



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

January 16, 2001

10 CFR 50, Appendix E

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

Gentlemen:

In the Matter of)	Docket Nos. 50-260
Tennessee Valley Authority)	50-296

**BROWNS FERRY NUCLEAR PLANT (BFN) - UNITS 2 AND 3 -
REVISIONS/CORRECTIONS TO THE EMERGENCY RESPONSE DATA SYSTEM
(ERDS) DATA POINT LIBRARIES**

In accordance with 10 CFR 50, Appendix E, Section VI.3.a "Emergency Response Data System," TVA is providing notification of revisions to the BFN Units 2 and 3 ERDS Data Point Libraries. The Units 2 and 3 revisions were implemented on December 18, 2000, and December 19, 2000, respectively. NRC notification of these changes is required within 30 days.

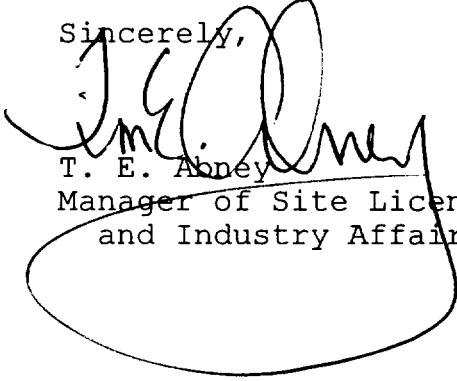
The enclosures to this letter provide revisions to the Units 2 and 3 ERDS Data Point Libraries. The enclosures establish the current BFN Unit 2 and Unit 3 baseline ERDS Datapoint Libraries. These baseline libraries supersede the ERDS Datapoint Libraries sent to the NRC on September 27, 1995 and supplemental revisions. The enclosures include several datapoint changes and administrative error corrections.

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There are no commitments contained in this letter. If you have any questions, please contact me at (256) 729-2636.

Sincerely,



T. E. Abney
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Enclosures

cc (Enclosures):

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ENCLOSURE 1

**TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT
UNIT 2**

**REVISION/CORRECTION TO THE EMERGENCY RESPONSE DATA SYSTEM
DATA POINT LIBRARY**

SEE ATTACHED

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 6 OF 45 REV 0000
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BROWNS FERRY UNIT 2 - ERDS DATA POINT LIBRARY

	<u>DATE</u>	<u>NRC ERDS PARAMETER</u>	<u>POINT ID</u>	<u>PLANT SPECIFIC POINT DESCRIPTION</u>
1	12/18/2000	NI POWER RNG	SPDS0001	RX POWER APRM - COMPOSED
2	12/18/2000	NI INTER RNG	CALC045	AVERAGE OF 8 IRM'S
3	12/18/2000	NI SOURC RNG	SPDS0041	RX POWER SRM - AVG
4	12/18/2000	REAC VES LEV	SPDS0007	RX WATER LEVEL - COMPOSED
5	12/18/2000	MAIN FD FLOW	CALC040	RFW FLOW TO REACTOR
6	12/18/2000	RCIC FLOW	71-36	RCIC PUMP DISCHARGE FLOW
7	12/18/2000	RCS PRESSURE	SPDS0008	RX PRESSURE - COMPOSED
8	12/18/2000	HPCI FLOW	73-33	HPCI PUMP DISCHARGE FLOW
9	12/18/2000	LPCI FLOW	74-50	RHR SYS I FLOW
10	12/18/2000	LPCI FLOW	74-64	RHR SYS II FLOW
11	12/18/2000	CR SPRAY FL	75-21	CORE SPRAY SYS I FLOW
12	12/18/2000	CR SPRAY FL	75-49	CORE SPRAY SYS II FLOW
13	12/18/2000	CND A/E RAD	SPDS0047	OFFGAS POST TREATMENT AVG
14	12/18/2000	CND A/E RAD	90-157	OFFGAS PRE TREATMENT AVG
15	12/18/2000	DW RAD	90-272A	DW RAD-RX 555, 135 DEG AZIMUTH
16	12/18/2000	DW RAD	90-273A	DW RAD-RX 560, 270 DEG AZIMUTH
17	12/18/2000	MN STEAM RAD	90-136	MAIN STM LINE A RAD LEVEL
18	12/18/2000	MN STEAM RAD	90-137	MAIN STM LINE C RAD LEVEL
19	12/18/2000	MN STEAM RAD	90-138	MAIN STM LINE B RAD LEVEL
20	12/18/2000	MN STEAM RAD	90-139	MAIN STM LINE D RAD LEVEL
21	12/18/2000	DW PRESS	SPDS0009	DRYWELL PRESSURE - COMPOSED
22	12/18/2000	DW TEMP	SPDS0010	DRYWELL TEMPERATURE - COMPOSED
23	12/18/2000	SP TEMP	SPDS0016	SUPPR PL WTR TEMP - COMPOSED
24	12/18/2000	SP LEVEL	SPDS0013	SUPPR PL WTR LVL (IN) - COMPOSED
25	12/18/2000	H2 CONC	SPDS0017	DRYWELL H2 - COMPOSED
26	12/18/2000	O2 CONC	76-43	DRYWELL OXYGEN CONCENTRATION
27	12/18/2000	CST LEVEL	2-161	CST #2 (UNIT 2) LEVEL

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 7 OF 45 REV 0000
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BROWNS FERRY UNIT 2 - ERDS DATA POINT LIBRARY (continued)

	<u>DATE</u>	<u>NRC ERDS PARAMETER</u>	<u>POINT ID</u>	<u>PLANT SPECIFIC POINT DESCRIPTION</u>
28	12/18/2000	WIND SPEED	MET001	91M VECTOR WIND SPEED (15 MIN AVG)
29	12/18/2000	WIND SPEED	MET002	46M VECTOR WIND SPEED (15 MIN AVG)
30	12/18/2000	WIND SPEED	MET003	10M VECTOR WIND SPEED (15 MIN AVG)
31	12/18/2000	WIND DIR	MET004	91M VECTOR WIND DIR (15 MIN AVG)
32	12/18/2000	WIND DIR	MET005	46M VECTOR WIND DIR (15 MIN AVG)
33	12/18/2000	WIND DIR	MET006	10M VECTOR WIND DIR (15 MIN AVG)
34	12/18/2000	STAB CLASS	MET007	STABILITY CLASS UPPER
35	12/18/2000	STAB CLASS	MET008	STABILITY CLASS INTERMEDIATE
36	12/18/2000	STAB CLASS	MET009	STABILITY CLASS LOWER
37	12/18/2000	TYPEDATA	REAL/ SIMULATED	
38	12/18/2000	EFF GAS RAD	SPDS0024	STACK RELEASE RATE - COMPOSED

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ERDS Point Number: 1 NI POWER RNG SPDS0001 Reactor Power

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: NI POWER RNG
 Point ID: SPDS0001
 Plant Spec Point Desc: RX POWER APRM - COMPOSED
 GenericCond Desc: Reactor Power

Analog/Digital: A
 Engr Units/Dig States: %
 Engr Units: N/A
 Minimum Instr Range: 0
 Maximum Instr Range: 125
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: P
 Number of Sensors: 4
 How Processed: Weighted Average w/Fault Detect (PSVA)
 Sensor Locations: N/A
 Alarm/Trip Set Points: HIHI=5 (Inhibited if no SCRAM)

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: N/A
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc: The HIGH alarm is inhibited when the plant is not in a SCRAM condition. This supports plant EOI's.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 9 OF 45 REV 0000
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ERDS Point Number: 2 NI INTER RNG CALC045 Reactor Power - Intermediate Rng

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: NI INTER RNG
Point ID: CALC045
Plant Spec Point Desc: AVERAGE OF 8 IRM'S
GenericCond Desc: Reactor Power - Intermediate Rng

Analog/Digital: A
Engr Units/Dig States: %SCALE
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 125
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 8
How Processed: Average (AVG)
Sensor Locations: N/A
Alarm/Trip Set Points: See Below

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: Since the IRMs have a range switch this average is difficult to interpret.

Alarm: Run: HIHI=120
Startup: HIHI=108 HI=80 LO=20 LOLO=15
Shutdown: HIHI=50 HI=25
Refuel: HIHI=50 HI=25

ERDS Point Number: 3 NI SOURC RNG SPDS0041 Reactor Power - Source Range

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: NI SOURC RNG
 Point ID: SPDS0041
 Plant Spec Point Desc: RX POWER SRM - AVG
 GenericCond Desc: Reactor Power - Source Range

Analog/Digital: A
 Engr Units/Dig States: CPS
 Engr Units: N/A
 Minimum Instr Range: .1
 Maximum Instr Range: 1000000
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: P
 Number of Sensors: 4
 How Processed: Average of healthy inputs (HAVE)
 Sensor Locations: N/A
 Alarm/Trip Set Points: See Below

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: N/A
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc: Alarm: Startup/Shutdown/Refuel: HIHI=500000 HI=100000 LO=5 LOLO=3

ERDS Point Number: 4 REAC VES LEV SPDS0007 Reactor Vessel Water Level

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: REAC VES LEV
 Point ID: SPDS0007
 Plant Spec Point Desc: RX WATER LEVEL - COMPOSED
 GenericCond Desc: Reactor Vessel Water Level

Analog/Digital: A
 Engr Units/Dig States: INCHES
 Engr Units: N/A
 Minimum Instr Range: -268
 Maximum Instr Range: 400
 Zero Point Reference: MSSKRT
 Reference Point Notes: 528" above vessel zero

PROC or SENS: P
 Number of Sensors: 11
 How Processed: Weighted Average w/Fault Detect (PSVA)
 Sensor Locations: N/A
 Alarm/Trip Set Points: All modes: HIHI=51 HI=39 LO=27 LOLO=11.2

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: N/A
 Temperature Compensation: Y
 Level Reference Leg: N/A
 Unique System Desc: Combines one 0 - +400 (floodup), four -10 - +70 (Normal), four -155 - +60 (Emerg) and two -268 - +32 (post accident) into one wide range indication; therefore, for off normal conditions this point could be difficult to interpret. Instruments are calibrated for normal operating conditions, except for the floodup instrument which is calibrated for atmospheric conditions, and the post accident instruments which are calibrated assuming 212 degrees Faranheit water in all lines. Top of fuel is at -162".

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 12 OF 45 REV 0000
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ERDS Point Number: 5 MAIN FD FLOW CALC040 Feedwater Flow into the Reactor

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: MAIN FD FLOW
Point ID: CALC040
Plant Spec Point Desc: RFW FLOW TO REACTOR
GenericCond Desc: Feedwater Flow into the Reactor

Analog/Digital: A
Engr Units/Dig States: MLB/HR
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 16
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Sum of RFW LINE A and RFW LINE B
Sensor Locations: N/A
Alarm/Trip Set Points: Run: HIHI=14.8 HI=14.7

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: Sum of feedflow instruments, uncompensated

ERDS Point Number: 6 RCIC FLOW 71-36 Core Isolation Cooling Flow

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: RCIC FLOW
Point ID: 71-36
Plant Spec Point Desc: RCIC PUMP DISCHARGE FLOW
GenericCond Desc: Core Isolation Cooling Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
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: Polynomial
Sensor Locations: Downstream of Min Flow Line
Alarm/Trip Set Points: All modes: HIHI=625

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 14 OF 45 REV 0000
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ERDS Point Number: 7 RCS PRESSURE SPDS0008 Reactor Coolant System Pressure

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: RCS PRESSURE
Point ID: SPDS0008
Plant Spec Point Desc: RX PRESSURE - COMPOSED
GenericCond Desc: Reactor Coolant System Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 1500
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 6
How Processed: Weighted Average w/Fault Detect (PSVA)
Sensor Locations: N/A
Alarm/Trip Set Points: See Below

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

Unique System Desc: Instruments are calibrated for rated operating conditions.

Alarm: Run: HIHI=1073 HI=1070 LO=918 LOLO=915
Startup: HIHI=1073 HI=1070 LO=918 LOLO=915
Shutdown: HIHI=1073 HI=1070
Refuel: HIHI=1073 HI=1070

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ERDS Point Number: 8 HPCI FLOW 73-33 High Pressure Coolant Inj. Flow

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: HPCI FLOW
Point ID: 73-33
Plant Spec Point Desc: HPCI Pump Discharge Flow
GenericCond Desc: High Pressure Coolant Inj. Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 6000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: Downstream of Min Flow Line
Alarm/Trip Set Points: All modes: HIHI=5200

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 16 OF 45 REV 0000
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ERDS Point Number: 9 LPCI FLOW 74-50 LPCI - RHR System 1 Flow

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: LPCI FLOW
Point ID: 74-50
Plant Spec Point Desc: RHR SYS I FLOW
GenericCond Desc: LPCI - RHR System 1 Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 25000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: Downstream of HX and Before Sprays
Alarm/Trip Set Points: All Modes: HIHI=20000 HI=13000

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

ERDS Point Number: 10 LPCI FLOW 74-64 LPCI - RHR System II Flow

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: LPCI FLOW
Point ID: 74-64
Plant Spec Point Desc: RHR SYS II FLOW
GenericCond Desc: LPCI - RHR System II Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 25000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: Downstream of HX and Before Sprays
Alarm/Trip Set Points: All modes: HIHI=20000 HI=13000

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 18 OF 45 REV 0000
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ERDS Point Number: 11 CR SPRAY FL 75-21 Core Spray - System I Flow

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: CR SPRAY FL
 Point ID: 75-21
 Plant Spec Point Desc: CORE SPRAY SYS I FLOW
 GenericCond Desc: Core Spray - System I Flow

Analog/Digital: A
 Engr Units/Dig States: GPM
 Engr Units: N/A
 Minimum Instr Range: 0
 Maximum Instr Range: 10000
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: S
 Number of Sensors: 1
 How Processed: Polynomial
 Sensor Locations: Downstream of Min Flow Line
 Alarm/Trip Set Points: All modes: HIHI=6300 HI=6275

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc:

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 19 OF 45 REV 0000
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ERDS Point Number: 12 CR SPRAY FL 75-49 Core Spray - System II Flow

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: CR SPRAY FL
Point ID: 75-49
Plant Spec Point Desc: CORE SPRAY SYS II FLOW
GenericCond Desc: Core Spray - System II Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 10000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: Downstream of Min Flow Line
Alarm/Trip Set Points: All modes: HIHI=6300 HI=6275

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

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ERDS Point Number: 14 CND A/E RAD 90-157 Offgas Pre Treatment Avg

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: CND A/E RAD
Point ID: 90-157
Plant Spec Point Desc: OFFGAS PRE TREATMENT AVG
GenericCond Desc: Offgas Pre Treatment Avg

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units: N/A
Minimum Instr Range: .1
Maximum Instr Range: 1000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: N/A
Alarm/Trip Set Points: Run/Startup: HIHI=1690 HI=845 LOLO=1

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: Downscale
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 22 OF 45 REV 0000
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ERDS Point Number: 15 DW RAD 90-272A Drywell Radiation - 135 Deg

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: DW RAD
Point ID: 90-272A
Plant Spec Point Desc: DW RAD-RX 555, 135 DEG AZIMUTH
GenericCond Desc: Drywell Radiation - 135 Deg

Analog/Digital: A
Engr Units/Dig States: R/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 10000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: At Level 555, 135 Degree Azimuth
Alarm/Trip Set Points: All modes: HIHI=1440 HI=1000

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 23 OF 45 REV 0000
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ERDS Point Number: 16 DW RAD 90-273A Drywell Radiation - 270 Deg

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: DW RAD
Point ID: 90-273A
Plant Spec Point Desc: DW RAD-RX 560, 270 DEG AZIMUTH
GenericCond Desc: Drywell Radiation - 270 Deg

Analog/Digital: A
Engr Units/Dig States: R/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 10000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: At Level 560, 270 Degree Azimuth
Alarm/Trip Set Points: All modes: HIHI=1440 HI=1000

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 24 OF 45 REV 0000
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ERDS Point Number: 17 MN STEAM RAD 90-136 Rad Level - Main Steam Line A

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: MN STEAM RAD
Point ID: 90-136
Plant Spec Point Desc: MAIN STM LINE A RAD LEVEL
GenericCond Desc: Rad Level - Main Steam Line A

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 1000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: Main Steam Tunnel
Alarm/Trip Set Points: All modes: HIHI=7200 HI=3600

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

ERDS Point Number: 18 MN STEAM RAD 90-137 Rad Level - Main Steam Line C

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: MN STEAM RAD
 Point ID: 90-137
 Plant Spec Point Desc: MAIN STM LINE C RAD LEVEL
 GenericCond Desc: Rad Level - Main Steam Line C

Analog/Digital: A
 Engr Units/Dig States: MR/HR
 Engr Units: N/A -
 Minimum Instr Range: 1
 Maximum Instr Range: 1000000
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: S
 Number of Sensors: 1
 How Processed: SALG
 Sensor Locations: Main Steam Tunnel
 Alarm/Trip Set Points: All modes: HIHI=7200 HI=3600

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc:

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ERDS Point Number: 19 MN STEAM RAD 90-138 Rad Level - Main Steam Line B

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: MN STEAM RAD
Point ID: 90-138
Plant Spec Point Desc: MAIN STM LINE B RAD LEVEL
GenericCond Desc: Rad Level - Main Steam Line B

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 1000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: Main Steam Tunnel
Alarm/Trip Set Points: All modes: HIHI=7200 HI=3600

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

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ERDS Point Number: 20 MN STEAM RAD 90-139 Rad Level - Main Steam Line D

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: MN STEAM RAD
Point ID: 90-139
Plant Spec Point Desc: MAIN STM LINE D RAD LEVEL
GenericCond Desc: Rad Level - Main Steam Line D

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 1000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: Main Steam Tunnel
Alarm/Trip Set Points: All modes: HIHI=7200 HI=3600

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 28 OF 45 REV 0000
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ERDS Point Number: 21 DW PRESS SPDS0009 Drywell Pressure

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: DW PRESS
Point ID: SPDS0009
Plant Spec Point Desc: DRYWELL PRESSURE - COMPOSED
GenericCond Desc: Drywell Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units: N/A
Minimum Instr Range: -15
Maximum Instr Range: 300
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 6
How Processed: Weighted Average w/Fault Detect (PSVA)
Sensor Locations: N/A
Alarm/Trip Set Points: See below

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

Unique System Desc : Alarm: Run: HIHI=2.45 HI=1.96 LO=1.15 LOLO=1.1
Startup/Shutdown/Refuel: HIHI=2.45 HI=1.96

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 30 OF 45 REV 0000
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ERDS Point Number: 23 SP TEMP SPDS0016 Suppression Pool Temperature

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: SP TEMP
Point ID: SPDS0016
Plant Spec Point Desc: SUPPR PL WTR TEMP - COMPOSED
GenericCond Desc: Suppression Pool Temperature

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units: N/A
Minimum Instr Range: 30
Maximum Instr Range: 230
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 16
How Processed: Average (PSVA)
Sensor Locations: Around Circumference of Torus
Alarm/Trip Set Points: All modes: HIHI=95 HI=93 LOLO=50

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: There are 4 inputs actually scanned by the computer.
Two of these 4 are made of 8 individual sensors that are hardware averaged. The other 2 are selected individual sensors from the total 16 sensors.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 31 OF 45 REV 0000
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ERDS Point Number: 24 SP LEVEL SPDS0013 Suppression Pool Water Level

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: SP LEVEL
Point ID: SPDS0013
Plant Spec Point Desc: SUPPR PL WTR LVL (IN) - COMPOSED
GenericCond Desc: Suppression Pool Water Level

Analog/Digital: A
Engr Units/Dig States: INCHES
Engr Units: N/A
Minimum Instr Range: -181.45
Maximum Instr Range: 58.55
Zero Point Reference: Below
Reference Point Notes: 181.45 inches above Torus Bottom

PROC or SENS: P
Number of Sensors: 4
How Processed: Weighted Average w/Fault Detect (PSVA)
Sensor Locations: N/A
Alarm/Trip Set Points: See Below

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: All modes: HIHI = -1 HI = -2 LO = -5.5 LOLO = -6.25

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 32 OF 45 REV 0000
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ERDS Point Number: 25 H2 CONC SPDS0017 Drywell or Torus Hydrogen Level

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: H2 CONC
 Point ID: SPDS0017
 Plant Spec Point Desc: DRYWELL H2 - COMPOSED
 GenericCond Desc: Drywell or Torus Hydrogen Level

Analog/Digital: A
 Engr Units/Dig States: %
 Engr Units: N/A
 Minimum Instr Range: 0
 Maximum Instr Range: 20
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: P
 Number of Sensors: 2
 How Processed: Weighted Average w/Fault Detect (PSVA)
 Sensor Locations: N/A
 Alarm/Trip Set Points: All modes: HIHI=2.4 HI=2.0 LOLO=0.10

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

Unique System Desc: There are 2 sensors that can be switched between the Torus and Drywell. Normally 1 is set to each; therefore, this point may be difficult to interpret.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 33 OF 45 REV 0000
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ERDS Point Number: 26 O2 CONC 76-43 Drywell or Torus Oxygen Level

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: O2 CONC
Point ID: 76-43
Plant Spec Point Desc: DRYWELL OXYGEN CONCENTRATION
GenericCond Desc: Drywell or Torus Oxygen Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 5
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: N/A
Alarm/Trip Set Points: All modes: HIHI=4.5 HI=4.0 LOLO=0.10

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: There are 2 sensors that can be switched between the Torus and Drywell. Normally 1 is set to each; therefore, this point may be difficult to interpret.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 34 OF 45 REV 0000
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ERDS Point Number: 27 CST LEVEL 2-161 Condensate Storage Tank Level

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: CST LEVEL
Point ID: 2-161
Plant Spec Point Desc: CST #2 (UNIT 2) LEVEL
GenericCond Desc: Condensate Storage Tank Level

Analog/Digital: A
Engr Units/Dig States: FEET
Engr Units 28 feet = 375,000 GALLONS
Minimum Instr Range: 0
Maximum Instr Range: 32
Zero Point Reference: Below
Reference Point Notes: 2 feet above bottom of tank

PROC or SENS S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: N/A
Alarm/Trip Set Points: All modes: HIHI=29 HI=27 LO=12 LOLO=10

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation : N
Level Reference Leg: N/A
Unique System Desc : Zero point reference is 2 feet above the bottom of the tank.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 35 OF 45 REV 0000
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ERDS Point Number: 28 WIND SPEED MET001 Wind Speed - Upper Level

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: WIND SPEED
Point ID: MET001
Plant Spec Point Desc: 91M VECTOR WIND SPEED (15 MIN AVG)
GenericCond Desc: Wind Speed - Upper Level

Analog/Digital: A
Engr Units/Dig States: m/sec
Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

The CECC computer system supplies the data for this point.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 36 OF 45 REV 0000
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ERDS Point Number: 29 WIND SPEED MET002 Wind Speed - Intermediate Level

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: WIND SPEED
Point ID: MET002
Plant Spec Point Desc: 46M VECTOR WIND SPEED (15 MIN AVG)
GenericCond Desc: Wind Speed - Intermediate Level

Analog/Digital: A
Engr Units/Dig States: m/sec
Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

The CECC computer system supplies the data for this point.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 37 OF 45 REV 0000
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ERDS Point Number: 30 WIND SPEED MET003 Wind Speed - Lower Level

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: WIND SPEED
Point ID: MET003
Plant Spec Point Desc: 10M VECTOR WIND SPEED (15 MIN AVG)
GenericCond Desc: Wind Speed - Lower Level

Analog/Digital: A
Engr Units/Dig States: m/sec
Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

The CECC computer system supplies the data for this point.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 38 OF 45 REV 0000
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ERDS Point Number: 31 WIND DIR MET004 Wind Direction - Upper Level

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: WIND DIR
Point ID: MET004
Plant Spec Point Desc: 91M VECTOR WIND DIR (15 MIN AVG)
GenericCond Desc: Wind Direction - Upper Level

Analog/Digital: A
Engr Units/Dig States: DEG
Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: Wind direction indicates the direction from which the wind is blowing.

The CECC computer system supplies the data for this point.

ERDS Point Number: 32 WIND DIR MET005 Wind Direction - Intermed. Level

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: WIND DIR
 Point ID: MET005
 Plant Spec Point Desc: 46M VECTOR WIND DIR (15 MIN AVG)
 GenericCond Desc: Wind Direction - Intermed. Level

Analog/Digital: A
 Engr Units/Dig States: DEG
 Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc: Wind direction indicates the direction from which the wind is blowing.

The CECC computer system supplies the data for this point.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 40 OF 45 REV 0000
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ERDS Point Number: 33 WIND DIR MET006 Wind Direction - Lower Level

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 0
NRC ERDS Parameter: WIND DIR
Point ID: MET006
Plant Spec Point Desc: 10M VECTOR WIND DIR (15 MIN AVG)
GenericCond Desc: Wind Direction - Lower Level

Analog/Digital: A
Engr Units/Dig States: DEG
Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: Wind direction indicates the direction from which the wind is blowing.

The CECC computer system supplies the data for this point.

ERDS Point Number: 34 STAB CLASS MET007 editStability

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET007
 Plant Spec Point Desc: Stability Class Upper
 GenericCond Desc: editStability
 Analog/Digital:
 Engr Units/Dig States: STABA
 Engr Units
 Minimum Instr Range:
 Maximum Instr Range:
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: P
 Number of Sensors: 2
 How Processed:
 Sensor Locations:
 Alarm/Trip Set Points: No Alarms
 NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: N/A
 Temperature Compensation : N
 Level Reference Leg: N/A
 Unique System Desc : Differential Temperature Upper-Lower (deg C) (from CECC)

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

ERDS Point Number: 35 STAB CLASS MET008 Air Stability Intermediate

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET008
 Plant Spec Point Desc: Stability Class Intermediate
 GenericCond Desc: Air Stability Intermediate

Analog/Digital:
 Engr Units/Dig States: STABA
 Engr Units
 Minimum Instr Range:
 Maximum Instr Range:
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS P
 Number of Sensors: 2
 How Processed:
 Sensor Locations:
 Alarm/Trip Set Points: No Alarms

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: N/A
 Temperature Compensation : N
 Level Reference Leg: N/A
 Unique System Desc : Differential Temperature Upper-Intermed. (deg C)(from CECC)

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

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 43 OF 45 REV 0000
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ERDS Point Number: 36 STAB CLASS MET009 Air Stability Lower

Date: 12/18/2000
 Reactor Unit: BF2
 Data Feeder: 1
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET009
 Plant Spec Point Desc: Stability Class Lower
 GenericCond Desc: Air Stability Lower

Analog/Digital:
 Engr Units/Dig States: STABA
 Engr Units
 Minimum Instr Range:
 Maximum Instr Range:
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS P
 Number of Sensors: 2
 How Processed:
 Sensor Locations:
 Alarm/Trip Set Points: No ALarms

NID Power Cutoff Level: N/A
 NID Power Cut-On N/A
 Instrument Failure Mode: LOW
 Temperature Compensation : N
 Level Reference Leg: N/A
 Unique System Desc : Differential Temperature Intermed-Lower (deg C) (from CECC)

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

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 44 OF 45 REV 0000
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ERDS Point Number: 37

TYPEDATA REAL/SIMULATED

Date: 12/18/2000

Reactor Unit: BF2

Data Feeder: 1

NRC ERDS Parameter:

Point ID: TYPEDATA

Plant Spec Point Desc: REAL/SIMULATED

GenericCond Desc: REAL/SIMULATED

Analog/Digital: A

Engr Units/Dig States: REAL/SIMU

Engr Units: 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 Set Points: N/A

NID Power Cutoff Level: N/A

NID Power Cut-On: 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.

BFN UNIT 2	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	2-TI-411 PAGE 45 OF 45 REV 0000
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ERDS Point Number: 38 EFF GAS RAD SPDS0024 Radioactivity of Released Gasses

Date: 12/18/2000
Reactor Unit: BF2
Data Feeder: 1
NRC ERDS Parameter: EFF GAS RAD
Point ID: SPDS0024
Plant Spec Point Desc: STACK RELEASE RATE - COMPOSED
GenericCond Desc: Radioactivity of Released Gasses

Analog/Digital: A
Engr Units/Dig States: Ci/SEC
Engr Units: N/A
Minimum Instr Range: 0.0
Maximum Instr Range: 200
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: See Below
Sensor Locations: Plant Stack
Alarm/Trip Set Points: All modes: HIHI=140 HI=14

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: How Processed:
Stack flow (cfm) X Stack Release (uCi/cc) (MULT)

ENCLOSURE 2

**TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT
UNIT 3**

**REVISION/CORRECTION TO THE EMERGENCY RESPONSE DATA SYSTEM
DATA POINT LIBRARY**

SEE ATTACHED

BFN UNIT 3	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	3-TI-411 PAGE 6 OF 45 REV 0000
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BROWNS FERRY UNIT 3 - ERDS DATA POINT LIBRARY

	<u>DATE</u>	<u>NRC ERDS PARAMETER</u>	<u>POINT ID</u>	<u>PLANT SPECIFIC POINT DESCRIPTION</u>
1	12/19/2000	NI POWER RNG	SPDS0001	RX POWER APRM - COMPOSED
2	12/19/2000	NI INTER RNG	CALC045	AVERAGE OF 8 IRM'S
3	12/19/2000	NI SOURC RNG	SPDS0041	RX POWER SRM - AVG
4	12/19/2000	REAC VES LEV	SPDS0007	RX WATER LEVEL - COMPOSED
5	12/19/2000	MAIN FD FLOW	CALC040	RFW FLOW TO REACTOR
6	12/19/2000	RCIC FLOW	71-36	RCIC PUMP DISCHARGE FLOW
7	12/19/2000	RCS PRESSURE	SPDS0008	RX PRESSURE - COMPOSED
8	12/19/2000	HPCI FLOW	73-33	HPCI PUMP DISCHARGE FLOW
9	12/19/2000	LPCI FLOW	74-50	RHR SYS I FLOW
10	12/19/2000	LPCI FLOW	74-64	RHR SYS II FLOW
11	12/19/2000	CR SPRAY FL	75-21	CORE SPRAY SYS I FLOW
12	12/19/2000	CR SPRAY FL	75-49	CORE SPRAY SYS II FLOW
13	12/19/2000	CND A/E RAD	SPDS0047	OFFGAS POST TREATMENT AVG
14	12/19/2000	CND A/E RAD	90-157	OFFGAS PRE TREATMENT AVG
15	12/19/2000	DW RAD	90-272A	DW RAD-RX 582, 45 DEG AZIMUTH
16	12/19/2000	DW RAD	90-273A	DW RAD-RX 560, 270 DEG AZIMUTH
17	12/19/2000	MN STEAM RAD	90-136	MAIN STM LINE A RAD LEVEL
18	12/19/2000	MN STEAM RAD	90-137	MAIN STM LINE C RAD LEVEL
19	12/19/2000	MN STEAM RAD	90-138	MAIN STM LINE B RAD LEVEL
20	12/19/2000	MN STEAM RAD	90-139	MAIN STM LINE D RAD LEVEL
21	12/19/2000	DW PRESS	SPDS0009	DRYWELL PRESSURE - COMPOSED
22	12/19/2000	DW TEMP	SPDS0010	DRYWELL TEMPERATURE - COMPOSED
23	12/19/2000	SP TEMP	SPDS0016	SUPPR PL WTR TEMP - COMPOSED
24	12/19/2000	SP LEVEL	SPDS0013	SUPPR PL WTR LVL (IN) - COMPOSED
25	12/19/2000	H2 CONC	SPDS0017	DRYWELL H2 - COMPOSED
26	12/19/2000	O2 CONC	76-43	DRYWELL OXYGEN CONCENTRATION
27	12/19/2000	CST LEVEL	2-165	CST #3 (UNIT 3) LEVEL

BFN UNIT 3	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	3-TI-411 PAGE 7 OF 45 REV 0000
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BROWNS FERRY UNIT 3 - ERDS DATA POINT LIBRARY (continued)

	<u>DATE</u>	<u>NRC ERDS PARAMETER</u>	<u>POINT ID</u>	<u>PLANT SPECIFIC POINT DESCRIPTION</u>
28	12/19/2000	WIND SPEED	MET001	91M VECTOR WIND SPEED (15 MIN AVG)
29	12/19/2000	WIND SPEED	MET002	46M VECTOR WIND SPEED (15 MIN AVG)
30	12/19/2000	WIND SPEED	MET003	10M VECTOR WIND SPEED (15 MIN AVG)
31	12/19/2000	WIND DIR	MET004	91M VECTOR WIND DIR (15 MIN AVG)
32	12/19/2000	WIND DIR	MET005	46M VECTOR WIND DIR (15 MIN AVG)
33	12/19/2000	WIND DIR	MET006	10M VECTOR WIND DIR (15 MIN AVG)
34	12/19/2000	STAB CLASS	MET007	STABILITY CLASS UPPER
35	12/19/2000	STAB CLASS	MET008	STABILITY CLASS INTERMEDIATE
36	12/19/2000	STAB CLASS	MET009	STABILITY CLASS LOWER
37	12/19/2000	TYPEDATA	REAL/ SIMULATED	
38	12/19/2000	EFF GAS RAD	SPDS0024	STACK RELEASE RATE - COMPOSED

ERDS Point Number: 1 NI POWER RNG SPDS0001 Reactor Power

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: NI POWER RNG
Point ID: SPDS0001
Plant Spec Point Desc: RX POWER APRM - COMPOSED
GenericCond Desc: Reactor Power

Analog/Digital: A
Engr Units/Dig States: %
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 125
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Weighted Average w/Fault Detect (PSVA)
Sensor Locations: N/A
Alarm/Trip Set Points: HIHI=5 (Inhibited if no SCRAM)

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: The HIGH alarm is inhibited when the plant is not in a SCRAM condition. This supports plant EOI's.

BFN UNIT 3	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	3-TI-411 PAGE 9 OF 45 REV 0000
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ERDS Point Number: 2 NI INTER RNG CALC045 Reactor Power - Intermediate Rng

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: NI INTER RNG
Point ID: CALC045
Plant Spec Point Desc: AVERAGE OF 8 IRM'S
GenericCond Desc: Reactor Power - Intermediate Rng

Analog/Digital: A
Engr Units/Dig States: %SCALE
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 125
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 8
How Processed: Average (AVG)
Sensor Locations: N/A
Alarm/Trip Set Points: See Below

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

Unique System Desc: Since the IRMs have a range switch this average is difficult to interpret.

Alarm: Run: HIHI=120
Startup: HIHI=108 HI=80 LO=20 LOLO=15
Shutdown: HIHI=50 HI=25
Refuel: HIHI=50 HI=25

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ERDS Point Number: 3 NI SOURC RNG SPDS0041 Reactor Power - Source Range

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: NI SOURC RNG
Point ID: SPDS0041
Plant Spec Point Desc: RX POWER SRM - AVG
GenericCond Desc: Reactor Power - Source Range

Analog/Digital: A
Engr Units/Dig States: CPS
Engr Units: N/A
Minimum Instr Range: .1
Maximum Instr Range: 1000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Average of healthy inputs (HAVE)
Sensor Locations: N/A
Alarm/Trip Set Points: See Below

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: Alarm: Startup/Shutdown/Refuel: HIHI=500000 HI=100000 LO=5 LOLO=3

ERDS Point Number: 4 REAC VES LEV SPDS0007 Reactor Vessel Water Level

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: REAC VES LEV
 Point ID: SPDS0007
 Plant Spec Point Desc: RX WATER LEVEL - COMPOSED
 GenericCond Desc: Reactor Vessel Water Level

Analog/Digital: A
 Engr Units/Dig States: INCHES
 Engr Units: N/A
 Minimum Instr Range: -268
 Maximum Instr Range: 400
 Zero Point Reference: MSSKRT
 Reference Point Notes: 528" above vessel zero

PROC or SENS: P
 Number of Sensors: 11
 How Processed: Weighted Average w/Fault Detect (PSVA)
 Sensor Locations: N/A
 Alarm/Trip Set Points: All modes: HIHI=51 HI=39 LO=27 LOLO=2

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: N/A
 Temperature Compensation: Y
 Level Reference Leg: N/A
 Unique System Desc: Combines one 0 - +400 (floodup), four -10 - +70 (Normal), four -155 - +60 (Emerg) and two -268 - +32 (post accident) into one wide range indication; therefore, for off normal conditions this point could be difficult to interpret. Instruments are calibrated for normal operating conditions, except for the floodup instrument which is calibrated for atmospheric conditions, and the post accident instruments which are calibrated assuming 212 degrees Faranheit water in all lines. Top of fuel is at -162".

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ERDS Point Number: 5 MAIN FD FLOW CALC040 Feedwater Flow into the Reactor

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: MAIN FD FLOW
Point ID: CALC040
Plant Spec Point Desc: RFW FLOW TO REACTOR
GenericCond Desc: Feedwater Flow into the Reactor

Analog/Digital: A
Engr Units/Dig States: MLB/HR
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 16
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Sum of RFW LINE A and RFW LINE B
Sensor Locations: N/A
Alarm/Trip Set Points: Run: HIHI=14.8 HI=14.7

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: Sum of feedflow instruments, uncompensated

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ERDS Point Number: 6 RCIC FLOW 71-36 Core Isolation Cooling Flow

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: RCIC FLOW
Point ID: 71-36
Plant Spec Point Desc: RCIC PUMP DISCHARGE FLOW
GenericCond Desc: Core Isolation Cooling Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
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: Polynomial
Sensor Locations: Downstream of Min Flow Line
Alarm/Trip Set Points: All modes: HIHI=625

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 3	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	3-TI-411 PAGE 14 OF 45 REV 0000
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ERDS Point Number: 7 RCS PRESSURE SPDS0008 Reactor Coolant System Pressure

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: RCS PRESSURE
Point ID: SPDS0008
Plant Spec Point Desc: RX PRESSURE - COMPOSED
GenericCond Desc: Reactor Coolant System Pressure

Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 1500
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 6
How Processed: Weighted Average w/Fault Detect (PSVA)
Sensor Locations: N/A
Alarm/Trip Set Points: See Below

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

Unique System Desc: Instruments are calibrated for rated operating conditions.

Alarm: Run: HIHI=1073 HI=1070 LO=918 LOLO=915
Startup: HIHI=1073 HI=1070 LO=918 LOLO=915
Shutdown: HIHI=1073 HI=1070
Refuel: HIHI=1073 HI=1070

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ERDS Point Number: 8 HPCI FLOW 73-33 High Pressure Coolant Inj. Flow

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: HPCI FLOW
Point ID: 73-33
Plant Spec Point Desc: HPCI Pump Discharge Flow
GenericCond Desc: High Pressure Coolant Inj. Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 6000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: Downstream of Min Flow Line
Alarm/Trip Set Points: All modes: HIHI=5200

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 3	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	3-TI-411 PAGE 16 OF 45 REV 0000
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ERDS Point Number: 9 LPCI FLOW 74-50 LPCI - RHR System 1 Flow

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: LPCI FLOW
Point ID: 74-50
Plant Spec Point Desc: RHR SYS I FLOW
GenericCond Desc: LPCI - RHR System 1 Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 25000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: Downstream of HX and Before Sprays
Alarm/Trip Set Points: All Modes: HIHI=20000 HI=13000

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 3	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	3-TI-411 PAGE 17 OF 45 REV 0000
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ERDS Point Number: 10 LPCI FLOW 74-64 LPCI - RHR System II Flow

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: LPCI FLOW
 Point ID: 74-64
 Plant Spec Point Desc: RHR SYS II FLOW
 GenericCond Desc: LPCI - RHR System II Flow

Analog/Digital: A
 Engr Units/Dig States: GPM
 Engr Units: N/A
 Minimum Instr Range: 0
 Maximum Instr Range: 25000
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: S
 Number of Sensors: 1
 How Processed: Polynomial
 Sensor Locations: Downstream of HX and Before Sprays
 Alarm/Trip Set Points: All modes: HIHI=20000 HI=13000

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc:

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ERDS Point Number: 11 CR SPRAY FL 75-21 Core Spray - System I Flow

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: CR SPRAY FL
Point ID: 75-21
Plant Spec Point Desc: CORE SPRAY SYS I FLOW
GenericCond Desc: Core Spray - System I Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 10000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: Downstream of Min Flow Line
Alarm/Trip Set Points: All modes: HIHI=6300 HI=6275

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

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ERDS Point Number: 12 CR SPRAY FL 75-49 Core Spray - System II Flow

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: CR SPRAY FL
Point ID: 75-49
Plant Spec Point Desc: CORE SPRAY SYS II FLOW
GenericCond Desc: Core Spray - System II Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 10000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: Downstream of Min Flow Line
Alarm/Trip Set Points: All modes: HIHI=6300 HI=6275

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

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ERDS Point Number: 14 CND A/E RAD 90-157 Offgas Pre Treatment Avg

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: CND A/E RAD
Point ID: 90-157
Plant Spec Point Desc: OFFGAS PRE TREATMENT AVG
GenericCond Desc: Offgas Pre Treatment Avg

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units: N/A
Minimum Instr Range: .1
Maximum Instr Range: 1000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: N/A
Alarm/Trip Set Points: Run/Startup: HIHI=1690 HI=845 LOLO=1

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: Downscale
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 3	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	3-TI-411 PAGE 22 OF 45 REV 0000
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ERDS Point Number: 15 DW RAD 90-272A Drywell Radiation - 45 Deg

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: DW RAD
Point ID: 90-272A
Plant Spec Point Desc: DW RAD-RX 582, 45 DEG AZIMUTH
GenericCond Desc: Drywell Radiation - 45 Deg

Analog/Digital: A
Engr Units/Dig States: R/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 10000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: At Level 582, 45 Degree Azimuth
Alarm/Trip Set Points: All modes: HIHI=1440 HI=1000

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

BFN UNIT 3	EMERGENCY RESPONSE DATA SYSTEM (ERDS) DATA POINT LIBRARY APPENDIX A	3-TI-411 PAGE 23 OF 45 REV 0000
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ERDS Point Number: 16 DW RAD 90-273A Drywell Radiation - 270 Deg

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: DW RAD
Point ID: 90-273A
Plant Spec Point Desc: DW RAD-RX 560, 270 DEG AZIMUTH
GenericCond Desc: Drywell Radiation - 270 Deg

Analog/Digital: A
Engr Units/Dig States: R/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 10000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: At Level 560, 270 Degree Azimuth
Alarm/Trip Set Points: All modes: HIHI=1440 HI=1000

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

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ERDS Point Number: 17 MN STEAM RAD 90-136 Rad Level - Main Steam Line A

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: MN STEAM RAD
 Point ID: 90-136
 Plant Spec Point Desc: MAIN STM LINE A RAD LEVEL
 GenericCond Desc: Rad Level - Main Steam Line A

Analog/Digital: A
 Engr Units/Dig States: MR/HR
 Engr Units: N/A
 Minimum Instr Range: 1
 Maximum Instr Range: 1000000
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: S
 Number of Sensors: 1
 How Processed: SALG
 Sensor Locations: Main Steam Tunnel
 Alarm/Trip Set Points: All modes: HIHI=1500 HI=750

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc:

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ERDS Point Number: 18 MN STEAM RAD 90-137 Rad Level - Main Steam Line C

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: MN STEAM RAD
 Point ID: 90-137
 Plant Spec Point Desc: MAIN STM LINE C RAD LEVEL
 GenericCond Desc: Rad Level - Main Steam Line C

Analog/Digital: A
 Engr Units/Dig States: MR/HR
 Engr Units: N/A
 Minimum Instr Range: 1
 Maximum Instr Range: 1000000
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: S
 Number of Sensors: 1
 How Processed: SALG
 Sensor Locations: Main Steam Tunnel
 Alarm/Trip Set Points: All modes: HIHI=1500 HI=750

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc:

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ERDS Point Number: 19 MN STEAM RAD 90-138 Rad Level - Main Steam Line B

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: MN STEAM RAD
Point ID: 90-138
Plant Spec Point Desc: MAIN STM LINE B RAD LEVEL
GenericCond Desc: Rad Level - Main Steam Line B

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 1000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: Main Steam Tunnel
Alarm/Trip Set Points: All modes: HIHI=1500 HI=750

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

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ERDS Point Number: 20 MN STEAM RAD 90-139 Rad Level - Main Steam Line D

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: MN STEAM RAD
Point ID: 90-139
Plant Spec Point Desc: MAIN STM LINE D RAD LEVEL
GenericCond Desc: Rad Level - Main Steam Line D

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units: N/A
Minimum Instr Range: 1
Maximum Instr Range: 1000000
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: SALG
Sensor Locations: Main Steam Tunnel
Alarm/Trip Set Points: All modes: HIHI=1500 HI=750

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

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ERDS Point Number: 21 DW PRESS SPDS0009 Drywell Pressure

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: DW PRESS
 Point ID: SPDS0009
 Plant Spec Point Desc: DRYWELL PRESSURE - COMPOSED
 GenericCond Desc: Drywell Pressure

Analog/Digital: A
 Engr Units/Dig States: PSIG
 Engr Units: N/A
 Minimum Instr Range: -15
 Maximum Instr Range: 300
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: P
 Number of Sensors: 6
 How Processed: Weighted Average w/Fault Detect (PSVA)
 Sensor Locations: N/A
 Alarm/Trip Set Points: See below

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

Unique System Desc : Alarm: Run: HIHI=2.45 HI=1.96 LO=1.15 LOLO=1.1
 Startup/Shutdown/Refuel: HIHI=2.45 HI=1.96

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ERDS Point Number: 22 DW TEMP SPDS0010 Drywell Temperature

Date: 12/19/2000

Reactor Unit: BF3

Data Feeder: 1

NRC ERDS Parameter: DW TEMP

Point ID: SPDS0010

Plant Spec Point Desc: DRYWELL TEMPERATURE - COMPOSED

GenericCond Desc: Drywell Temperature

Analog/Digital: A

Engr Units/Dig States: DEGF

Engr Units: N/A

Minimum Instr Range: 0

Maximum Instr Range: 400

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: P

Number of Sensors: 2

How Processed: Weighted Average w/Fault Detect (PSVA)

Sensor Locations:

Alarm/Trip Set Points: See Below

NID Power Cutoff Level: N/A

NID Power Cut-On: N/A

Instrument Failure Mode: N/A

Temperature Compensation: N

Level Reference Leg: N/A

Unique System Desc : Alarm: Run: HIHI=160 HI=145 LO=100 LOLO=70
Startup: HIHI=160 HI=145 LO=90 LOLO=70
Shutdown/Refuel: HIHI=160 HI=145 LO=65 LOLO=60

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ERDS Point Number: 23 SP TEMP SPDS0016 Suppression Pool Temperature

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: SP TEMP
 Point ID: SPDS0016
 Plant Spec Point Desc: SUPPR PL WTR TEMP - COMPOSED
 GenericCond Desc: Suppression Pool Temperature

Analog/Digital: A
 Engr Units/Dig States: DEGF
 Engr Units: N/A
 Minimum Instr Range: 30
 Maximum Instr Range: 230
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS: P
 Number of Sensors: 16
 How Processed: Average (PSVA)
 Sensor Locations: Around Circumference of Torus
 Alarm/Trip Set Points: All modes: HIHI=95 HI=93 LOLO=50

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

Unique System Desc: There are 4 inputs actually scanned by the computer.
 Two of these 4 are made of 8 individual sensors that are hardware averaged. The other 2 are selected individual sensors from the total 16 sensors.

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ERDS Point Number: 24 SP LEVEL SPDS0013 Suppression Pool Water Level

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: SP LEVEL
Point ID: SPDS0013
Plant Spec Point Desc: SUPPR PL WTR LVL (IN) - COMPOSED
GenericCond Desc: Suppression Pool Water Level

Analog/Digital: A
Engr Units/Dig States: INCHES
Engr Units: N/A
Minimum Instr Range: -181.45
Maximum Instr Range: 58.55
Zero Point Reference: Below
Reference Point Notes: 181.45 inches above Torus Bottom

PROC or SENS: P
Number of Sensors: 4
How Processed: Weighted Average w/Fault Detect (PSVA)
Sensor Locations: N/A
Alarm/Trip Set Points: See Below

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: All modes: HIHI = -1 HI = -2 LO = -5.5 LOLO = -6.25

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ERDS Point Number: 25 H2 CONC SPDS0017 Drywell or Torus Hydrogen Level

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: H2 CONC
Point ID: SPDS0017
Plant Spec Point Desc: DRYWELL H2 - COMPOSED
GenericCond Desc: Drywell or Torus Hydrogen Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 20
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Weighted Average w/Fault Detect (PSVA)
Sensor Locations: N/A
Alarm/Trip Set Points: All modes: HIHI=2.4 HI=2.0 LOLO=0.10

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: N/A
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: There are 2 sensors that can be switched between the Torus and Drywell. Normally 1 is set to each; therefore, this point may be difficult to interpret.

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ERDS Point Number: 26 O2 CONC 76-43 Drywell or Torus Oxygen Level

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: O2 CONC
Point ID: 76-43
Plant Spec Point Desc: DRYWELL OXYGEN CONCENTRATION
GenericCond Desc: Drywell or Torus Oxygen Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units: N/A
Minimum Instr Range: 0
Maximum Instr Range: 5
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Polynomial
Sensor Locations: N/A
Alarm/Trip Set Points: All modes: HIHI=4.5 HI=4.0 LOLO=0.10

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: There are 2 sensors that can be switched between the Torus and Drywell. Normally 1 is set to each; therefore, this point may be difficult to interpret.

ERDS Point Number: 27 CST LEVEL 2-165 Condensate Storage Tank Level

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: CST LEVEL
 Point ID: 2-165
 Plant Spec Point Desc: CST #3 (UNIT 3) LEVEL
 GenericCond Desc: Condensate Storage Tank Level

Analog/Digital: A
 Engr Units/Dig States: FEET
 Engr Units 28 feet = 375,000 GALLONS
 Minimum Instr Range: 0
 Maximum Instr Range: 32
 Zero Point Reference: Below
 Reference Point Notes: 2 feet above bottom of tank

PROC or SENS S
 Number of Sensors: 1
 How Processed: Polynomial
 Sensor Locations: N/A
 Alarm/Trip Set Points: All modes: HIHI=29 HI=27 LO=12 LOLO=10

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation : N
 Level Reference Leg: N/A
 Unique System Desc : Zero point reference is 2 feet above the bottom of the tank.

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ERDS Point Number: 28 WIND SPEED MET001 Wind Speed - Upper Level

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: WIND SPEED
 Point ID: MET001
 Plant Spec Point Desc: 91M VECTOR WIND SPEED (15 MIN AVG)
 GenericCond Desc: Wind Speed - Upper Level

Analog/Digital: A
 Engr Units/Dig States: m/sec
 Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc:

The CECC computer system supplies the data for this point.

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ERDS Point Number: 29 WIND SPEED MET002 Wind Speed - Intermediate Level

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: WIND SPEED
Point ID: MET002
Plant Spec Point Desc: 46M VECTOR WIND SPEED (15 MIN AVG)
GenericCond Desc: Wind Speed - Intermediate Level

Analog/Digital: A
Engr Units/Dig States: m/sec
Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc:

The CECC computer system supplies the data for this point.

ERDS Point Number: 30 WIND SPEED MET003 Wind Speed - Lower Level

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: WIND SPEED
 Point ID: MET003
 Plant Spec Point Desc: 10M VECTOR WIND SPEED (15 MIN AVG)
 GenericCond Desc: Wind Speed - Lower Level

Analog/Digital: A
 Engr Units/Dig States: m/sec
 Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc:

The CECC computer system supplies the data for this point.

ERDS Point Number: 31 WIND DIR MET004 Wind Direction - Upper Level

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: WIND DIR
 Point ID: MET004
 Plant Spec Point Desc: 91M VECTOR WIND DIR (15 MIN AVG)
 GenericCond Desc: Wind Direction - Upper Level

Analog/Digital: A
 Engr Units/Dig States: DEG
 Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc: Wind direction indicates the direction from which the wind is blowing.

The CECC computer system supplies the data for this point.

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ERDS Point Number: 32 WIND DIR MET005 Wind Direction - Intermed. Level

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: WIND DIR
Point ID: MET005
Plant Spec Point Desc: 46M VECTOR WIND DIR (15 MIN AVG)
GenericCond Desc: Wind Direction - Intermed. Level

Analog/Digital: A
Engr Units/Dig States: DEG
Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: Wind direction indicates the direction from which the wind is blowing.

The CECC computer system supplies the data for this point.

ERDS Point Number: 33 WIND DIR MET006 Wind Direction - Lower Level

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 0
 NRC ERDS Parameter: WIND DIR
 Point ID: MET006
 Plant Spec Point Desc: 10M VECTOR WIND DIR (15 MIN AVG)
 GenericCond Desc: Wind Direction - Lower Level

Analog/Digital: A
 Engr Units/Dig States: DEG
 Engr Units: 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 Set Points: No Alarms

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation: N
 Level Reference Leg: N/A
 Unique System Desc: Wind direction indicates the direction from which the wind is blowing.

The CECC computer system supplies the data for this point.

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ERDS Point Number: 34 STAB CLASS MET007 editStability

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET007
 Plant Spec Point Desc: Stability Class Upper
 GenericCond Desc: editStability
 Analog/Digital:
 Engr Units/Dig States: STABA
 Engr Units
 Minimum Instr Range:
 Maximum Instr Range:
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS P
 Number of Sensors: 2
 How Processed:
 Sensor Locations:
 Alarm/Trip Set Points: No Alarms
 NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: N/A
 Temperature Compensation : N
 Level Reference Leg: N/A
 Unique System Desc : Differential Temperature Upper-Lower (deg C) (from CECC)

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

ERDS Point Number: 35 STAB CLASS MET008 Air Stability Intermediate

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET008
 Plant Spec Point Desc: Stability Class Intermediate
 GenericCond Desc: Air Stability Intermediate

Analog/Digital:
 Engr Units/Dig States: STABA
 Engr Units
 Minimum Instr Range:
 Maximum Instr Range:
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS P
 Number of Sensors: 2
 How Processed:
 Sensor Locations:
 Alarm/Trip Set Points: No Alarms

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: N/A
 Temperature Compensation : N
 Level Reference Leg: N/A
 Unique System Desc : Differential Temperature Upper-Intermed. (deg C)(from CECC)

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

ERDS Point Number: 36 STAB CLASS MET009 Air Stability Lower

Date: 12/19/2000
 Reactor Unit: BF3
 Data Feeder: 1
 NRC ERDS Parameter: STAB CLASS
 Point ID: MET009
 Plant Spec Point Desc: Stability Class Lower
 GenericCond Desc: Air Stability Lower

Analog/Digital:
 Engr Units/Dig States: STABA
 Engr Units
 Minimum Instr Range:
 Maximum Instr Range:
 Zero Point Reference: N/A
 Reference Point Notes: N/A

PROC or SENS P
 Number of Sensors: 2
 How Processed:
 Sensor Locations:
 Alarm/Trip Set Points: No ALarms

NID Power Cutoff Level: N/A
 NID Power Cut-On: N/A
 Instrument Failure Mode: LOW
 Temperature Compensation : N
 Level Reference Leg: N/A
 Unique System Desc : Differential Temperature Intermed-Lower (deg C) (from CECC)

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

ERDS Point Number: 37

TYPEDATA REAL/SIMULATED

Date: 12/19/2000

Reactor Unit: BF3

Data Feeder: 1

NRC ERDS Parameter:

Point ID: TYPEDATA

Plant Spec Point Desc: REAL/SIMULATED

GenericCond Desc: REAL/SIMULATED

Analog/Digital: A

Engr Units/Dig States: REAL/SIMU

Engr Units: 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 Set Points: N/A

NID Power Cutoff Level: N/A

NID Power Cut-On: 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.

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ERDS Point Number: 38 EFF GAS RAD SPDS0024 Radioactivity of Released Gasses

Date: 12/19/2000
Reactor Unit: BF3
Data Feeder: 1
NRC ERDS Parameter: EFF GAS RAD
Point ID: SPDS0024
Plant Spec Point Desc: STACK RELEASE RATE - COMPOSED
GenericCond Desc: Radioactivity of Released Gasses

Analog/Digital: A
Engr Units/Dig States: Ci/SEC
Engr Units: N/A
Minimum Instr Range: 0.0
Maximum Instr Range: 200
Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: See Below
Sensor Locations: Plant Stack
Alarm/Trip Set Points: All modes: HIHI=140 HI=14

NID Power Cutoff Level: N/A
NID Power Cut-On: N/A
Instrument Failure Mode: LOW
Temperature Compensation: N
Level Reference Leg: N/A
Unique System Desc: How Processed:
Stack flow (cfm) X Stack Release (uCi/cc) (MULT)