



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

September 17, 2008

10 CFR 50, Appendix E

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

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 2**

Enclosed is ERDS Data Point Library, Revision 2, provided pursuant to 10 CFR 50, Appendix E, Section VI.3.a. TVA revised the DPL to update descriptive statements and explanatory notes, such as steam generator dimensions and water level at the top of the U-tubes. These descriptive changes became applicable following the steam generator replacement project during WBN's cycle 7 refueling outage, Fall 2006. The delay in this update has been documented in the WBN corrective action process.

The enclosure to this letter, Data Point Library, Revision 2, supersedes the Data Point Library, Revision 1 provided in TVA's letter dated May 14, 1999.

There are no regulatory commitments associated with this submittal. If you have any questions concerning this matter, please call me at (423) 365-1824.

Sincerely,

M. K. Brandon  
Manager, Site Licensing  
and Industry Affairs

Enclosure  
cc: See Page 2

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WRK

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Enclosures

cc (Enclosures):

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ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
 EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
 DATA POINT LIBRARY (DPL)  
 REVISION 2

| ERDS<br>POINT<br>NO. | NRC<br>ERDS<br>PARAMETER | POINT ID   | PLANT SPECIFIC<br>POINT DESCRIPTION |
|----------------------|--------------------------|------------|-------------------------------------|
| 1                    |                          | SIMULATION | INDICATES REAL OR SIMULATED<br>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)  
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|    |              |        |                                       |
|----|--------------|--------|---------------------------------------|
| 41 | COND A/E RAD | R9061A | COND VAC VENT NOBLE GAS RAD<br>MON    |
| 42 | COND A/E RAD | R0001A | COND VAC VENT NOBLE GAS RAD<br>MON    |
| 43 | COND A/E RAD | R9062A | COND VAC VENT NOBLE GAS RAD<br>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<br>AVG) |
| 57 | WIND SPEED   | MET002 | 46M VECTOR WIND SPEED (15 MIN<br>AVG) |
| 58 | WIND SPEED   | MET003 | 10M VECTOR WIND SPEED (15 MIN<br>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 2

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 2

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: Excure 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.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
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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)  
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REVISION 2

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:  $1.66 \times 10^{-4}$   
NID Power Cut-On Level:  $1.49 \times 10^{-4}$   
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.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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%.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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 2

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).

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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

Date: 08/19/08  
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 = 381" - 614" WR  
Minimum Instr Range: 0  
Maximum Instr Range: 100  
Zero Point Reference: See "Unique System Desc."  
Reference Point Notes: 22% NR = Top of "U" tubes at no load

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 62-100% span on wide range level instrumentation.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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

Date: 08/19/08  
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 = 381" - 614" WR  
Minimum Instr Range: 0  
Maximum Instr Range: 100  
Zero Point Reference: See "Unique System Desc."  
Reference Point Notes: 22% NR = Top of "U" tubes at no load

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 62-100% span on the wide range level  
instrumentation.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
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ERDS Point Number 10.  
SG LEVEL 3/C  
UL1003  
Steam Generator 3 Water Level

Date: 08/19/08  
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 = 381" - 614" WR  
Minimum Instr Range: 0  
Maximum Instr Range: 100  
Zero Point Reference: See "Unique System Desc."  
Reference Point Notes: 22% NR = Top of "U" tubes at no load

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 62-100% span on the wide range level  
instrumentation.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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

Date: 08/19/08  
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 = 381" - 614" WR  
Minimum Instr Range: 0  
Maximum Instr Range: 100  
Zero Point Reference: See "Unique System Desc."  
Reference Point Notes: 22% NR = Top of "U" tubes at no load

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 62-100% span on the wide range level  
instrumentation.

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WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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)  
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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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 MDAFW, 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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

ERDS point number 37.

CNTMT SMP WR

UL1011

Containment Sump Wide Rng Level

|                        |                                   |
|------------------------|-----------------------------------|
| Date:                  | 04/30/99                          |
| 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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 2

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 | 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 2

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

Date: 08/19/08  
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 - 614 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 179" above the top of "U" tubes. Top of the "U" tubes is approximately 71% WR level span.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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

Date: 08/19/08  
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 - 614 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 179" above the top of "U" tubes. Top of the "U" tubes is approximately 71% WR level span.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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

Date: 08/19/08  
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 - 614 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 179" above the top of "U" tubes. Top of the "U" tubes is approximately 71% WR level span.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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

Date: 08/19/08  
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 - 614 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 179" above the top of "U" tubes. Top of the "U" tubes is approximately 71% WR level span.

ENCLOSURE

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY (DPL)  
REVISION 2

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 2

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 2

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 2

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.