

DOCUMENT TRANSMITTAL FORM 83273
FOR DOCUMENTS TRANSMITTED TO DC DESK (NRC)*

50.302

DATE: 16 DEC 1992
BATCH: 100

DOCUMENT NUMBER	SHEET NUMBER	REVISION NUMBER	COPY NUMBER
AR 958		04	24
VP 580		20	20

INSTRUCTIONS TO THE ADDRESSEE

COMPLETE EACH OF THE INSTRUCTIONS BELOW WHICH ARE MARKED WITH AN " X "

- ☒ (1) VERIFY THE DOCUMENTS RECEIVED AGREE WITH THE ABOVE DESCRIPTION
- ☒ (2) INCORPORATE THE TRANSMITTED DOCUMENTS INTO YOUR FILES
- ☒ (3) DESTROY DOCUMENTS OR PORTIONS OF DOCUMENTS SUPERSEDED BY THE ABOVE
- ☒ (4) SIGN AND DATE IN THE SPACES BELOW INDICATING THAT YOU COMPLETED THESE INSTRUCTIONS
- ☐ (5) SIGN BELOW INDICATING THAT YOU HAVE READ AND UNDERSTOOD THE CHANGES AS IDENTIFIED
- ☒ (6) RETURN TO DOCUMENT CONTROL, CRYSTAL RIVER UNIT 3, MAC# NA1C
NR2A ~~X~~ SAIG FLORIDA POWER CORP., P.O. BOX 219
CRYSTAL RIVER FLA 34423-0219
- ☐ (7) QUALITY PROGRAMS PERSONNEL HAVE READ AND UNDERSTOOD THE CHANGES TO THE AFFECTED GAP'S

SIGNATURE OF ADDRESSEE

DATE

INDEPENDENT VERIFICATION

DATE

(OPS)

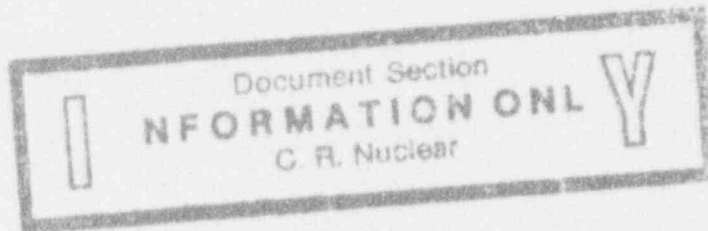
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PSVP	REV. 20	DATE 11/25/92	VP-580
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PLANT SAFETY VERIFICATION PROCEDURE



This Procedure Addresses Safety Related Components			
Approved by NSS <i>William Stephens</i>		Date <u>12-16-92</u>	
VP-580	REV 20	PAGE 1 of 19	PSVP

1.0 REACTIVITY CONTROL

ACTIONS

- 1.1 IF Rx tripped,
THEN verify Immediate Actions
of AP-580, Rx Trip,
are completed.

DETAILS

- CRD Groups 1 thru 7 are fully inserted.
- Intermediate range flux decreasing or source range detectors energized and decreasing.
- TVs or GV's closed.
- "MAIN FW BLOCK"s closed.
- "LO LOAD FW BLOCK"s closed.
- PZR level \geq 50 inches.
- Steam Hdr PRESS \approx 1010 psig.
- Output Bkrs open.
- Verify ICS and NNI power is available.

Note

NI-14-NI1 and NI-15-NI1, neutron flux monitors may not be reliable under accident conditions, due to cable assemblies possibly leaking.

- 1.2 IF Neutron flux is
NOT decreasing,
THEN verify Emergency Boration

- Refer to EP-140, Emergency Reactivity Control.

1.0 REACTIVITY CONTROL (CONT'D)

ACTIONS

- 1.3 IF >1 control rod NOT fully inserted,
THEN verify Emergency Boration

DETAILS

- IF > 1 control rod is stuck
THEN continue boration until either of the following:

- Actual boron concentration ≥ 1925 ppmb

OR

- Actual boron concentration \geq value determined by the Reactor Engineer

-
- 1.4 IF Rx is NOT tripped,
THEN observe plant parameters
AND determine if Rx should be tripped.

- Limiting Safety System Setting exceeded.
- 2 or more MSIVs are closed.
- All MFW is lost $\geq 15\%$ FP.
- PZR level ≥ 290 inches.
- PZR level cannot be maintained > 100 inches during SGTR with HPI.
- SWT-1 < 1 ft. and level cannot be restored.
- SW flow is lost and cannot be restored.
- 2 or more CRDM stator TEMPs $\geq 180^\circ$ F

-
- 1.5 Verify 480V Bkrs are closed:

- Bkr 3305
- Bkr 3312

2.0 THERMAL CONTROL

ACTIONS

- 2.1 Verify RCS heat production is balanced to OTSG heat removal.

DETAILS

- SPDS indicates stable temp. & press. and parameters are within the post trip box.
- IF NOT,
THEN determine cause of mismatch and make appropriate recommendations.
- IF unexplained and significant RC pressure decrease exists,
THEN ensure proper operation:
 - RCV-10, PORV
 - RCV-14, PZR Spray Valve
 - PZR Heaters
- IF SPDS is NOT operable,
THEN record RCS PRESS and TEMP on Enclosure 1 until plant is stable for ≈ 30 min.

Note

Due to possible high radiation conditions, Th and Tc indications may become unreliable 24 hrs after a LOCA.

- 2.2 IF RCP's are NOT operating,
THEN verify Nat Circ. exists or is developing.

IF Nat Circ is NOT verified
AND adequate subcooling margin exists,
THEN refer to AP-530,
Natural Circulation.

Indications of Nat Circ:

- Verify $T_c \approx T_{sat}$ of OTSG.
- Verify core ΔT develops and stabilizes.
- Verify incore TEMPs follows Th within $10^\circ F$.
- WHEN OTSG PRESS is lowered,
THEN verify Tc, incore TEMPs, and Th lower.

2.0 THERMAL CONTROL (CONT'D)

ACTIONS

DETAILS

Note

Enclosure 2 contains EFW inventory requirements during a loss of offsite power cooldown to DHR.

- 2.3 IF Nat Circ exists,
THEN verify proper Nat. Circ
cool-down rate.

Nat Circ Cooldown Rates

RCS Tc	°F/hr
> 280°F	≤ 10°F
280 to 150°F	≤ 5°F
< 150°	≤ 2.5°F
*	≤ 50°F

* Only to be used if RCS PRESS is maintained above Nat Circ cooldown curve.

- 2.4 IF Adequate subcooling margin
does NOT exist,
THEN verify:

- Full HPI or LPI flow,
- No RCPs operating,
- OTSGs at 95%

Tsat Monitor Adequate Subcooling Margin

Reactor Coolant	MARGIN
> 1500 psig	30°F
≤ 1500 to > 250 psig	50°F
≤ 250 to > 150 psig	70°F
≤ 150 psig	SPDS
≤ 200°F	N/A

- Refer to AP-380, ES Actuation.
- Refer to AP-360, Loss of DHR.

2.0 THERMAL CONTROL (CONT'D)

ACTIONS

DETAILS

- 2.5 IF HPI actuated,
THEN verify HPI flows balanced
and MUV-27 closed.

- 2.6 IF RCS PRESS is > 2400 psig,
THEN verify PORV
OR high point vents are
used to reduce RCS PRESS.

Refer to SPDS AND abnormal or
emergency operating procedures
in use to determine RCS PRESS
limits.

- 2.7 IF RCS pressure is \leq 200 psig
AND adequate subcooling margin
does not exist
THEN verify boron precipitation
actions are complete within 24
hours of the event.

OP-404, Decay Heat Removal
System, Section 4.13, Long-
Term Post-Accident Cooling.

- 2.8 IF any of the following
conditions exist:

STS cooldown rate limits:

- RCPs NOT operating,
AND HPI flow exists
through any nozzle while
RCS TEMP is < 500°F.
- STS cooldown rate limits
exceeded while RCS TEMP
is < 380°F.

RCS TEMP °F	RATE LIMIT
> 280	$\leq 50^{\circ} \frac{1}{2}$ hr
280 to 151	$\leq 25^{\circ} \frac{1}{2}$ hr
≤ 150	$\leq 10^{\circ}\text{F/hr}$

THEN verify EP-220, PTS, is
being performed.

2.0 THERMAL CONTROL (CONT'D)

ACTIONS

DETAILS

2.9 IF Subcooling Margin is $> 100^{\circ}\text{F}$,
THEN verify operation in accordance
with abnormal and emergency
operating procedure in use:

- HPI, LPI
- MFW, EFW, EFIC
- OTSG PRESS and level

2.10 Verify required OTSG level.

Required OTSG levels

Condition	Level
Inadequate subcooling margin	80%-90%
NO RCPs and adequate subcooling margin	60%-70%
RCPs and adequate subcooling margin	Low Level Limits

IF OTSG Tube leak exists,
AND adequate subcooling margin
does NOT exist,
AND ≥ 2 HPI pumps are available,
THEN verify affected OTSG is NOT
being fed.

2.11 IF EFW and MFW are NOT
available,
THEN verify HPI/PORV cooling.

2.12 IF OTSG Tube Rupture has
occurred,
○ THEN verify proper cooldown
rate.

Refer to EP-390, OTSG Tube
Leak.

2.0 THERMAL CONTROL (CONT'D)

ACTIONS

- 2.13 IF incores indicate superheated conditions,
THEN verify EP-290,
Inadequate Core Cooling,
is being performed
AND monitor RCS inventory.

DETAILS

Instrumentation for monitoring
RCS inventory:

- Reactor Coolant Inventory Tracking System - will be affected by HPI, LPI, or Natural Circulation flow.
- Reactor Coolant Pump Void Trend Monitoring System is effective only when RCPs are operating.

3.0 RADIOACTIVE INVENTORY CONTROL

ACTIONS

- 3.1 Observe radiation monitors for unexplained trends.

DETAILS

IF any monitor is indicating, an unexplained upward trend
THEN advise SSOD of trend

OR

IF any monitor is in alarm,
THEN refer to AP-250, Radiation Monitor actuation.

-
- 3.2 Observe MS radiation monitors and RMA-12 for unexplained trends.

IF any MS radiation monitor or RMA-12 indicates OTSG leakage,
THEN refer to EP-390, Steam Generator Tube Leak.

-
- 3.3 Observe for increased RCS leakage.

- Observe:
 - RCP seals and dumpsters,
 - PZR level,
 - RCDT level,
 - MUT level,
 - h₂o sump level,
 - Relief valve tailpipe TEMPS.
- Refer to STS 3.4.6.2, Operational Leakage.

-
- 3.4 Verify fuel integrity.

Observe RML-1 Alarms and trends.

4.0 EQUIPMENT AVAILABILITY

ACTIONS

DETAILS

- 4.1 Verify availability of borated water sources for HPI/LPI pumps.

- MUT level
- BWST level

IF NOT,
THEN REFER TO:

- If in Modes 1, 2 or 3,
AP-380, ES Actuation,
- If in Modes 4, 5 or 6,
AP-360, Loss of DHR.

-
- 4.2 Verify availability of HPI, LPI and BS pumps.

- Cooling water - SW,RW,DC
- Max flow for HPI pump 540 gpm
- Min flow for HPI pump with recirc valve closed 100 gpm.
- With suction from RB sump limit LPI flow to \approx 2000 gpm & BS flow to \approx 1200 gpm per train.

-
- 4.3 Verify water sources for OTSG cooling.

- EF Tank level \geq 15 ft.
- CST level \geq 5 ft.
- Hotwell level at 7 to 9 ft.
84 to 109 inches.
- See Enclosure 2 for EFW requirements.
- See Enclosure 3 for other sources of water.

-
- 4.4 IF RCS PRESS < 600 psig
AND adequate subcooling margin
does NOT exist,
THEN verify CFTs not isolated.

4.0 EQUIPMENT AVAILABILITY (CONT'D)

ACTIONS	DETAILS
4.5 Verify SW and RW available and SW cooling to the RCP's. <u>IF NOT,</u> <u>THEN</u> ENSURE AP-330, LOSS of SW, is being performed.	<ul style="list-style-type: none">○ SW PRESS \geq 110 psig.○ Stable SW & RW Motor Current.
4.6 Verify DC Cooling, if required. <u>IF NOT,</u> <u>THEN</u> ensure AP-360, Loss of DH, is being performed.	<ul style="list-style-type: none">○ Stable DCP motor current and discharge PRESS.○ DC Heat Exchanger Outlet TEMP $<$ 105 F.
4.7 Verify ES busses energized & Instrumentation power available.	<ul style="list-style-type: none">○ ES 4160V "A" & "B".○ ES 480V "A" & "B".○ ICS, NNI-X and NNI-Y.
4.8 <u>IF</u> offsite power is <u>NOT</u> available, <u>AND</u> offsite power will <u>NOT</u> be restored within 2 hours, <u>THEN</u> verify EDG operation is within fuel oil consumption limits and fuel oil reserves are adequate.	<p><u>IF</u> within 2 hours offsite power has <u>NOT</u> been restored, <u>AND</u> 2 EDGs are running <u>THEN</u> notify the SSOD to:</p> <ul style="list-style-type: none">○ Order additional fuel oil for emergency delivery within next 10 hours.○ Reduce and maintain combined EDG loads to \leq 2330 KW within next 10 hours.
4.9 Verify Instrument Air pressure available.	<p>IA & SA Low pressure alarms at \leq 85 psig.</p> <ul style="list-style-type: none">○ SA-4-PI○ IA-4-PI

4.0 EQUIPMENT AVAILABILITY (CONT'D)

ACTIONS

DETAILS

4.10 Verify EFW available.

- EFW is required when:
 - MFW not available or
 - No RCPs operating or
 - Adequate SCM does not exist

4.11 Evaluate RB temp. & press.
AND inform SSOD of any abnormalities.

- Strip charts located on back of main control board.

4.12 WHEN VP-580 is stopped,
THEN notify SSOD.

Note

Enclosures 4 through 7 are flow diagrams which provide an overview of symptom oriented transients:

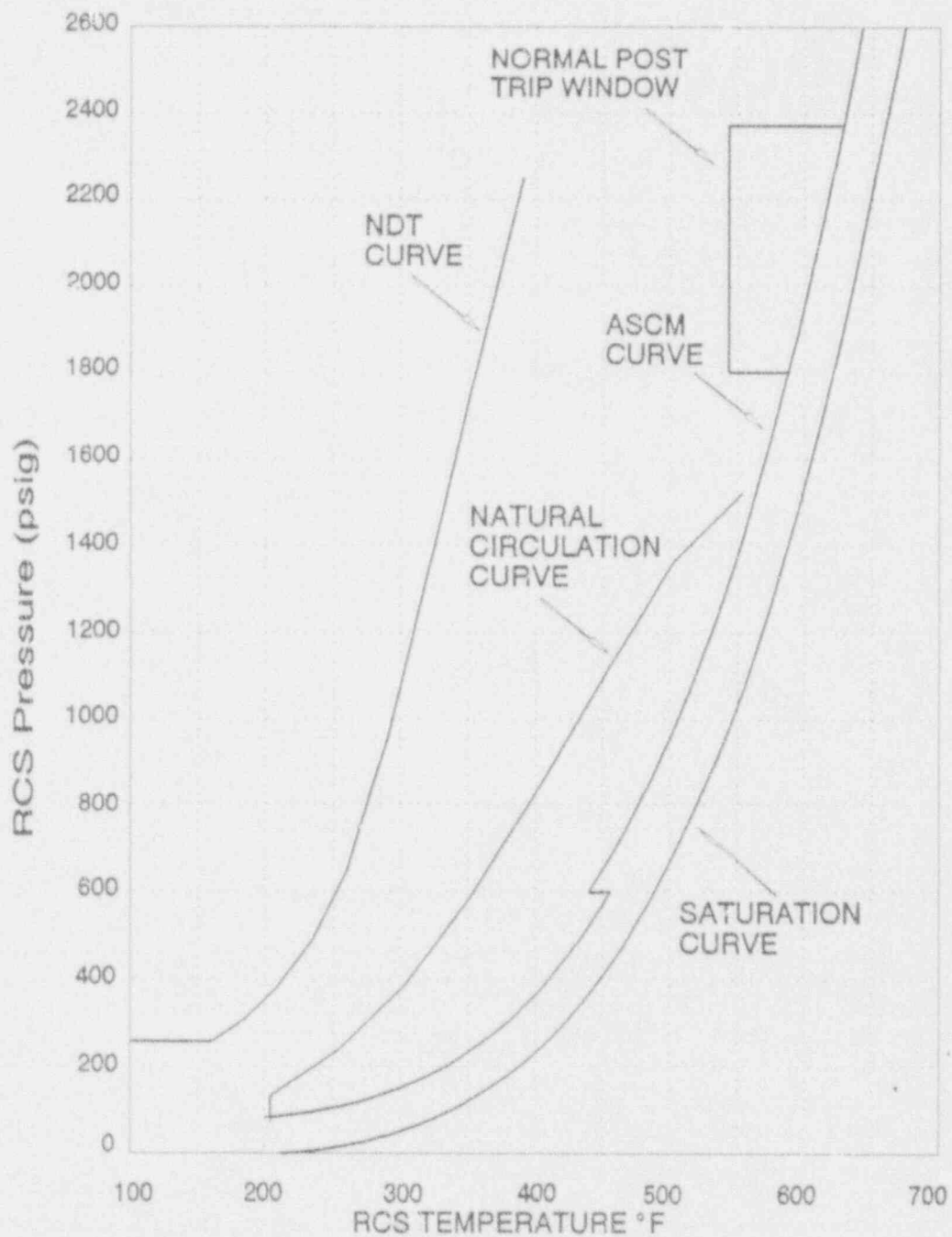
- Enclosure 4 - LOSS OF SUBCOOLING MARGIN
- Enclosure 5 - INADEQUATE CORE COOLING
- Enclosure 6 - EXCESSIVE HEAT TRANSFER
- Enclosure 7 - STEAM GENERATOR TUBE RUPTURE

Note

When the plant has been placed in a stable safe condition then review Emergency Plan Classifications and NRC reporting requirements. Perform AI-704 as time permits.

ENCLOSURE 1

Cooldown Curve for Natural Circulation and Forced Flow



Acceptable region is:

- o below and to the right of the NDT curve
- o above and to the left of the ASCM curve
- o above and to the left of the Natural Circulation curve if RCPs are off and cooldown rate $\geq 10^{\circ}\text{F/hr}$

ENCLOSURE 2

Cooldown Requirements Vs. Nat Circ Cooldown Rates

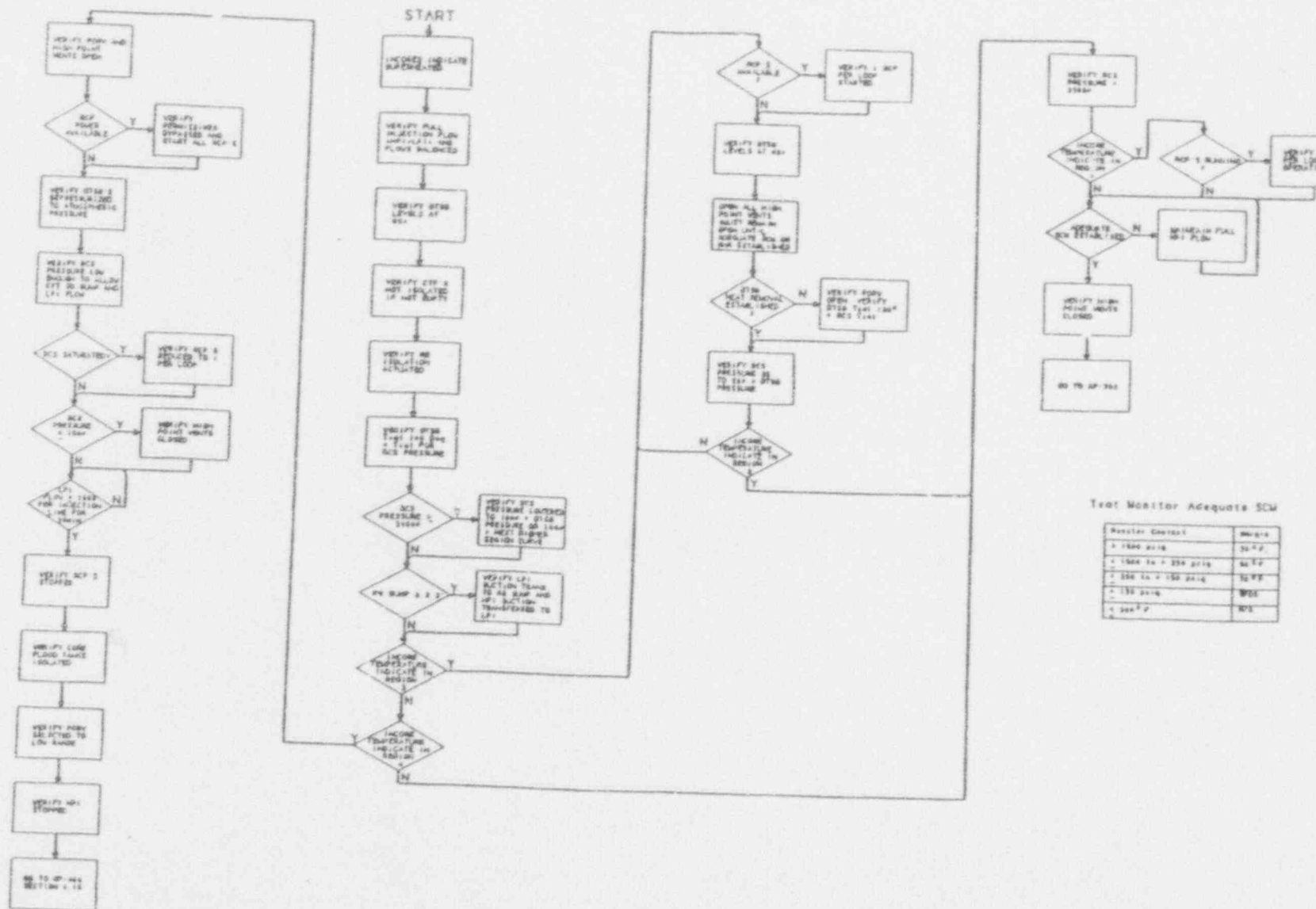
- 1) FW requirements and the time to cooldown are controlled primarily by the characteristics of the ADVs and the cut-in conditions for the DHR system.
- 2) The time to cooldown from Rx trip is about 150 hrs.
- 3) The FW requirement to cooldown is about 735,000 gal.
- 4) The minimum cooldown rate consistent with the above minimum time and FW requirements is about 8.5°F/hr.
- 5) Cooldown rates in excess of 8.5°F/hr do not decrease the FW or time requirements for cooldown.
- 6) Cooldown rates less than 8.5°F/hr increase both the FW and the time requirements for cooldown.
- 7) A time delay of 28 hours from Rx trip will not significantly affect FW or time requirements if a cooldown rate of 50°F/hr is then utilized. For smaller time delays smaller cooldown rates may be utilized.

Sources of Emergency Feedwater (EFW) at the Crystal River Site

Condensate - Grade Sources

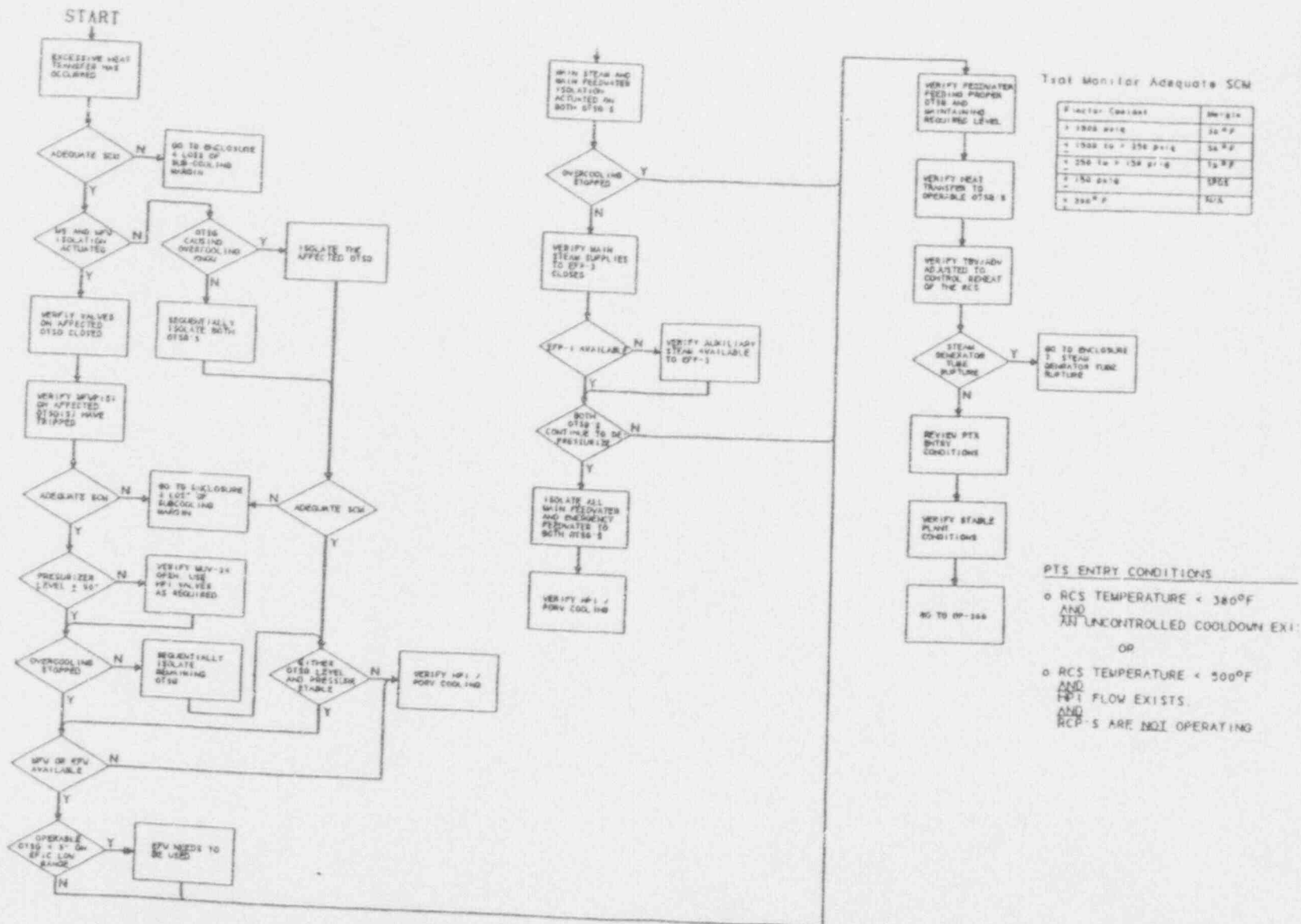
<u>Source</u>	<u>Volume (gal)</u>
Dedicated EFW Tank (EFT-2)	150,000
Condensate Storage Tank	139,000
Condenser Hotwells	150,000
DW Storage Tank, Unit 3	450,000
DW Storage Tank, Unit 1	147,000
DW Storage Tank, Unit 2	147,000
DW Storage Tank, Unit 4/5	500,000
CD Storage Tank, Unit 4	500,000
CD Storage Tank, Unit 5	500,000
AB DW Storage Tank, Unit 3	5,000

Inadequate Core Cooling

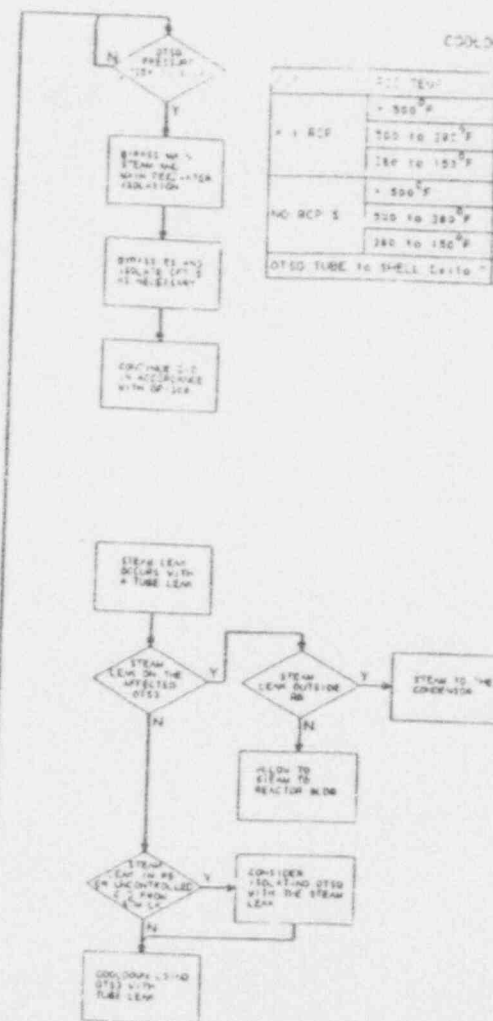
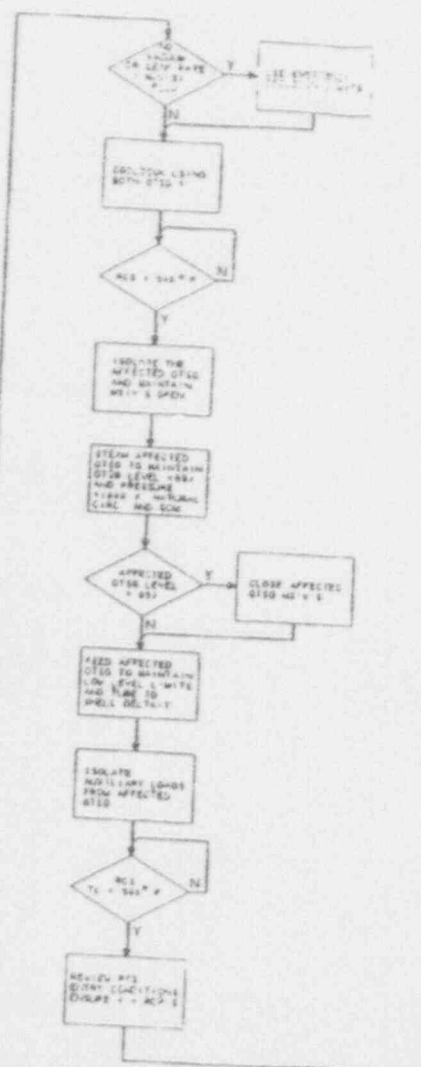
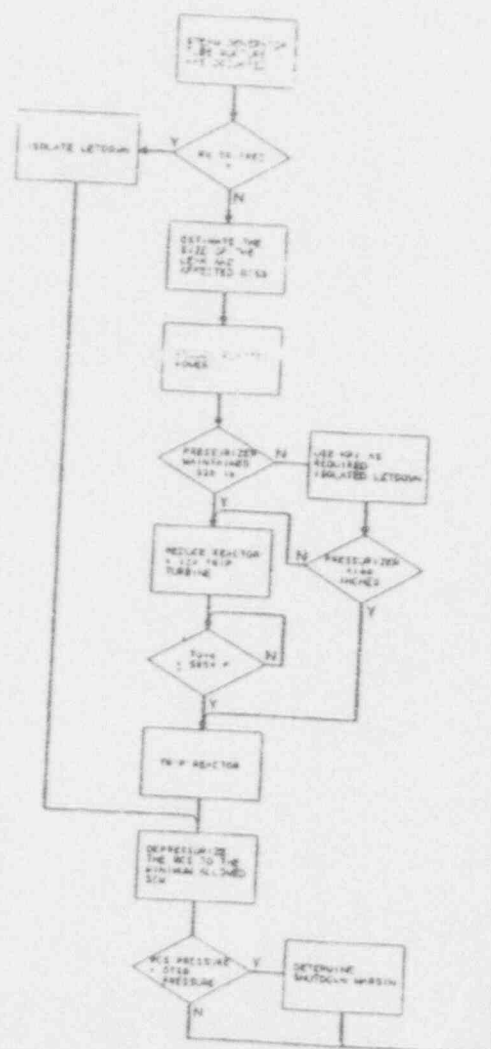
Test Monitor Adequacy SCM

Regular Content	Mean
$\lambda = 1000$ pairs	50 ± 2
$\lambda = 1000$ to $\lambda = 250$ pairs	50 ± 2
$\lambda = 250$ to $\lambda = 150$ pairs	50 ± 2
$\lambda = 150$ pairs	WDS
$\lambda = 500 \pm 2$	WDS

Excessive Heat Transfer



Steam Generator Tube Rupture

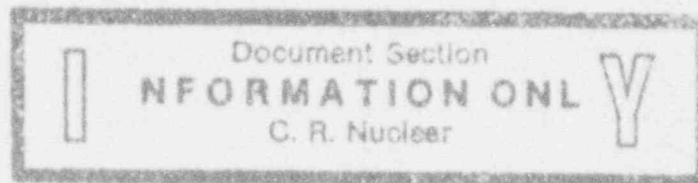


COOLING LIMITS

	OTSG TUBE	NORMAL	OVER
Y - RCP	+ 500 F	+ 50 F + 1/2 H	+ 100 F + 1/2 H
	500 TO 100 F	+ 50 F + 1/2 H	+ 50 F + 1/2 H
	100 TO 150 F	+ 25 F + 1/2 H	+ 25 F + 1/2 H
NO RCP'S	+ 500 F	+ 25 F + 1/2 H	+ 100 F + 1/2 H
	500 TO 100 F	+ 25 F + 1/2 H	+ 25 F + 1/2 H
	100 TO 150 F	+ 10 F + 1/2 H	+ 10 F + 1/2 H
OTSG TUBE TO SHELL Delta T = + 100 F Delta T = + 150 F Delta T =			

Rev. 4 12/09/92

Effective Date 12/16/92



ANNUNCIATOR RESPONSE

AR-958

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

WDH ANNUNCIATOR RESPONSE

THIS PROCEDURE ADDRESSES SAFETY RELATED COMPONENTS

APPROVED BY: Interpretation Contact

W. Marshall

DATE:

12/15/92

Interpretation Contact: Manager, Nuclear Plant Operations

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1 <u>Annunciator Response</u>	2

1.0 PURPOSE

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

2.0 REFERENCES

2.1 IMPLEMENTING REFERENCES

None

2.2 DEVELOPMENTAL REFERENCES

- 2.2.1 INPO 90-021, Good Practice OP-217, Alarm Response Procedures.
- 2.2.2 Annunciator Window Engraving Drawing E-224-050.

3.0 PERSONNEL INDOCTRINATION

None

4.0 INSTRUCTIONS

- 4.1 Respond to alarms on the WD-WV Panel Lampbox as indicated on Enclosure 1, Annunciator Response.

5.0 FOLLOW-UP ACTIONS

None

ANNUNCIATOR PANEL LOCATION RADWASTE DISPOSAL CUBICLE

ANNUNCIATOR PANEL WD-WV (H)

HORIZONTAL ROW 1

WINDOW TITLE 1. INDICATED CONDITION
2. CONTROL ROOM OR AUXILIARY BUILDING
INDICATION WHICH VERIFY OR PINPOINT TROUBLE

1. AUTO ACTION
2. OPERATOR ACTION - VALID ALARM

SETPOINT SENSING
ELEMENT
NUMBER &
LOCATION REFERENCE

EVAP CDSTE DEMIN "A" HIGH TEMP WV-1-1	1. a) Evap CDSTE demin "A" temp > 120°F. 2. a) Evap CDSTE demin "A" temp indicator on WD panel.	1. a) None. 2. a) Stop flow to demineralizer. b) Determine cause of high temperature and correct.		WD-91-TS	WD-141
EVAP CDSTE DEMIN "B" HIGH TEMP WV-1-2	1. a) Evap CDSTE demin "B" temp > 120°F. 2. a) Evap CDSTE demin "B" temp indicator on WD panel.	1. a) None. 2. a) Stop flow to demineralizer. b) Determine cause of high temperature and correct.		WD-92-TS	WD-141
EVAP CDSTE DEMIN "A" HIGH DIFF PRESS WV-1-3	1. a) Evap CDSTE demin "A" diff press > 40 psid. 2. a) Evap CDSTE demin "A" diff press indicator on WD panel.	1. a) None. 2. a) Sluice resin out and replace.		WD-211-PS	WD-141
EVAP CDSTE DEMIN "B" HIGH DIFF PRESS WV-1-4	1. a) Evap CDSTE demin "B" diff press > 40 psid. 2. a) Evap CDSTE demin "B" diff press indicator on WD panel.	1. a) None. 2. a) Sluice resin out and replace.		WD-212-PS	WD-141
EVAP CDSTE STOR TANK "A" HIGH LEVEL WV-1-5	1. a) Evap CDSTE storage tank "A" level > 97.6%. 2. a) Evap CDSTE storage tank "A" level indicator on WD panel.	1. a) None. 2. a) Open tank drain to maintain level. b) Determine cause of high level and correct.		WD-97-LS1	WD-141
EVAP CDSTE STOR TANK "A" LOW LEVEL WV-1-6	1. a) Evap CDSTE storage tank "A" level < 21.4%. 2. a) Evap CDSTE storage tank "A" level indicator on WD panel.	1. a) None. 2. a) Stop evap cond. pump 3A. b) Determine cause of low level and correct.		WD-97-LS2	WD-141
EVAP CDSTE STOR TANK "B" HIGH LEVEL WV-1-7	1. a) Evap CDSTE storage tank "B" level > 97.6%. 2. a) Evap CDSTE storage tank "B" level indicator on WD panel.	1. a) None. 2. a) Open tank drain to maintain level. b) Determine cause of high level and correct.		WD-98-LS1	WD-141
EVAP CDSTE STOR TANK "B" LOW LEVEL WV-1-8	1. a) Evap CDSTE storage tank "B" level < 21.4%. 2. a) Evap CDSTE storage tank "B" level indicator on WD panel.	1. a) None. 2. a) Stop evap cond. pump 3B. b) Determine cause of low level and correct.		WD-98-LS2	WD-141

ANNUNCIATOR PANEL LOCATION RADWASTE DISPOSAL CUBICLEANNUNCIATOR PANEL WD-WV (H)HORIZONTAL ROW 2

WINDOW TITLE

1. INDICATED CONDITION
2. CONTROL ROOM OR AUXILIARY BUILDING INDICATION WHICH VERIFY OR PINPOINT TROUBLE

1. AUTO ACTION
2. OPERATOR ACTION - VALID ALARM

SETPOINT

SENSING
ELEMENT
NUMBER &
LOCATION

REFERENCE

WASTE GAS SURGE TANK HIGH DIFF PRESS WV-2-1	1. a) Waste gas surge tank diff press > 2.0 PSIG. 2. a) Local indicator.	1. a) None. 2. a) Check valve lineup, determine cause and correct.		WD-203-PS3	WD-141
WASTE GAS COMPRESSOR 3B HIGH TEMP WV-2-2	1. a) Waste gas compressor 3B outlet gas temperature > 150°F. 2. a) WDP-1B temperature indicator on WD panel.	1. a) None. 2. a) Check SW cooling water to compressor. b) Transfer to 3A compressor.		WD-152-TS	WD-141
WASTE GAS COMPRESSOR 3A HIGH TEMP WV-2-3	1. a) Waste gas compressor 3A outlet gas temperature > 150°F. 2. a) WDP-1A temperature indicator on WD panel.	1. a) None. 2. a) Check SW cooling water to compressor. b) Transfer to 3B compressor.		WD-153-TS	WD-141
CATION DEMIN "A" & "B" STRAIN HIGH D/P WV-2-4	1. a) Cation demin "A" & "B" outlet strainer differential pressure > 5 psid. 2. a) Local indicator.	1. a) None. 2. a) Flush strainer to spent resin storage tank.		WD-228-PS WD-229-PS	WD-141
DRAIN POT HIGH LEVEL WV-2-5	1. a) Waste Gas Surge Tank Drain pot level > 18" H ₂ O. 2. a) Local level indication at the drain pot.	1. a) None. 2. a) Open drain valve for drain pot to maintain proper level. b) Determine cause of high level and correct.		WD-3-LS	WD-141
DEBOR DEMIN HIGH INLET TEMP WV-2-6	1. a) Debor demin inlet header temperature > 120°F. 2. a) Demin 1A/1B T-inlet temperature indicator on WD panel.	1. a) None. 2. a) Secure flow to demineralizer. b) Determine cause of high temperature and correct.		WD-45-TS	WD-141
DEBOR DEMIN "A" HIGH DIFF PRESS WV-2-7	1. a) Debor demin 3A differential pressure > 40 psid. 2. a) Debor demin 3A D/P indicator on WD panel indicates that demin is filled solid (3.25 psid).	1. a) None. 2. a) Sluice resin and replace.		WD-207-PS1	WD-141
DEBOR DEMIN "B" HIGH DIFF PRESS WV-2-8	1. a) Debor demin 3B differential pressure > 40 psid. 2. a) Debor demin 3B D/P indicator on WD panel indicates that demin is filled solid (3.25 psid).	1. a) None. 2. a) Sluice resin and replace.		WD-208-PS1	WD-141