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Grand Gulf Nuclear Station

January 14, 1992

U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-417
License No. NPF-29
Emergency Response Data System Information

GNRG-92/00006

Gentlemen:

The implementation plan for the Grand Gulf Nuclear Station (GC 3) Emergency Response Data System (ERDS) was submitted by my letter dated October 28, 1991 (GNRG-91/00174). In accordance with the implementation plan, attached are the ERDS Plant Attribute Library and the ERDS Data Point Library for GGNS.

Please contact Jewel Summers at extension 2149 should you have any questions or desire additional information concerning this matter.

Yours truly,

W T Coile

WTC/HEK/mtc

attachments: 1. ERDS Plant Attribute Library
2. ERDS Data Point Library

cc: (See Next Page)

G9201061/SNLICFLR - 1

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PDR ADDOCK 05000416
P PDR

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1/1

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PLANT ATTRIBUTE LIBRARY

(PAL)

GRAND GULF NUCLEAR STATION
RESPONSE TO ERDS COMMUNICATIONS LINK DATA SURVEY

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SELECTION OF DATA FEEDERS

- A. How many data feeders are there (six maximum)?

GGNS – One data feeder

- B. Identify the selected data feeders and provide the following for each:

GGNS – All categories of data points will be provided by one feeder.

- (1) a short description of the categories of data points it will provide (e.g., met, rad, or plant data points, by unit) and

GGNS – The categories of data points that will be provided by the feeder include: Nuclear Instruments, Core Cooling, Reactor Coolant System Integrity, Radioactivity Control, Containment Conditions and Meteorological Conditions.

- (2) the rationale for selecting it if another system can also provide its categories of data points.

GGNS – The system upgrades underway will eventually replace all existing systems. Any alternative would more than double cost and maintenance of the link.

- C. Which data feeder is the site time determining feeder? This should be the feeder which is providing the majority of the data points.

GGNS – N/A, one feeder

DATA FEEDER INFORMATION

General Questions

1. Identification of Data Feeder

- a. What is the name in local parlance given to this data feeder (e.g., Emergency Response Information System)? Please give both the acronym and the words forming it.

GGNS - The local parlance is "DS5" (Data Server #5).

- b. Is this the site time determining feeder?

GGNS - Yes

- c. What is the update frequency of this feeder (in seconds)?

GGNS - approximately 15 seconds

2. Hardware/Software Environment

- a. Identify the manufacturer and model number of the data feeder hardware.

GGNS -- VME based, Motorola model 8840.

- b. Identify the operating system.

GGNS -- UNIX will be the operating system.

- c. What method of timekeeping is implemented on this feeder system (Daylight Savings, Standard, Greenwich)?

GGNS -- Daylight Savings

- d. In what time zone is this feeder located?

GGNS -- Central Standard Time Zone

3. Data Communication Details

- a. Can this data feeder provide asynchronous serial data communication (RS-232-C) with full-modem control?

GGNS - Yes

- b. Will this feeder transmit in ASCII or EBCDIC?

GGNS - ASCII

- c. Can this feeder transmit at a serial baud rate of 2400 bps? If not, at what baud rate can it transmit?

GGNS - Yes, 2400 bps

- d. Does the operating system support XON/XOFF flow control?

GGNS - Yes

1. Are any problems foreseen with the NRC using XON/XOFF to control the transmission of data?

GGNS - No

- e. If it is not feasible to reconfigure a serial port for the ERDS linkup (i.e., change the baud rate, parity, etc.), please explain why.

GGNS - New port will be installed

- f. Can the serial port dedicated to the ERDS be configured so that the NRC need not emulate a specific brand of terminal (i.e., can it be configured to be a "var. data" terminal)?

GGNS - Yes

1. If not, is it possible to add additional ports?

GGNS - N/A

2. If yes, will the port be used solely by the ERDS or shared with other nonemergency-time users? Give details.

GGNS - It is planned that the port be dedicated strictly for ERDS.

4. Data Feeder Physical Environment and Management

- a. Where is the data feeder located in terms of the TSC, EOF, and control room?

GGNS - The data feeder will reside in the Modification and Engineering Building (M&E) computer room. Activation of the ERDS will be done from the control room or TSC.

- b. Is the data feeder protected from loss of supply of electricity?

GGNS - No.

- c. Is there a human operator for this data feeder?

GGNS - Yes, a control room operator or TSC personnel will activate the program.

1. If so, how many hours a day is the feeder attended?

GGNS - 24

DATA POINT LIBRARY

(DPL)

Computer Point to Parameter Cross Reference

The following table cross references the NRC Safety Function Parameters to GGNS computer points. Computer points are not available for all parameters. These are denoted with N/A in the GGNS computer point column.

NRC Parameters

GGNS computer points

Reactivity Control

NI POWER RNG	C51J807A C51J807B C51J807C C51J807D C51J807E C51J807F C51J807G C51J807H
NI INTER RNG	N/A
NI SOURC RNG	N/A

Core Cooling

REAC VES LEV	C34N017
MAIN FD FLOW	C34N002A C34N002B
RCIC FLOW	E51L603

RCS Integrity

RCS PRESSURE	C34N005
HPCI FLOW	N/A
LPCI FLOW	N/A
CR SPRAY FL	P41N016C
DW FD SMP LV	P45N003

Radioactivity Control

EFF GAS RAD	D17K602
EFF LIQ RAD	N/A
CND A/E RAD	N/A

DW RAD	N/A
MN STEAM RAD	D17L634A

Containment Conditions

DW PRESS	M71N001A
	M71N001B
DW TEMP	M71N605A
	M71N605B
	M71N605C
	M71N605D
SP TEMP	M71N606C
	M71N613C
	M71N615C
	M71N616C
SP LEVEL	E30N003A
	E30N003B
	E30N003C
	E30N003D
H2 CONC	E61K001A
	E61K001B
O2 CONC	N/A

Miscellaneous Parameters

CST LEVEL	P11N003
WIND SPEED	C84J009
WIND DIR	C84J006
STAB CLASS	N/A

BWR DATA POINT LIBRARY REFERENCE FILE

DATE:

08 / 29 / 91

REACTOR UNIT:

GG1

DATA FEEDER:

N/A

NRC ERDS PARAMETER:

NI POWER RNG

POINT ID:

C51J807A

PLANT SPEC POINT DESC.:

APRM A FLUX LEVEL

GENERIC/COND DESC.:

Average Power Range Monitor A

ANALOG/DIGITAL:

A

ENGR UNITS/DIG STATES:

%

ENGR UNITS CONVERSION:

Linear (0-160mv)

MINIMUM INSTR RANGE:

0

MAXIMUM INSTR RANGE:

125

ZERO POINT REFERENCE:

N/A

REFERENCE POINT NOTES:

N/A

PROC OR SENS:

S

NUMBER OF SENSORS:

1

HOW PROCESSED:

N/A

SENSOR LOCATION:

Reactor Core

ALARM/TRIP SET POINTS:

N/ANI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL:Never cut-offNI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL:Always Turned-OnINSTRUMENT FAILURE
MODE:LOW with alarm

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Requires input from at least 14 (normal is 22) LPRMS for proper
operation. APRM reading and output to RPS can be affected by failed LPRMS (i.e. upscale/downscale
LPRMS)

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: NIPOWER RNG

POINT ID: C51J807B

PLANT SPEC POINT DESC.: APRM B FLUX LEVEL

GENERIC/COND DESC.: Average Power Range Monitor B

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: Linear (0-160mv)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 125

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER GT SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Reactor Core

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: Never cut-off

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: Always Turned-On

INSTRUMENT FAILURE
MODE: LOW with alarm

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER.

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Same as C511807A

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: NLPOWER RNG

POINT ID: C51J807C

PLANT SPEC POINT & SC: APRM C FLUX LEVEL

GENERIC/COND DESC: Average Power Range Monitor C

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: Linear (0-160m.y)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 125

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Reactor Core

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: Never cut-off

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: Always Turned-On

INSTRUMENT FAILURE
MODE: LOW with alarm

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Same as C511807A

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GGJ

DATA FEEDER: N/A

NRC ERDS PARAMETER: NIPOWER RNG

POINT ID: C51J807D

PLANT SPEC POINT DESC.: APRM D FLUX LEVEL

GENERIC/COND DESC.: Average Power Range Monitor D

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: Linear (0-160mv)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 125

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Reactor Core

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: Never cut-off

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: Always Turned-On

INSTRUMENT FAILURE
MODE: LOW with alarm

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Same as C511807A

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: NI POWER RNG

POINT ID: C51J807E

PLANT SPEC POINT DESC.: APRME FLUX LEVEL

GENERIC/COND DESC.: Average Power Range Monitor E

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: Linear (0-160mv)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 125

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Reactor Core

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: Never cut-off

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: Always Turned-On

INSTRUMENT FAILURE
MODE: LOW with alarm

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Same as C51J807A

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91
 REACTOR UNIT: GG1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: NI POWER R.8G
 POINT ID: C51J807F
 PLANT SPEC POINT DESC.: APRM F FLUX LEVEL
 GENERIC/COND DESC.: Average Power Range Monitor F
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: Linear (0-160mv)
 MINIMUM INSTR RANGE: 0
 MAXIMUM INSTR RANGE: 125
 ZERO POINT REFERENCE: N/A
 REFERENCE POINT NOTES: N/A
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: Reactor Core
 ALARM/TRIP SET POINTS: N/A
 NI DETECTOR POWER
 SUPPLY CUT-OFF POWER
 LEVEL: Never cut-off
 NI DETECTOR POWER
 SUPPLY TURN-ON POWER
 LEVEL: Always Turned-On
 INSTRUMENT FAILURE
 MODE: LOW with alarm

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Same as C511807A

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: G/G1

DATA FEEDER: N/A

NRC ERDS PARAMETER: NIPOWER RNG

POINT ID: C51J807G

PLANT SPEC POINT DESC.: APRM G FLUX LEVEL

GENERIC/COM'D DESC.: Average Power Range Monitor G

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: Linear (0-160mv)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 1.11

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Reactor Core

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: Never cut-off

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: Always Turned-On

INSTRUMENT FAILURE
MODE: LOW with alarm

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Same as C511807A

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: NI POWER RNG

POINT ID: C51J807H

PLANT SPEC POINT DESC.: APRM H FLUX LEVEL

GENERIC/COND DESC.: Average Power Range Monitor H

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: Linear (0-160mv)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 125

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Reactor Core

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: Never cut-off

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: Always Turned-On

INSTRUMENT FAILURE
MODE: LOW with alarm

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Same as C51J807A.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91
 REACTOR UNIT: GG1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: REAC VES LEV
 POINT ID: C34N017
 PLANT SPEC POINT DESC.: Rx WATE R LEVEL (WIDE RANGE)
 GENERIC/COND DESC.: Reactor Water Level
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: INH2O
 ENGR UNITS CONVERSION: Linear (32-160mv)
 MINIMUM INSTR RANGE: 0
 MAXIMUM INSTR RANGE: 180
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: INSTRUMENT 0 is 533' above Vessel 0
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: Inside Contmt 135' el. Az 2.4, pml 1H2 2P027
 ALARM/TRIP SET POINTS: (15 LOW) (120 HIGH)
 NI DETECTOR POWER
 SUPPLY CUT-OFF POWER
 LEVEL: N/A
 NI DETECTOR POWER
 SUPPLY TURN-ON POWER
 LEVEL: N/A
 INSTRUMENT FAILURE
 MODE: (Mech. HIGH) (Elect. LOW)

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

Y

LEVEL REFERENCE LEG:

WET

UNIQUE SYSTEM DESC.:

Instrument calibrated for saturated water and steam conditioner at
1025 psig in vessel and 135 degrees in drywell. Although, part of the feedwater control system provides
no logic functions but only as a vessel level recorder indicator on P680 panel.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91
 REACTOR UNIT: GG1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: MAIN FD FLOW
 POINT ID: C34N002A
 PLANT SPEC POINT DESC.: RTR FW LOOP A FLOW
 GENERIC/COND DESC.: Loop A Feedwater Flow
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: MLB/HR
 ENGR UNITS CONVERSION: Square Root (32-160mv)
 MINIMUM INSTR RANGE: 0
 MAXIMUM INSTR RANGE: 10
 ZERO POINT REFERENCE: N/A
 REFERENCE POINT NOTES: N/A
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: Turbine Bldg. 113' el, pnl 1H22F043 in Rm 1T226
 ALARM/TRIP SET POINTS: N/A
 NI DETECTOR POWER
 SUPPLY CUT-OFF POWER
 LEVEL: N/A
 NI DETECTOR POWER
 SUPPLY TURN-ON POWER
 LEVEL: N/A
 INSTRUMENT FAILURE
 MOD: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Part of feedwater control logic; however, only function B for
display of loop feedwater flow and in conjunction with 'H' FW flow instrument, in dicated total
feedwater flow on P680 panel.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC EFDS PARAMETER: MAIN FD FLOW

POINT ID: C34N002B

PLANT SPEC POINT DESC.: RTR FW LOOP A FLOW

GENERIC/COND DESC.: Loop B Feedwater Flow

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: MLB/HR

ENGR UNITS CONVERSION: Square Root (32-160mv)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 10

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Turbine Bldg. 113' el, pnl 1H22P043 in Rm 1T226

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

N. DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Part of feedwater control system but only function is to display
loop flow and in conjunction with 'A' loop flow instrumentation displays total FW flow on P680 panel.

DATE:	<u>08</u> / <u>29</u> / <u>91</u>
REACTOR UNIT:	<u>GG1</u>
DATA FOLDER:	<u>N/A</u>
NRC ERDS PARAMETER:	<u>RCIC FLOW</u>
POINT ID:	<u>E51L603</u>
PLANT SPEC POINT DESC.:	<u>RCIC PUMP DISCHARGE FLOW</u>
GENERIC/COND DESC.:	<u>Reactor Core Isolation Cooling Flow</u>
ANALOG/DIGITAL:	<u>D</u>
ENGR UNITS/DIG STATES:	<u>OFF ON</u> <u>(NOT LOW) (LOW)</u>
ENGR UNITS CONVERSION:	<u>N/A</u>
MINIMUM INSTR RANGE:	<u>N/A</u>
MAXIMUM INSTR RANGE:	<u>N/A</u>
ZERO POINT REFERENCE:	<u>N/A</u>
REFERENCE POINT NOTES:	<u>N/A</u>
PROC OR SENS:	<u>S</u>
NUMBER OF SENSORS:	<u>1</u>
HOW PROCESSED:	<u>N/A</u>
SENSOR LOCATION:	<u>26.5 Ft from Pump Discharge Flange</u>
ALARM/TRIP SET POINTS:	<u>Alarm on LOW</u>
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	<u>N/A</u>
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	<u>N/A</u>
INSTRUMENT FAILURE MODE:	<u>LOW</u>

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Alarm function only; instrumentation available on P601 panel for
readout of actual RCIC discharge flow (0-800 gpm).

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: RCS PRESSURE

POINT ID: C34N005

PLANT SPEC POINT DESC.: REACTOR PRESSURE

GENERIC/COND DESC.: Reactor Pressure

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: PSIG

ENGR UNITS CONVERSION: Linear (32-160mv)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 1200

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Inside Contmt 139' el, Az 30, pnl 1H22P004

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Although, part of the feedwater control system, only function is to

display reactor pressure in recorder format on P680 panel.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: CR SPRAY FL

POINT ID: P41N016C

PLANT SPEC POINT DESC.: HPCS SVCE WTR PMP DISCH FLOW

GENERIC/COND DESC.: High Pressure Core Spray Flow

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: GPM

ENGR UNITS CONVERSION: Square Root (1-5v)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 1000

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N.A

SENSOR LOCATION: SSW Pump House 133' el

ALARM/TRIP SET POINTS: (200 low) (825 high)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

Y

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Alarm function only; Instrumentation available on 2870 panel for
observation of actual HPCS service water pump flow.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91
 REACTOR UNIT: GG1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: DW FD SMP LVL
 POINT ID: P45N003
 PLANT SPEC POINT DESC.: DRWL FL DRAIN SUMP LEVEL
 GENERIC/COND DESC.: Drywell Floor Drain Sump Level
 ANALOG/DIGITAL: D
 ENGR UNITS/TAG STATES: OFF ON
 (NOT HI-HI) (HI-HI)
 ENGR UNITS CONVERSION: N/A
 MINIMUM INSTR RANGE: N/A
 MAXIMUM INSTR RANGE: N/A
 ZERO POINT REFERENCE: N/A
 REFERENCE POINT NOTES: N/A
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: Drywell Floor Drain Sump 93' el
 ALARM/TRIP SET POINTS: Alarm on HI-HI
 NI DETECTOR POWER
 SUPPLY CUT-OFF POWER
 LEVEL: N/A
 NI DETECTOR POWER
 SUPPLY TURN-ON POWER
 LEVEL: N/A
 INSTRUMENT FAILURE
 MODE: (Mech.-LOW) (Elect.-HIGH)

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE (LFG):

N/A

UNIQUE SYSTEM DESC.:

Alarm function only; recorder available in control room to

monitor/calculate sump in leakage. Normal floor drain leakage .2-1.2 gpm.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: OFF GAS RAD

POINT ID: D17K602

PLANT SPEC POINT DESC.: OFF-GAS RADW BLDG VENT RADN

GENERIC/COND DESC.: Radwaste Building Vent Radiation

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: CPM

ENGR UNITS CONVERSION: Exponential (0-160mv)

MINIMUM INSTR RANGE: 10

MAXIMUM INSTR RANGE: 1,000,000

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Rdwst 136' el area 29 pnl SD17P001

ALARM/TRIP SET POINTS: (100 LOW) (490,000 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Alarm function only; instrumentation available in control room

to determine actual reading. Normal reading 100 cpm @ 100% power.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: MN STEAM RAD

POINT ID: D17L634A

PLANT SPEC POINT DESC.: MAIN STEAM LINE RADIATION

GENERIC/COND DESC.: Main Steam Line Radiation

ANALOG/DIGITAL: D

ENGR UNITS/DIG STATES: OFF ON
(NOT HIGH) (HIGH)

ENGR UNITS CONVERSION: N/A

MINIMUM INSTR RANGE: N/A

MAXIMUM INSTR RANGE: N/A

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OP SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Aux Steam Tunnel 174' ei area 7

ALARM/TRIP SET POINTS: Alarm on HIGH

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

On detection of high rad levels input to RPS for RX scram and

input to MSIV logic for valve closure; Normal reading is 500 mtr/hr at 100% power.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: DW PRESS

POINT ID: M71N001A

PLANT SPEC POINT DESC.: DRYWELL PRESSURE

GENERIC/COND DESC.: Drywell Pressure

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: PSID

ENGR UNITS CONVERSION: Linear (1-5v)

MINIMUM INSTR RANGE: -10

MAXIMUM INSTR RANGE: 40

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: DW Penetration 448, 152' el, @ Az 50° 20'

ALARM/TRIP SET POINTS: (-.15 LOW) (.45 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal drywell pressure at 100% power .1 psi

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: DW PRESS

POINT ID: M71N001B

PLANT SPEC POINT DESC.: DRYWELL PRESSURE

GENERIC/COND DESC.: Drywell Pressure

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: PSID

ENGR UNITS CONVERSION: Linear (1-5v)

MINIMUM INSTR RANGE: -19

MAXIMUM INSTR RANGE: 40

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: DW Penetration 434, 156' el. @ Az 215°30'

ALARM/TRIP SET POINTS: (-.15 LOW) (.45 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal P/W pressure is 1 at 100% RX power

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: DW TEMP

POINT ID: M71N605A

PLANT SPEC POINT DESC.: DRYWELL TEMPERATURE AZ 45

GENERIC/COND DESC.: Drywell Temperature @ Azimuth 45

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: T/C - CuCo (1-5v)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 400

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: DW Outer Wall, 166' el Az 45

ALARM/TRIP SET POINTS: (130 HIGH)

NI DETECTOR POWER
SUPPLY CU1-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal drywell temperature (average) IS 118--124 degrees F.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: DW TEMP

POINT ID: M71N605B

PLANT SPEC POINT DESC.: DRYWELL TEMPERATURE AZ 225

GENERIC/COND DESC.: Drywell Temperature @ Azimuth 225

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: T/C - CuCo (1-5v)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 400

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: DW Outer Wall, 166' el Az 225

ALARM/TRIP SET POINTS: (130 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal D/W temp (average) 118-124 degrees F.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: DW TEMP

POINT ID: M71N605C

PLANT SPEC POINT DESC.: DRYWELL TEMPERATURE AZ 115

GENERIC/COND DESC.: Drywell Temperature @ Azimuth 115

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: T/C - CuCo (1-5v)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 400

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: DW Outer Wall, 166' el Az 135

ALARM/TRIP SET POINTS: (130 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal D/W temp (average) 118-124 degrees F.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: DW TEMP

POINT ID: M71N605D

PLANT SPEC POINT DESC.: DRYWELL TEMPERATURE AZ 318

GENERIC/COND DESC.: Drywell Temperature @ Azimuth 318

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: T/C - CuCo (1-5v)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 400

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: DW Outer Wall, 166' el Az 315

ALARM/TRIP SET POINTS: (130 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal D/W temp (average) is 118-124 degrees F.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: SP TEMP

POINT ID: M71N606C

PLANT SPEC POINT DESC.: SUPPRESSION POOL TEMP AZ 40

GENERIC/COND DESC.: Supp. Pool Temp. @ Azimuth 40

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: 2nd Order Poly (1-5v)

MINIMUM INSTR RANGE: 30

MAXIMUM INSTR RANGE: 230

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: 110' c.s. Azimuth 40

ALARM/TRIP SET POINTS: (87 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal Sup. pool temp (average) is 80 degrees F.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: SP TEMP

POINT ID: M71N613C

PLANT SPEC POINT DESC.: SUPPRESSION POOL TEMP AZ 142

GENERIC/COND DESC.: Supp. Pool Temp. @ Azimuth 142

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: 2nd Order Poly (1-5v)

MINIMUM INSTR RANGE: 30

MAXIMUM INSTR RANGE: 230

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: 110' el. Azimuth 142

ALARM/TRIP SET POINTS: (87 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal Supp pool tem (average) is 80 degrees F

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: SP TEMP

POINT ID: M71N615C

PLANT SPEC POINT DESC.: SUPPRESSION POOL TEMP AZ 262

GENERIC/COND DESC.: Supp. Pool Temp. @ Azimuth 262

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: 2nd Order Poly (1-5v)

MINIMUM INSTR RANGE: 30

MAXIMUM INSTR RANGE: 230

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: 110' el, Azimuth 262

ALARM/TRIP SET POINTS: (87 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal Sup. pool temp (average) is 80 degrees F.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: SP TEMP

POINT ID: M71N616C

PLANT SPEC POINT DESC.: SUPPRESSION POOL TEMP AZ 318

GENERIC/COND DESC.: Supp. Pool Temp. @ Azimuth 318

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: 2nd Order Poly (1-5v)

MINIMUM INSTR RANGE: 30

MAXIMUM INSTR RANGE: 230

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: 110' el. Azimuth 318

ALARM/TRIP SET POINTS: (87 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal Supp. pool temp (average) is 80 degrees F.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91
 REACTOR UNIT: GG1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: SP LEVEL
 POINT ID: E30N003A
 PLANT SPEC POINT DESC.: SUPPRESSION POOL LEVEL
 GROUP 2/COND DESC.: Suppression Pool Level @ Azimuth 168
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: FT
 ENGR UNITS CONVERSION: Linear (1-5v)
 MINIMUM INSTR RANGE: 10.5
 MAXIMUM INSTR RANGE: 25.5
 ZERO POINT REFERENCE: TNKBOT
 REFERENCE POINT NOTES: Bottom of Supp. Pool (93' el)
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: Upper Tap el 122', Lower Tap el 102', Az. 168
 ALARM/TRIP SET POINTS: 7.1 (LOW)
 NI DETECTOR POWER
 SUPPLY CUT-OFF POWER
 LEVEL: N/A
 NI DETECTOR POWER
 SUPPLY TURN-ON POWER
 LEVEL: N/A
 INSTRUMENT FAILURE
 MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

WET

UNIQUE SYSTEM DESC.:

Normal Supp. pool level is 18.6 ft.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91
 REACTOR UNIT: GG1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: SP LEVEL
 POINT ID: E30N003B
 PLANT SPEC POINT DESC.: SUPPRESSION POOL LEVEL
 GENERIC/COND DESC.: Suppression Pool Level @ Azimuth 192
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: FT
 ENGR UNITS CONVERSION: Linear (1-5v)
 MINIMUM INSTR RANGE: 10.5
 MAXIMUM INSTR RANGE: 25.5
 ZERO POINT REFERENCE: TNKBOT
 REFERENCE POINT NOTES: Bottom of Supp. Pool (93' el)
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: Upper Tap el 122', Lower Tap el 102', Az. 192
 ALARM/TRIP SET POINTS: 7.1 (LOW)
 NI DETECTOR POWER
 SUPPLY CUT-OFF POWER
 LEVEL: N/A
 NI DETECTOR POWER
 SUPPLY TURN-ON POWER
 LEVEL: N/A
 INSTRUMENT FAILURE
 MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

WET

UNIQUE SYSTEM DESC.:

Normal Supp. pool level is 18.6 ft.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91
 REACTOR UNIT: GG1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: SP LEVEL
 POINT ID: E30N003C
 PLANT SPEC POINT DESC.: SUPPRESSION POOL LEVEL
 GENERIC/COND DESC.: Suppression Pool Level @ Azimuth 168
 ANALOG/DIGITAL: A
 ENGR UNIT/SLUG STATES: FT
 ENGR UNITS CONVERSION: Linear (1-5y)
 MINIMUM INSTR RANGE: 10.5
 MAXIMUM INSTR RANGE: 25.5
 ZERO POINT REFERENCE: TNKBOT
 REFERENCE POINT NOTES: Bottom of Supp. Pool (93' el)
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: Upper Tap el 122', Lower Tap el 102', Az. 168
 ALARM/TRIP SET POINTS: 7.1 (LOW)
 NI DETECTOR POWER
 SUPPLY CUT-OFF POWER
 LEVEL: N/A
 NI DETECTOR POWER
 SUPPLY TURN-ON POWER
 LEVEL: N/A
 INSTRUMENT FAILURE
 MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

WET

UNIQUE SYSTEM DESC.:

Normal Supp. pool 18.6 ft.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: SP LEVEL

POINT ID: E30N903D

PLANT SPEC POINT DESC.: SUPPRESSION POOL LEVEL

GENERIC/COND DESC.: Suppression Pool Level @ Azimuth 192

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: FT

ENGR UNITS CONVERSION: Linear (1-5v)

MINIMUM INSTR RANGE: 10.5

MAXIMUM INSTR RANGE: 25.5

ZERO POINT REFERENCE: TNKBOT

REFERENCE POINT NOTES: Bottom of Supp. Pool (93' el)

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Upper Tap el 122', Lower Tap el 102', Az. 192

ALARM/TRIP SET POINTS: 7.1 (LOW)

Ni DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

Ni DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

WET

UNIQUE SYSTEM DESC.:

Normal Supp. pool level is 18.6 ft.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERID'S PARAMETER: H2 CONC

POINT ID: E61K001A

PLANT SPEC POINT DESC.: DRYWELL HYDROGEN CONC

GENERIC/COND DESC.: Drywell Hydrogen Concentration

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: Linear (1-5y)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 10

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Aux 166' cl area 7 pnl 1E61J001A

ALARM/TRIP SET POINTS: (2 LOW) (8 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal D/W H2 concentration as indicated on control room

instrumentation is 0%

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: H2 CONC

POINT ID: E61K001B

PLANT SPEC POINT DESC.: DRYWELL HYDROGEN CONC

GENE/C/COND DESC.: Drywell Hydrogen Concentration

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: Linear (1-5v)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 10

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Aux 166' cl area 8 pnl 1E61J001B

ALARM/TRIP SET POINTS: (2 LOW) (8 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

Normal D/W H₂ concentration as indicated on control room

instrumentation is 0%.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: CST LEVEL

POINT ID: P11N003

PLANT SPEC POINT DESC.: CNDS STORAGE TK LEVEL

GENERIC/COND DESC.: Condensate Storage Tank Level

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: FT

ENGR UNITS CONVERSION: Linear (1-5y)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 40

ZERO POINT REFERENCE: COMPLX

REFERENCE POINT NOTES: 8" Above Tank Bottom

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Yard 122' el

ALARM/TRIP SET POINTS: (22.8 LOW) (25.5 HIGH)

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

DRY

UNIQUE SYSTEM DESC.:

Normal level is 25 feet but varies significantly depending

on current water usage.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: WIND SPEED

POINT ID: C841009

PLANT SPEC POINT DESC.: WIND SPEED EL 162

GENERIC/COND DESC.: Wind Speed @ Elevation 162'

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: MPH

ENGR UNITS CONVERSION: Linear (0-5v)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 100

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Met Tower 162' el .5 miles north of plant

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

None.

BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: WIND DIR

POINT ID: C84J006

PLANT SPEC POINT DESC.: WIND DIRECTION FL 162

GENERIC/COND DESC.: Wind Direction @ Elevation 162'

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEG

ENGR UNITS CONVERSION: Linear (0-5y)

MINIMUM INSTR RANGE: 0

MAXIMUM INSTR RANGE: 540

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: Met Tower 162' el .5 miles north of plant

ALARM/TRIP SET POINTS: N/A

NI DETECTOR POWER
SUPPLY CUT-OFF POWER
LEVEL: N/A

NI DETECTOR POWER
SUPPLY TURN-ON POWER
LEVEL: N/A

INSTRUMENT FAILURE
MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

None