

HOPE CREEK GENERATING STATION

HC.OP-AR.ZZ-0006(Q) - Rev. 25

OVERHEAD ANNUNCIATOR WINDOW BOX B1

USE CATEGORY: II

- Packages and Affected Document Numbers incorporated into this revision:
CP No. _____ CP Rev. _____ AD No. _____ Rev No. _____ None ✓
 - The following OPEX were incorporated into this revision: None
 - The following OTSCs were incorporated into this revision: None
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REVISION SUMMARY

- Adds Operator Action 1. to Attachment D3 to transfer HPCI suction to the Torus.
(20433235)

IMPLEMENTATION REQUIREMENTS

Effective Date 10/2/09

None

OVERHEAD ANNUNCIATOR WINDOW BOX B1

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ATTACHMENT A1

RCIC
TURBINE
TRIP

Window Location B1-A1**OPERATOR ACTION:**

OBSERVE limiting conditions for operation of RCIC System in accordance with Technical Specifications 3.7.4.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D2400	RCIC TURBINE TRIP	<ol style="list-style-type: none"> <u>IF</u> the trip is due to Channel B Auto-isolation; HV-F008 RCIC STM OUTBD ISLN VLV closes. <u>IF</u> the trip is due to Channel D Auto-isolation; HV-F007 RCIC STM INBD ISLN VLV closes. <u>AND</u> HV-F076 RCIC WARMUP ISLN closes

REFERENCES: J-50-0, Sht. 10

ATTACHMENT A2

RCIC STEAM

LINE DIFF

PRESSURE HI

Window Location B1-A2**OPERATOR ACTION:**

1. **RESPOND** in accordance with HC.OP-AR.ZZ-0006(Q), Attachment A1.
2. **OBSERVE** limiting conditions for operation of RCIC System in accordance with Technical Specifications 3.7.4, 3.3.2.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D4284	RCIC STEAM LINE B DIFF PRESS	HV-F008 closes <u>AND</u> RCIC Turbine trips
D4286	RCIC STEAM LINE D DIFF PRESS	HV-F007 <u>AND</u> HV-F076 close, RCIC Turbine trips

REFERENCES: J-49-0, Sht. 15

ATTACHMENT A3

<p style="text-align: center;">HPCI</p> <p style="text-align: center;">PUMP ROOM</p> <p style="text-align: center;">FLOODED</p>
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Window Location B1-A3**OPERATOR ACTION:**

1. **DISPATCH** an Equipment Operator to the applicable HPCI Room to investigate AND confirm floor level alarm.
2. IF water level is > 1" above the floor,
ENTER HC.OP-EO.ZZ-0103/4(Q); Reactor Building and Radioactive Release Control.
3. **ENSURE** compliance with the operability requirements of Technical Specifications 3.5.1.
4. **MONITOR** Reactor Building Sumps
AND **NOTIFY** Radwaste of increased inputs.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D2889	HPCI PMP ROOM 4111 LSH-4807	Alarm only
D2890	HPCI PMP ROOM 4111 LSH-4808	Alarm only

REFERENCES: J-55-0, Sht. 12
J-25-0, Sht. 5

ATTACHMENT A4

Window Location B1-A4

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D5739		<p>In addition, the following valves will close if tripped under auto-isolation</p> <ol style="list-style-type: none">2. HV-F003 HPCI STM OUTBD ISLN VLV3. HV-F100 WARMUP VLV4. HV-F042 HPCI PMP SUCT FROM SUPP CH B

ATTACHMENT A5

HPCI STEAM

LINE DIFF

PRESSURE HI

Window Location B1-A5**OPERATOR ACTION:**

OBSERVE limiting conditions for operation of Emergency Core Cooling Systems in accordance with Technical Specifications 3/4.5.1, 3.3.2.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3340	HPCI CHANNEL A STEAM LINE DP	HPCI Turbine trips HV-F003 OUTBD STM SUPPLY VLV & HV-F042 TORUS SUCT VLV close
D3349	HPCI CHANNEL C STEAM LINE DP	HPCI Turbine trips HV-F002 INBD STM SUPPLY VLV & HV-F100 WARMUP VLV close

REFERENCES: J-55-0, Sht. 12

ATTACHMENT B1

RCIC TURB

EXH DIAPH

RUPTURED

Window Location B1-B1**OPERATOR ACTION:****ENSURE** compliance with the operability requirements of Technical Specifications 3.7.4, 3.3.2.**INPUTS**

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D4282	RCIC TURB EXH DIAPH B/F RUPTD	<u>I</u> F signal is from BOTH the B and F sensors, turbine trips; otherwise alarm only
D4287	RCIC TURB EXH DIAPH D/H RUPTD	<u>I</u> F signal is from BOTH the D and H sensors, turbine trips; otherwise alarm only

REFERENCES: J-50-0, Sht. 10

ATTACHMENT B2

<p>RCIC</p> <p>OUT OF</p> <p>SERVICE</p>
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Window Location B1-B2

OPERATOR ACTION:

OBSERVE the limiting conditions for operation of RCIC System in accordance with Technical Specifications 3.7.4.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D5339	RCIC OUT OF SERVICE	Alarm only

REFERENCES: J-49-0, Sht. 15

ATTACHMENT B3

**RCIC
PUMP ROOM
FLOODED**

Window Location B1-B3

OPERATOR ACTION:

1. **DISPATCH** an Equipment Operator to the applicable RCIC Room to investigate
AND confirm floor level alarm.
2. IF water level is > 1" above the floor,
ENTER HC.OP-EO.ZZ-0103/4(Q); Reactor Building and Radioactive Release Control.
3. **ENSURE** compliance with the operability requirements of Technical Specifications 3.7.4.
4. **MONITOR** Reactor Building Sumps
AND **NOTIFY** Radwaste of increased inputs.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D2887 LSH-4151-1	RCIC PMP ROOM 4110	Alarm only
D2888	RCIC PMP ROOM 4110 LSH-4151-2	Alarm only

REFERENCES: J-49-0, Sht. 15
M-25-1, Sht. 1

J-25-0, Sht. 5
M-50-1

ATTACHMENT B4

HPCI TURB

EXH DIAPH

RUPTURED

Window Location B1-B4**OPERATOR ACTION:**

1. IF__ turbine has tripped,
RESPOND in accordance with HC.OP-AR.ZZ-0006(Q), Attachment A4
2. **OBSERVE** the operability limitations of Emergency Core Cooling Systems in accordance with Technical Specifications 3.5.1, 3.3.2.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3486	HPCI TURB EXH DIAPH A/E RUPTD	IF signal is from BOTH the A and E sensors, turbine trips; otherwise alarm only
D3487	HPCI TURB EXH DIAPH C/G RUPTD	IF signal is from BOTH the C and G sensors, turbine trips; otherwise alarm only

REFERENCES: J-56-0, Sht. 10

ATTACHMENT B5

<p>HPCI</p> <p>OUT OF</p> <p>SERVICE</p>
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Window Location B1-B5

OPERATOR ACTION:

OBSERVE limiting conditions for operation of Emergency Core Cooling System in accordance with Technical Specifications 3.5.1.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3431	HPCI OUT OF SERVICE	Alarm only

REFERENCES: J-55-0, Sht. 12

ATTACHMENT C1

RCIC
TURBINE
TROUBLE

Window Location B1-C1

OPERATOR ACTION:

OBSERVE limiting conditions for operation of RCIC System in accordance with Technical Specifications 3.7.4.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3541	RCIC TURB ST SPLY DRN TRAP LVL	Alarm only
D3547	RCIC TURB BEARING OIL PRESSURE	Alarm only
D3552	RCIC TURB EXHAUST PRESS B/F	RCIC Turbine trips <u>AND</u> TURB TRIP SOLENOID ENRGZ light illuminates. [10C650B]
D3553	RCIC TURB OUTBD BRG OIL TEMP	Alarm only
D3554	RCIC TURB INBOARD BRG OIL TEMP	Alarm only
D3555	RCIC VACUUM TANK LEVEL	Alarm only
D3556	RCIC TURB OIL FLTR DIFF PRESS	Alarm only
D3557	RCIC VACUUM TANK LEVEL	Alarm only
D4283	RCIC STEAM SUPPLY PRESS B/F	RCIC Div 2 isolation <u>AND</u> Turbine trip
D4288	RCIC STEAM SUPPLY PRESS D/H	RCIC Div 4 isolation <u>AND</u> Turbine trip
D5455	RCIC VACUUM TANK VACUUM	Alarm only

REFERENCES: J-50-0, Sht. 9
J-49-0, Sht. 15

ATTACHMENT C2

<p>RCIC PUMP</p> <p>SUCTION</p> <p>PRESS HI/LO</p>
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Window Location B1-C2

OPERATOR ACTION:

DETERMINE cause of alarm from the following digital points
AND RESPOND in accordance with applicable sheet of this attachment.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3550	RCIC PMP SUCTION PRESS HI	Alarm only
D3551	RCIC PMP SUCTION PRESS LOW	RCIC Jockey Pmp BP228 trips RCIC Turbine trips

REFERENCES: J-50-0, Sht. 9; Sht. 2

ATTACHMENT C3

SUPPRESSION

POOL

LEVEL HI/LO

Window Location B1-C3**OPERATOR ACTION:**

OBSERVE limiting conditions for operation of Suppression Chamber in accordance with Technical Specifications 3.5.3.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3342	SUPPRESSION POOL LEVEL HI-HI	HPCI Pump suction auto-transfers from CST (HV-F004) to Torus (HV-F042)
D5471	SUPPRESSION POOL LEVEL	Alarm only
D5923	SUPPRESSION POOL LEVEL HI	Alarm only
D5924	SUPPRESSION POOL LEVEL LOW	Alarm only

REFERENCES: J-55-0, Sht. 12

ATTACHMENT C4

HPCI
TURBINE
TROUBLE

Window Location B1-C4

OPERATOR ACTION:

1. **DETERMINE** cause of alarm from the following digital points.
2. **RESPOND** to the alarm in accordance with applicable sheet of this attachment.
3. **OBSERVE** limiting conditions for operation of Emergency Core Cooling System in accordance with Technical Specifications 3/4.5.1

INPUTS

Digital Point/ Indication	Nomenclature/Condition	Action
D3343	HPCI TURBINE EXHAUST PRESS	HPCI Turbine trips
D5430	HPCI VACUUM TANK LEVEL	Condensate Pump 0P215 starts F025 Drn Vlv opens
D5432	HPCI TURBINE OIL TANK LVL	Alarm only
D5433	HPCI TURBINE OIL FILTER DP	Alarm only
D5434	HPCI TURB OIL CLR DISCH TEMP	Alarm only
D5435	HPCI BRG OIL LO PR/HVF001 OPN	Alarm only
D5436	HPCI VACTK LOW VAC/HVF001 OPEN	Alarm only
D5431	HPCI TURB STM SUPPLY DRN TRAP LVL HI	Alarm only

REFERENCES: J-56-0, Sht. 9

ATTACHMENT C5

HPCI PUMP
SUCTION
PRESS HI/LO

Window Location B1-C5

OPERATOR ACTION:

1. **DETERMINE** cause of alarm from the following digital points.
2. **RESPOND** to the alarm in accordance with applicable sheet of this attachment.
3. **OBSERVE** limiting conditions for operation of Emergency Core Cooling System in accordance with Standard Technical Specifications 3/4.5.1.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3344	HPCI PUMP SUCTION PRESSURE LOW	a. ECCS Jockey Pump AP228 trips (after a 2.5 sec time delay) b. HPCI Turbine trips (after a 2.5 sec time delay)
D3346	HPCI PUMP SUCTION PRESSURE HIGH	Alarm only

REFERENCES: J-56-0, Sht. 9
N1-E41-1040-62(7)-17
N1-E41-1040-62(5)-20

ATTACHMENT D1

RCIC

INJ HEADER

PRESSURE LO

Window Location B1-D1

OPERATOR ACTION:

ENSURE compliance with RCIC operability requirements of Technical Specifications 3.7.4.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3548 Alarm	RCIC INJECTION HEADER PRESS LO	only

REFERENCES: J-49-0, Sht. 15

ATTACHMENT D2

<p style="text-align: center;">RCIC</p> <p style="text-align: center;">ABNORMAL</p> <p style="text-align: center;">VLV/SW POSN</p>

Window Location B1-D2**OPERATOR ACTION:**

OBSERVE limiting conditions for operation of RCIC System in accordance with Technical Specifications 3.7.1.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3558	RCIC MNL INITIATION SW ARMED	Alarm only
D3559	RCIC VACUUM BREAKER VLV F062	Alarm only
D3560	RCIC VACUUM PMP DISCH VLV F060	Alarm only
D3561	RCIC CH B ISLN RESET REQUIRED	Alarm only
D4277	RCIC CH D ISLN RESET REQUIRED	Alarm only
D4278	RCIC WARM-UP ISOLATION V F076	Alarm only
D4279	RCIC VACUUM BRK ISLN VLV F084	Alarm only

REFERENCES: J-49-0, Sht. 15
J-50-0, Sht. 10

ATTACHMENT D3

CONDENSATE

STOR TANK

LEVEL LO

Window Location B1-D3

OPERATOR ACTION:

1. **ENSURE** HPCI suction is transferred to the Torus as follows:
 - a. **ENSURE** F042, PMP SUCT FROM SUPP CHB is OPEN.
 - b. **ENSURE** F004, PMP SUCT FROM CST is CLOSED.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D2568	RCIC CNDS STORAGE TANK LEVEL LO LVL	HV-F031 RCIC PMP SUCT FROM TORUS VLV opens HV-F010 RCIC PMP SUCT FROM CST VLV closes
D3341	HPCI CNDS STORAGE TANK L0 LVL	HV-F042 HPCI PUMP SUCT FROM TORUS VLV opens. HV-F004 HPCI PUMP SUCT FROM CST VLV closes.

REFERENCES: J-49-0, Sht. 15
J-55-0, Sht. 12

ATTACHMENT D4

HPCI
INJ HEADER
PRESSURE LO

Window Location B1-D4

OPERATOR ACTION:

OBSERVE limiting conditions for operations of Emergency Core Cooling Systems in accordance with Technical Specifications 3.5.1.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3392	HPCI INJ HEADER LOW PRESS	Alarm only

REFERENCES: J-55-0, Sht. 11

ATTACHMENT D5

<p style="text-align: center;">HPCI</p> <p style="text-align: center;">ABNORMAL</p> <p style="text-align: center;">VLV/SW POSN</p>

Window Location B1-D5**OPERATOR ACTION:**

1. **DETERMINE** the cause of alarm from the following digital points.
2. **RESPOND** to the alarm in accordance with applicable sheet of this attachment.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3358	HPCI WARMUP LINE ISLN V HV-F100	Alarm only
D3359	HPCI VACUUM BREAKER V HV-F079	Alarm only
D3699	HPCI VAC BRKR ISLN HV-F075	Alarm only
D5442	HPCI CHAN C ISLN RESET REQD	Alarm only
D5443	HPCI CHAN A ISLN RESET REQD	Alarm only
D5470	HPCI MNL INLT SW ARMED	Alarm only

REFERENCES: J-55-0, Sht. 11
J-56-0, Sht. 10

ATTACHMENT E2

RCIC PUMP
DISCHARGE
FLOW LO

Window Location B1-E2

OPERATOR ACTION:

1. IF__ RCIC Pump is NOT injecting water into Reactor or CST,
CHECK SI-4280 TURBINE SPEED,
IF SI-4280 indication \leq 2150 rpm.
TRIP Turbine.
2. IF__ RCIC Pump is injecting water into Reactor or CST,
RAISE Turbine Speed to $>$ 2150 rpm in accordance with HC.OP-SO.BD-0001(Q).

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3546	RCIC PUMP DISCHARGE FLOW	<u>IF</u> pump discharge pressure $>$ 125 psig, SV-F019/SV-4405 RCIC MIN FLOW VLVS open.

REFERENCES: J-49-0, Sht. 15; Sht. 20

ATTACHMENT E3

HPCI
ISOLATOR
CARD TRBL

Window Location B1-E3

OPERATOR ACTION:

OBSERVE limiting conditions for operation of Emergency Core Cooling Systems in accordance with Technical Specifications 3.5.1.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3448	HPCI CHAN A ISOL OUT CD OOF	Alarm only
D3450	HPCI CHAN A PWR LOSS/CD OUT	Alarm only
D3488	HPCI CHAN C ISOL/OUT CARD OUT	Alarm only
D3489	HPCI CHAN C PWR LOSS/CARD OUT	Alarm only

REFERENCES: J-55-0, Sht. 11
N1-E41-1040-62(13)-14

ATTACHMENT E5

HPCI PUMP
DISCHARGE
FLOW LO

Window Location B1-E5

OPERATOR ACTION:

IF HPCI is being operated for emergency purposes,
IF auto action has not occurred
AND if HV-F006 PMP DSCH OUTBD VLV is closed,
OPEN the valve manually.

IF HPCI is operating for non emergency purpose
AND IF turbine speed is < 2150 rpm,
TRIP HPCI Turbine.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D5539	HPCI DSCH LOW FLOW/HVF001 OPEN	<u>IF</u> pump discharge pressure > 125 psig, HV-F012 MIN FLOW BYP VLV opens.

REFERENCES: J-55-0, Sht. 12
J-56-0, Sht. 9

ATTACHMENT F1

RCIC COMPONENT O/PF
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Window Location B1-F1 **OPERATOR ACTION:**

1. **DETERMINE** cause of alarm from the following digital points.
2. **RESPOND** to the alarm in accordance with the appropriate section of this procedure.
3. **OBSERVE** Reactor Core Isolation Cooling System operability requirements of Technical Specifications 3.7.4.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3562	RCIC STM INBD ISLN HV-F007 OPF	Alarm only
D3563	RCIC VAC BRKR ISLN HV-F084 OPF	Alarm only
D3564	RCIC ISLN WARMUP V HV-F076 OPF	Alarm only
D3565	RCIC ST OUTBD ISLN HV-F008 OPF	Alarm only
D3566	RCIC STM ISLN VLV HV-F059 OPF	Alarm only
D3567	RCIC VAC PMP DISCH HV-F060 OPF	Alarm only
D3568	RCIC PMP CST SUCT HV-F010 OPF	Alarm only
D3569	RCIC PMP DISCH HV-F012 OPF	Alarm only
D3570	RCIC FW ISLN VALVE HV-F013 OPF	Alarm only
D3572	RCIC MN STM SUPPLY HV-F045 OPF	Alarm only
D3573	RCIC LUBOIL CLGTR HV-F046 OPF	Alarm only

REFERENCES: J-49-0, Sht. 13; Sht. 16
J-49-0, Sht. 20

ATTACHMENT F1

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3574	RCIC PMP SUCTION V HV-F031 OPF	Alarm only
D3575	RCIC TEST BYPASS V HV-F022 OPF	Alarm only
D3576	RCIC VAC BRKR ISLN HV-F062 OPF	Alarm only
D3579	RCIC GS COND VAC PMP OPF	Alarm only
D3580	RCIC VAC TK COND VAC PMP OPF	Alarm only
D3581	RCIC TURB TRIP/THROT VALVE OPF	Alarm only
D3584	ECCS JOCKEY PUMP BP228 OPF	Alarm only

ATTACHMENT F2

<p>RCIC</p> <p>ISOLATOR</p> <p>CARD TRBL</p>
--

Window Location B1-F2

OPERATOR ACTION:

OBSERVE limiting conditions for operation of RCIC System in accordance with Technical Specifications 3.7.4.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D4276	RCIC ISOLATION POWER LOSS	Alarm only
D4280	RCIC ISOLATION POWER LOSS	Alarm only

REFERENCES: J-49-0, Sht. 13

ATTACHMENT F3

HPCI
COMPONENT
O/PF

Window Location **B1-F3**

OPERATOR ACTION:

1. **DETERMINE** cause of alarm from the following digital points.
2. **RESPOND** to the alarm in accordance with applicable sheet of this attachment.
3. **OBSERVE** limiting conditions for operation of Emergency Core Cooling Systems in accordance with Standard Technical Specifications 3.5.1.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3490	HPCI SUPPR POOL ISV HV-4803 OPF	Alarm only
D3491	HPCI SUPPR POOL ISV HV-4804 OPF	Alarm only
D3492	HPCI VAC BRKR ISV HV-F075 OPF	Alarm only
D3505	HPCI TURB ST SPLY HV-F001 OPF	Alarm only
D3506	HPCI PUMP SUCTION HV-F004 OPF	Alarm only
D3507	HPCI PMP DISCHARGE HV-F006 OPF	Alarm only
D3508	HPCI PMP DISCHARGE HV-F007 OPF	Alarm only
D3509	HPCI CNDS TK SOV HV-F011 OPF	Alarm only
D3510	HPCI MIN FLOW BYP HV-F012 OPF	Alarm only
D3511	HPCI PMP SUCTION HV-F042 OPF	Alarm only
Continued Next Page		

ATTACHMENT F3

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3512	HPCI LUBE OIL CW HV-F059 OPF	Alarm only
D3513	HPCI ST LINE ISLN HV-F003 OPF	Alarm only
D3514	HPCI TURB EXHAUST HV-F071 OPF	Alarm only
D3530	TEST BYP TO CNDS HV-F008 OPF	Alarm only
D3531	HPCI VAC TK CNDS PMP 0P215 OPF	Alarm only
D3532	HPCI GS COND VAC PMP 0P216 OPF	Alarm only
D3533	HPCI TRB AUX OIL PMP 0P213 OPF	Alarm only
D3534	HPCI JOCKEY PMP OPF	Alarm only
D3535	VAC PMP DISCH/COND HV-4922 OPF	Alarm only
D3536	HPCI SUPPR POOL ISLN HV-4865 OPF	Alarm only
D3537	HPCI SUPPR POOL ISLN HV-4866 OPF	Alarm only
D3538	HPCI VAC BRKR ISLN HV-F079 OPF	Alarm only
D3539	HPCI STM SPLY LINE HV-F002 OPF	Alarm only
D3540	HPCI WARMUP LINE HV-F100 OPF	Alarm only
D4870	HPCI DISCH TO FDW HV-8278 OPF	Alarm only

REFERENCES: J-55-0; Sht. 14

ATTACHMENT F5

FEEDWATER

2/3 LOGIC

SENSOR FAIL

Window Location B1-F5**OPERATOR ACTION:**

DETERMINE the analog or digital point in alarm
AND NOTIFY SM/CRS.

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3644	A/B/C RFP DISCH PRESS SENSOR FAILURE	Alarm only
D3645	A CONTROL OIL PRESS SENSOR FAILURE	Alarm only
D3646	A LUBE OIL PRESS SENSOR FAILURE	Alarm only
D3647	A EXHAUST PRESS SENSOR FAILURE	Alarm only
D3648	A EXHAUST HOOD TEMP SENSOR FAILURE	Alarm only
D3649	A RFP SUCTION PRESS SENSOR FAILURE	Alarm only
D3650	A/B/C CONDENSER VACUUM SENSOR FAILURE	Alarm only
D3651	B CONTROL OIL PRESS SENSOR FAILURE	Alarm only

REFERENCES: E-6765-0, Sht. 2 J-31-0, Sht. 6; 7, 8; 13, 14
J-108-0, Sht. 12,; E-6797-0, Sht. A,
N1-C32-1050-12, Sht. 7

ATTACHMENT F5

INPUTS

Digital Point/ Indication	Nomenclature/Condition Automatic	Action
D3652	B LUBE OIL PRESS SENSOR FAILURE	Alarm only
D3653	B EXHAUST PRESS SENSOR FAILURE	Alarm only
D3654	B EXHAUST HOOD TEMP SENSOR FAILURE	Alarm only
D3655	B RFP SUCTION PRESS SENSOR FAILURE	Alarm only
D3657	C CONTROL OIL PRESS SENSOR FAILURE	Alarm only
D3658	C LUBE OIL PRESS SENSOR FAILURE	Alarm only
D3659	C EXHAUST PRESS SENSOR FAILURE	Alarm only
D3660	C EXHAUST HOOD TEMP SENSOR FAILURE	Alarm only
D3661	C RFP SUCTION PRESS SENSOR FAILURE	Alarm only
D5272	A/B/C REACTOR LEVEL 8 SENSOR FAILURE	Alarm only

REFERENCES: E-6765-0, Sht. 2
J-108-0, Sht. 12:
N1-C32-1050-12, Sht. 7

J-31-0, Sht. 6; 7, 8; 13, 14
E-6797-0, Sht. A