

DOCUMENT TRANSMITTAL FORM 80677  
FOR DOCUMENTS TRANSMITTED TO DC DESK (NRC)\*

DATE: 09 OCT 1992  
BATCH: 9210

DOCUMENT NUMBER      SET NUMBER      REVISION NUMBER      COPY NUMBER

AR 954

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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- ☒ (3) DESTROY DOCUMENTS OR PORTIONS OF DOCUMENTS SUPERSEDED BY THE ABOVE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 / SA1G\_\_\_\_ 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)

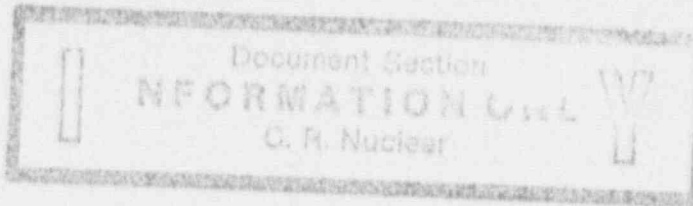
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Rev. 3 09/30/92

Effective Date 10-8-92



ANNUNCIATOR RESPONSE

AR-954

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

WDD ANNUNCIATOR RESPONSE

THIS PROCEDURE ADDRESSES SAFETY RELATED COMPONENTS

APPROVED BY: Interpretation Contact

W. Marshall

DATE: 10/6/92

INTERPRETATION CONTACT: Nuclear Operations Superintendent

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## 1.0 PURPOSE

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

## 2.0 REFERENCES

### 2.1 IMPLEMENTING REFERENCES

- 2.1.1 OP-415, Waste Disposal Evaporators

### 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-WR Panel Lampbox as indicated on Enclosure 1, Annunciator Response.

## 5.0 FOLLOW-UP ACTIONS

None

ANNUNCIATOR PANEL LOCATION RADWASTE DISPOSAL CUBICLEANNUNCIATOR PANEL WD-WR (D)HORIZONTAL ROW 1

WINDOW TITLE	1. INDICATED CONDITION 2. CONTROL ROOM/AUX BLDG. INDICATION WHICH VERIFY OR PINPOINT TROUBLE	1. AUTO ACTION 2. OPERATOR ACTION - VALID ALARM	SETPOINT	SENSING ELEMENT NUMBER & LOCATION	REFERENCE
WR-1-1 NEUTRALIZER TANK MIXER TRIP	1. a) Mixer (WDMX-1) tripped out on overload. 2. a) Mixer run indicating lamps on WD panel.	1. a) None. 2. a) Determine cause of overload condition.		SWGR 49 CONTACTS	WD-31
WR-1-2 WASTE GAS DECAY TK 3A PRESS HIGH	1. a) Tank pressure > 83 psig. 2. a) Tank pressure indicator on WD panel.	1. a) None - however, programmer should have auto-transferred to another tank at > 80 psig setpoint. 2. a) Associated waste gas decay tank is full, lineup to tank with < 80 psig in it.		WD-204-PS2	WD-05
WR-1-3 WASTE GAS DECAY TK 3B PRESS HIGH	1. a) Tank pressure > 83 psig. 2. a) Tank pressure indicator on WD panel.	1. a) None - however, programmer should have auto-transferred to another tank at > 80 psig setpoint. 2. a) Associated waste gas decay tank is full, lineup to tank with < 80 psig in it.		WD-205-PS2	WD-05
WR-1-4 WASTE GAS DECAY TK 3C PRESS HIGH	1. a) Tank pressure > 83 psig. 2. a) Tank pressure indicator on WD panel.	1. a) None - however, programmer should have auto-transferred to another tank at > 80 psig setpoint. 2. a) Associated waste gas decay tank is full, lineup to tank with < 80 psig in it.		WD-206-PS2	WD-05
WR-1-5 LIQUID WASTE DRUM FILL LEVEL HIGH	1. a) Drum level > 2.5'. 2. a) Valve WDV-653 indicating lamps on Waste Drum Panel.	1. a) Waste drum fill shutoff valve (WDV-653) closes. 2. a) Ensure that valve WDV-653 closes. b) Check for improper drum mix. c) Check for possible high flow rate. d) Check for possible leaking drum inlet manifold.		WD-142-LS	WD-127
WR-1-6 RC EVAP CONCENTRATOR LEVEL HIGH	1. a) Concentrator level > 20". 2. a) RC evap. feed tank pump WDP-16A/16B indicating lamps on WD panel.	1. a) Trips RC evap. feed tank pump 3A/3B (WDP-16A/16B) except when the concentrator high level override key lock switch is in override position. 2. a) Ensure that pump (WDP-16A/16B) trips. b) Secure RC evap. cond. cooling water, steam supply and vacuum pump.		WD-174-LS	WD-143
WR-1-7* RC EVAP FEED TANK LEVEL HIGH	1. a) Tank level > 92%. 2. a) Tank level indication on WD panel.	1. a) None. 2. a) Check lineup for cause of alarm. b) If level continues increasing, open drain valve.		WD-161-LS2	WD-137
WR-1-8*					

\* ALARM COULD BE DEFEATED PER OP-415

## EVIAPORATOR PANEL LOCATION RADWASTE DISPOSAL CUBICLE

EVIAPORATOR PANEL WD-WR (D)

HORIZONTAL ROW

## WINDOW TITLE

1. INDICATED CONDITION
2. CONTROL ROOM/AUX BLDG. INDICATION WHICH VERIFY OR PINPOINT TROUBLE

1. AUTO ACTION
2. OPERATOR ACTION - VALID ALARM

## SETPPOINT

SENSING  
ELEMENT  
NUMBER &  
LOCATION

## REFERENCE

RC EVAP FEED TANK DENSITY HIGH  WR-2-1*	1. a) Feed tank specific gravity > 1.2. 2. a) Tank density indicator on WD panel.	1. a) None. 2. a) Determine cause of high density and resolve. b) Transfer water to conc. waste storage tank or to conc. Boric Acid storage tank.		WD-162-PSA	WD-137
RC EVAP DISTILLATE RESERVOIR LEVEL HIGH WR-2-2*	1. a) Reservoir level > 100%. 2. a) Reservoir level indicator on WD panel.	1. a) None. 2. a) Secure steam supply and cooling water flow to evaporator.		WD-160-LS1	WD-137
RC EVAP DISTILLATE CONDUCTIVITY HIGH  WR-2-3*	1. a) Distillate conductivity > 2 M/MHOS. 2. a) Distillate reject/discharge valve indication on WD panel. b) Distillate conductivity indicator on WD panel.	1. If RC evap. distillate pump 3A (WDP-17A)/3B (WDP-17B) is running: a) Open distillate reject valve (WDV-722)/WDV-719). b) Shut distillate discharge valve (WDV-721)/(WDV-720). 2. a) Ensure auto action initiated. b) Determine cause of alarm and resolve. c) Check feed tank concentration and for foaming in tank.		WD-159-CS	WD-143
RC EVAP CONCENTRATOR VACUUM LOW WR-2-4*	1. a) Concentrator vacuum < 15 in HG. 2. a) Concentrator vacuum indicator on WD panel.	1. a) None. 2. a) Check seal water, vacuum water separator, steam supply and for possible cooling water fluctuations.		WD-164-PSA	WD-143
RC EVAP FEED TANK LOW LEVEL  WR-2-5*	1. a) Feed tank level < 29.2%. 2. a) Tank level indicator on WD panel.	1. a) Trips RC evap feed tank pumps 3A/3B (WDP-16A/16B). b) De-energizes RC evap feed tank heater (WDHE-2). 2. a) Determine reason for low level by checking valve lineup and restore.		WD-161-LS1	WD-143
RC EVAP FEED TANK TEMP LOW  WR-2-6*	1. a) Feed tank temperature < 150°F. 2. a) Feed tank heater indicating lamps (WDHE-2) on WD panel. b) Tank temperature indicator on WD panel.	1. a) None - (Tank heaters should cycle on/off at 155°F/165°F). 2. If RC evaporator package is in operation: a) Ensure feed tank level > 29.2%. b) Manually control heaters if desired. c) Check out operation of heater control circuitry.		WD-163-TE	WD-50
RC EVAP DISTILLATE RESERVOIR LEVEL LOW  WR-2-7*	1. a) Reservoir level < 33%. 2. a) Selected RC evap distillate pump indicating lamps on WD panel. b) Reservoir level indicator on WD panel.	1. a) Trips selected RC evap distillate pump (WDP-17A/17B). (Selected pump cycles on/off at levels of 67%/33%). 2. Insufficient distillate flow rate: a) Check valve lineup, steam supply and cooling water. b) Ensure that auto action initiated.		WD-160-LS3	WD-143
BORIC ACID STOR TANK TEMP HI/LO  WR-2-8	1. a) Boric Acid storage tank 3A or 3B temperature > 164°F or < 152°F. 2. a) Storage tank heater indicating lamps on WD panel. b) Tank temperature indicator on WD panel.	1. a) None - (Tank heaters should cycle on/off at 156°F/162°F). 2. a) Investigate heater control circuitry for malfunction.		WD-80-TS WD-83-TS	WD-52 WD-53

\* ALARM COULD BE DEFEATED PER OP-415