 	BLOCK VALVE
	PORV

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O GREEN INDICATING LIGHT IS ON FOR RCV-11.

OPERATOR ACTIONS FOR A VALID ALARM:

O ASSESS REQUIREMENTS FOR PORV BLOCK VALVE, RCV-11 BEING CLOSED.

DISCUSSION:

ADDRESS TS AND LTOP REQUIREMENTS CONCERNING THIS CONDITION.

REFERENCES: DRAWING 208-047 SHEET RC-013 SENSING ELEMENT: 33C VALVE CLOSED CONTACT

ENCLOSURE 1 (Page 76 of 94)

ICS-I ANNUNCIATOR RESPONSE ICS-CY1-07-01	I-07-01	
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PRESSURIZER LEVEL HIGH

EVENT POINT 1371

INDICATED CONDITION:

O PRESSURIZER LEVEL >275" AS SENSED BY RC-1-LS1.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o PRESSURIZER LEVEL RECORDERS. o COMPUTER POINT R-201.

OPERATOR ACTIONS FOR A VALID ALARM:

o MANUALLY CONTROL RCS MAKEUP AND LETDOWN TO REGAIN PRESSURIZER LEVEL. o REFER TO ITS 3.4.8

O CONTACT SYSTEM ENGINEER TO DETERMINE IF DESIGN BASIS HAS BEEN EXCEEDED.

DISCUSSION:

HIGH PRESSURIZER LEVELS INDICATE EITHER PROBLEMS WITH MAKEUP/LETDOWN OR A RCS HEATUP HAS OCCURRED. REFER TO OP-402 CONCERNING LIMITS ON LETDOWN FLOW. DUE TO INSTRUMENT INACCURACIES, ENGINEERING MUST DETERMINE IF DESIGN BASIS HAS BEEN EXCEEDED.

REFERENCES: DRAWING 208-047 SHEET RC-027

SENSING ELEMENT: RC-1-LS1

ENCLOSURE 1 (Page 77 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-07-01	I-07-01
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PRESSURIZER
LEVEL
HIGH

EVENT POINT 1372

INDICATED CONDITION:

o PRESSURIZER LEVEL >240" AS SENSED BY RC-1-LS2.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

PRESSURIZER LEVEL RECORDERS.
 COMPUTER POINT R-201.

OPERATOR ACTIONS FOR A VALID ALARM:

o MANUALLY CONTROL RCS MAKEUP AND LETDOWN TO REGAIN PRESSURIZER LEVEL. o IF PRESSURIZER LEVEL REACHES 256", REFER TO ITS 3.4.8.

DISCUSSION:

HIGH PRESSURIZER LEVELS INDICATE EITHER PROBLEMS WITH MAKEUP/LETDOWN OR A RCS HEATUP HAS OCCURRED. REFER TO OP-402 CONCERNING LIMITS ON LETDOWN FLOW.

REFERENCES: DRAWING 208-047 SHEET RC-027

SENSING ELEMENT: RC-1-LS2

ENCLOSURE 1 (Page 78 of 94)

ICS-I	ANNUNCIATOR	RESPONSE	ICS-CY1-07-02	I-07-02	

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PRESSURIZER HEATER SCR FAILURE

EVENT POINT 1303

INDICATED CONDITION:

O RC PRESSURIZER HEATER SCR FAILURE.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o RED INDICATING LIGHT ON PRESSURIZER HEATER CONTROL CABINET. o RCS PRESSURE ABNORMAL.

OPERATOR ACTIONS FOR A VALID ALARM:

ATTEMPT TO RESET SCR FAILURE BY OPENING THEN RECLOSING FEEDER BREAKER TO HEATER GROUP WITH THE SCR FAILURE.
MANUALLY CONTROL RCS PRESSURE AS REQUIRED.
NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS A'ARM INDICATES A DIFFERENTIAL VOLTAGE EXISTS OR HAS EXISTED BETWEEN TWO LEGS OF THE SCR CONTROL CIRCUIT FOR THE PRESSURIZER HEATERS. THIS DOES NOT NECESSARILY MEAN THAT CONTROL HAS BEEN LOST TO THOSE HEATERS. THIS ALARM SEALS IN AND CANNOT BE CLEARED UNTIL THE CONTROL CIRCUIT IS DE-ENERGIZED.

REFERENCES: DRAWING 208-047 SHEET RC-019

SENSING ELEMENT: SCR DIFFERENTIAL VOLTAGE RELAYS

ENCLOSURE 1 (Page 79 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-07-05	I-07-05
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RCS PRESS HIGH TEMP LOW

EVENY POINT 1935

INDICATED CONDITION:

o REACTOR COOLANT PRESSURE IS >392.6 PSIG AS SENSED BY RC-3A-PS4 AND THE PORV, RCV-10, IS SELECTED TO LOW RANGE.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

o PORV, RCV-10, IS OPEN. o wide range RCS pressure indication.

OPERATOR ACTIONS FOR A VALID ALARM:

o REDUCE RCS PRESSURE BY INCREASING LETDOWN OR USE OF PRESSURIZER SPRAY VALVE.

DISCUSSION:

THIS ALARM INDICATES THAT RCS LOW TEMP AND PRESS RECORDER, RC-154-PR/TR HAS SHIFTED TO FAST SPEED.

REFERENCES: DRAWING 208-047 SHEET RC-027

SENSING ELEMENT: 86/RC3A-PS4

ENCLOSURE 1 (Page 80 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-01	I-08-01
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PRESSURIZER
LEVEL
LOW

EVENT POINT 1373

INDICATED CONDITION:

O PRESSURIZER LEVEL IS <200" AS SENSED BY RC-1-LY4.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O PRESSURIZER LEVEL INDICATION.

OPERATOR ACTIONS FOR A VALID ALARM:

VERIFY PROPER OPERATION OF PRESSURIZER LEVEL CONTROL VALVE, MUV-31.
 INCREASE PRESSURIZER LEVEL BY MANUALLY CONTROLLING MAKEUP/LETDOWN.
 TERMINATE PLANT COOLDOWN AS REQUIRED.

DISCUSSION:

REFERENCES: DRAWING 208-047 SHEET RC-027

SENSING ELEMENT: RC-1-LY4

ENCLOSURE 1 (Page 81 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-01	I-08-01
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PRESSURIZER LEVEL LOW

EVENT POINT 1374

INDICATED CONDITION:	
O PRESSURIZER LEVEL	IS <40" AS SENSED BY RC-1-LS1/RC-1-LS3.
REDUNDANT INDICATION	WHICH WILL VERIFY ALARM:
	INDICATION. IGHTS FOR PRESSURIZER HEATERS ARE OFF. R BAILEY CONTROL STATION SHIFTS TO MANUAL.
	RATION OF PRESSURIZER LEVEL CONTROL VALVE, MUV-31. MER LEVEL TO >57" BY MANUALLY CONTROLLING
DISCUSSION:	
A LOW-LOW LEVEL IN	THE PRESSURIZER WILL DE-ENERGIZE PRESSURIZER HEATERS.
HEATER GROUPS 7 THRE SPECIFIC GROUPS ASSO	U 13 ARE AFFECTED, REFER TO THE 208-47 DRAWINGS FOR OCIATED WITH EACH SWITCH RELAY.
REFERENCES: DRAWING	208-047 SHEET RC-027
SENSING ELEMENT: RC-	1-LS1, RC-1-LS3

ENCLOSURE 1 (Page 82 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02
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PRESSURIZER HEATER GROUP TROUBLE

EVENT POINT 1344

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 1 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-018

SENSING ELEMENT: BKR. 4A ALARM SWITCH

ENCLOSURE 1 (Page 83 of 94)

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PRESSURIZER
HEATER GROUP
TROUBLE

EVENT POINT 1348

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 2 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OF IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-018

SENSING ELEMENT: BKR.2A ALARM SWITCH

ENCLOSURE 1 (Page 84 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02
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HEATER	GROUP
TROU	JBLE

EVENT POINT 1352

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 3 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RC PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-018

SENSING ELEMENT: BKR.4B ALARM SWITCH

ENCLOSURE 1 (Page 85 of 94)

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EVENT POINT 1356

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 4 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER CROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-018

SENSING ELEMENT: BKR.4C ALARM SWITCH

ENCLOSURE 1 (Page 86 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02
	PRESSURIZER	
	HEATER GI	

EVENT POINT 1359

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 5 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

© STABILIZE RCS PRESSURE. © MONITOR PRESSURIZER OPERATION. © NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-018

SENSING ELEMENT: BKR. 3A ALARM SWITCH

ENCLOSURE 1 (Page 87 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-0
	PRESSURI	ZER
	PRESSURIZER HEATER GROU TROUBLE	

EVENT POINT 1387

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 6 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-018

SENSING ELEMENT: BKR. 4A ALARM SWITCH

ENCLOSURE 1 (Page 88 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02	
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PRESS	URIZER
HEATER	GROUP
TRO	UBLE

EVENT POINT 1388

INLICATED CONDITION:

O PRESSURIZER HEATER GROUP 7 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-020

SENSING ELEMENT: BKR. 1C ALARM SWITCH

ENCLOSURE 1 (Page 89 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02
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PRESSURIZER HEATER GROUP TROUBLE

EVENT POINT 1389

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 8 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-020

SENSING ELEMENT: BKR. 2C ALARM SWITCH

ENCLOSURE 1 (Page 90 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02	
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EVENT POINT 1390

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 9 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.

O NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-020

SENSING ELEMENT: BKR. 3C ALARM SWITCH

ENCLOSURE 1 (Page 91 of 94)

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HEATER	GROUP
TROU	JBLE

EVENT POINT 1391

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 10 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-020

SENSING ELEMENT: BKR. 1D ALARM SWITCH

ENCLOSURE 1 (Page 92 of 94)

	ICS-I	ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02
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PRESSI	URIZER
HEATER	GROUP
TROI	JBLE

EVENT POINT 1392

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 11 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-020

SENSING ELEMENT: BKR. 2C ALARM SWITCH

ENCLOSURE 1 (Page 93 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02	

PRESS	URIZER
HEATER	GROUP
TRO	UBLE

EVENT POINT 1393

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 12 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURR_NT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-020

SENSING ELEMENT: BKR. 3C ALARM SWITCH

ENCLOSURE 1 (Page 94 of 94)

ICS-I ANNUNCIATOR RESPONSE	ICS-CY1-08-02	I-08-02
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HEAT	ER	GROUP
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EVENT POINT 1394

INDICATED CONDITION:

O PRESSURIZER HEATER GROUP 13 BREAKER OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FEEDER BREAKER FOR THE HEATER GROUP TRIPS OR IS OPENED.

OPERATOR ACTIONS FOR A VALID ALARM:

STABILIZE RCS PRESSURE.
 MONITOR PRESSURIZER OPERATION.
 NOTIFY ELECTRIC SHOP.

DISCUSSION:

THIS ALARM INDICATES THE PRESSURIZER HEATER GROUP BREAKER IS OPEN. THIS CONDITION COULD BE CAUSED BY MANUAL OPENING OF THE BREAKER OR A FAULT CONDITION (OVERCURRENT OR CURRENT IMBALANCE).

REFERENCES: DRAWING 208-047 SHEET RC-020

SENSING ELEMENT: BKR. 4C ALARM SWITCH