



**ENTERGY**

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May 18, 1995

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Grand Gulf Nuclear Station

Chief, Emergency Preparedness Section  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta St., N.W., Suite 2900  
Atlanta, GA 30323

Attention: Mr. Kenneth P. Barr

Subject: Grand Gulf Nuclear Station  
Docket No. 50-416  
License No. NPF-29  
Emergency Response Data System Information

GNRO-95/00061

Gentlemen:

The implementation plan for the Grand Gulf Nuclear Station (GGNS) Emergency Response Data System (ERDS) was submitted by my letter dated March 28, 1995 (GNRO-95/00041). In accordance with the implementation plan, attached are the Computer Point to Parameter Cross Reference and the ERDS Data Point Library (DPL) for GGNS.

On April 21, 1995, GGNS re-activated the ERDS system that contained DPL changes due to the Plant Data System upgrade. In accordance with 10CFR50, Appendix E.VI.3.a, DPL changes are required to be transmitted to the NRC not later than 30 days from the date of the change.

Please contact Mr. A. C. Morgan at (601) 437-2721 should you have any questions or desire additional information concerning this matter.

Yours truly,

CRH/WBA/mtc

attachment: 1. Computer Point to Parameter Cross Reference  
2. ERDS Data Point Library

cc: (See Next Page)

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PDR ADOCK 05000416  
P PDR

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May 18, 1995  
GNRO-95/00061  
Page 2 of 3

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### 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.

\* Denotes points which have been altered

<u>NRC Parameters</u>	<u>GGNS computer points</u>	
		<u>Previous Point Id</u>
<b><u>Reactivity Control</u></b>		
NI POWER RNG .....	C51NA051 *	C51J807A
	C51NA052 *	C51J807B
	C51NA053 *	C51J807C
	C51NA054 *	C51J807D
	C51NA055 *	C51J807E
	C51NA056 *	C51J807F
	C51NA057 *	C51J807G
	C51NA058 *	C51J807H
NI INTER RNG .....	C51NC024 *	C51J700
	C51NC022 *	C51J701
NI SOURC RNG .....	C51L609	
	C51NC002 *	C51J705
<b><u>Core Cooling</u></b>		
REAC VES LEV .....	C34N017	
MAIN FD FLOW .....	C34N002A	
	C34N002B	
RCIC FLOW .....	E51L603	
<b><u>RCS Integrity</u></b>		
RCS PRESSURE .....	C34NA001 *	C34N005
HPCI FLOW .....	N/A (Control Room indicators are used to monitor flow)	
LPCI FLOW .....	E21L605	
CR SPRAY FL .....	P41N016C	
DW FD SMP LV .....	P45N003	

**Radioactivity Control**

EFF GAS RAD .....	D17K602
EFF LIQ RAD .....	N/A (Samples taken manually by Chemistry dept.)
CND A/E RAD .....	N/A (Samples taken manually by Chemistry dept.)
DW RAD .....	D23K6011 D23K6021 D23K6031
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 (Computer Points not currently available)

**Miscellaneous Parameters**

CST LEVEL .....	P11N003
WIND SPEED .....	C84J009
WIND DIR .....	C84J006
STAB CLASS .....	N/A (Computer Points not currently available)

**DATA POINT LIBRARY**

**(DPL)**

## 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 WATER 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 Cntmt 135' el, Az 20, pnl 1H22P027

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.

Top of active fuel is 167 inches below instrument 0. Instrument 0 is 533 inches above vessel 0.

## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: RCS PRESSURE

POINT ID: C34NA001

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 Cntmt 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: 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, pp' 1 H22P043 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  
 MODE: 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 'B' FW flow instrument, indicated total  
feedwater flow on P680 panel.

## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: MAIN FLOW  
 POINT ID: C34N002B  
 PLANT SPEC POINT DESC.: RTR FW LOOP B 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  
 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.:

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.

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE:	<u>4 / 21 / 92</u>
REACTOR UNIT:	<u>GG1</u>
DATA FEEDER:	<u>N/A</u>
NRC ERDS PARAMETER:	<u>NI SOURCE RNG</u>
POINT ID:	<u>C51L609</u>
PLANT SPEC POINT DESC.:	<u>SRM DOWNSCALE</u>
GENERIC/COND DESC.:	<u>Source Range Monitor Downscale</u>
ANALOG/DIGITAL:	<u>D</u>
ENGR UNITS/DIG STATES:	<u>OFF ON (RESET) (ALARM)</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>Containment Bldg 93' el. Area 11</u>
ALARM/TRIP SET POINTS:	<u>ALARM at .7 counts / sec</u>
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	<u>Point is always active.</u>
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	<u>Point is always active.</u>
INSTRUMENT FAILURE MODE:	<u>Indeterminate</u>

TEMPERATURE COMPENSATION  
FOR DP TRANSMITTER:

N/A

LEVEL REFERENCE LEG:

N/A

UNIQUE SYSTEM DESC.:

This alarm could indicate a possible channel malfunction

or insufficient source neutron levels.

## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: NI POWER RNG  
 POINT ID: C51NA051  
 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/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.:

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

## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: NI POWER RNG  
 POINT ID: C51NA052  
 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 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 C51NA051

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: NI POWER RNG  
 POINT ID: C51NA053  
 PLANT SPEC POINT DESC.: APRM C FLUX LEVEL  
 GENERIC/COND DESC.: Average Power Range Monitor C  
 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 C51NA051

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: NI POWER RNG  
 POINT ID: C51NA054  
 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 C51NA05

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: NI POWER RNG

POINT ID: C51NA055

PLANT SPEC POINT DESC.: APRM E 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 C51NA051

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95  
 REACTOR UNIT: GC1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: NI POWER RNG  
 POINT ID: C51NA056  
 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 C51NA051

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: NI POWER RNG  
 POINT ID: C51NA057  
 PLANT SPEC POINT DESC.: APRM G FLUX LEVEL  
 GENERIC/COND 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: 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 C51NA051

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: NI POWER RNG

POINT ID: C51NA058

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 C51NA051.

## BWR DATA POINT LIBRARY REFERENCE FILE

DATE:	<u>5 / 10 / 95</u>
REACTOR UNIT:	<u>GG1</u>
DATA FEEDER:	<u>N/A</u>
NRC ERDS PARAMETER:	<u>NI SOURCE RNG</u>
POINT ID:	<u>C51NC002</u>
PLANT SPEC POINT DESC.:	<u>SRM UPSCALE ALARM</u>
GENERIC/COND DESC.:	<u>Source Range Monitor Upscale Alarm</u>
ANALOG/DIGITAL:	<u>D</u>
ENGR UNITS/DIG STATES:	<u>OFF ON (NORM) (ALM)</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>Containment Bldg 93' el. Area 11</u>
ALARM/TRIP SET POINTS:	<u>ALM at 10<sup>5</sup> counts / sec</u>
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	<u>Point is always active.</u>
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	<u>Point is always active.</u>
INSTRUMENT FAILURE MODE:	<u>Indeterminate</u>



TEMPERATURE COMPENSATION  
FOR DP TRANSMITTER:

N/A

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LEVEL REFERENCE LEG:

N/A

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UNIQUE SYSTEM DESC.:

Normally this alarm will cause a rod block unless associated

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IRM channels are on range 8 or above.

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 5 / 10 / 95

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: NI INTER RNG

POINT ID: C51NC022

PLANT SPEC POINT DESC.: IRM DOWNSCALE ALARM

GENERIC/COND DESC.: Intermediate Range Monitor Downscale Alarm

ANALOG/DIGITAL: D

ENGR UNITS/DIG STATES: OFF ON  
(NORMAL) (ALM)

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: Containment Bldg 93' el. Area 11

ALARM/TRIP SET POINTS: Any IRM at less than 5/125 of scale on any range

NI DETECTOR POWER  
SUPPLY CUT-OFF POWER  
LEVEL: Point is always active.

NI DETECTOR POWER  
SUPPLY TURN-ON POWER  
LEVEL: Point is always active.

INSTRUMENT FAILURE  
MODE: Indeterminate

TEMPERATURE COMPENSATION  
FOR DP TRANSMITTER:

N/A

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LEVEL REFERENCE LEG:

N/A

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UNIQUE SYSTEM DESC.:

This point indicates a possible channel malfunction or

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power level that is below the range of indication of the IRMs.

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 05 / 10 / 95  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: NI INTER RNG  
 POINT ID: C51NC024  
 PLANT SPEC POINT DESC.: IRM UPSCALE ALARM  
 GENERIC/COND DESC.: Intermediate Range Monitor Upscale Alarm  
 ANALOG/DIGITAL: D  
 ENGR UNITS/DIG STATES: OFF ON  
(NORMAL) (ALM)  
 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: Containment Bldg 93' el. Area 11  
 ALARM/TRIP SET POINTS: Any IRM at greater than 108/125 of scale on any range  
 NI DETECTOR POWER  
 SUPPLY CUT-OFF POWER  
 LEVEL: Point is always active.  
 NI DETECTOR POWER  
 SUPPLY TURN-ON POWER  
 LEVEL: Point is always active.  
 INSTRUMENT FAILURE  
 MODE: Indeterminate

TEMPERATURE COMPENSATION  
FOR DP TRANSMITTER:

N/A

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LEVEL REFERENCE LEG:

N/A

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UNIQUE SYSTEM DESC.:

This point indicates that an IRM is out of range and warns

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of operating conditions that could lead to fuel damage.

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## 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 EL 162

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

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEG

ENGR UNITS CONVERSION: Linear (0-5v)

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.:

The degree reading of this parameter indicates the direction from

which the wind is coming from.

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## BWR DATA POINT LIBP / REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: WIND SPEED

POINT ID: C84J009

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.

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## 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 OR SENS: S  
 NUMBER OF SENSORS: 1  
 HOW PROCESSED: N/A  
 SENSOR LOCATION: Aux Steam Tunnel 174' el 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 mr/hr at 100% power.

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE:	<u>4 / 21 / 92</u>
REACTOR UNIT:	<u>GG1</u>
DATA FEEDER:	<u>N/A</u>
NRC ERDS PARAMETER:	<u>DW RAD</u>
POINT ID:	<u>D23K6011</u>
PLANT SPEC POINT DESC.:	<u>DRYWELL PARTICULATE RADN</u>
GENERIC/COND DESC.:	<u>Drywell Particulate Radiation Monitor</u>
ANALOG/DIGITAL:	<u>A</u>
ENGR UNITS/DIG STATES:	<u>CPM</u>
ENGR UNITS CONVERSION:	<u>Exponential (0-5V)</u>
MINIMUM INSTR RANGE:	<u>10</u>
MAXIMUM INSTR RANGE:	<u>1,000,000</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>Drywell 166' el.</u>
ALARM/TRIP SET POINTS:	<u>100 (Low) 1000 (High)</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

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LEVEL REFERENCE LEG:

N/A

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UNIQUE SYSTEM DESC.:

The system is located in the Auxiliary building but has tubing

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which draws air from the drywell, monitors the air, and then returns the air to the drywell.

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE:	<u>4 / 21 / 92</u>
REACTOR UNIT:	<u>GG1</u>
DATA FEEDER:	<u>N/A</u>
NRC ERDS PARAMETER:	<u>DW RAD</u>
POINT ID:	<u>D23K6021</u>
PLANT SPEC POINT DESC.:	<u>DRYWELL IODINE RADN</u>
GENERIC/COND DESC.:	<u>Drywell Iodine Radiation Monitor</u>
ANALOG/DIGITAL:	<u>A</u>
ENGR UNITS/DIG STATES:	<u>CPM</u>
ENGR UNITS CONVERSION:	<u>Exponential (0-5V)</u>
MINIMUM INSTR RANGE:	<u>10</u>
MAXIMUM INSTR RANGE:	<u>1,000,000</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>Drywell 166' el.</u>
ALARM/TRIP SET POINTS:	<u>100 (Low) 1000 (High)</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

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LEVEL REFERENCE LEG:

N/A

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UNIQUE SYSTEM DESC.:

The system is located in the Auxiliary building but has tubing

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that draws air from the drywell, monitors the air, and then returns the air to the drywell.

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE:	<u>4 / 21 / 92</u>
REACTOR UNIT:	<u>GG1</u>
DATA FEEDER:	<u>N/A</u>
NRC ERDS PARAMETER:	<u>DW RAD</u>
POINT ID:	<u>D23K6031</u>
PLANT SPEC POINT DESC.:	<u>DRYWELL GASEOUS RADN</u>
GENERIC/COND DESC.:	<u>Drywell Gaseous Radiation Monitor</u>
ANALOG/DIGITAL:	<u>A</u>
ENGR UNITS/DIG STATES:	<u>CPM</u>
ENGR UNITS CONVERSION:	<u>Exponential (0-5V)</u>
MINIMUM INSTR RANGE:	<u>10</u>
MAXIMUM INSTR RANGE:	<u>1,000,000</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>Drywell 166' el.</u>
ALARM/TRIP SET POINTS:	<u>100 (Low) 1000 (High)</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

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LEVEL REFERENCE LEG:

N/A

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UNIQUE SYSTEM DESC.:

The system is located in the Auxiliary building but has tubing

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which draws air from the drywell, monitors the air, and then returns the air to the drywell.

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE:	<u>4 / 21 / 92</u>
REACTOR UNIT:	<u>GG1</u>
DATA FEEDER:	<u>N/A</u>
NRC ERDS PARAMETER:	<u>LPCI FLOW</u>
POINT ID:	<u>E21L605</u>
PLANT SPEC POINT DESC.:	<u>LPCS SYSTEM ACTIVATION</u>
GENERIC/COND DESC.:	<u>Low Pressure Core Spray Actuated</u>
ANALOG/DIGITAL:	<u>D</u>
ENGR UNITS/DIG STATES:	<u>OFF ON (OFF) (OPERATE)</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>Control Bldg 166' el. Room OC504</u>
ALARM/TRIP SET POINTS:	<u>OPERATE is alarm</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>Indeterminate</u>

TEMPERATURE COMPENSATION  
FOR DP TRANSMITTER:

N/A

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LEVEL REFERENCE LEG:

N/A

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UNIQUE SYSTEM DESC.:

Point indicates that the LPCS system is in operation. LPCS

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is automatically initiated when reactor water level lowers to -150.3 inches or Drywell pressure

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increases to +1.39 psig. Reactor pressure must be at 300 psi or below before LPCS can provide

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core spray.

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## 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  
 GENERIC/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.

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## 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.

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## 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 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 18.6 ft

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS PARAMETER: SP LEVEL  
 POINT ID: E30N003D  
 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.

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91

REACTOR UNIT: GG1

DATA FEEDER: N/A

NRC ERDS PARAMETER: RCIC FLOW

POINT ID: E51L603

PLANT SPEC POINT DESC.: RCIC PUMP DISCHARGE FLOW

GENERIC/COND DESC.: Reactor Core Isolation Cooling Flow

ANALOG/DIGITAL: D

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

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: 26.5 Ft from Pump Discharge Flange

ALARM/TRIP SET POINTS: Alarm on 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:

N/A

UNIQUE SYSTEM DESC.:

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

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## BWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08 / 29 / 91  
 REACTOR UNIT: GG1  
 DATA FEEDER: N/A  
 NRC ERDS 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 (1-5v)  
 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' el 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.: DRYWEL , HYDROGEN CONC  
 GENERIC/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' el 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: 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

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## 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: -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 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

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

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## 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.

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## 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.

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## 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.

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## 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' el, 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.

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## 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

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## 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.

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## 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.

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## 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 (1-5v)  
 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. One foot of level is equivalent to 9677 gallons of water.

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## 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 P870 panel for  
observation of actual HPCS service water pump flow.

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## 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/DIG 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 LEG:

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.