



February 26, 1992
NRC-92-0033

Mr. John R. Jolicoeur
ERDS Project Manager
Mail Stop MNBB 3206
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

- References:
- 1) Fermi 2
NRC Docket No. 50-341
NRC License No. NPF-43
 - 2) 10 CFR Part 50, Emergency Response Data System,
Final Rule, Federal Register (56 FR 40178),
dated August 13, 1991
 - 3) NUREG-1394, Rev. 1, "Emergency Response Data System
(ERDS) Implementation," dated June 1991
 - 4) Detroit Edison Letter to NRC, "Fermi 2 Emergency
Response Data System (ERDS) Implementation Program
Plan," NRC-91-0132, dated October 28, 1991

Subject: Submittal of ERDS Data Point Library for Fermi 2

As discussed in Detroit Edison letter to the NRC dated October 28, 1991 (Reference 4) enclosed is the ERDS Data Point Library for Fermi 2. This Data Point Library has been prepared in accordance with NUREG-1394, Rev. 1 (Reference 3).

As described in Reference 4, assuming the NRC approval of this Data Point Library by June 1992, Detroit Edison expects to complete the Engineering Design Package (EDP) on ERDS by July 1992. As committed to in the Reference 4 letter, implementation of the EDP is expected to be completed by November 1992 and the ERDS will be available for use at Fermi 2 by February 13, 1993.

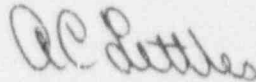
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Mr. John R. Jolicoeur
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If you have any questions, please contact Mr. Girija S. Shukla at
(313) 586-4270.

Sincerely,



A. C. Settles
Director, Nuclear Licensing

Enclosure

ACS/raa

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DETROIT EDISON - FERMI 2
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Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NI POWER RNG</u>
Point ID:	<u>B11SN029</u>
Plant Spec Point Desc.:	<u>Neutron Monitoring APRM A</u>
Generic/Cond Desc.:	<u>Nuclear Instruments, Power Range</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig Stater:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>125</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>021</u>
How Processed:	<u>Average</u>
Sensor Locations:	<u>Reactor Core</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Log:	<u>N/A</u>
Unique System Desc:	<u>Alarm conditions are: High neutron flux alarm at 118% run mode, 15% startup mode, 3% shutdown mode and 3% refuel mode.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NI POWER RNG</u>
Point ID:	<u>B11SN030</u>
Plant Spec Point Desc.:	<u>Neutron Monitoring APRM B</u>
Generic/Cond Desc.:	<u>Nuclear Instruments, Power Range</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>125</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>022</u>
How Processed:	<u>Average</u>
Sensor Locations:	<u>Reactor Core</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Ldg:	<u>N/A</u>
Unique System Desc:	<u>Alarm conditions are: High neutron flux alarm at 118% run mode, 15% startup mode, 3% shutdown mode and 3% refuel mode.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NI POWER RNG</u>
Point ID:	<u>B11SN031</u>
Plant Spec Point Desc.:	<u>Neutron Monitoring APRM C</u>
Generic/Cond Desc.:	<u>Nuclear Instruments Power Range</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>125</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>021</u>
How Processed:	<u>Average</u>
Sensor Locations:	<u>Reactor Core</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u>Alarm conditions are: High neutron flux alarm at 118% run mode, 15% startup mode, 3% shutdown mode and 3% refuel mode.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NI POWER RNG</u>
Point ID:	<u>B11SN032</u>
Plant Spec Point Desc.:	<u>Neutron Monitoring APRM D</u>
Generic/Cond Desc.:	<u>Nuclear Instruments, Power Range</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>125</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SEFIS:	<u>P</u>
Number of Sensors:	<u>022</u>
How Processed:	<u>Average</u>
Sensor Locations:	<u>Reactor Core</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u>Alarm conditions are: High neutron flux alarm at 118% run mode, 15% startup mode, 3% shutdown mode and 3% refuel mode.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter	<u>NI POWER RMG</u>
Point ID:	<u>B11SN033</u>
Plant Spec Point Desc.:	<u>Neutron Monitoring APRM E</u>
Generic/Cond Desc.:	<u>Nuclear Instruments, Power Range</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>125</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>021</u>
How Processed:	<u>Average</u>
Sensor Locations:	<u>Reactor Core</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u>Alarm conditions are: High neutron flux alarm at 118% run mode, 15% startup mode, 3% shutdown mode and 3% refuel mode.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NI POWER RNG</u>
Point ID:	<u>B11SN034</u>
Plant Spec Point Desc:	<u>Neutron Monitoring APRM F</u>
Generic/Cond Desc:	<u>Nuclear Instruments, Power Range</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>125</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>022</u>
How Processed:	<u>Average</u>
Sensor Locations:	<u>Reactor Core</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u>Alarm conditions are. High neutron flux alarm at 118% run mode, 15% startup mode, 3% shutdown mode and 3% refuel mode.</u>

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: NI SOURC RNG
 Point ID: C51DN035
 Plant Spec Point Desc.: Neutron Monitoring SRM A
 Generic/Cond Desc.: Nuclear Instruments, Source Range
 Analog/Digital: A
 Engr Units/Dig States: CPS
 Engr Units Conversion: N/A
 Minimum Instr Range: 0.1
 Maximum Instr Range: 1.0E6
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: See unique system description
 Alarm/Trip/Set Points: See unique system description
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: N/A
 Unique System Desc: Sensor location is in reactor core varied between 18" above
 core center line and 30" below bottom of active fuel. Alarm
 and trip setpoints are as follows:
 Upscale alarm = 1×10^5 cps
 Upscale trip = 2×10^5 cps
 Instrument downscale alarm = 3 cps
 Computer input has no alarm setpoint.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/26/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NI SOURC RNG</u>
Point ID:	<u>C51DN036</u>
Plant Spec Point Desc.:	<u>Neutron Monitoring SRM B</u>
Generic/Cond Desc.:	<u>Nuclear Instruments, Source Range</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>CPS</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0.1</u>
Maximum Instr Range:	<u>1.0E6</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>See unique system description</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<p>Sensor location is in reactor core varied between 18" above core center line and 30" below bottom of active fuel. Alarm and trip setpoints are as follows: Upscale alarm = 1×10^5 cps Upscale trip = 2×10^5 cps Instrument downscale alarm = 3 cps Computer input has no alarm setpoint.</p>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NI SOURC RNG</u>
Point ID:	<u>C51DN037</u>
Plant Spec Point Desc.:	<u>Neutron Monitoring SRM C</u>
Generic/Cond Desc.:	<u>Nuclear Instruments, Source Range</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>CPS</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0.1</u>
Maximum Instr Range:	<u>1.0E6</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>See unique system description</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	Sensor location is in reactor core varied between 18" above core center line and 30" below bottom of active fuel. Alarm and trip setpoints are as follows: Upscale alarm = 1×10^5 cps Upscale trip = 2×10^5 cps Instrument downscale alarm = 3 cps Computer input has no alarm setpoint.

DATA POINT LIBRARY REFERENCE FILE

Date:	02/20/92
Reactor Unit:	FE2
Data Feeder:	N/A
NRC ERDS Parameter:	NI SOURC RNG
Point ID:	C51DN038
Plant Spec Point Desc.:	Neutron Monitoring SRM D
Generic/Cond Desc.:	Nuclear Instruments, Source Range
Analog/Digital:	A
Engr Units/Dig States:	CPS
Engr Units Conversion:	N/A
Minimum Instr Range:	0.1
Maximum Instr Range:	1.0E6
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	001
How Processed:	Direct heading
Sensor Locations:	See unique system description
Alarm/Trip/Set Points:	See unique system description
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	Value = -999 Quality = Bad
Temperature Compensation For DP Transmitters:	N/A
Level Reference Leg:	N/A
Unique System Desc:	Sensor location is in reactor core varied between 18" above core center line and 30" below bottom of active fuel. Alarm and trip setpoints are as follows: Upscale alarm = 1×10^5 cps Upscale trip = 2×10^5 cps Instrument downscale alarm = 3 cps Computer input has no alarm setpoint.

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: REAC VES LEV
 Point ID: B21SL005
 Plant Spec Point Desc.: RPV Water Level Flood Up Range
 Generic/Cond Desc.: Reactor Vessel Water Level
 Analog/Digital: A
 Engr Units/Dig States: INCHES
 Engr Units Conversion: N/A
 Minimum Instr Range: 150
 Maximum Instr Range: 560
 Zero Point Reference: TAF
 Reference Point Notes: N/A
 PROC or SENS: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: Rx Vessel Nozzle, AZ 220⁰, Elev. 675'-12"
 Alarm/Trip/Set Points: N/A
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: WET
 Unique System Desc: _____

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>REAC VES LEV</u>
Point ID:	<u>B215L006</u>
Plant Spec Point Desc.:	<u>RPV Water Level Wide Range Div 1</u>
Generic/Cond Desc.:	<u>Reactor Vessel Water Level</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>INCHES</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>10</u>
Maximum Instr Range:	<u>220</u>
Zero Point Reference:	<u>TAF</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Rx Vessel Nozzle, AZ 40⁰, Elev 630'-11"</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Ead</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>Wet</u>
Unique System Desc:	<u>Plant trip and computer alarm set points are: High at 214". Low at 173.4" for both run and startup modes.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
MRC ERDS Parameter:	<u>REAC VES LEV</u>
Point ID:	<u>B21DL007</u>
Plant Spec Point Desc.:	<u>RPV Water Level Wide Range Div II</u>
Generic/Cond Desc.:	<u>Reactor Vessel Water Level</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>INCHES</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>10</u>
Maximum Instr Range:	<u>220</u>
Zero Point Reference:	<u>TAF</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Rx Vessel Nozzle, AZ 220⁰, Elev. 630'-11"</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>Wet</u>
Unique System Desc:	<u>Plant trip and computer alarm set points are: High at 214". Low at 173.4" for both run and startup modes.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/82</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>REACT VES LEV</u>
Point ID:	<u>C32DL008</u>
Plant Spec Point Desc.:	<u>RPV Water Level Narrow Range Div I</u>
Generic/Cond Desc.:	<u>Reactor Vessel Water Level</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>INCHES</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>160</u>
Maximum Instr Range:	<u>220</u>
Zero Point Reference:	<u>TAF</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Rx vessel nozzle (N11A), AZ 40⁰ Elev. 843'-6"</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Leve. Reference Leg:	<u>Wet</u>
Unique System Desc:	<u>Feedwater system alarm conditions are: High alarm at 202", Low alarm at 193". Plant trip and computer alarm setpoints are: High at 214" and Low at 173.4".</u>

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: REAC VES LEV
 Point ID: C32SL009
 Plant Spec Point Desc.: RPV Water Level Narrow Range Div II
 Generic/Cond Desc.: Reactor Vessel Water Level
 Analog/Digital: A
 Engr Units/Dig States: INCHES
 Engr Units Conversion: N/A
 Minimum Instr Range: 160
 Maximum Instr Range: 220
 Zero Point Reference: TAF
 Reference Point Notes: N/A
 PROC or SENS: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: Rx vessel nozzle, (N11B), AZ 220², Elev 643'-6"
 Alarm/Trip/Set Points: See unique system description
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: Wet
 Unique System Desc: Feedwater system alarm conditions are: High alarm at 202".
 Low alarm at 193". Plant trip and computer alarm setpoints
 are: High at 214" and low at 173.4".

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>REAC VES LEV</u>
Point ID:	<u>B21DL010</u>
Plant Spec Point Desc.:	<u>RPV Water Level Fuel Zone Div I</u>
Generic/Cond Desc.:	<u>Reactor Vessel Water Lev</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>INCHES</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>-150</u>
Maximum Instr Range:	<u>50</u>
Zero Point Reference:	<u>TAF</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Rx vessel nozzle, AZ 40^D, Elev. 650'-6"</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>WET</u>
Unique System Desc:	<u>Due to the range of this instrument, the computer would provide a low reactor water level status alarm for any "on scale" indication.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>REAC VES LEV</u>
Point ID:	<u>B21DL011</u>
Plant Spec Point Desc.:	<u>RPV Water Level Fuel Zone Div II</u>
Generic/Cond Desc.:	<u>Reactor Vessel Water Level</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>INCHES</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>-150</u>
Maximum Instr Range:	<u>50</u>
Zero Point Reference:	<u>TAF</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Rx vessel nozzle, AZ 220⁰, Elev 650'- 6"</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>Wet</u>
Unique System Desc:	Due to the range of this instrument, the computer would provide a low reactor water level status alarm for any "on scale" indication.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>MAIN FD FLOW</u>
Point ID:	<u>C32SF250</u>
Plant Spec Point Desc.:	<u>Total Feedwater Flow</u>
Generic/Cond Desc.:	<u>Feedwater Flow into the Reactor System</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>MLB/HR</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>17</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>002</u>
How Processed:	<u>Sum</u>
Sensor Locations:	<u>See unique system description</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	Two flow sensors are used; one for each of the two 24" main feedwater pipelines. One sensor is located in one of the pipelines at elevation 635'-3". The other is located in the other pipeline at elevation 635'-2 5/16".

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NL</u>
Point ID:	<u>N21SF003</u>
Plant Spec Point Desc.:	<u>North Reactor Feed Pump Flow</u>
Generic/Cond Desc.:	<u>North Reactor Feed Pump Flow</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>GPM</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>17500</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>In 24" Pipe on Suction Side of Pump</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	02/20/92
Reactor Unit:	FE2
Data Feeder:	N/A
NRC ERI-S Parameter:	NL
Point ID:	N21SF004
Plant Spec Point Desc.:	South Reactor Feed Pump Flow
Generic/Cond Desc.:	South Reactor Feed Pump Flow
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0
Maximum Instr Range:	17500
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	001
How Processed:	Direct Reading
Sensor Locations:	In 24" Pipe on Suction Side of Pump
Alarm/Trip/Set Points:	N/A
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	Value = -999 Quality = Bad
Temperature Compensation For DP Transmitters:	N/A
Level Reference Leg:	N/A
Unique System Desc:	

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92

Reactor Unit: FE2

Data Feeder: N/A

NRC ERDS Parameter: RCIC FLOW

Point ID: E51SF023

Plant Spec Point Desc.: RCIC Pump Flow

Generic/Cond Desc.: Reactor Core Isolation Cooling Flow

Analog/Digital: A

Engr Units/Dig States: GPM

Engr Units Conversion: 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: 001

How Processed: Direct Reading

Sensor Locations: Pump Discharge Pipe

Alarm/Trip/Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A

NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Value = -999 Quality = Bad

Temperature Compensation
For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc:

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>RCS PRESSURE</u>
Point ID:	<u>B21DP020</u>
Plant Spec Point Desc.:	<u>RPV Press Wide Range (PAM) A</u>
Generic/Cond Desc.:	<u>Reactor Coolant System Pressure</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>PSIG</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>1500</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Rx Vessel Nozzle, AZ 40⁰, Elev 650'-6"</u>
Alarm/Trip/Set Points:	<u>High Alarm at 1068 PSIG</u>
N1 Detector Power Supply Cut-off Power Level:	<u>N/A</u>
N1 Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>RCS PRESSURE</u>
Point ID:	<u>B21DP021</u>
Plant Spec Point Desc.:	<u>RPV Press Wide Range (PAM) B</u>
Generic/Cond Desc.:	<u>Reactor Coolant System Pressure</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>PSIG</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>1500</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Rx Vessel Nozzle, AZ 220⁰, Elev 650'-6"</u>
Alarm/Trip/Set Points:	<u>High Alarm at 1068 PSIG</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>HPCI FLOW</u>
Point ID:	<u>E41SF024</u>
Plant Spec Point Desc.:	<u>HPCI Pump Flow</u>
Generic/Cond Desc.:	<u>High Pressure Coolant Injection Flow</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>GPM</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>6000</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Note:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Pump Discharge Pipe</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>LPCI FLOW</u>
Point ID:	<u>E11DF0/2</u>
Plant Spec Point Desc.:	<u>RHR Flow Loop A</u>
Generic/Cond Desc.:	<u>Low Pressure Coolant Injection Flow</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>GPM</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>28,000</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>RHR System 24" Pipe Inside Reactor Building</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>LPCI FLOW</u>
Point ID:	<u>E11DF073</u>
Plant Spec Point Desc.:	<u>RHR Flow Loop B</u>
Generic/Cond Desc.:	<u>Low Pressure Coolant Injection Flow</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>GPM</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>28,000</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>RHR System 24" Pipe Inside Reactor Building</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>CR SPRAY FL</u>
Point ID:	<u>E21DF094</u>
Plant Spec Point Desc.:	<u>Core Spray System Flow Loop A</u>
Generic/Cond Desc.:	<u>Core Spray Cooling System Flow</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>GPM</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>9150</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Mounted in 14" discharge pipe</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>07/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>CR SPRAY FL</u>
Point ID:	<u>E21DF095</u>
Plant Spec Point Desc.:	<u>Core Spray System Flow Loop B</u>
Generic/Cond Desc.:	<u>Core Spray Cooling System Flow</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>GPM</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>9150</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Mounted in 14" discharge pipe</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Lag:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: DW FD SMP LV
 Point ID: G11DL121
 Plant Spec Point Desc.: Drywell Floor Drain Sump Level
 Generic/Cond Desc.: Drywell Floor Drain Sump Level
 Analog/Digital: A
 Engr Units/Dig States: INCHES
 Engr Units Conversion: N/A
 Minimum Instr Range: 0
 Maximum Instr Range: 42
 Zero Point Reference: TNKBOT
 Reference Point Notes: Sensor is 12" from the sump bottom
 PROC or SENS: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: Drywell Fir Drains Sump
 Alarm/Trip/Set Points: N/A
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: Wet
 Unique System Desc:

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>EFF GAS RAD</u>
Point ID:	<u>D11RR716</u>
Plant Spec Point Desc.:	<u>SGTS Exhaust Rad I - Noble Gas</u>
Generic/Cond Desc.:	<u>Radioactivity of Released Gasses</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>uCi/CC</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>10^{-7} uCi/CC</u>
Maximum Instr Range:	<u>10^6 uCi/CC</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>004</u>
How Processed:	<u>See unique system description</u>
Sensor Locations:	<u>SGTS exh Div I, EI 690'-03"/692'-06"</u>
Alarm/Trip/Set Points:	<u>High alarm at $4.0E^{-6}$ uCi/CC</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u>Noble gas radiation is obtained from the Eberline radiation monitoring system every ten minutes. For SGTS Div I, there are 4 channels of data. The individual channels are analyzed to determine the most accurate range. The value of that channel is stored as the selected value.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>EFF GAS RAD</u>
Point ID:	<u>D11RR717</u>
Plant Spec Point Desc:	<u>SGTS Exhaust Rad II - Noble Gas</u>
Generic/Cond Desc:	<u>Radioactivity of Released Gasses</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig Staves:	<u>uCi/CC</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>10^{-7} uCi/CC</u>
Maximum Instr Range:	<u>10^6 uCi/CC</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>004</u>
How Processed:	<u>See unique system description</u>
Sensor Locations:	<u>SGTS exh Div II EI 690'-03"/692'-06"</u>
Alarm/Trip/Set Points:	<u>High alarm at $4.0E^{-6}$ uCi/CC</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	Noble gas radiation is obtained from the Eberline radiation monitoring system every ten minutes. For SGTS Div 2, there are 4 channels of data. The individual channels are analyzed to determine the most accurate range. The value of that channel is stored as the selected value.

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: EFF GAS RAD
 Point ID: D11RR714
 Plant Spec Point Desc.: Reactor Bldg. Vent Rad - Noble Gas
 Generic/Cond Desc.: Radioactivity of Released Gasses
 Analog/Digital: A
 Engr Units/Dig States: uCi/CC
 Engr Units Conversion: N/A
 Minimum Instr Range: 10^{-7} uCi/CC
 Maximum Instr Range: 10^6 uCi/CC
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: P
 Number of Sensors: 003
 How Processed: See unique system description
 Sensor Locations: Rx Bldg Exhaust EL 721'-00"/722'-06"
 Alarm/Trip/Set Points: High alarm at $6.5E^{-5}$ uCi/CC
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: N/A
 Unique System Desc: Noble gas radiation is obtained from the Eberline radiation monitoring system every ten minutes. For Reactor Bldg., there are 3 channels of data. The individual channels are analyzed to determine the most accurate range. The value of that channel is stored as the selected value.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>EFF GAS RAD</u>
Point ID:	<u>D11RR715</u>
Plant Spec Point Desc.:	<u>Turbine Bldg. Vent Rad - Noble Gas</u>
Generic/Cond Desc.:	<u>Radioactivity of Released Gases</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>uCi/CC</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>10^{-7} uCi/CC</u>
Maximum Instr Range:	<u>10^4 uCi/CC</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>002</u>
How Processed:	<u>See unique system description</u>
Sensor Location(s):	<u>Turb Bldg Exh E1 669'-09"/659'-10"</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>NA</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	Noble gas radiation is obtained from the Eberline radiation monitoring system every ten minutes. For Turbine Bldg., there are 2 channels of data. The individual channels are analyzed to determine the most accurate range. The value of that channel is stored as the selected value. Ventilation system trip/computer alarm is set at $1.7E^{-5}$ uCi/CC.

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC EPDS Parameter: EFF GAS RAD
 Point ID: D11RR71B
 Plant Spec Point Desc.: Radwaste Bldg Vent Ren - Noble Gas
 Generic/Cond Desc.: Radioactivity of Released Gases
 Analog/Digital: A
 Engr Units/Dig States: uCi/CC
 Engr Units Conversion: N/A
 Minimum Instr Range: 10^{-7} uCi/CC
 Maximum Instr Range: 10^4 uCi/CC
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: P
 Number of Sensors: 002
 How Processed: See unique system description
 Sensor Locations: Radwaste Bldg Exh Fl 669'-06"/669'-04"
 Alarm/Trip/Set Points: See unique system description
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: N/A
 Unique System Desc: Noble gas radiation is obtained from the Eberline radiation monitoring system every ten minutes. For Radwaste Bldg., there are 2 channels of data. The individual channels are analyzed to determine the most accurate range. The value of that channel is stored as the selected value. Ventilation system trip/computer alarm is set at $1.2E^{-3}$ uCi/CC.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERL'S Parameter:	<u>CND A/E RAD</u>
Point ID:	<u>D11DR266</u>
Plant Spec Point Desc.:	<u>SJAE Radiation Mon A</u>
Generic/Cond Desc.:	<u>Condenser Air Ejector Radioactivty</u>
Analog/Digital:	<u>A</u>
Engr Unity/Dig States:	<u>MR/HR</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>1.0</u>
Maximum Instr Range:	<u>1.0E6</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Offgas System 2.2 Min Delay Pipe</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	Alarm setpoints are as follows: Upscale trip = 750 mR/hr (Plant and computer alarm) Downscale trip = 1 mR/hr (Plant alarm) High High Alarm = 1000 mR/hr (Plant alarm)

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: CND A/E RAD
 Point ID: D11DR301
 Plant Spec Point Desc.: SJAE Radiation Mon B
 Generic/Cond Desc.: Condenser Air Ejector Radioactivity
 Analog/Digital: A
 Engr Units/Dig States: MR/HR
 Engr Units Conversion: N/A
 Minimum Instr Range: 1.0
 Maximum Instr Range: 1.0E6
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: Offgas System 2.2 Min Delay Pipe
 Alarm/Trip/Set Points: See unique system description
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: N/A
 Unique System Desc: Alarm and trip setpoints are as follows:
 Upscale trip = 750 mR/hr (Plant and computer alarm)
 Downscale trip = 1mR/hr (Plant alarm)
 High High alarm = 1000 r/hr (Plant alarm)

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/82
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: DW RAD
 Point ID: D11DR040
 Plant Spec Point Desc.: Containment High Range Div I Rad Mon
 Generic/Cond Desc.: Radiation Level in the Drywell
 Analog/Digital: A
 Engr Units/Dig States: R/HR
 Engr Units Conversion: N/A
 Minimum Instr Range: 1
 Maximum Instr Range: 1.0E8
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: Rx Bldg inside drywell AZ 302⁰ El. 605'
 Alarm/Trip/Set Points: See unique system description.
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: N/A
 Unique System Desc: Alarm setpoints are as follows:
 Alert = 500 R/HR (Plant alarm)
 High Radiation = 1000 R/HR (Plant and computer alarm)

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: DW RAD
 Point ID: D11DR163
 Plant Spec Point Desc.: Containment High Range Div II Rad Mon
 Generic/Cond Desc.: Radiation Level in the Drywell
 Analog/Digital: A
 Engr Units/Dig States: R/HR
 Engr Units Conversion: N/A
 Minimum Instr Range: 1
 Maximum Instr Range: 1.0E8
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: EI 605'-0" at AZ 125^O
 Alarm/Trip/Set Points: See unique system description
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: N/A
 Unique System Desc: Alarm setpoints are as follows:
 Alert = 500 R/HR (Plant alarm)
 High Radiation = 1000 R/HR (Plant and computer alarm)

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/82</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>MN STEAM RAD</u>
Point ID:	<u>D11DR039</u>
Plant Spec Point Desc.:	<u>Main Steam Line Rad C</u>
Generic/Cond Desc.:	<u>Radiation Level of the Main Steam Line</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>MR/Hr</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>1</u>
Maximum Instr Range:	<u>1.0E6</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>613' -6" Reactor Bldg G-4 (Steam Tunnel)</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	High radiation level alarm is 2800 mR/hr. Instrument failure alarm is 1 mR/hr downscale. Trip setpoint is 3000 mR/hr. Computer input has no alarm setpoint.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>DW PRESS</u>
Point ID:	<u>T50DP097</u>
Plant Spec Point Desc.:	<u>Drywell Pressure Wide Range Div 1</u>
Generic/Cond Desc.:	<u>Drywell Pressure</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>PSIG</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>250</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Drywell penet AZ 330⁰, Elev. 630'-3"</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE
 Data Feeder: N/A
 NRC ERDS Parameter: DW PRESS
 Point ID: T50DP098
 Plant Spec Point Desc.: Drywell Pressure Wide Range C iv II
 Generic/Cond Desc.: Drywell Pressure
 Analog/Digital: A
 Engr Units/Dig States: PSIG
 Engr Units Conversion: N/A
 Minimum Instr Range: 0
 Maximum Instr Range: 250
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: Drywell Penet AZ 187^C -30', Elev. 630'-3"
 Alarm/Trip/Set Points: N/A
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: N/A
 Unique System Desc: _____

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>DV/ PRESS</u>
Point ID:	<u>T50DP099</u>
Plant Spec Point Desc:	<u>Drywell Pressure Narrow Range Div 1</u>
Generic/Cond Desc:	<u>Drywell Pressure</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>PSIG</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>-5.00</u>
Maximum Instr Range:	<u>5.00</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>0:1</u>
How Processed:	<u>Direct Reading</u>
Sensor Location:	<u>Elev. 630'-3" at Azimuth 330^o</u>
Alarm/Trip/Set Points:	<u>High/Low alarm = 1.60/-0.68 PSIG</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>DW PRESS</u>
Point ID:	<u>T50DP100</u>
Plant Spec Point Desc:	<u>Drywell Pressure Narrow Range Div II</u>
Generic/Cond Desc:	<u>Drywell Pressure</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>PSIG</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>-5.0</u>
Maximum Instr Range:	<u>5.0</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Drywell Penet. AZ 187⁰-30', Elev. 630'-3"</u>
Alarm/Trip/Set Points:	<u>High/Low Alarm = 1.68/-0.68 PSIG</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: DW TEMP
 Point ID: T47CT206
 Plant Spec Point Desc.: Drywell Temp Volumetric Avg.
 Generic/Cond Desc.: Drywell Temperature
 Analog/Digital: A
 Engr Units/Dig States: DEGF
 Engr Units Conversion: N/A
 Minimum Instr Range: 0
 Maximum Instr Range: 450
 Zero Point Reference: N/A
 Reference Point Notes: N/A
 PROC or SENS: P
 Number of Sensors: 028
 How Processed: Volumetric Weighted Average of 28 Inputs
 Sensor Locations: See Unique System Description
 Alarm/Trip/Set Points: High Alarm at 145^oF
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: N/A
 Unique System Desc: There are a total of 28 thermocouples. 4 at elevation 590', 10 at elev 597', 4 at elev 621', 4 at elev 647', 4 at elev 662' and 2 at elev 665'

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>SP TEMP</u>
Point ID:	<u>T23CT005</u>
Plant Spec Point Desc.:	<u>Torus Water Temperature Avg.</u>
Generic/Cond Desc.:	<u>Suppression Pool Temperature</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>DEGF</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>60</u>
Maximum Instr Range:	<u>260</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>008</u>
How Processed:	<u>Average of 8 healthy input is calculated</u>
Sensor Locations:	<u>See unique system description</u>
Alarm/Trip/Set Points:	<u>High Alarm at 95^oF</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	There are 8 thermocouples located on the same elevation (556'-01") but at different lateral locations in the torus as follows: 22 ^o , 67 ^o , 112 ^o , 157 ^o , 202 ^o , 247 ^o , 292 ^o and 337 ^o . Validity of torus water temperature is partially determined by torus water level. If the water level is below the level of the torus T/C, this data is flagged as bad.

DATA POINT LIBRARY REFERENCE FILE

Date: 02/20/92
 Reactor Unit: FE2
 Data Feeder: N/A
 NRC ERDS Parameter: SP LEVEL
 Point ID: T5DOL110
 Plant Spec Point Desc.: Torus Water Level Wide Range
 Generic/Cond Desc.: Suppression Pool Water Level
 Analog/Digital: A
 Engr Units/Dig States: INCHES
 Engr Units Conversion: N/A
 Minimum Instr Range: -144
 Maximum Instr Range: 56
 Zero Point Reference: COMPLX
 Reference Point Notes: Normal Wtr Lvl is 0" from torus CL
 Processor Status: S
 Number of Sensors: 001
 How Processed: Direct Reading
 Sensor Locations: Rx Bldg Sub Basement
 Alarm/Trip/Set Points: N/A
 NI Detector Power Supply
 Cut-off Power Level: N/A
 NI Detector Power Supply
 Turn-on Power Level: N/A
 Instrument Failure Mode: Value = -999 Quality = Bad
 Temperature Compensation
 For DP Transmitters: N/A
 Level Reference Leg: WET
 Unique System Desc: Inside diameter of torus is 30'6"
 Zero point reference is 14'-6" of torus water level
 Center line of torus is at elev 557'9"

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>SP LEVEL</u>
Point ID:	<u>E41DL120</u>
Plant Spec Point Desc.:	<u>Torus Water Level Narrow Range Div 1</u>
Generic/Cond Desc.:	<u>Suppression Pool Water Level</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>INCHES</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>-10</u>
Maximum Instr Range:	<u>10</u>
Zero Point Reference:	<u>COMPLX</u>
Reference Point Notes:	<u>See unique system description</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>Elev. 551' 4" on torus</u>
Alarm/Trip/Set Points:	<u>Low alarm at -2", High alarm at +2"</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>Y</u>
Level Reference Leg:	<u>Wet</u>
Unique System Desc:	<u>Inside diameter of torus is 30'6". Zero Point Reference is 14'6" of Torus water level Center line of Torus is at elev. 557'9"</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>F52</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>H2 CONC</u>
Point ID:	<u>1 JL255</u>
Plant Spec Point Desc.:	<u>Containment H2 Level Div I</u>
Generic/Cond Desc.:	<u>Drywell or Torus Hydrogen Concentration</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>50</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>2nd Fir Rx Bldg instrument rack</u>
Alarm/Trip/Set Points:	<u>High Alarm at 1%</u>
Ni Detector Power Supply Cut-off Power Level:	<u>N/A</u>
Ni Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>H2 : DNC</u>
Point ID:	<u>T50DL293</u>
Plant Spec Point Desc.:	<u>Containment H2 Level Div II</u>
Generic/Cond Desc.:	<u>Drywell or Torus Hydrogen Concentration</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>30</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>3rd Fir Rx Bldg instrument rack</u>
Alarm/Trip/Set Points:	<u>High Alarm at 1%</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u></u>
	<u></u>
	<u></u>
	<u></u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>O2 CONC</u>
Point ID:	<u>T50CL188</u>
Plant Spec Point Desc.:	<u>Containment O2 Level Div I</u>
Generic/Cond Desc.:	<u>Drywell or Torus Oxygen Concentration</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>30</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>003</u>
How Processed:	<u>See Unique System Description</u>
Sensor Locations:	<u>See Unique System Description</u>
Alarm/Trip/Set Points:	<u>High Alarm at 4% O2 Level (Run Mode)</u>
Ni Detector Power Supply Cut-off Power Level:	<u>N/A</u>
Ni Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	This is a calculated point based on the following inputs: 1. Range select 2. O2 level 10% vol 3. O2 Level 30% vol. If the value of range select is 1, then the wide range has been selected and the output point is set to wide range (30%) point. The narrow range point is not scanned. If the value of range select is not 1, then the narrow range has been selected and the output point is set to narrow range (10%) point. The wide range point is not scanned.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>O2 CONC</u>
Point ID:	<u>T50CL189</u>
Plant Spec Point Desc.:	<u>Containment O2 Level Div II</u>
Generic/Cond Desc.:	<u>Drywell or Torus Oxygen Concentration</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>%</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>30</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>003</u>
How Processed:	<u>See unique system description</u>
Sensor Locations:	<u>See unique system description</u>
Alarm/Trip/Set Points:	<u>High Alarm at 4% O₂ Level (Run Mode)</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	This is a calculated point based on the following inputs. 1. Range select; 2. O ₂ level 10% vol; 3. O ₂ level 30% vol. If the value of range select is 1, then the wide range has been selected and the output point is set to wide range (30%) point. The narrow range is not scanned. If the value of the range select is not 1, then the narrow range has been selected and the output point is set to narrow range (10%) point.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NL</u>
Point ID:	<u>T50DC270</u>
Plant Spec Point Desc.:	<u>Drywell/Torus Select Div I</u>
Generic/Cond Desc.:	<u>Drywell/Torus Select Div I</u>
Analog/Digital:	<u>D</u>
Engr Units/Dig States:	<u>On = Drywell</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>N/A</u>
Maximum Instr Range:	<u>N/A</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>See unique system description</u>
Sensor Locations:	<u>N/A</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u>This digital signal is provided by a switch contact. When the contact is closed, the drywell is selected when the contact is opened, the torus is selected. This signal is used to select the oxygen and hydrogen sensor location.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>NL</u>
Point ID:	<u>T50DC311</u>
Plant Spec Point Desc.:	<u>Drywell/Torus Select Div II</u>
Generic/Con.d Desc.:	<u>Drywell/Torus Select Div II</u>
Analog/Digital:	<u>D</u>
Engr Units/Dig States:	<u>On = Drywell</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>N/A</u>
Maximum Instr Range:	<u>N/A</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>See unique system description</u>
Sensor Locations:	<u>N/A</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u>This digital signal is provided by a switch contact. When the contact is closed, the drywell is selected. When the contact is opened, the torus is selected. This signal is used to select the oxygen and hydrogen sensor location.</u>

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>CST LEVEL</u>
Point ID:	<u>P11DL071</u>
Plant Spec Point Desc.:	<u>Condensate Storage Tank Level</u>
Generic/Cond Desc.:	<u>Condensate Storage Tank Level</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>FEET</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>35</u>
Zero Point Reference:	<u>TNKBOT</u>
Reference Point Notes:	<u>See unique system description</u>
PROC or SENS:	<u>S</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>Direct Reading</u>
Sensor Locations:	<u>2 Feet Above the Tank Bottom</u>
Alarm/Trip/Set Points:	<u>See unique system description</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	Level instrumentation uses bourdon tube type with a range of 0-14.2 PSIG for a 0-35 feet level. High level setpoint is 12.14 PSIG (30 Feet). Low level setpoint is 4.12 PSIG (10 Feet). Computer input has no alarm setpoint.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>WIND SPEED</u>
Point ID:	<u>D40MS064</u>
Plant Spec Point Desc.:	<u>10 Meter Wind Speed - 15 Min Avg.</u>
Generic/Cond Desc.:	<u>Wind Speed at the Reactor Site</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>MPH</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>100</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>002</u>
How Processed:	<u>See unique system description</u>
Sensor Locations:	<u>10 Meters above ground at 60 meter tower</u>
Alarm/Trip/Set Points:	<u>None</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	The output of the wind speed transmitter is transmitted to the specific signal translator located in the instrument sheiter at the base of the tower. The voltage output from the signal translator is transmitted to the Meteorological Data Acquisition computer located in the computer room. The Met computer, among its other functions, converts the sensor signal to appropriate engineering units and communicates with the Emergency Response Information System (ERIS) computer. These data received by ERIS is then passed on to ERDS.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>WIND SPEED</u>
Point ID:	<u>D40MS065</u>
Plant Spec Point Desc.:	<u>60 Meter Wind Speed - 15 Min Avg.</u>
Generic/Cond Desc.:	<u>Wind Speed at the Reactor Site</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>MPH</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>100</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>002</u>
How Processed:	<u>See unique system description.</u>
Sensor Locations:	<u>60 Meters above ground at 60 meter tower</u>
Alarm/Trip/Set Points:	<u>None</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	The output of the wind speed transmitter is transmitted to the specific signal translator located in the instrument shelter at the base of the tower. The voltage output from the signal translator is transmitted to the Meteorological Data Acquisition computer located in the computer room. The Met computer, among its other functions, converts the sensor signal to appropriate engineering units and communicates with the Emergency Response Information System (ERIS) computer. These data received by ERIS is then passed on to ERDS.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>WIND DIR</u>
Point ID:	<u>D40MS069</u>
Plant Spec Point Desc.:	<u>10 Meter Wind Direction - 15 Min. Avg.</u>
Generic/Cond Desc.:	<u>Wind Direction at the Reactor Site</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>DEGFR</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>360</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>002</u>
How Processed:	<u>See unique system description.</u>
Sensor Locations:	<u>10 Meters above ground at 60 Meter Tower</u>
Alarm/Trip/Set Points:	<u>None</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	The output of the wind direction transmitter is transmitted to the specific signal translator located in the instrument shelter at the base of the tower. The voltage output from the signal translator is transmitted to the Met computer located in the computer room. The Met computer, among its other functions, converts the sensor signal to appropriate engineering units and communicates with the Emergency Response Information System (ERIS) computer. These data received by ERIS is then passed on to ERDS. Cardinal directions are: North = 0 or 360°, East = 90°, South = 180°, West = 270°.

DATA POINT LIBRARY REFERENCE FILE

Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>WIND DIR</u>
Point ID:	<u>D40MS070</u>
Plant Spec Point Desc.:	<u>60 Meter Wind Direction-15 Min Avg</u>
Generic/Cond Desc.:	<u>Wind Direction at the Reactor Site</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>DEGFR</u>
Engr Units Conversion:	<u>N/A</u>
Minimum Instr Range:	<u>0</u>
Maximum Instr Range:	<u>360</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>001</u>
How Processed:	<u>See unique system description</u>
Sensor Locations:	<u>60 Meters above ground at 60 meter tower</u>
Alarm/Trip/Set Points:	<u>None</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	The output of the wind direction transmitter is sent to the specific signal translator located in the instrument shelter at the base of the tower. The voltage output from the signal translator is transmitted to the Met computer located in the computer room. The Met computer, among its other functions, converts the sensor signal to appropriate engineering units and communicates with the Emergency Response Information System (ERIS) computer. These data received by ERIS is then passed on to ERDS. Cardinal directions are: North = 0 or 360°, East = 90°, South = 180°, West = 270°.

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Date:	<u>02/20/92</u>
Reactor Unit:	<u>FE2</u>
Data Feeder:	<u>N/A</u>
NRC ERDS Parameter:	<u>STAB CLASS</u>
Point ID:	<u>D40MB168</u>
Plant Spec Point Desc.:	<u>Stability Class</u>
Generic/Cond Desc.:	<u>Air Stability at the Reactor Site</u>
Analog/Digital:	<u>A</u>
Engr Units/Dig States:	<u>STABI</u>
Engr Units Conversion:	<u>See unique system description</u>
Minimum Instr Range:	<u>1</u>
Maximum Instr Range:	<u>7</u>
Zero Point Reference:	<u>N/A</u>
Reference Point Notes:	<u>N/A</u>
PROC or SENS:	<u>P</u>
Number of Sensors:	<u>002</u>
How Processed:	<u>See unique system description</u>
Sensor Locations:	<u>See unique system description</u>
Alarm/Trip/Set Points:	<u>N/A</u>
NI Detector Power Supply Cut-off Power Level:	<u>N/A</u>
NI Detector Power Supply Turn-on Power Level:	<u>N/A</u>
Instrument Failure Mode:	<u>Value = -999 Quality = Bad</u>
Temperature Compensation For DP Transmitters:	<u>N/A</u>
Level Reference Leg:	<u>N/A</u>
Unique System Desc:	<u>Measured using differential temperature between 10 & 60 meters. The stability classification is per Reg. Guide 1.21, Table 4B.</u>