



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381

May 14, 1999

10 CFR 50, Appendix E

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of)
Tennessee Valley Authority) Docket No. 50-390

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - EMERGENCY RESPONSE DATA
SYSTEM (ERDS) DATA POINT LIBRARY (DPL), REVISION 1

In accordance with 10 CFR 50, Appendix E, Section IV(3)(a), the ERDS Data Point Library has been revised because of a design modification that replaced the obsolete Unit 1 Westinghouse P2500 Plant Process Computer with a new plant Integrated Computer System. This modification which affected hardware and software changes, combines the plant computers into one integrated computer system. The new plant Integrated Computer System was placed in service during the Unit 1 Cycle 2 outage which ended on April 16, 1999.

The enclosure to this letter, Data Point Library, Revision 1, supersedes the Enclosure 3 [Emergency Response Data System (ERDS) Data Point Library (DPL)] provided in TVA's letter dated November 9, 1995.

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U.S. Nuclear Regulatory Commission
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There are no commitments identified in this letter. If you should have any questions, please contact me at (423) 365-1824.

Sincerely,

Rebecca M Mays

for P. L. Pace
Manager, Licensing and
Industry Affairs

Enclosure

cc(Enclosure):

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50-390

WATTS BAR 1

TVA

Rev 1 to Watts Bar Nuclear Plant Unit 1
Emergency Response Data System (ERDS)
Data Point Library, IAW 10CFR50 App E...

Rcvd w/ltr dtd 5/14/99...9905240042

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-NOTICE-

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
 EMERGENCY RESPONSE DATA SYSTEM (ERDS)
 DATA POINT LIBRARY (DPL)
 REVISION 1

ERDS POINT NO.	NRC ERDS PARAMETER	POINT ID	PLANT SPECIFIC POINT DESCRIPTION
1		SIMULATION	INDICATES REAL OR SIMULATED DATA
2	NI POWER RNG	UN2000	POWER RNG AVG
3	NI INTER RNG	UN1015	INTER RNG FLUX
4	NI SOURC RNG	UN1014	SOURCE RNG FLUX
5	REAC VES LEV	QC0117	RVLIS MINIMUM
6	TEMP CORE EX	QC0509	CORE EXIT TEMP MAX
7	SUB MARGIN	QC0107	MIN SUBCOOL
8	SG LEVEL 1/A	UL1001	SG 1 NR LEVEL AVG
9	SG LEVEL 2/B	UL1002	SG 2 NR LEVEL AVG
10	SG LEVEL 3/C	UL1003	SG 3 NR LEVEL AVG
11	SG LEVEL 4/D	UL1004	SG 4 NR LEVEL AVG
12	SG PRESS 1/A	UP1002	SG 1 MS PRESSURE AVG
13	SG PRESS 2/B	UP1003	SG 2 MS PRESSURE AVG
14	SG PRESS 3/C	UP1004	SG 3 MS PRESSURE AVG
15	SG PRESS 4/D	UP1005	SG 4 MS PRESSURE AVG
16	MN FD FL 1/A	U0410	SG 1 FW FLOW AVG
17	MN FD FL 2/B	U0430	SG 2 FW FLOW AVG
18	MN FD FL 3/C	U0450	SG 3 FW FLOW AVG
19	MN FD FL 4/D	U0470	SG 4 FW FLOW AVG
20	AX FW FL 1/A	Y0708A	STM GEN 1 AFW INLET FLOW
21	AX FW FL 2/B	Y0704A	STM GEN 2 AFW INLET FLOW
22	AX FW FL 3/C	Y0703A	STM GEN 3 AFW INLET FLOW
23	AX FW FL 4/D	Y0709A	STM GEN 4 AFW INLET FLOW
24	HL TEMP 1/A	T0419A	RCS LOOP 1 HOT LEG TEMP
25	HL TEMP 2/B	T0439A	RCS LOOP 2 HOT LEG TEMP
26	HL TEMP 3/C	T0459A	RCS LOOP 3 HOT LEG TEMP
27	HL TEMP 4/D	T0479A	RCS LOOP 4 HOT LEG TEMP
28	CL TEMP 1/A	T0406A	RCS LOOP 1 COLD LEG TEMP
28	CL TEMP 1/A	T0406A	RCS LOOP 1 COLD LEG TEMP
29	CL TEMP 2/B	T0426A	RCS LOOP 2 COLD LEG TEMP
30	CL TEMP 3/C	T0446A	RCS LOOP 3 COLD LEG TEMP
31	CL TEMP 4/D	T0466A	RCS LOOP 4 COLD LEG TEMP
32	RCS PRESSURE	UP1000	RCS WIDE RNG PRESS AVG
33	PRZR LEVEL	QI0111	PRZR LEV AVG
34	RCS CHG/MU	UF1016	NET CHG FLO
35	HP SI FLOW	UF1010	SI FLOW TOTAL
36	LP SI FLOW	UF1011	RHR FLO TO TOTAL COLD LEG
37	CNTMT SMP WR	UL1011	CNTMT SUMP LEV AVG
38	EFF GAS RAD	R9101A	SHIELD BLDG VENT MON EFF RATE
39	EFF GAS RAD	R9102A	SHIELD BLDG VENT MON EFF RATE
40	EFF LIQ RAD	R1022A	WDS LIQUID EFFLUENT MON

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
 EMERGENCY RESPONSE DATA SYSTEM (ERDS)
 DATA POINT LIBRARY (DPL)
 REVISION 1

41	COND A/E RAD	R9061A	COND VAC VENT NOBLE GAS RAD MON
42	COND A/E RAD	R0001A	COND VAC VENT NOBLE GAS RAD MON
43	COND A/E RAD	R9062A	COND VAC VENT NOBLE GAS RAD MON
44	CNTMNT RAD	QZ0104	UPPER CONTAINMENT RADIATION
45	CNTMNT RAD	QZ0111	LOWER CONTAINMENT RADIATION
46	MAIN SL 1/A	R9055A	ST GEN 1 DISCH RAD MON
47	MAIN SL 2/B	R9056A	ST GEN 2 DISCH RAD MON
48	MAIN SL 3/C	R9057A	ST GEN 3 DISCH RAD MON
49	MAIN SL 4/D	R9058A	ST GEN 4 DISCH RAD MON
50	SG BD RAD 1A	R1020A	STEAM GEN BLDN MON
51	SG BD RAD 2B	R1021A	STEAM GEN BLDN MON
52	CTMNT PRESS	UP6000	CNTMT PRESSURE AVG
53	CTMNT TEMP	U2515	CTMNT HIGHEST TEMP
54	H2 CONC	UY1005	H2 CONC AVG
55	RWST LEVEL	UL1000	RWST LEVEL AVG
56	WIND SPEED	MET001	91M VECTOR WIND SPEED (15 MIN AVG)
57	WIND SPEED	MET002	46M VECTOR WIND SPEED (15 MIN AVG)
58	WIND SPEED	MET003	10M VECTOR WIND SPEED (15 MIN AVG)
59	WIND DIR	MET004	91M VECTOR WIND DIR (15 MIN AVG)
60	WIND DIR	MET005	46M VECTOR WIND DIR (15 MIN AVG)
61	WIND DIR	MET006	10M VECTOR WIND DIR (15 MIN AVG)
62	STAB CLASS	MET007	STABILITY CLASS UPPER
63	STAB CLASS	MET008	STABILITY CLASS INTERMEDIATE
64	STAB CLASS	MET009	STABILITY CLASS LOWER
65	SG LEVEL 1/A	L0403A	STM GEN #1 LEVEL XMTR
66	SG LEVEL 2/B	L0423A	STM GEN #2 LEVEL XMTR
67	SG LEVEL 3/C	L0443A	STM GEN #3 LEVEL XMTR
68	SG LEVEL 4/D	L0463A	STM GEN #4 LEVEL XMTR
69	NL	U0400	RC LOOP #1 AVG FLOW
70	NL	U0420	RC LOOP #2 AVG FLOW
71	NL	U0440	RC LOOP #3AVG FLOW
72	NL	U0420	RC LOOP #4AVG FLOW

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 1.
SIMULATION
INDICATES REAL OR SIMULATED DATA

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: Not Listed
Point ID: SIMULATION
Plant Spec Point Desc: INDICATES REAL OR SIMULATED DATA
Generic/Cond Desc: Real or Simulated Data

Analog/Digital: D
Engr Units/Dig States: REAL/SIMUL
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: P
Number of Sensors: 0
How Processed: 0 IF REAL, 1 IF SIMULATED
Sensor Locations: N/A
Alarm/Trip Setpoint: N/

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: This point is used to indicate whether the data is coming from the unit or from the simulator.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 2.
NI POWER RNG
UN2000
Reactor Power

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: NI POWER RNG
Point ID: UN2000
Plant Spec Point Desc: POWER RNG AVG
Generic/Cond Desc: Reactor Power

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 10V = 0 - 120% power (linear)
Minimum Instr Range: 0
Maximum Instr Range: 120
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Average
Sensor Locations: Excore detectors
Alarm/Trip Setpoint: Overpower reactor trip = 109%

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Probable downscale (no forcing function)
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: From ICS inputs for 1-NE-92-41,42,43,44.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 3.

NI INTER RNG

UN1015

Reactor Power - Intermediate Rng

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: NI INTER RNG
Point ID: UN1015
Plant Spec Point Desc: INTER RNG FLUX
Generic/Cond Desc: Reactor Power - Intermediate Rng

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 5 V = 1E-8 - 200% power (log)
Minimum Instr Range: 1E-8
Maximum Instr Range: 200
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: AZ 0 degree and 180 degree excore
Alarm/Trip Setpoint: Reactor trip - 25% power

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Probable downscale (no forcing function)
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Average of NMD-92-135-D and NMD-92-136-E (channel N36).

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 4.
NI SOURC RNG
UN1014
Reactor Power - Source Rng

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: NI SOURC RNG
Point ID: UN1014
Plant Spec Point Desc: SOURCE RNG FLUX
Generic/Cond Desc: Reactor Power - Source Rng

Analog/Digital: A
Engr Units/Dig States: CPS
Engr Units Conversion: 0 - 5V = 1 - 1E+06 CPS (log)
Minimum Instr Range: 1
Maximum Instr Range: 1E+06
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: AZ 0 degree and 180 degree excore
Alarm/Trip Setpoint: Reactor trip - 10E5 CPS

NID Power Cut-Off Level: 1.66×10^{-4}
NID Power Cut-On Level: 1.49×10^{-4}
Instrument Failure Mode: Probable downscale (no forcing function)
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Average of NMD-92-131-D and NMD-92-132-E detectors.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 5.
REAC VES LEV
QC0117
Reactor Vessel Water Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: REAC VES LEV
Point ID: QC0117
Plant Spec Point Desc: RVLIS MINIMUM
Generic/Cond Desc: Reactor Vessel Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 10V = 0 - 100% (linear)
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: RV BOT
Reference Point Notes: TAF = 62%

PROC or SENS: P
Number of Sensors: 2
How Processed: Minimum
Sensor Locations: Remote location in the penetration rooms
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: This is provided by D/A output from the Westinghouse ICCM system. Minimum of LCP-94-7902 and LCP-94-8002. Top of core = 62%.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 6.
TEMP CORE EX
QC0509
Highest Core Exit Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: TEMP CORE EX
Point ID: QC0509
Plant Spec Point Desc: CORE EXIT TEMP MAX
Generic/Cond Desc: Highest Core Exit Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 0 - 10V = 40 - 2300 DEGF (linear)
Minimum Instr Range: 40
Maximum Instr Range: 2300
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 65
How Processed: Highest
Sensor Locations: Core exit
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Provided through Westinghouse ICCM system. Highest of 65 incore thermocouples.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 7.
SUB MARGIN
QC0107
Saturation Temp - Highest CET

Date: 04/30/99
Reactor Unit: WB1
Data feeder: N/A
NRC ERDS Parameter: SUB MARGIN
Point ID: QC0107
Plant Spec Point Desc: MIN SUBCOOL
Generic/Cond Desc: Saturation Temp - Highest CET

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 0 - 10V = -35 - 200 DEGF (linear)
Minimum Instr Range: -35
Maximum Instr Range: 200
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Minimum
Sensor Locations: N/A
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Provided by Westinghouse ICCM system. Minimum of LCP-94-7902 (T4003) and LCP-94-8002 (T4004).

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 8.
SG LEVEL 1/A
UL1001
Steam Generator 1 Water Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG LEVEL 1/A
Point ID: UL1001
Plant Spec Point Desc: SG 1 NR LEVEL AVG
Generic/Cond Desc: Steam Generator 1 Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 100% NR = 0" - 233" NR = 321" - 554" WR
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: See "Unique System Desc."
Reference Point Notes: 0% NR = 5 inches above "U" tubes

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Remote location outside of polar crane wall
Alarm/Trip Setpoints: Low at 17%

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: Steam Generator 1 water level. Average of 1-LT-3-39 and -42.
0-100% span on steam generator narrow range level transmitters correspond to 58-100% span on wide range level instrumentation.
Top of "U" tubes is approximately 57% on the wide range span; therefore, the entire narrow range span is above the "U" tubes.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 9.
SG LEVEL 2/B
UL1002
Steam Generator 2 Water Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG LEVEL 2/B
Point ID: UL1002
Plant Spec Point Desc: SG 2 NR LEVEL AVG
Generic/Cond Desc: Steam Generator 2 Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 100% NR = 0" - 233" NR = 321" - 554" WR
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: See "Unique System Desc."
Reference Point Notes: 0% NR = 5 inches above "U" tubes

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Remote location outside of polar crane wall
Alarm/Trip Setpoints: Low at 17%

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: Steam Generator 2 water level. Average of 1-LT-3-52 and -55. 0-100% span on steam generator narrow range level transmitters correspond to 58-100% span on the wide range level instrumentation. Top of "U" tubes is approximately 57% on the wide range span; therefore, the entire narrow range span is above the "U" tubes.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 10.
SG LEVEL 3/C
UL1003
Steam Generator 3 Water Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG LEVEL 3/C
Point ID: UL1003
Plant Spec Point Desc: SG 3 NR LEVEL AVG
Generic/Cond Desc: Steam Generator 3 Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 100% NR = 0" - 233" NR = 321" - 554" WR
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: See "Unique System Desc."
Reference Point Notes: 0% NR = 5 inches above "U" tubes

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Remote location outside of polar crane wall
Alarm/Trip Setpoints: Low at 17%

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: Steam Generator 3 water level. Average of 1-LT-3-94 and -97. 0-100% span on steam generator narrow range level transmitters correspond to 58-100% span on the wide range level instrumentation. Top of "U" tubes is approximately 57% on the wide range span; therefore, the entire narrow range span is above the "U" tubes.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY (DPL) REVISION 1

ERDS Point Number 11.
SG LEVEL 4/D
UL1004
Steam Generator 4 Water Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG LEVEL 4/D
Point ID: UL1004
Plant Spec Point Desc: SG 4 NR LEVEL AVG
Generic/Cond Desc: Steam Generator 4 Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 100% NR = 0" - 233" NR = 321" - 554" WR
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: See "Unique System Desc."
Reference Point Notes: 0% NR = 5 inches above "U" tubes

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Remote location outside of polar crane wall
Alarm/Trip Set Points: Low at 17%

NID power cutoff level: N/A
NID power cut-on level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: Steam Generator 4 water level. Average of 1-LT-3-107 and -110. 0-100% span on steam generator narrow range level transmitters corresponds to 58-100% span on the wide range level instrumentation. Top of "U" tubes is approximately 57% on the wide range span; therefore, the entire narrow range span is above the "U" tubes.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 12.
SG PRESS 1/A
UP1002
Steam Generator 1 Pressure

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG PRESS 1/A
Point ID: UP1002
Plant Spec Point Desc: SG 1 MS PRESSURE AVG
Generic/Cond Desc: Steam Generator 1 Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 1300
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Remote location in penetration room
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: Steam Generator 1 pressure. Average of 1-PT-1-2A and 1-PT-1-2B.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 13.
SG PRESS 2/B
UP1003
Steam Generator 2 Pressure

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG PRESS 2/B
Point ID: UP1003
Plant Spec Point Desc: SG 2 MS PRESSURE AVG
Generic/Cond Desc: Steam Generator 2 Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 1300
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Remote location in north valve room
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: Steam Generator 2 pressure. Average of 1-PT-1-9A and 1-PT-1-9B.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 14.
SG PRESS 3/C
UP1004
Steam Generator 3 Pressure

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG PRESS 3/C
Point ID: UP1004
Plant Spec Point Desc: SG 3 MS PRESSURE AVG
Generic/Cond Desc: Steam Generator 3 Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 1300
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Remote location in north valve room
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: Steam Generator 3 pressure. Average of 1-PT-1-20A and 1-PT-1-20B.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 15.
SG PRESS 4/D
UP1005
Steam Generator 4 Pressure

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG PRESS 4/D
Point ID: UP1005
Plant Spec Point Desc: SG 4 MS PRESSURE AVG
Generic/Cond Desc: Steam Generator 4 Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 1300
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Remote location in penetration room
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: Steam Generator 4 pressure. Average of 1-PT-1-27A and 1-PT-1-27B.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 16.
MN FD FL 1/A
U0410
Stm Gen 1 Main Feedwater Flow

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: MN FD FL 1/A
Point ID: U0410
Plant Spec Point Desc: SG 1 FW FLOW AVG
Generic/Cond Desc: Stm Gen 1 Main Feedwater Flow

Analog/Digital: A
Engr Units/Dig States: MBH
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 4.50
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Stm Gen Feedwater Line 1, Aux Bldg
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: Steam Generator 1 main feedwater flow. Average of 1-FT-3-35A and 1-FT-3-35B.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 17.
MN FD FL 2/B
U0430
Stm Gen 2 Main Feedwater Flow

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: MN FD FL 2/B
Point ID: U0430
Plant Spec Point Desc: SG 2 FW FLOW AVG
Generic/Cond Desc: Stm Gen 2 Main Feedwater Flow

Analog/Digital: A
Engr Units/Dig States: MBH
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 4.50
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Stm Gen Feedwater Line 2, Aux Bldg
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: Steam Generator 2 main feedwater flow. Average of 1-FT-3-48A and 1-FT-3-48B.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 18.
MN FD FL 3/C
U0450
Stm Gen 3 Main Feedwater Flow

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: MN FD FL 3/C
Point ID: U0450
Plant Spec Point Desc: SG 3 FW FLOW AVG
Generic/Cond Desc: Stm Gen 3 Main Feedwater Flow

Analog/Digital: A
Engr Units/Dig States: MBH
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 4.50
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Stm Gen Feedwater Line 3, Aux Bldg
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: Steam Generator 3 main feedwater flow. Average of 1-FT-3-90A and 1-FT-3-90B.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 19.
MN FD FL 4/D
U0470
Stm Gen 4 Main Feedwater Flow

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: MN FD FL 4/D
Point ID: U0470
Plant Spec Point Desc: SG 4 FW FLOW AVG
Generic/Cond Desc: Stm Gen 4 Main Feedwater Flow

Analog/Digital: A
Engr Units/Dig States: MBH
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 4.50
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Stm Gen Feedwater Line 4, Aux Bldg
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: Y
Level Reference Leg: WET

Unique System Desc: Steam Generator 4 main feedwater flow. Average of
1-FT-3-103A and 1-FT-3-103B.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 20.
AX FW FL 1/A
Y0708A
Stm Gen 1 Auxiliary FW Flow

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: AX FW FL 1/A
Point ID: Y0708A
Plant Spec Point Desc: STM GEN 1 AFW INLET FLOW
Generic/Cond Desc: Stm Gen 1 Auxiliary FW Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: 100-500 MV = 0-700 GPM
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Downstream of MDAFW, TDAFW tie to S/G 1
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: There are two (2) electric and one (1) turbine-driven AFWPS. Each electric pump feeds two (2) steam generators and the turbine-driven pump feeds all four (4) steam generators. The electric and turbine-driven AFWPS share the same piping to each steam generator. The flow element is located in the shared piping.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 21.
AX FW FL 2/B
Y0704A
Stm Gen 2 Auxiliary FW Flow

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: AX FW FL 2/B
Point ID: Y0704A
Plant Spec Point Desc: STM GEN 2 AFW INLET FLOW
Generic/Cond Desc: Stm Gen 2 Auxiliary FW Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: 100-500 MV = 0-700 GPM
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Downstream of MDAFW, TDAFW tie to S/G 2
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: There are two (2) electric and one (1) turbine-driven AFWPS. Each electric pump feeds two (2) steam generators, and the turbine-driven pump feeds all four (4) steam generators. The electric and turbine-driven AFWPS share the same piping to each steam generator. The flow element is located in the shared piping.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 22.
AX FW FL 3/C
Y0703A
Stm Gen 3 Auxiliary FW Flow

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: AX FW FL 3/C
Point ID: Y0703A
Plant Spec Point Desc: STM GEN 3 AFW INLET FLOW
Generic/Cond Desc: Stm Gen 3 Auxiliary FW Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: 100-500 MV = 0-700 GPM
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Downstream of MDAPFW, TDAFW tie to S/G 3
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: There are two (2) electric and one (1) turbine-driven AFWPS. Each electric pump feeds two (2) steam generators and the turbine-driven pump feeds all four (4) steam generators. The electric and turbine-driven AFWPS share the same piping to each steam generator. The flow element is located in the shared piping.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 23.
AX FW FL 4/D
Y0709A
Stm Gen 4 Auxiliary FW Flow

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: AX FW FL 4/D
Point ID: Y0709A
Plant Spec Point Desc: STM GEN 4 AFW INLET FLOW
Generic/Cond Desc: Stm Gen 4 Auxiliary FW Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: 100-500 MV = 0-700 GPM
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Downstream of MDAFW, TDAFW tie to S/G 4
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: There are two (2) electric and one (1) turbine-driven AFWPS. Each electric pump feeds two (2) steam generators, and the turbine-driven pump feeds all four (4) steam generators. The electric and turbine-driven AFWPs share the same piping to each steam generator. The flow element is located in the shared piping.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 24.
HL TEMP 1/A
T0419A
Stm Gen 1 Inlet Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: HL TEMP 1/A
Point ID: T0419A
Plant Spec Point Desc: RCS LOOP 1 HOT LEG TEMP
Generic/Cond Desc: Stm Gen 1 Inlet Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 1-5 VDC = 0-700 DEGF
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: On Loop 1 RCS hot leg piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS hot leg temperature is used in event of recovery to provide information for manual control of RCS temperature, control of the Emergency Core Cooling System (ECCS) pumps and Reactor Coolant Pumps (RCPs), and to verify natural circulation or increase blow down. The temperature indication is also used to control RCS pressure and temperature within required limits.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 25.

HL TEMP 2/B

T0439A

Stm Gen 2 Inlet Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: HL TEMP 2/B
Point ID: T0439A
Plant Spec Point Desc: RCS LOOP 2 HOT LEG TEMP
Generic/Cond Desc: Stm Gen 2 Inlet Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 1-5 VDC = 0-700 DEGF
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: On Loop 2 RCS hot leg piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS hot leg temperature is used in event of recovery to provide information for manual control of RCS temperature, control of the ECCS pumps and RCPs, and to verify natural circulation or increase blow down. The temperature indication is also used to control RCS pressure and temperature within required limits.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 26.

HL TEMP 3/C

T0459A

Stm Gen 3 Inlet Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: HL TEMP 3/C
Point ID: T0459A
Plant Spec Point Desc: RCS LOOP 3 HOT LEG TEMP
Generic/Cond Desc: Stm Gen 3 Inlet Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 1-5 VDC = 0-700 DEGF
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: On Loop 3 RCS hot leg piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS hot leg temperature is used in event of recovery to provide information for manual control of RCS temperature, control of ECCS pumps and RCPs, and to verify natural circulation or increase blow down. The temperature indication is also used to control RCS pressure and temperature within required limits.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 27.
HL TEMP 4/D
T0479A
Stm Gen 4 Inlet Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: HL TEMP 4/D
Point ID: T0479A
Plant Spec Point Desc: RCS LOOP 4 HOT LEG TEMP
Generic/Cond Desc: Stm Gen 4 Inlet Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 1-5 VDC = 0-700 DEGF
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: On Loop 4 RCS hot leg piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS hot leg temperature is used in event of recovery to provide information for manual control of RCS temperature, control of ECCS pumps and RCPs, and to verify natural circulation or increase blow down. The temperature indication is also used to control RCS pressure and temperature within required limits.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 28.
CL TEMP 1/A
T0406A
Stm Gen 1 Outlet Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CL TEMP 1/A
Point ID: T0406A
Plant Spec Point Desc: RCS LOOP 1 COLD LEG TEMP
Generic/Cond Desc: Stm Gen 1 Outlet Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 1-5 VDC = 0-700 DEGF
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: On Loop 1 RCS cold leg piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS cold leg temperature is used in event of recovery to maintain proper relationship between RCS pressure and temperature while cooling down, and to provide information to manually control RCS temperature by controlling Auxiliary Feedwater (AFW) flow, steam generator pressure, and Residual Heat Removal (RHR). The temperature indication is also used in maintaining stable plant conditions and verifying natural circulation.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 29.
CL TEMP 2/B
T0426A
Stm Gen 2 Outlet Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CL TEMP 2/B
Point ID: T0426A
Plant Spec Point Desc: RCS LOOP 2 COLD LEG TEMP
Generic/Cond Desc: Stm Gen 2 Outlet Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 1-5 VDC = 0-700 DEGF
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: On Loop 2 RCS cold leg piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS cold leg temperature is used in event of recovery to maintain proper relationship between RCS pressure and temperature while cooling down, and to provide information to manually control RCS temperature by controlling AFW flow, steam generator pressure, and RHR. The temperature indication is also used in maintaining stable plant conditions and verifying natural circulation.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 30.
CL TEMP 3/C
T0446A
Stm Gen 3 Outlet Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CL TEMP 3/C
Point ID: T0446A
Plant Spec Point Desc: RCS LOOP 3 COLD LEG TEMP
Generic/Cond Desc: Stm Gen 3 Outlet Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 1-5 VDC = 0-700 DEGF
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: On Loop 3 RCS cold leg piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS cold leg temperature is used in event of recovery to maintain proper relationship between RCS pressure and temperature while cooling down, and to provide information to manually control RCS temperature by controlling AFW flow, steam generator pressure, and RHR. The temperature indication is also used in maintaining stable plant conditions and verifying natural circulation.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS point number 31.
CL TEMP 4/D
T0466A
Stm Gen 4 Outlet Temp

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CL TEMP 4/D
Point ID: T0466A
Plant Spec Point Desc: RCS LOOP 4 COLD LEG TEMP
Generic/Cond Desc: Stm Gen 4 Outlet Temp

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: 1-5 VDC = 0-700 DEGF
Minimum Instr Range: 0
Maximum Instr Range: 700
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: On Loop 4 RCS cold leg piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS cold leg temperature is used in event of recovery to maintain proper relationship between RCS pressure and temperature while cooling down, and to provide information to manually control RCS temperature by controlling AFW flow, steam generator pressure, and RHR. The temperature indication is also used in maintaining stable plant conditions and verifying natural circulation.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 32.
RCS PRESSURE
UP1000
Reactor Coolant System Pressure

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: RCS PRESSURE
Point ID: UP1000
Plant Spec Point Desc: RCS WIDE RNG PRESS AVG
Generic/Cond Desc: Reactor Coolant System Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units Conversion: 1-5 VDC = 0-3000 PSIG
Minimum Instr Range: 0
Maximum Instr Range: 3000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: RCS Hot Legs 1 and 3
Alarm/Trip Setpoints: Low:1970 psig, Rx trip; High:2385 psig, Rx trip

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: RCS pressure determined by this point is the average of two (2) signals which measure wide range hot leg pressures (1-PT-68-63 and -64). RCS pressure indication is utilized by the operators to identify events for Safety Injection (SI) actuation and termination, starting and stopping RHR pumps, and controlling cooldown to prevent PTS. The alarm trip setpoints are actuated by pressurized pressure transmitters at the given setpoints.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 33:
PRZR LEVEL
QI0111
Primary System Pressurizer Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: PRZR LEVEL
Point ID: QI0111
Plant Spec Point Desc: PRZR LEV AVG
Generic/Cond Desc: Primary System Pressurizer Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 1-5 V = 0-100%
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: See "Unique System Desc."
Reference Point Notes: Top of Heater = 14%

PROC or SENS: P
Number of Sensors: 3
How Processed: Average
Sensor Locations: TAPs from Pressurizer
Alarm/Trip Setpoints: High at 92% reactor trip

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: The pressurizer level is an averaged signal from three (3) level transmitters (1-LT-68-320, -335, -339). Zero reference is bottom of cylindrical shell.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS point number 34.
RCS CHG/MU
UF1016
Primary System Charging/Makeup

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: RCS CHG/MU
Point ID: UF1016
Plant Spec Point Desc: NET CHG FLO
Generic/Cond Desc: Primary System Charging/Makeup

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A
Minimum Instr Range: -200
Maximum Instr Range: 176
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 6
How Processed: Subtraction
Sensor Locations: Charging pump, RCP seal/return, RCS letdown
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Multiple, due to number of sensors
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: The net charging flow is calculated by subtracting RCP seal return and CVCS letdown flow from the discharge flow of the charging pump.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 35.
HP SI FLOW
UF1010
High Pressure Safety Injection Flow

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: HP SI FLOW
Point ID: UF1010
Plant Spec Point Desc: SI FLOW TOTAL
Generic/Cond Desc: High Pressure Safety Injection Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 1600
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Sum
Sensor Locations: Discharge of Safety Injection (SI) pumps
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N.
Level Reference Leg: N/A

Unique System Desc: The total flow is measured by adding the discharge flow rates from two (2) SI pumps. The total accident flow rates for cold leg injection or recirculation and hot leg recirculation can be monitored by this point (sum of 1-FT-63-20 and -151).

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 36.
LP SI FLOW
UF1011
Low Pressure Safety Injection Flow

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: LP SI FLOW
Point ID: UF1011
Plant Spec Point Desc: RHR FLO TO TOTAL COLD LEG
Generic/Cond Desc: Low Pressure Safety Injection Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 11000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Average
Sensor Locations: RHR Cold Legs 2,3, and 1,4 Piping
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: The RHR cold leg flow rate value is calculated by summing the flow from Cold Legs 2 and 3 with the flow from Cold Legs 1 and 4. Flow sensors include 1-FT-63-91A and -91B, 1-FT-63-92A and -92B.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS point number 37.
CNTMT SMP WR
UL1011
Containment Sump Wide Rng Level

Date: O4/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CNTMT SMP WR
Point ID: UL1011
Plant Spec Point Desc: CNTMT SUMP LEV AVG
Generic/Cond Desc: Containment Sump Wide Range Level

Analog/Digital: A
Engr Units/Dig States: INCHES
Engr Units Conversion: 1-5 V = 0-200 INCHES
Minimum Instr Range: 0
Maximum Instr Range: 200
Zero Point Reference: CNTFLR
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Average, redundant sensor algorithm
Sensor Locations: Containment sump
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: The containment average sump level is calculated by a redundant sensor algorithm using four (4) sump level transmitters (LT-63-180, -181, -182 and -183).

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 38.
EFF GAS RAD
R9101A
Release Rate of Radioactive Gases

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: EFF GAS RAD
Point ID: R9101A
Plant Spec Point Desc: SHIELD BLDG VENT MON EFF RATE
Generic/Cond Desc: Release Rate of Radioactive Gases

Analog/Digital: A
Engr Units/Dig States: mCi/sec
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E-2 mCi/sec
Maximum Instr Range: 1.0E10 mCi/sec
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Sample activity times exhaust flow rate
Sensor Locations: Auxiliary Building
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Release rate for Unit 1 Shield Building exhaust via Purge-A, Purge-B, ABGTS-A, EGTS and Waste Gas. See R9102A for ABGTS-B via Unit 2 Shield Building exhaust.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 39.
EFF GAS RAD
R9102A
Release Rate of Radioactive Gases

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: EFF GAS RAD
Point ID: R9102A
Plant Spec Point Desc: SHIELD BLDG VENT MON EFF RATE
Generic/Cond Desc: Release Rate of Radioactive Gases

Analog/Digital: A
Engr Units/Dig States: mCi/sec
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E-2 mCi/sec
Maximum Instr Range: 1.0E10 mCi/sec
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Sample activity times exhaust flow rate
Sensor Locations: Auxiliary Building
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Release rate for ABGTS-B through Unit 2 Shield Building exhaust.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 40.
EFF LIQ RAD
R1022A
Radioactivity of Released Liquid

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: EFF LIQ RAD
Point ID: R1022A
Plant Spec Point Desc: WDS LIQUID EFFLUENT MON
Generic/Cond Desc: Radioactivity of Released Liquid

Analog/Digital: A
Engr Units/Dig States: CPM
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E1
Maximum Instr Range: 1.0E7
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Antilog
Sensor Locations: Auxiliary Building
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Waste Disposal System liquid effluent. This computer point is in counts per minute (cpm).

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 41.
COND A/E RAD
R9061A
Cond Air Ejector Radioactivity

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: COND A/E RAD
Point ID: R9061A
Plant Spec Point Desc: COND VAC VENT NOBLE GAS RAD MON
Generic/Cond Desc: Cond Air Ejector Radioactivity

Analog/Digital: A
Engr Units/Dig States: CPM
Engr Units Conversion: N/A
Minimum Instr Range: 10
Maximum Instr Range: 1.0E6
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Turbine Building
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Condenser Air Ejector Mid-Range Noble Gas Monitor. This is one of three computer points needed to cover full range, required for Condenser Air Ejector Radiation.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 42.
COND A/E RAD
R0001A
Cond Air Ejector Radioactivity

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: COND A/E RAD
Point ID: R0001A
Plant Spec Point Desc: COND VAC VENT NOBLE GAS RAD MON
Generic/Cond Desc: Cond Air Ejector Radioactivity

Analog/Digital: A
Engr Units/Dig States: CPM
Engr Units Conversion: N/A
Minimum Instr Range: 10
Maximum Instr Range: 1.0E7
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Antilog
Sensor Locations: Turbine Building
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Condenser Air Ejector Low Range Noble Gas Monitor. This is one of three computer points needed to cover full range, required for Condenser Air Ejector Radiation.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 43.
COND A/E RAD
R9062A
Cond Air Ejector Radioactivity

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: COND A/E RAD
Point ID: R9062A
Plant Spec Point Desc: COND VAC VENT NOBLE GAS RAD MON
Generic/Cond Desc: Cond Air Ejector Radioactivity

Analog/Digital: A
Engr Units/Dig States: CPM
Engr Units Conversion: N/A
Minimum Instr Range: 10
Maximum Instr Range: 1.0E6
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Turbine Building
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Condenser Air Ejector High-Range Noble Gas Monitor. This is one of three computer points needed to cover full range, required for Condenser Air Ejector Radiation.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 44.
CNTMNT RAD
QZ0104
Containment Radiation Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CNTMNT RAD
Point ID: QZ0104
Plant Spec Point Desc: UPPER CONTAINMENT RADIATION
Generic/Cond Desc: Containment Radiation Level

Analog/Digital: A
Engr Units/Dig States: R/hour
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E0 R/hour
Maximum Instr Range: 1.0E8 R/hour
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average of Antilog
Sensor Locations: Upper containment
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Upper Containment High Range Area Monitor. Inputs are 1-RE-90-271 and 1-RE-90-272.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 45.
CNTMNT RAD
QZ0111
Lower Containment Radiation Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CNTMNT RAD
Point ID: QZ0111
Plant Spec Point Desc: LOWER CONTAINMENT RADIATION
Generic/Cond Desc: Lower Containment Radiation Level

Analog/Digital: A
Engr Units/Dig States: R/hour
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E0 R/hour
Maximum Instr Range: 1.0E8 R/hour
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average of Antilog
Sensor Locations: Lower containment
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Lower Containment High Range Area Monitor. Inputs are 1-RE-90-273 and 1-RE-90-274.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 46.
MAIN SL 1/A
R9055A
Stm Gen 1 Steam Line Rad Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: MAIN SL 1/A
Point ID: R9055A
Plant Spec Point Desc: ST GEN 1 DISCH RAD MON
Generic/Cond Desc: Stm Gen 1 Steam Line Rad Level

Analog/Digital: A
Engr Units/Dig States: mR/hr
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E-02
Maximum Instr Range: 1.0E+07
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Antilog
Sensor Locations: Main Steam Line Loop 1 prior to ATM reliefs
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Main Steam Line 1 radioactivity monitor (Rad Monitor
1-RM-90-421). Sensitivity is 3.72E-03 mCi/cc per mR/hr.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 47.
MAIN SL 2/B
R9056A
Stm Gen 2 Steam Line Rad Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: MAIN SL 2/B
Point ID: R9056A
Plant Spec Point Desc: ST GEN 2 DISCH RAD MON
Generic/Cond Desc: Stm Gen 2 Steam Line Rad Level

Analog/Digital: A
Engr Units/Dig States: mR/hr
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E-02
Maximum Instr Range: 1.0E+07
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Antilog
Sensor Locations: Main Steam Line Loop 2 prior to ATM reliefs
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Main Steam Line 2 radioactivity monitor (Rad Monitor
1-RM-90-422). Sensitivity is 3.72E-03 mCi/cc per mR/hr.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 48.
MAIN SL 3/C
R9057A
Stm Gen 3 Steam Line Rad Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: MAIN SL 3/C
Point ID: R9057A
Plant Spec Point Desc: ST GEN 3 DISCH RAD MON
Generic/Cond Desc: Stm Gen 3 Steam Line Rad Level

Analog/Digital: A
Engr Units/Dig States: mR/hr
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E-02
Maximum Instr Range: 1.0E+07
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Antilog
Sensor Locations: Main Steam Line Loop 3 prior to ATM reliefs
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Main Steam Line 3 radioactivity monitor (Rad Monitor
1-RM-90-423). Sensitivity is 3.72E-03 mCi/cc per mR/hr.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 49.
MAIN SL 4/D
R9058A
Stm Gen 4 Steam Line Rad Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: MAIN SL 4/D
Point ID: R9058A
Plant Spec Point Desc: ST GEN 4 DISCH RAD MON
Generic/Cond Desc: Stm Gen 4 Steam Line Rad Level

Analog/Digital: A
Engr Units/Dig States: mR/hr
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E-02
Maximum Instr Range: 1.0E+07
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Antilog
Sensor Locations: Main Steam Line Loop 4 prior to ATM reliefs
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Main Steam Line 4 radioactivity monitor (Rad Monitor 1-RM-90-424). Sensitivity is 3.72E-03 mCi/cc per mR/hr.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 50.
SG BD RAD 1A
R1020A
Stm Gen Header Blowdown Rad Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG BD RAD 1A
Point ID: R1020A
Plant Spec Point Desc: STEAM GEN BLDN MON
Generic/Cond Desc: Stm Gen Header Blowdown Rad Level

Analog/Digital: A
Engr Units/Dig States: CPM
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E1
Maximum Instr Range: 1.0E7
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Antilog
Sensor Locations: Turbine Building
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Steam Generator Blowdown Effluent Liquid Monitor.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 51.
SG BD RAD 2B
R1021A
Stm Gen Header Blowdown Rad Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG BD RAD 2B
Point ID: R1021A
Plant Spec Point Desc: STEAM GEN BLDN MON
Generic/Cond Desc: Stm Gen Header Blowdown Rad Level

Analog/Digital: A
Engr Units/Dig States: CPM
Engr Units Conversion: N/A
Minimum Instr Range: 1.0E1
Maximum Instr Range: 1.0E7
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Antilog
Sensor Locations: Turbine Building
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Steam Generator Blowdown Effluent Liquid Monitor.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 52.
CTMNT PRESS
UP6000
Containment Pressure

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CTMNT PRESS
Point ID: UP6000
Plant Spec Point Desc: CNTMT PRESSURE AVG
Generic/Cond Desc: Containment Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units Conversion: N/A
Minimum Instr Range: -2
Maximum Instr Range: 15
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Annulus
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Out of Range
Temperature Compensation: N/A
Level Reference Leg: N/A

Unique System Desc: Containment pressure: Average of 1-PDT-30-44 and -45.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 53.
CTMNT TEMP
U2515
Containment Temperature

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: CTMNT TEMP
Point ID: U2515
Plant Spec Point Desc: CTMNT HIGHEST TEMP
Generic/Cond Desc: Containment Temperature

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: N/A
Minimum Instr Range: 40
Maximum Instr Range: 175
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 16
How Processed: Maximum value
Sensor Locations: Various areas inside containment
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Fail low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Maximum containment air temperature. Maximum of TE-30-210A through TE-30-210P from ICS computer

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 54.
H2 CONC
UY1005
Containment H2 Concentration

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: H2 CONC
Point ID: UY1005
Plant Spec Point Desc: H2 CONC AVG
Generic/Cond Desc: Containment H2 Concentration

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 10
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average
Sensor Locations: Sample line from upper/lower containment
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Downscale on loss of power
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Samples H2 gas concentration in containment. Maximum of 1-XM-43-200 and 1-XM-43-210.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 55.
RWST LEVEL
UL1000
Refueling Water Storage Tank Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: RWST LEVEL
Point ID: UL1000
Plant Spec Point Desc: RWST LEVEL AVG
Generic/Cond Desc: Refueling Water Storage Tank Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 1% is 3500 gallons
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: 27.6"
Reference Point Notes: 25,000 GAL below zero reference

PROC or SENS: P
Number of Sensors: 2
How Processed: Average, redundant sensor algorithm
Sensor Locations: RWST taps 25,000 GAL in tank below buttn
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: The RWST average level is calculated by a redundant sensor algorithm from two (2) RWST level transmitters (LT-63-50 and -51).

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 56.
WIND SPEED
MET001
Wind Speed - Upper Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: WIND SPEED
Point ID: MET001
Plant Spec Point Desc: 91M VECTOR WIND SPEED (15 MIN AVG)
Generic/Cond Desc: Wind Speed - Upper Level

Analog/Digital: A
Engr Units/Dig States: m/sec
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 44.6
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: At the 91 meter level of the met tower
Alarm/Trip Setpoints: N/A

NID power cutoff level: N/A
NID power cut-on level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N/A
Level Reference Leg: N/A

Unique System Desc: N/A

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 57.
WIND SPEED
MET002
Wind Speed - Intermediate Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: WIND SPEED
Point ID: MET002
Plant Spec Point Desc: 46M VECTOR WIND SPEED (15 MIN AVG)
Generic/Cond Desc: Wind Speed - Intermediate Level

Analog/Digital: A
Engr Units/Dig States: m/sec
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 44.6
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: At the 46 meter level of the met tower
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N/A
Level Reference Leg: N/A

Unique System Desc: N/A

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 58.
WIND SPEED
MET003
Wind Speed - Lower Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: WIND SPEED
Point ID: MET003
Plant Spec Point Desc: 10M VECTOR WIND SPEED (15 MIN AVG)
Generic/Cond Desc: Wind Speed - Lower Level

Analog/Digital: A
Engr Units/Dig States: m/sec
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 44.6
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: At the 10 meter level of the met tower
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N/A
Level Reference Leg: N/A

Unique System Desc: N/A

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 59.
WIND DIR
MET004
Wind Direction - Upper Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: WIND DIR
Point ID: MET004
Plant Spec Point Desc: 91M VECTOR WIND DIR (15 MIN AVG)
Generic/Cond Desc: Wind Direction - Upper Level

Analog/Digital: A
Engr Units/Dig States: DEG

Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 360
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: At the 91 meter level of the met tower
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N/A
Level Reference Leg: N/A

Unique System Desc: N/A

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 60.
WIND DIR
MET005
Wind Direction - Intermediate Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: WIND DIR
Point ID: MET005
Plant Spec Point Desc: 46M VECTOR WIND DIR (15 MIN AVG)
Generic/Cond Desc: Wind Direction - Intermediate Level

Analog/Digital: A
Engr Units/Dig States: DEG
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 360
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: At the 46 meter level of the met tower
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID power cut-on level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N/A
Level Reference Leg: N/A

Unique System Desc: N/A

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 61.
WIND DIR
MET006
Wind Direction - Lower Level

Date: 11/01/95
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: WIND DIR
Point ID: MET006
Plant Spec Point Desc: 10M VECTOR WIND DIR (15 MIN AVG)
Generic/Cond Desc: Wind Direction - Lower Level

Analog/Digital: A
Engr Units/Dig States: DEG
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 360
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: At the 10 meter level of the met tower
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N/A
Level Reference Leg: N/A

Unique System Desc: N/A

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
 EMERGENCY RESPONSE DATA SYSTEM (ERDS)
 DATA POINT LIBRARY (DPL)
 REVISION 1

ERDS Point Number 62.
 STAB CLASS
 MET007
 Air Stability Upper

Date: 11/01/95
 Reactor Unit: WB1
 Data Feeder: N/A
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET007
 Plant Spec Point Desc: STABILITY CLASS UPPER
 Generic/Cond Desc: Air Stability Upper

Analog/Digital: N/A
 Engr Units/Dig States: STABA
 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: P
 Number of Sensors: 2
 How Processed: N/A
 Sensor Locations: N/A
 Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
 NID Power Cut-On Level: N/A
 Instrument Failure Mode: Low
 Temperature Compensation: N/A
 Level Reference Leg: N/A

Unique System Desc: Differential temperature upper-lower (degrees C).

Difference		Stability Class	Point Value
>	<=		
	-1.9	A	1
-1.9	-1.7	B	2
-1.7	-1.5	C	3
-1.5	-0.5	D	4
-0.5	1.5	E	5
1.5	4.0	F	6
4.0		G	7

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
 EMERGENCY RESPONSE DATA SYSTEM (ERDS)
 DATA POINT LIBRARY (DPL)
 REVISION 1

ERDS Point Number 63.
 STAB CLASS
 MET008
 Air Stability

Date: 11/01/95
 Reactor Unit: WB1
 Data Feeder: N/A
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET008
 Plant Spec Point Desc: STABILITY CLASS INTERMEDIATE
 Generic/Cond Desc: Air Stability

Analog/Digital: N/A
 Engr Units/Dig States: STABA
 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: P
 Number of Sensors: 2
 How Processed: N/A
 Sensor Locations: N/A
 Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
 NID Power Cut-On Level: N/A
 Instrument Failure Mode: Low
 Temperature Compensation: N/A
 Level Reference Leg: N/A

Unique System Desc: Differential temperature upper-intermediate (degrees C).

Difference		Stability Class	Point Value
>	<=		
	-1.9	A	1
-1.9	-1.7	B	2
-1.7	-1.5	C	3
-1.5	-0.5	D	4
-0.5	1.5	E	5
1.5	4.0	F	6
4.0		G	7

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
 EMERGENCY RESPONSE DATA SYSTEM (ERDS)
 DATA POINT LIBRARY (DPL)
 REVISION 1

ERDS Point Number 64.
 STAB CLASS
 MET009
 Air Stability

Date: 11/01/95
 Reactor Unit: WB1
 Data Feeder: N/A
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET009
 Plant Spec Point Desc: STABILITY CLASS LOWER
 Generic/Cond Desc: Air Stability

Analog/Digital: N/A
 Engr Units/Dig States: STABA
 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: P
 Number of Sensors: 2
 How Processed: N/A
 Sensor Locations: N/A
 Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
 NID Power Cut-On Level: N/A
 Instrument Failure Mode: Low
 Temperature Compensation: N/A
 Level Reference Leg: N/A

Unique System Desc: Differential temperature intermediate-lower (degrees C).

Difference		Stability Class	Point Value
>	<=		
-1.9	-1.9	A	1
-1.7	-1.7	B	2
-1.5	-1.5	C	3
-0.5	-0.5	D	4
1.5	1.5	E	5
4.0	4.0	F	6
		G	7

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 65.
SG LEVEL 1/A
L0403A
Stm Gen 1 Wide Rng Water Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG LEVEL 1/A
Point ID: L0403A
Plant Spec Point Desc: STM GEN #1 LEVEL XMTR
Generic/Cond Desc: Stm Gen 1 Wide Rng Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 100% WR = 0 - 554 inches WR
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: LOWTAP
Reference Point Notes: See "Unique System Desc."

PROC or SENS: S
Number of Sensors: 1
How Processed: Scanned
Sensor Locations: See "Unique System Desc."
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Sensor out low
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: LT is calibrated for design operating conditions. 0% corresponds to lower tap on steam generator located approximately one (1) foot above bottom tube plate. 100% corresponds to the upper tap which is 238" above the top of "U" tubes. Top of the "U" tubes is approximately 57% WR level span.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 66.
SG LEVEL 2/B
L0423A
Stm Gen 2 Wide Rng Water Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG LEVEL 2/B
Point ID: L0423A
Plant Spec Point Desc: STM GEN #2 LEVEL XMTR
Generic/Cond Desc: Stm Gen 2 Wide Rng Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 100% WR = 0 - 554 inches WR
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: LOWTAP
Reference Point Notes: See Below

PROC or SENS: S
Number of Sensors: 1
How Processed: Scanned
Sensor Locations: See "Unique System Desc."
Alarm/Trip Set Points: N/A

NID power cutoff level: N/A
NID power cut-on level: N/A
Instrument Failure Mode: Sensor out low
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: LT is calibrated for design operating conditions. 0% corresponds to lower tap on steam generator located approximately one (1) foot above bottom tube plate. 100% corresponds to the upper tap which is 238" above the top of "U" tubes. Top of the "U" tubes is approximately 57% WR level span.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 67.
SG LEVEL 3/C
L0443A
Stm Gen 3 Wide Rng Water Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG LEVEL 3/C
Point ID: L0443A
Plant Spec Point Desc: STM GEN #3 LEVEL XMTR
Generic/Cond Desc: Stm Gen 3 Wide Rng Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 100% WR = 0 - 554 inches WR
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: LOWTAP
Reference Point Notes: See "Unique System Desc."

PROC or SENS: S
Number of Sensors: 1
How Processed: Scanned
Sensor Locations: See "Unique System Desc."
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Sensor low out
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: LT is calibrated for design operating conditions. 0% corresponds to lower tap on steam generator located approximately one (1) foot above bottom tube plate. 100% corresponds to the upper tap which is 238" above the top of "U" tubes. Top of the "U" tubes is approximately 57% WR level span.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 68.
SG LEVEL 4/D
L0463A
Stm Gen 4 Wide Rng Water Level

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: SG LEVEL 4/D
Point ID: L0463A
Plant Spec Point Desc: STM GEN #4 LEVEL XMTR
Generic/Cond Desc: Stm Gen 4 Wide Rng Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 0 - 100% WR = 0 - 554 inches WR
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: LOWTAP
Reference Point Notes: See "Unique System Desc."

PROC or SENS: S
Number of Sensors: 1
How Processed: Scanned
Sensor Locations: See "Unique System Desc."
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Sensor out low
Temperature Compensation: N
Level Reference Leg: WET

Unique System Desc: LT is calibrated for design operating conditions. 0% corresponds to lower tap on steam generator located approximately one (1) foot above bottom tube plate. 100% corresponds to the upper tap which is 238" above the top of "U" tubes. Top of the "U" tubes is approximately 57% WR level span.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 69.
NL
U0400
RC LOOP #1 AVG FLOW

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: NL
Point ID: U0400
Plant Spec Point Desc: RC LOOP #1 AVG % FLOW
Generic/Cond Desc: Average RC Loop #1 Flow %

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 3
How Processed: Averaged
Sensor Locations: From ICS Process Computer
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Average Reactor Coolant Loop #1 flow comprised of the ICS Process Computer Reactor Coolant Loop #1 flow points F0400A, F0401A, and F0402A.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 70.
NL
U0420
RC LOOP #2 AVG FLOW

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: NL
Point ID: U0420
Plant Spec Point Desc: RC LOOP #2 AVG % FLOW
Generic/Cond Desc: Average RC Loop #2 Flow %

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 3
How Processed: Averaged
Sensor Locations: From ICS Process Computer
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Average Reactor Coolant Loop #2 flow comprised of the ICS Process Computer Reactor Coolant Loop #2 flow points F0420A, F0421A, and F0422A.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 71
NL
U0440
RC LOOP #3 AVG FLOW

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: NL
Point ID: U0440
Plant Spec Point Desc: RC LOOP #3 AVG % FLOW
Generic/Cond Desc: Average RC Loop #3 Flow %

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 3
How Processed: Averaged
Sensor Locations: From ICS Process Computer
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Average Reactor Coolant Loop #3 flow comprised of the ICS
Process Computer Reactor Coolant Loop #3 flow points F0440A,
F0441A, and F0442A.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY (DPL)
REVISION 1

ERDS Point Number 72
NL
U0460
RC LOOP #4 AVG FLOW

Date: 04/30/99
Reactor Unit: WB1
Data Feeder: N/A
NRC ERDS Parameter: NL
Point ID: U0460
Plant Spec Point Desc: RC LOOP #4 AVG % FLOW
Generic/Cond Desc: Average RC Loop #4 Flow %

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A
Minimum Instr Range: 0
Maximum Instr Range: 100
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 3
How Processed: Averaged
Sensor Locations: From ICS Process Computer
Alarm/Trip Setpoints: N/A

NID Power Cut-Off Level: N/A
NID Power Cut-On Level: N/A
Instrument Failure Mode: Low
Temperature Compensation: N
Level Reference Leg: N/A

Unique System Desc: Average Reactor Coolant Loop #4 flow comprised of the ICS Process Computer Reactor Coolant Loop #4 flow points F0460A, F0461A, and F0462A.