

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 15, 1993

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Serial No. 93-006
NL&P/CGL R2
Docket Nos. 50-280
50-281
50-338
50-339
License Nos. DPR-32
DPR-37
NFP-4
NFP-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNITS 1 AND 2
NORTH ANNA POWER STATION UNITS 1 AND 2
EMERGENCY RESPONSE DATA SYSTEM
DATA BASE UPDATES

Modifications were recently made to two (one point per unit) Emergency Response Data System (ERDS) points for air ejector radiation monitor readings for Surry Units 1 and 2, as well as to the meteorological inputs (7 points per unit) for Surry Units 1 and 2 and North Anna Units 1 and 2. The meteorological inputs are now 15 minute running averages of instantaneous instrument readings. The changes, which were made to resolve recent Emergency Response Facility problem reports, are detailed in the Data Point Library (DPL) revision summaries (change reports) contained in Attachments 1 through 4.

Previous transmittals have provided DPL change reports for both Surry and North Anna. In order to ensure that the NRC, NUS, and Virginia Power are referencing the same set of DPLs, updated DPL forms for Surry Units 1 and 2 and North Anna Units 1 and 2 are included in Attachments 5 through 8.

190034

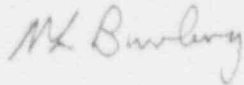
A026
11

9302220176 930215
PDR ADDCK 05000280
F PDR

The updated data base files, documented in Attachments 5 through 8, are also provided in the dBase IV format on Attachment 9.

If you have questions regarding this information, please contact us.

Very truly yours,



M. L. Bowling, Manager
Nuclear Licensing & Programs

Attachments:

1. DPL Revision Summaries for Surry Unit 1
2. DPL Revision Summaries for Surry Unit 2
3. DPL Revision Summaries for North Anna Unit 1
4. DPL Revision Summaries for North Anna Unit 2
5. Updated DPL Forms for Surry Unit 1
6. Updated DPL Forms for Surry Unit 2
7. Updated DPL Forms for North Anna Unit 1
8. Updated DPL Forms for North Anna Unit 2
9. Updated DPL Data Base Files for Surry and North Anna in dBase IV Format

cc: U. S. Nuclear Regulatory Commission - Attachments 1 - 8
Region II
101 Marietta Street, N. W.
Suite 2900
Atlanta, Georgia 30323

Mr. M. W. Branch - Attachments 1 - 8
NRC Senior Resident Inspector
Surry Power Station

Mr. M. S. Lesser - Attachments 1 - 8
NRC Senior Resident Inspector
North Anna Power Station

NUS Corporation / EI Division - Attachments 1 - 9
P. O. Box 59736
Idaho Falls, Idaho 83405
Attention: Mr. Tony LaRosa

ATTACHMENT 1

DPL REVISION SUMMARIES FOR SURRY UNIT 1

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
11/25/92

CHANGED POINT R1RM217C AT 15:18 ON 11/25/92. CHANGES WERE AS FOLLOWS:

DATE: WP 05/20/91
 IS: 11/25/92

MINIMUM INSTR RANGE: WAS: 10.0
 IS: 3.162

DELETED POINT M3MM001A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	09/05/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM001A
PLANT SPEC POINT DESC:	WIND SPEED LOWER (RCOR-1) (NL)
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	35' ON PRIMARY TOWER&30' ON BACKUP TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 35 feet.

DELETED POINT M3MM002A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM002A
PLANT SPEC POINT DESC:	WIND SPEED UPPER (RCOR-2) (NL)
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 150 feet.

DELETED POINT M3MM004A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004A
PLANT SPEC POINT DESC:	WIND DIR LOWER (RCDR-4) (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	35' ON PRIMARY TOWER&30' ON BACKUP TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction at 35 feet.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM005A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM005A
PLANT SPEC POINT DESC:	WIND DIR UPPER (RCDR-5) (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
EK3R UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction at 150 feet.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM006A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM006A
PLANT SPEC POINT DESC:	SIGMA THETA (RCDR-6) (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The output sigma theta signal is the standard deviation around the average direction.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM008A AT 14:20 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM008A
PLANT SPEC POINT DESC:	DELTA T (RCDR-9) (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-5.0
MAXIMUM INSTR RANGE:	15.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	2 RTDs AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Delta T is lower temperature minus upper temperature.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT T3MM001A AT 14:20 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	T3MM001A
PLANT SPEC POINT DESC:	AMB TEMPERATURE (RCDR-7) (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-25.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower.

ADDED POINT M3MM001C AT 14:29 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM001C
PLANT SPEC POINT DESC:	AVG WIND SPEED LOWER
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 35', 15 minute running average computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT M3MM002C AT 14:33 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM002C
PLANT SPEC POINT DESC:	AVG WIND SPEED UPPER
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 150'. 15 minute running average computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT M3MM004C AT 14:36 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004C
PLANT SPEC POINT DESC:	AVG WIND DIR LOWER
GENERIC/COND DESC:	WIND DIR AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction at 35'. 15 minute running vector average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORTPRINTED
01/18/93

ADDED POINT M3MM005C AT 14:45 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM005C
PLANT SPEC POINT DESC:	AVG WIND DIR UPPER
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction

Z-PC WJL 62

STATION: Surry

PRINTED

UNIT: 1

01/18/93

PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

01/15/93 M3MM0050 AT 14:52 ON 01/15/93. CHANGES WERE AS FOLLOWS:

UNIQUE SYSTEM

IDN: WAS: Senses wind direction

IS: Senses wind direction at 150'. 15 minute running vector
average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

ADDED POINT M3MM006C AT 14:55 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM006C
PLANT SPEC POINT DESC:	AVG SIGMA THETA
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The output sigma theta signal is the standard deviation around the average wind direction. 15 minute running average computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT M3MM00BC AT 15:00 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC EROS PARAMETER:	STAB CLASS
POINT ID:	M3MM00BC
PLANT SPEC POINT DESC:	AVG DELTA T
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-5.0
MAXIMUM INSTR RANGE:	150.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	2 RTDS AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Delta T is lower temperature minus upper temperature. 15 minute running average is computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT T3MM001C AT 15:09 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	T3MM001C
PLANT L/EC POINT DESC:	AVG AMBIENT TEMPERATURE
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-13.0
MAXIMUM INSTR RANGE:	122.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower. 15 minute running average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

CHANGED POINT M3MM00BC AT 07:52 ON 01/18/93. CHANGES WERE AS FOLLOWS:

DATE: WAS: 01/15/93
IS: 01/18/93

MAXIMUM INSTR RANGE: WAS: 150.
IS: 15.0

UNIQUE SYSTEM DESCRIPTION: WAS: Delta T is lower temperature minus upper temperature. 15
minute running average is computed every 15 seconds.
IS: Uses the difference of upper temperature and lower
temperature to calculate vertical atmospheric stability. 15
minute running average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

CHANGED POINT M3MM006C AT 07:55 ON 01/18/93. CHANGES WERE AS FOLLOWS:

DATE: WAS: 01/15/93
IS: 01/18/93

UNIQUE SYSTEM DESCRIPTION: WAS: The output sigma theta signal is the standard deviation around the average wind direction. 15 minute running average computed every 15 seconds.
IS: Uses lower wind direction to find the standard deviation of the wind direction angle which is referred to as horizontal atmospheric stability. 15 minute running average computed every 15 seconds.

ATTACHMENT 2

DPL REVISION SUMMARIES FOR SURRY UNIT 2

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
11/25/92

CHANGED POINT R2RM217C AT 15:21 ON 11/25/92. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/20/91
IS: 11/25/92

MINIMUM INSTR RANGE: WAS: 10.0
IS: 3.162

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM001A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	09/05/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERD's PARAMETER:	WIND SPEED
POINT ID:	M3MM001A
PLANT SPEC POINT DESC:	WIND SPEED LOWER (RCDR-1) (NL)
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	35' ON PRIMARY TOWER&30' ON BACKUP TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
HI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
HI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 35 feet.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM002A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM002A
PLANT SPEC POINT DESC:	WIND SPEED UPPER (RCDR-2) (NL)
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 150 feet.

DELETED POINT M3MM004A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004A
PLANT SPEC POINT DESC:	WIND DIR LOWER (RCDR-4) (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	35' ON PRIMARY TOWER&30' ON BACKUP TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction at 35 feet.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORTPRINTED
01/18/93

DELETED POINT M3MM005A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM005A
PLANT SPEC POINT DESC:	WIND DIR UPPER (RCDR-5) (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction at 150 feet.

DELETED POINT M3MM006A AT 14:19 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM006A
PLANT SPEC POINT DESC:	SIGMA THETA (RCDR-6) (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The output sigma theta signal is the standard deviation around the average direction.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM008A AT 14:20 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM008A
PLANT SPEC POINT DESC:	DELTA T (RCDR-9) (NL)
GENERIC/FOND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-5.0
MAXIMUM INSTR RANGE:	15.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	2 RTDs AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Delta T is lower temperature minus upper temperature.

DELETED POINT T3MM001A AT 14:20 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
ERC ERDS PARAMETER:	STAB CLASS
POINT ID:	T3MM001A
PLANT SPEC POINT DESC:	AIR TEMPERATURE (RCDR-7) (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENR/UNITS/DIG STATES:	DEGC
ENR/UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-25.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT ADJUST:	N/A
PROC OR SENS:	F
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT M3MM001C AT 14:29 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM001C
PLANT SPEC POINT DESC:	AVG WIND SPEED LOWER
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 35', 15 minute running average computed every 15 seconds.

ADDED POINT M3MM002C AT 14:33 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM002C
PLANT SPEC POINT DESC:	AVG WIND SPEED UPPER
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 150'. 15 minute running average computed every 15 seconds.

ADDED POINT M3MM004C AT 14:36 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004C
PLANT SPEC POINT DESC:	AVG WIND DIR LOWER
GENERIC/COND DESC:	WIND DIR AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STAT/S:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction at 35'. 15 minute running vector average computed every 15 seconds.

ADDED POINT M3MM005C AT 14:45 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM005C
PLANT SPEC POINT DESC:	AVG WIND DIR UPPER
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction

Page No. 12

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

CHANGED POINT M3MM005C AT 14:52 ON 01/15/93. CHANGES WERE AS FOLLOWS:

UNIQUE SYSTEM DESCRIPTION: WAS: Senses wind direction
IS: Senses wind direction at 150', 15 minute running vector
average computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT M3MM006C AT 14:55 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM006C
PLANT SPEC POINT DESC:	AVG SIGMA THETA
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The output sigma theta signal is the standard deviation around the average wind direction. 15 minute running average computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT M3MM008C AT 15:00 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM008C
PLANT SPEC POINT DESC:	AVG DELTA T
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-5.0
MAXIMUM INSTR RANGE:	150.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	2 RTDS AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Delta T is lower temperature minus upper temperature. 15 minute running average is computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT T3MM001C AT 15:09 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	5.1B CLASS
POINT ID:	T3MM001C
PLANT SPEC POINT DESC:	AVG AMBIENT TEMPERATURE
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-13.0
MAXIMUM INSTR RANGE:	122.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower. 15 minute running average computed every 15 seconds.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

CHANGED POINT M3MM008C AT 07:52 ON 01/18/93. CHANGES WERE AS FOLLOWS:

DATE: WAS: 01/15/93
IS: 01/18/93

MAXIMUM INSTR RANGE: WAS: 150.
IS: 15.0

UNIQUE SYSTEM DESCRIPTION: WAS: Delta T is lower temperature minus upper temperature. 15
minute running average is computed every 15 seconds.
IS: Uses the difference of upper temperature and lower
temperature to calculate vertical atmospheric stability. 15
minute running average computed every 15 seconds.

CHANGED POINT M3MM006C AT 07:55 ON 01/18/93. CHANGES WERE AS FOLLOWS:

DATE: WAS: 01/15/93
IS: 01/18/93

UNIQUE SYSTEM DESCRIPTION: WAS: The output sigma theta signal is the standard deviation around the average wind direction. 15 minute running average computed every 15 seconds.
IS: Uses lower wind direction to find the standard deviation of the wind direction angle which is referred to as horizontal atmospheric stability. 15 minute running average computed every 15 seconds.

ATTACHMENT 3

DPL REVISION SUMMARIES FOR NORTH ANNA UNIT 1

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM001A AT 12:40 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM001A
PLANT SPEC POINT DESC:	WEATHER - SIGMA THETA (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses lower wind direction to find the standard deviation of the wind direction angle which is referred to as horizontal atmospheric stability.

DELETED POINT M3MM002A AT 12:40 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM002A
PLANT SPEC POINT DESC:	WEATHER - UPPER DELTA (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-9.0
MAXIMUM INSTR RANGE:	9.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	2 RTD'S AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses the difference of upper temperature and lower temperature to calculate vertical atmospheric stability.

DELETED POINT M3MM003A AT 12:40 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM003A
PLANT SPEC POINT DESC:	LOWER WIND DIRECTION (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	35' ON PRIMARY & BACKUP TOWERS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 35'.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM004A AT 12:41 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004A
PLANT SPEC POINT DESC:	UPPER WIND DIRECTION (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 150'.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM007A AT 12:57 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM007A
PLANT SPEC POINT DESC:	LOWER WIND SPEED (NL)
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	35' ON PRIMARY & BACKUP TOWERS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 35'.

DELETED POINT M3MM008A AT 12:57 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM008A
PLANT SPEC POINT DESC:	UPPER WIND SPEED (NL)
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 150'.

DELETED POINT T3MM001A AT 12:58 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FIELD:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	T3MM001A
PLANT SPEC POINT DESC:	ATMOS AMBIENT TEMPERATURE (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-22.0
MAXIMUM INSTR RANGE:	122.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower.

ADDED POINT M3MM001C AT 13:11 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM001C
PLANT SPEC POINT DESC:	WEATHER - SIGMA THETA (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/D: STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses lower wind direction to find the standard deviation of the wind direction angle which is referred to as horizontal atmospheric stability. 15 minute running average is computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT M3MM002C AT 13:29 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC EPDS PARAMETER:	STAB CLASS
POINT ID:	M3MM002C
PLANT SPEC POINT DESC:	AVG UPPER DELTA (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-9.0
MAXIMUM INSTR RANGE:	9.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	2 RTD'S AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses the difference of upper temperature and lower temperature to calculate vertical atmospheric stability. 15 minute running average computed every 15 seconds.

ADDED POINT M3MM003C AT 13:33 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM003C
PLANT SPEC POINT DESC:	AVG LOWER WIND DIRECTION (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 35'. 15 minute running average computed every 15 seconds.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

ADDED POINT M3MM004C AT 13:38 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004C
PLANT SPEC POINT DESC:	AVG UPPER WIND DIRECTION
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 150', 15 minute running vector average computed every 15 seconds.

ADDED POINT M3MM007C AT 13:42 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM007C
PLANT SPEC POINT DESC:	AVG LOWER WIND SPEED
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 35'. 15 minute running average computed every 15 seconds.

ADDED POINT M3MM008C AT 13:45 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM008C
PLANT SPEC POINT DESC:	AVG UPPER WIND SPEED
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 150', 15 minute running average computed every 15 seconds.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORTPRINTED
01/18/93

ADDED POINT T3MM001C AT 13:48 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	T3MM001C
PLANT SPEC POINT DESC:	AVG ATMOS AMBIENT TEMPERATURE
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-22.0
MAXIMUM INSTR RANGE:	122.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower. 15 minute running average computed every 15 seconds.

Page No. 15

STATION: North Anna

PRINTED
01/18/93

UNIT: 1

PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

CHANGED POINT M3MM001C AT 14:06 ON 01/15/93. CHANGES WERE AS FOLLOWS:

PLANT SPEC POINT DESC: WAS: WEATHED - SIGMA THETA (NL)
IS: AVG SIGMA THETA

Page No. 16

STATION: North Anna

PRINTED

UNIT: 1

01/18/93

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

CHANGED POINT M3MM002C AT 14:06 ON 01/15/93. CHANGES WERE AS FOLLOWS:

PLANT SPEC POINT DESC: WAS: AVG UPPER DELTA (NL)
IS: AVG UPPER DELTA

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

CHANGED POINT M3MM003C AT 14:08 ON 01/15/93. CHANGES WERE AS FOLLOWS:

PLANT SPEC POINT DESC: WAS: AVG LOWER WIND DIRECTION (NL)
IS: AVG LOWER WIND DIRECTION

HOW PROCESSED: WAS: 15 MINUTE RUNNING AVERAGE
IS: 15 MINUTE RUNNING VECTOR AVERAGE

UNIQUE SYSTEM DESCRIPTION: WAS: Senses the wind direction at 35'. 15 minute running average
computed every 15 seconds.
IS: Senses the wind direction at 35'. 15 minute running vector
average computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

CHANGED POINT M3MM002C AT 07:56 ON 01/18/93. CHANGES WERE AS FOLLOWS:

DATE: WAS: 01/15/93
IS: 01/18/93

PLANT SPEC POINT DESC: WAS: AVG UPPER DELTA
IS: AVG UPPER DELTA T

ATTACHMENT 4

DPL REVISION SUMMARIES FOR NORTH ANNA UNIT 2

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM001A AT 12:40 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	01/13/92
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM001A
PLANT SPEC POINT DESC:	WEATHER - SIGMA THETA (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses lower wind direction to find the standard deviation of the wind direction angle which is referred to as horizontal atmospheric stability.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM002A AT 12:40 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM002A
PLANT SPEC POINT DESC:	WEATHER - UPPER DELTA (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-9.0
MAXIMUM INSTR RANGE:	9.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	2 RTD'S AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses the difference of upper temperature and lower temperature to calculate vertical atmospheric stability.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM003A AT 12:40 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM003A
PLANT SPEC POINT DESC:	LOWER WIND DIRECTION (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	35' ON PRIMARY & BACKUP TOWERS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 35'.

DELETED POINT M3MM004A AT 12:41 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004A
PLANT SPEC POINT DESC:	UPPER WIND DIRECTION (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 150'.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM007A AT 12:57 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM007A
PLANT SPEC POINT DESC:	LOWER WIND SPEED (NL)
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	35' ON PRIMARY & BACKUP TOWERS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 35'.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT M3MM008A AT 12:57 ON 01/15/93 FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM008A
PLANT SPEC POINT DESC:	UPPER WIND SPEED (NL)
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 150'.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

DELETED POINT 13MM001A AT 12:58 ON 01/15/93. FIELDS WERE AS FOLLOWS:

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	13MM001A
PLANT SPEC POINT DESC:	ATMOS AMBIENT TEMPERATURE (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-22.0
MAXIMUM INSTR RANGE:	122.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower.

ADDED POINT M3MM001C AT 13:11 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM001C
PLANT SPEC POINT DESC:	WEATHER - SIGMA THETA (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses lower wind direction to find the standard deviation of the wind direction angle which is referred to as horizontal atmospheric stability. 15 minute running average is computed every 15 seconds.

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

ADDED POINT M3MM002C AT 13:29 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM002C
PLANT SPEC POINT DESC:	AVG UPPER DELTA (NL)
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-9.0
MAXIMUM INSTR RANGE:	9.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	2 RTD'S AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses the difference of upper temperature and lower temperature to calculate vertical atmospheric stability. 15 minute running average computed every 15 seconds.

ADDED POINT M3MM003C AT 13:33 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM003C
PLANT SPEC POINT DESC:	AVG LOWER WIND DIRECTION (NL)
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 35', 15 minute running average computed every 15 seconds.

ADDED POINT M3MM004C AT 13:38 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004C
PLANT SPEC POINT DESC:	AVG UPPER WIND DIRECTION
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 150'. 15 minute running vector average computed every 15 seconds.

ADDED POINT M3MM007C AT 13:42 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM007C
PLANT SPEC POINT DESC:	AVG LOWER WIND SPEED
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 35'. 15 minute running average computed every 15 seconds.

ADDED POINT M3MM008C AT 13:45 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM008C
PLANT SPEC POINT DESC:	AVG UPPER WIND SPEED
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 150'. 15 minute running average computed every 15 seconds.

ADDED POINT T3MM001C AT 13:48 ON 01/15/93 AS FOLLOWS:

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	T3MM001C
PLANT SPEC POINT DESC:	AVG ATMOS AMBIENT TEMPERATURE
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-22.0
MAXIMUM INSTR RANGE:	122.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower. 15 minute running average computed every 15 seconds.

Page No. 15

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

CHANGED POINT M3MM001C AT 14:06 ON 01/15/93. CHANGES WERE AS FOLLOWS:

PLANT SPEC POINT DESC: WAS: WEATHER - SIGMA THETA (NL)
IS: AVG SIGMA THETA

Page No. 16

STATION: North Anna

PRINTED
01/18/93

UNIT: 2

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

CHANGED POINT M3MM002C AT 14:06 ON 01/15/93. CHANGES WERE AS FOLLOWS:

PLANT SPEC POINT DESC: WAS: AVG UPPER DELTA (NL)
IS: AVG UPPER DELTA

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PRINTED
01/18/93

CHANGED POINT M3MM003C AT 14:08 ON 01/15/93. CHANGES WERE AS FOLLOWS:

PLANT SPEC POINT DESC: WAS: AVG LOWER WIND DIRECTION (NL)
IS: AVG LOWER WIND DIRECTION

HOW PROCESSED: WAS: 15 MINUTE RUNNING AVERAGE
IS: 15 MINUTE RUNNING VECTOR AVERAGE

UNIQUE SYSTEM DESCRIPTION: WAS: Senses the wind direction at 35', 15 minute running average
computed every 15 seconds.
IS: Senses the wind direction at 35', 15 minute running vector
average computed every 15 seconds.

Page No. 18

STATION: North Anna

PRINTED
01/18/93

UNIT: 2

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

PWR DATA POINT LIBRARY REFERENCE FILE
CHANGE REPORT

CHANGED POINT M3MM002C AT 07:56 ON 01/18/93. CHANGES WERE AS FOLLOWS:

DATE: WAS: 01/15/93
IS: 01/18/93

PLANT SPEC POINT DESC: WAS: AVG UPPER DELTA
IS: AVG UPPER DELTA T

ATTACHMENT 5

UPDATED DPL FORMS FOR SURRY UNIT 1

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 1/A
POINT ID: F1FW001A
PLANT SPEC POINT DESC: SG A AFW FLOW (RD)
GENERIC/COND DESC: STM GEN A AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 394" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 350.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: AUX FEED PMP DISCH UPSTRM OF STM GEN A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses auxiliary feedwater flow to steam generator A.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 2/B
POINT ID: F1FW002A
PLANT SPEC POINT DESC: SG B AFW FLOW (WT)
GENERIC/COND DESC: STM GEN B AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 394" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 350.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: AUX FEED PMP DISCH UPSTRM OF STM GEN B
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses auxiliary feedwater flow to steam generator B.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 3/C
POINT ID: F1FW03A
PLANT SPEC POINT DESC: SG C AFW FLOW (BL)
GENERIC/COND DESC: STM GEN C AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 394" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 350.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: AUX FEED PMP DISCH UPSTRM OF STM GEN C
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses auxiliary feedwater flow to steam generator C.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: BWST LEVEL
POINT ID: L1CS001C
PLANT SPEC POINT DESC: RWST LEVEL
GENERIC/COND DESC: BORATED WATER STORAGE TANK LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 3997 GALLONS
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: 13500 GALLONS REMAIN AT ZERO POINT
PROC OR SENS: P
NUMBER OF SENSOPS: 4
HOW PROCESSED: MINIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: RWST
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: DRY
UNIQUE SYSTEM DESC: Indicates the level in the RWST. The lowest valid signal is used. If none of the 4 signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/29/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 1/A
POINT ID: T1RCDD4A
PLANT SPEC POINT DESC: LOOP A WR T COLD (RD) <>
GENERIC/COND DESC: SYM GEN A OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: 2
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP A COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop A cold leg temperature.

STATION: Surry
UNIT: 1
FIR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 2/B
POINT ID: T1RC00BA
PLANT SPEC POINT DESC: LOOP B WR T COLD (WT) <>
GENERIC/COND DESC: STM GEN B OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP B COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop B cold leg temperature.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CL TEMP 3/C
POINT ID:	T1RC012A
PLANT SPEC POINT DESC:	LOOP C WR T COLD (BL) <->
GENERIC/COND DESC:	STM GEN C OUTLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	LOOP C COLD LEG
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses loop C cold leg temperature.

STATION: Surry
UNIT: 3
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R1RM207C
PLANT SPEC POINT DESC: CNTMT AIR GASEGUS (160)
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG, 45' 10" LEVEL WEST END
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level of air taken from
the reactor containment.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R1RM20BC
PLANT SPEC POINT DESC: CNTMT AIR PART (159)
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG, 45' 10" LEVEL WEST END
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level of particles in
the air taken from the reactor containment.

STATION: Sunny
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R1RM209C
PLANT SPEC POINT DESC: CNTMT AREA (163)
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-1
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CONTAINMENT, INSIDE CRANE WALL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level within the reactor containment.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R1RM210C
PLANT SPEC POINT DESC:	CNTMT PER HATCH (161)
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-1
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG, OUTSIDE PERSONNEL HATCH
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the Personnel Hatch area.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R1RM213C
PLANT SPEC POINT DESC: CONTAINMENT HR AREA (127)
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: R/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162E-1
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CONTAINMENT, INSIDE CRANE WALL 47' LEVEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the reactor containment -
HIGH RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R1RM214C
PLANT SPEC POINT DESC: CONTAINMENT HR AREA (12B)
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: R/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CONTAINMENT, INSIDE CRANE WALL 47' LEVEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the reactor containment -
HIGH RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 11/25/92
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: COND A/E RAD
POINT ID: R1RM217C
PLANT SPEC POINT DESC: CONDENSER AE (111)
GENERIC/COND DESC: COND AIR EJECTOR RADIOACTIVITY
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG MEZZANINE OVERHEAD BY AE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the gaseous effluent from the
condenser air ejectors. On high radiation any radioactive
air is diverted into the reactor containment.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CORE FLOW
POINT ID:	F1RC004C
PLANT SPEC POINT DESC:	AVERAGE RCS LOOP FLOW
GENERIC/COND DESC:	TOTAL REACTOR FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	0 - 460" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	9
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	STM GEN DISCHARGE UPSTRM OF RCP
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the flow of coolant from the steam generator to the reactor coolant pump. The average of the 3 loop calculated average flows is used for this point. The 3 loop average values are calculated by taking the average of the valid flow signals for each loop. If all loop flow signals are valid, 3 flow readings will be used for each loop.

STATION: Sunny
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT PRESS
CONT ID: P1LM001C
CONT SPEC POINT DESC: CONTAINMENT PRESSURE
SERIC/COND DESC: CONTAINMENT PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIA
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 180.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 4
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CABLE PENETRATION AREA IN AUX BLDG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses reactor containment pressure. The valid intermediate range signals (4 signals if all are valid) are averaged. If no intermediate range signals are valid, the average of the wide range signals is used (2 signals if all are valid). If no signals are valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT SMP NR
POINT ID: L1DA002C
PLANT SPEC POINT DESC: CONTAINMENT NR SUMP LEVEL
GENERIC/CONO DESC: CONTAINMENT SUMP NR LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: INCH
ENGR UNITS CONVERSION: 1 IN = 2369 GALLONS
MINIMUM INSTR RANGE: 4
MAXIMUM INSTR RANGE:
ZERO POINT REFERENCE: TNAL
REFERENCE POINT NOTES: 280 GALLONS REMAIN AT ZERO POINT
PROC OR SEVS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CONTAINMENT SUMP
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses reactor containment sump level and provides a high level alarm. The largest valid narrow range signal is used for this point. If all signals are valid, 2 signals are considered. If both signals are invalid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTM-T SMP WR
POINT ID: L1DA001C
PLANT SPEC POINT DESC: CONTAINMENT WR SUMP LEVEL
GENERIC/COND DESC: CONTAINMENT SUMP WR LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: FT
ENGR UNITS CONVERSION: 1 FT = 58.343 GALLONS
MINIMUM INSTR RANGE: 0.43
MAXIMUM INSTR RANGE: 9.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: RECIRC SPRAY SUMP-SEE SYSTEM DESCRIPTION
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The valid wide range signals are averaged (2 signals if all are valid). If neither signal is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CTMNT TEMP
POINT ID:	T1LM001C
PLANT SPEC POINT DESC:	CONTAINMENT TEMPERATURE
GENERIC/COND DESC:	CONTAINMENT TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	50.0
MAXIMUM INSTR RANGE:	500.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	REACTOR CONTAINMENT
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses reactor containment temperature. The valid signals are averaged (2 signals if all are valid). If neither signal is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM203C
PLANT SPEC POINT DESC: PROCESS VENT GAS (102)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG 45' 10" LEVEL WEST END
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of air taken from the process vent.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM204C
PLANT SPEC POINT DESC:	PV HIGH RANGE (130-2)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-3
MAXIMUM INSTR RANGE:	1.0E5
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the process vent - HIGH RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM205C
PLANT SPEC POINT DESC:	PV HIGH RANGE (130-2)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/S
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E4
MAXIMUM INSTR RANGE:	1.0E12
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the process vent - HIGH RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM206C
PLANT SPEC POINT DESC:	PV NORMAL (130-1)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-8
MAXIMUM INSTR RANGE:	1.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the process vent - NORMAL RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM207C
PLANT SPEC POINT DESC:	PV NORMAL (130-1)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UCI/S
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0
MAXIMUM INSTR RANGE:	1.0E8
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the process vent - NORMAL RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM20BC
PLANT SPEC POINT DESC:	PV PARTICULATE (101)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG 45' 10" LEVEL WEST END
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of particles in the air taken out of the process vent.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM219C
PLANT SPEC POINT DESC: VENT VENT GASEOUS (110)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG 45' 10" LEVEL EAST END
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of air taken from ventilation
vent stack #2.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM220C
PLANT SPEC POINT DESC:	VV PARTICULATE (109)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG 45' 10" LEVEL EAST END
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of particles in the air taken from ventilation vent stack #2.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM221C
PLANT SPEC POINT DESC: VV 1 GAS RAD MON (104)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: UNIT 2 SWITCHGEAR ROOM (NORTH WALL)
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of air taken from the
ventilation vent.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM223C
PLANT SPEC POINT DESC:	VV HIGH RANGE (131-2)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UCI/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-3
MAXIMUM INSTR RANGE:	1.0E5
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of ventilation vent stack #2 - HIGH RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM224C
PLANT SPEC POINT DESC: VV HIGH RANGE (131-2)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E4
MAXIMUM INSTR RANGE: 1.0E12
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of ventilation vent stack #2 -
HIGH RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM225C
PLANT SPEC POINT DESC: VV NORMAL RANGE (131-1)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-8
MAXIMUM INSTR RANGE: 1.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of ventilation vent stack #2 -
NORMAL RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM226C
PLANT SPEC POINT DESC: VV NORMAL RANGE (131-1)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0
MAXIMUM INSTR RANGE: 1.0ES
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of ventilation vent stack #2 -
NORMAL RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/14/92
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R1RM203C
PLANT SPEC POINT DESC:	AFPT EXHAUST (129)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-3
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SAFEGUARDS AREA, OUTSIDE WALL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of the unit 1 turbine-driven auxiliary feed pump exhaust ("Terry" turbine).

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R1RM218C
PLANT SPEC POINT DESC: CW DISCHARGE TUNNEL (120)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: DISCHARGE CANAL, OUTLET OF DISCH TUNNEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the circulating water
discharge tunnel.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM209C
PLANT SPEC POINT DESC:	LW DISPOSAL (108)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG 13' LVL ACROSS FROM CHRG PMPS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the liquid waste system.

STATION: Suppy
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R3RM218C
PLANT SPEC POINT DESC: SW FROM CC HX A RM (107A)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG BASEMENT CC HEAT EXCHANGERS
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the service water effluent
of component cooling heat exchanger A.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R3RM227C
PLANT SPEC POINT DESC: SW FROM CC HX B RM (107B)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPK
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG BASEMENT CC HEAT EXCHANGERS
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the service water effluent
of component cooling heat exchanger B.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R3RM22BC
PLANT SPEC POINT DESC: SW FROM CC HX C RM (107C)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG BASEMENT CC HEAT EXCHANGERS
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the service water effluent
of component cooling heat exchanger C.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: H2 CONC
POINT ID: A1QW001C
PLANT SPEC POINT DESC: CNTMT H2 CONCENTRATION
GENERIC/COND DESC: CONTAINMENT HYDROGEN CONC
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 10.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: AUX BLDG 13' LVL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Takes a sample of containment atmosphere and measures the hydrogen concentration in the sample. The valid signals are averaged (2 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 1/A
POINT ID: T1RC005A
PLANT SPEC POINT DESC: LOOP A WR HOT LEG TEMP (RD) <>
GENERIC/COND DESC: STM GEN A INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP A HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop A hot leg temperature.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 2/B
POINT ID: T1RC009A
PLANT SPEC POINT DESC: LOOP B WR HOT LEG TEMP (WT) <>
GENERIC/COND DESC: STM GEN B INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP B HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop B hot leg temperature.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 3/C
POINT ID: T1RC013A
PLANT SPEC POINT DESC: LOOP C WR HOT LEG TEMP (BL) <>
GENERIC/COND DESC: STM GEN C INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP C HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop C hot leg temperature.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	07/01/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	HP S1 FLOW
POINT ID:	F1S10G3A
PLANT SPEC POINT DESC:	HHSI HOT LEGS TOTAL FLOW (YW)
GENERIC/COND DESC:	HIGH PRESSURE S1 FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	1000.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	CHRG PMPS A,B,C DISCH UPSTRM OF HOT LEGS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses total discharge of charging pumps A, B, & C to RCS hot legs.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: HP S1 FLOW
POINT ID: F151009A
PLANT SPEC POINT DESC: HHS1 COLD LEGS TOTAL FLOW (RD)
GENERIC/COND DESC: HIGH PRESSURE S1 FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 1000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC G. SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: CHRC PMS A,B,C DISCH UPSTRM OF CLD LEGS
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEL: N/A
UNIQUE SYSTEM DESC: Senses total discharge of charging pumps A, B, & C to RCS cold legs.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/14/92
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: HP S1 FLOW
POINT ID: F1S1001C
PLANT SPEC POINT DESC: TOT COLD LEG HHS1 FLOW
GENERIC/COND DESC: HIGH PRESSURE S1 FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0
MAXIMUM INSTR RANGE: 1800
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: SUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CHRGING PMP DISCH UPSTRM OF COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides flow indication on the S1 headers from the HHS1
pumps to the cold leg of each loop. The 3 loop high head S1
flows are totaled for this value. If any one of the loop S1
values is invalid, this point will be marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/15/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: F1S1002A
PLANT SPEC POINT DESC: LHSI PMP A DISCH HDR FLOW (NL)
GENERIC/COND DESC: LOW PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 = 628" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 5000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LHSI PMP A DISCH
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses discharge of LHSI pump A.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/15/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP S1 FLOW
POINT ID: F1S1003A
PLANT SPEC POINT DESC: LHSI PMP B DISCH HDR FLOW (NL)
GENERIC/COND DESC: LOW PRESSURE S1 FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 628" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 5000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LHSI PMP B DISCH
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses discharge of LHSI pump B.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/14/92
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 1/A
POINT ID: R1RM204C
PLANT SPEC POINT DESC: A MS HIGH RANGE (124)
GENERIC/COND DESC: STM GEN A STEAM LINE RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162E-3
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SAFEGUARDS AREA, 47' LEVEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in main steam line A.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/14/92
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 2/B
POINT ID: R1RM205C
PLANT SPEC POINT DESC: B MS HIGH RANGE (125)
GENERIC/COND DESC: STM GEN B STEAM LINE RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: $3.162E-3$
MAXIMUM INSTR RANGE: $1.0E7$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOG-X-1 Y-1 INPUT
SENSOR LOCATIONS: SAFEGUARDS AREA, 47' LEVEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in main steam line B.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/14/92
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MAIN SL 3/C
POINT ID:	R1RM206C
PLANT SPEC POINT DESC:	C MS HIGH RANGE (126)
GENERIC/COND DESC:	STM GEN C STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-3
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SAFEGUARDS AREA, 47' LEVEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in main steam line C.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MN FD FL 1/A
POINT ID:	F1FW005C
PLANT SPEC POINT DESC:	SG A MAIN FEEDWATER FLOW
GENERIC/COND DESC:	STM GEN A MAIN FEEDWATER FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MLB/HR
ENGR UNITS CONVERSION:	0 - 286.2" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	4.4
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	FEEDWTR HTR DISCH UPSTRM OF STM GEN A
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses flow in main feedwater line to steam generator A. The average of the valid feed flow signals is used for this point. If all signals are valid, 2 signals will be used.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MM FD FL 2/B
POINT ID: F1FW006C
PLANT SPEC POINT DESC: SG B MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN B MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0 - 286.2" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 4.4
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HTR DISCH UPSTRM OF STM GEN B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator B.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MN FD FL 3/C
POINT ID: F1FW007C
PLANT SPEC POINT DESC: SG C MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN C MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0 - 286.2" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 4.4
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HTR DISCH UPSTRM OF STM GEN C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator C.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: NI INTER RNG
POINT ID: MINMOD3C
PLANT SPEC POINT DESC: INTERMEDIATE RANGE POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, INT RANGE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: AMPS
ENGR UNITS CONVERSION: Approximately $3e-6 \times 120\%$ Power
MINIMUM INSTR RANGE: $1.0E-11$
MAXIMUM INSTR RANGE: $1.0E-3$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The highest valid intermediate range signal is used for this point. 2 intermediate range signals are available for use. If neither of the intermediate range signals is valid, this point is marked invalid. The intermediate range inputs are logarithmic in nature. Therefore, the highest valid intermediate range signal is exponentiated to yield the value for this point.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	N1 PWR RANGE
POINT ID:	MINMOD5C
PLANT SPEC POINT DESC:	POWER RANGE AVERAGE POWER
GENERIC/COND DESC:	NUCLEAR INSTRUMENTS, POWER RANGE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The valid power range signals are averaged for this point. 4 power range signals are available for use. If none of the power range signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: N1 SOURC RNG
POINT ID: MINMOD1C
PLANT SPEC POINT DESC: SOURCE LEVEL POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, SOURCE RNG
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPS
ENGR UNITS CONVERSION: Approximately $1e-9 - 1e-3$ % Power
MINIMUM INSTR RANGE: 1.0E0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: $1e-10$ AMPS IR
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: $<1e-10$ AMPS IR
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: N1 cut_off requires the listed reading on either of the intermediate range instruments and N1 cut_on requires the listed reading on both of the intermediate range instruments (IR is on the intermediate range power scale). The highest valid source range signal is used for this point. 2 source range signals are available for use. If neither of the source range signals is valid, this point is marked invalid. The source range inputs are logarithmic in nature. Therefore, the highest valid source range signal is exponentiated to yield the value for this point.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: PRZR LEVEL
POINT ID: L1RC002C
PLANT SPEC POINT DESC: PRESSURIZER LEVEL
GENERIC/COND DESC: PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 3.60" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: PRESSURIZER-HP LOCATED 30.0' ABOVE LP
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses pressurizer level and provides alarm and control
function inputs when the plant is operating normally. The
valid signals are averaged (3 signals if all are valid). If
none of the signals are valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS CHG/MU
POINT ID: F1CH003A
PLANT SPEC POINT DESC: CHARGING LOOP FLOW (BL)
GENERIC/COND DESC: PRIM SYS CHARGING OR MAKEUP FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 = 393.2" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 150.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: CHARGING LINE UPSTRM OF REGEN HX
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Flow transmitter FT-1122 transmits a signal to a controller located in the control cabinets, and to a flow indicator in the main control room. The controller operates the charging water flow control valve (FCV-1122) to maintain a preset charging flow in conjunction with a signal from the pressurizer level instrumentation. The two signals maintain pressurizer level within the proscribed band and limit the minimum and maximum charging flow rates.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS LTDN RAD
POINT ID: F1CH004A
PLANT SPEC POINT DESC: LOW PRESSURE LETDOWN FLOW (WT)
GENERIC/COND DESC: RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 400 " H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 150.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LETDOWN LINE DWNSTRM OF NON-REGEN HX
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides indication of letdown stream flow rate in the
Control Room.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS LTON RAD
POINT ID: R1RM201C
PLANT SPEC POINT DESC: RCS LETDOWN LR (119)
GENERIC/COND DESC: RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG, 27' LVL OUTSIDE WALL-SAMPLE RM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the RCS letdown line - LOW
RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: RC LETDN RAD
POINT ID: R1RM202C
PLANT SPEC POINT DESC: RCS LETDOWN HR (11B)
GENERIC/COND DESC: RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG, 27' LVL OUTSIDE WALL-SAMPLE RM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the RCS letdown line - HIGH RANGE.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	RCS PRESSURE
POINT ID:	PIR0001C
PLANT SPEC POINT DESC:	RCS AVERAGE PRESSURE
GENERIC/COND DESC:	REACTOR COOLANT SYSTEM PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	3000.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	SEE SYSTEM DESCRIPTION
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	PT-1455, PT-1456, and PT-1457 all measure pressurizer pressure (narrow range) and are used for pressurizer pressure protection. The valid narrow range signals are averaged (3 signals if all are valid). If none of the narrow range signals valid, the average of the valid wide range signals is used (2 signals if all are valid). If none of the narrow or wide range signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: REAC VES LEV
POINT ID: L1RC001C
PLANT SPEC POINT DESC: REAC VSL FULL RANGE LEVEL
GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 120.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 5
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: HEAD VENT (TOP) & BOTTOM OF VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: The 2 reactor full range level signals are used in conjunction with the reactor coolant pump motor currents to calculate this value. The full range readings are invalid if any RCP is running; therefore, this process value will be set invalid if any RCP motor current is greater than 5% of it's full load value. If none of the RCP's are running, the average of the valid full range level signals is used to calculate this point.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	L1RC003C
PLANT SPEC POINT DESC:	RVLS DYNAMIC HEAD LEVEL
GENERIC/COND DESC:	REACT VESSEL WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	TNKBOT
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	5
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	HEAD VENT (TOP) & BOTTOM OF VESSEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	WET
UNIQUE SYSTEM DESC:	The 2 reactor dynamic head level signals are used in conjunction with the reactor coolant pump motor currents to calculate this value. The dynamic head readings are invalid if no RCP's are running; therefore, this process value will be set invalid if no RCP motor current is greater than 5% of it's full load value. If none of the RCP's are running, the average of the valid dynamic head level signals is used to calculate this point.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG BD RAD 1A
POINT ID:	R1RM215C
PLANT SPEC POINT DESC:	SG BLOW DOWN (112)
GENERIC/COND DESC:	STM GEN A BLOWDOWN RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	TURBINE BLDG BASEMENT BY EMERG SWG ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of the blowdown of steam generator. Although this parameter is identified as the steam generator A blow down radiation monitor, this monitor can actually be aligned to any one of the three steam generators.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG DB RAD 1A
POINT ID: R1RM216C
PLANT SPEC POINT DESC: SG BLOW DOWN (113)
GENERIC/COND DESC: STM GEN A BLOWDOWN RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG BASEMENT BY EMERG SWG ROOM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of the blowdown of steam generator. Although this parameter is identified as the steam generator A blow down radiation monitor, this monitor can actually be aligned to any one of the three steam generators.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 1/A
POINT ID: L1FWOD1C
PLANT SPEC POINT DESC: STEAM GENERATOR A LEVEL
GENERIC/COND DESC: STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 684" & TOP AT 828"
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1A. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 2/B
POINT ID: L1FW002C
PLANT SPEC POINT DESC: STEAM GENERATOR B LEVEL
GENERIC/COND DESC: STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIO: STM GEN-BOTTOM AT 684" & TOP AT 828"
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1B. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 2/B
POINT ID: L1FW008A
PLANT SPEC POINT DESC: SG B WR LEVEL (BL) <>
GENERIC/COND DESC: STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0 - 564" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 1B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1B.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 3/C
POINT ID: L1FW003C
PLANT SPEC POINT DESC: STEAM GENERATOR C LEVEL
GENERIC/COND DESC: STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 684" & TOP AT 828"
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1C. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 3/C
POINT ID: L1FW012A
PLANT SPEC POINT DESC: SG C WR LEVEL (YW) <>
GENERIC/COND DESC: STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0 - 564" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SEHS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 1C
ALARM/.1P SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1C.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS FEEDER: SG PRESS 1/A
POINT ID: P1MS001C
PLANT SPEC POINT DESC: SG A PRESSURE
GENERIC/COND DESC: STEAM GENERATOR A PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEL SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator 1A to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG PRESS 2/B
POINT ID: P1MS002C
PLANT SPEC POINT DESC: SG B PRESSURE
GENERIC/COND DESC: STEAM GENERATOR B PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator 1B to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG PRESS 3/C
POINT ID:	P1MS003C
PLANT SPEC POINT DESC:	SG C PRESSURE
GENERIC/COND DESC:	STEAM GENERATOR C PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	1400.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	OUTPUT OF STM GEN C
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Provides pressure of the steam which is on route from steam generator 1C to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/15/93
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: STAB CLASS
POINT ID: T3MM001C
PLANT SPEC POINT DESC: AVG AMBIENT TEMPERATURE
GENERIC/COND DESC: AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -13.0
MAXIMUM INSTR RANGE: 122.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Measures air temperature at 35' elevation on the primary
tower. 15 minute running average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/18/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM00BC
PLANT SPEC POINT DESC:	AVG DELTA T
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-5.0
MAXIMUM INSTR RANGE:	15.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	2 RTDS AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses the difference of upper temperature and lower temperature to calculate vertical atmospheric stability. 15 minute running average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/18/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM006C
PLANT SPEC POINT DESC:	AVG SIGMA THETA
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
KI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses lower wind direction to find the standard deviation of the wind direction angle which is referred to as horizontal atmospheric stability. 15 minute running average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SUB MARGIN
POINT ID:	T1RC020C
PLANT SPEC POINT DESC:	CORE EXIT TSAT MARGIN
GENERIC/COND DESC:	SATURATION TEMP - HIGHEST CET
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-35.000
MAXIMUM INSTR RANGE:	200.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	TSAT - CONTAINMENT CET - REACTOR CORE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The valid saturation margin inputs from the RVLIS system are averaged (2 signals if all are valid). If none of the signals are valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: TEMP CORE EX
POINT ID: T1RC001C
PLANT SPEC POINT DESC: PEAK CORE EXIT TEMP
GENERIC/COND DESC: HIGHEST TEMPERATURE AT CORE EXIT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 2400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 50
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: EXIT OF SELECTED FUEL ASSEMBLIES IN-CORE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the reactor coolant exit temperature. The highest valid incore thermocouple is used. If none of the thermocouples is valid, this point is marked invalid.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/15/93
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: WIND DIR
POINT ID: M3MM004C
PLANT SPEC POINT DESC: AVG WIND DIR LOWER
GENERIC/COND DESC: WIND DIR AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 360.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS: 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses wind direction at 35'. 15 minute running vector
average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM005C
PLANT SPEC POINT DESC:	AVG WIND DIR UPPER
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction at 150'. 15 minute running vector average computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/15/93
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: WIND SPEED
POINT ID: M3MM001C
PLANT SPEC POINT DESC: AVG WIND SPEED LOWER
GENERIC/COND DESC: WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MPH
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Measures wind speed at 35', 15 minute running average
computed every 15 seconds.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM002C
PLANT SPEC POINT DESC:	AVG WIND SPEED UPPER
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
HI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
HI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 150'. 15 minute running average computed every 15 seconds.

ATTACHMENT 6

UPDATED DPL FORMS FOR SURRY UNIT 2

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 2/B
POINT ID: F2FW002A
PLANT SPEC POINT DESC: SG B AFW FLOW (WT)
GENERIC/COND DESC: STM GEN B AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 394" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 350.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: AUX FEED PMP DISCH UPSTRM OF STM GEN B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses auxiliary feedwater flow to steam generator B.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
[1/18/93

DATE:	07/01/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	AX FD FL 3/C
POINT ID:	F2FW003A
PLANT SPEC POINT DESC:	SG C AFW FLOW (BL)
GENERIC/COND DESC:	STM GEN C AUX FEEDWATER FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	0 - 394" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	350.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	AUX FEED PMP DISCH UPSTRM OF STM GEN C
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses auxiliary feedwater flow to steam generator C.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: BWST LEVEL
POINT ID: L2CS001C
PLANT SPEC POINT DESC: RWST LEVEL
GENERIC/COND DESC: BORATED WATER STORAGE TANK LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 3997 GALLONS
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: 13500 GALLONS REMAIN AT ZERO POINT
PROC OR SENS: P
NUMBER OF SENSORS: 4
HOW PROCESSED: MINIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: RWST
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: DRY
UNIQUE SYSTEM DESC: Indicates the level in the RWST. The lowest valid signal is used. If none of the 4 signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 1/A
POINT ID: T2RC004A
PLANT SPEC POINT DESC: LOOP A WR T COLD (RD) <>
GENERIC/COND DESC: STM GEN A OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP A COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop A cold leg temperature.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 2/B
POINT ID: T2RC008A
PLANT SPEC POINT DESC: LOOP B WR T COLD (WT) <>
GENERIC/COND DESC: STM GEN B OUTLET TEMPERATURZ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP B COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop B cold leg temperature.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CL TEMP 3/C
POINT ID:	T2RCD12A
PLANT SPEC POINT DESC:	LOOP C WR T COLD (BL) <>
GENERIC/COND DESC:	STM GEN C OUTLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	LOOP C COLD LEG
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses loop C cold leg temperature.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM207C
PLANT SPEC POINT DESC:	CNTMT AIR GASEOUS (260)
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG, 45' 10" LEVEL WEST END
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of air taken from the reactor containment.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R2RM208C
PLANT SPEC POINT DESC: CNTMT AIR PART (259)
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG, 45' 10" LEVEL WEST END
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level of particles in
the air taken out of the reactor containment.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM209C
PLANT SPEC POINT DESC:	CNTMT AREA (263)
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-1
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CONTAINMENT, INSIDE CRANE WALL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level within the reactor containment.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM210C
PLANT SPEC POINT DESC:	CNTMT PER HATCH (261)
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-1
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG, OUTSIDE PERSONNEL HATCH
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the Personnel Hatch area.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM213C
PLANT SPEC POINT DESC:	CONTAINMENT HR AREA (227)
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	R/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-1
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CONTAINMENT, INSIDE CRANE WALL 47' LEVEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the reactor containment - HIGH RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM214C
PLANT SPEC POINT DESC:	CONTAINMENT HR AREA (228)
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	R/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CONTAINMENT, INSIDE CRANE WALL 47' LEVEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the reactor containment - HIGH RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 11/25/92
REACTOR UNIT: SU2
DATA FEEDBACK: N/A
NRC ERDS PARAMETER: COND A/E RAD
POINT ID: R2RM217C
PLANT SPEC POINT DESC: CONDENSER AE (211)
GENERIC/COND DESC: COND AIR EJECTOR RADIOACTIVITY
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG MEZZANINE OVERHEAD BY AE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: 1/4
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the gaseous effluent from the
condenser air ejectors. On high radiation any radioactive
air is diverted into the reactor containment.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CORE FLOW
POINT ID:	F2RC004C
PLANT SPEC POINT DESC:	AVERAGE RCS LOOP FLOW
GENERIC/COND DESC:	TOTAL REACTOR FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	0 - 460" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	9
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	STM GEN DISCHARGE UPSTRM OF RCP
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the flow of coolant from the steam generator to the reactor coolant pump. The average of the 3 loop calculated average flows is used for this point. The 3 loop average values are calculated by taking the average of the valid flow signals for each loop. If all loop flow signals are valid, 3 flow readings will be used for each loop.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT PRESS
POINT ID: P2LM001C
PLANT SPEC POINT DESC: CONTAINMENT PRESSURE
GENERIC/COND DESC: CONTAINMENT PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIA
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 180.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 4
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CABLE PENETRATION AREA IN AUX BLDG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses reactor containment pressure. The valid intermediate range signals (4 signals if all are valid) are averaged. If no intermediate range signals are valid, the average of the wide range signals is used (2 signals if all are valid). If no signals are valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT CMP LR
POINT ID: L2DA002C
PLANT SPEC POINT DESC: CONTAINMENT NR SUMP LEVEL
GENERIC/COND DESC: CONTAINMENT SUMP NR LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: INCH
ENGR UNITS CONVERSION: 1 IN = 2369 GALLONS
MINIMUM INSTR RANGE: 4.5
MAXIMUM INSTR RANGE: 26.5
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: 280 GALLONS REMAIN AT ZERO POINT
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CONTAINMENT SUMP
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LER: N/A
UNIQUE SYSTEM DESC: Senses reactor containment sump level and provides a high level alarm. The largest valid narrow range signal is used for this point. If all signals are valid, 2 signals are considered. If both signals are invalid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT SMP WR
POINT ID: L2DA001C
PLANT SPEC POINT DESC: CONTAINMENT WR SUMP LEVEL
GENERIC/COND DESC: CONTAINMENT SUMP WR LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: FT
ENGR UNITS CONVERSION: 1 FT = 58343 GALLONS
MINIMUM INSTR RANGE: 0.43
MAXIMUM INSTR RANGE: 9.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: RECIRC SPRAY SUMP-SEE SYSTEM DESCRIPTION
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The valid wide range signals are averaged (2 signals if all are valid). If neither signal is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT TEMP
POINT ID: T2LM001C
PLANT SPEC POINT DESC: CONTAINMENT TEMPERATURE
GENERIC/CO DESC: CONTAINMENT TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 50.0
MAXIMUM INSTR RANGE: 300.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: REACTOR CONTAINMENT
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses reactor containment temperature. The valid signals
are averaged (2 signals if all are valid). If neither
signal is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3E
PLANT SPEC POINT DESC: PR7 EFF GAS (102)
GENERIC/COND DESC: RAD. ACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG 45' 10" LEVEL WEST END
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of air taken from the process vent.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM204C
PLANT SPEC POINT DESC:	PV HIGH RANGE (130-2)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-3
MAXIMUM INSTR RANGE:	1.0E5
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the process vent - HIGH RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM205C
PLANT SPEC POINT DESC: PV HIGH RANGE (130-2)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E4
MAXIMUM INSTR RANGE: 1.0E12
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the process vent - HIGH RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM206C
PLANT SPEC POINT DESC:	PV NORMAL (130-1)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UCI/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-8
MAXIMUM INSTR RANGE:	1.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the process vent - NORMAL RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM207C
PLANT SPEC POINT DESC: PV NORMAL (130-1)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0
MAXIMUM INSTR RANGE: 1.0E8
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the process vent - NORMAL RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM20BC
PLANT SPEC POINT DESC: PV PARTICULATE (101)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG 45' 10" LEVEL WEST END
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of particles in the air taken
out of the process vent.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM219C
PLANT SPEC POINT DESC: VENT VENT GASEOUS (110)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG 45' 10" LEVEL EAST END
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of air taken from ventilation
vent stack #2.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM220C
PLANT SPEC POINT DESC: VV PARTICULATE (109)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG 45' 10" LEVEL EAST END
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of particles in the air taken
from ventilation vent stack #2.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM221C
PLANT SPEC POINT DESC: VV 1 GAS RAD MON (104)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: UNIT 2 SWITCHGEAR ROOM (NORTH WALL)
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of air taken from the
ventilation vent.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM223C
PLANT SPEC POINT DESC:	VV HIGH RANGE (131-2)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-3
MAXIMUM INSTR RANGE:	1.0E5
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of ventilation vent stack #2 - HIGH RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM224C
PLANT SPEC POINT DESC:	VV HIGH RANGE (131-2)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/S
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E4
MAXIMUM INSTR RANGE:	1.0E12
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of ventilation vent stack #2 - HIGH RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM225C
PLANT SPEC POINT DESC: VV NORMAL RANGE (131-1)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-8
MAXIMUM INSTR RANGE: 1.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitor= the radiation level of ventilation vent stack #2 -
NORMAL & NGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM226C
PLANT SPEC POINT DESC: VV NORMAL RANGE (131-1)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0
MAXIMUM INSTR RANGE: 1.0E8
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: CABLE SPREADING ROOM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of ventilation vent stack #2 -
NORMAL RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/14/92
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R2RM203C
PLANT SPEC POINT DESC: TD AFW PUMP EXHAUST (229)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: $3.162E-3$
MAXIMUM INSTR RANGE: $1.0E7$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SAFEGUARDS AREA, OUTSIDE WALL
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of the unit 2 turbine-driven
auxiliary feed pump exhaust ("Terry" turbine).

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM209C
PLANT SPEC POINT DESC:	LW DISPOSAL (10B)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG 13' LVL ACROSS FROM CHRG PMPS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the liquid waste system.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM21BC
PLANT SPEC POINT DESC:	SW FROM CC HX A RM (107A)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	TURBINE BLDG BASEMENT CC HEAT EXCHANGERS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the service water effluent of component cooling heat exchanger A.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM227C
PLANT SPEC POINT DESC:	SW FROM CC HX B RM (107B)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	TURBINE BLDG BASEMENT CC HEAT EXCHANGERS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the service water effluent of component cooling heat exchanger B.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R3RM22BC
PLANT SPEC POINT DESC: SW FROM CC HX C RM (107C)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG BASEMENT CC HEAT EXCHANGERS
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the service water effluent
of component cooling heat exchanger C.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R2RM218C
PLANT SPEC POINT DESC: CW DISCHARGE TUNNEL (220)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG MEZZANINE OVERHEAD BY AE
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the gaseous effluent from the
condenser air ejectors. On high radiation any radioactive
air is diverted into the reactor containment.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: H2 CONC
POINT ID: A2GW001C
PLANT SPEC POINT DESC: CNTMT H2 CONCENTRATION
GENERIC/COND DESC: CONTAINMENT HYDROGEN CONC
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 10.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: AUX BLDG 13' LVL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Takes a sample of containment atmosphere and measures the
hydrogen concentration in the sample. The valid signals are
averaged (2 signals if all are valid). If none of the
signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 1/A
POINT ID: T2RC005A
PLANT SPEC POINT DESC: LOOP A WR HOT LEG TEMP (RD) «»
GENERIC/COND DESC: STM GEN A INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP A HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop A hot leg temperature.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 2/B
POINT ID: T2RC009A
PLANT SPEC POINT DESC: LOOP B WR HOT LEG TEMP (WT) <>
GENERIC/COND DESC: STM GEN B INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP B HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop B hot leg temperature.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 3/C
POINT ID: 72RC013A
PLANT SPEC POINT DESC: LOOP C WR HOT LEG TEMP (BL) <>
GENERIC/COND DESC: STM GEN C INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP C HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop C hot leg temperature.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HP SI FLOW
POINT ID: F2S1008A
PLANT SPEC POINT DESC: HHSI HOT LEGS TOTAL FLOW (YW)
GENERIC/COND DESC: HIGH PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 1000.00
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: CHRG PMPS A,B,C DISCH UPSTRM OF HOT LEGS
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses total discharge of charging pumps A, B, & C to RCS hot legs.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
6/1/89

DATE: 07/01/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HP SI FLOW
POINT ID: F2S1009A
PLANT SPEC POINT DESC: HHS1 COLD LEGS TOTAL FLOW (RD)
GENERIC/COND DESC: HIGH PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 1000.00
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: CHRG PMPS A,B,C DISCH UPSTRM OF CLD LEGS
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses total discharge of charging pumps A, B, & C to RCS cold legs.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/14/92
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HP S1 FLOW
POINT ID: F2S1001C
PLANT SPEC POINT DESC: TOT COLD LEG HHSI FLOW
GENERIC/COND DESC: HIGH PRESSURE S1 FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0
MAXIMUM INSTR RANGE: 1800
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: SUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CHRGING PMP DISCH UPSTRM OF COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides flow indication on the S1 headers from the HHSI pumps to the cold leg of each loop. The 3 loop high head S1 flows are totaled for this value. If any one of the loop S1 values is invalid, this point will marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/15/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: FZS1002A
PLANT SPEC POINT DESC: LHSI PMP A DISCH HDR FLOW (NL)
GENER/C/COND DESC: LOW PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 628" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 5000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LHSI PMP A DISCH
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses discharge of LHSI pump A.

STATION: Surry
UNIT: 7
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/15/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: F2S1003A
PLANT SPEC POINT DESC: LHSI PMP B DISCH HDR FLOW (NL)
GENERIC/COND DESC: LOW PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 628" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 5000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LHSI PMP B DISCH
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
TACTIQUE SYSTEM DESC: Senses discharge of LHSI pump B.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/14/92
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MAIN SL 1/A
POINT ID:	R2RM204C
PLANT SPEC POINT DESC:	A MS HIGH RANGE (224)
GENERIC/COND DESC:	STM GEN A STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-3
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SAFEGUARDS AREA, 47' LEVEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in main steam line A.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/14/92
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 2/B
POINT ID: R2RM205C
PLANT SPEC POINT DESC: B MS HIGH RANGE (225)
GENERIC/COND DESC: STM GEN B STEAM LINE RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162E-3
MAXIMUM INSTR RANGE: 1.0E7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SAFEGUARDS AREA, 47th LEVEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in main steam line B.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/14/92
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MAIN SL 3/C
POINT ID:	R2RM206C
PLANT SPEC POINT DESC:	C MS HIGH RANGE (226)
GENERIC/COND DESC:	SYM GEN C STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	HR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-3
MAXIMUM INSTR RANGE:	1.0E7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SAFEGUARDS AREA, 47' LEVEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in main steam line C.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MN FD FL 1/A
POINT ID: F2FW005C
PLANT SPEC POINT DESC: SG A MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN A MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0 - 286.2" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 4.4
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HTR DISCH UPSTRM OF STM GEN A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator A.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
HRC ERDS PARAMETER: MN FD FL 2/B
POINT ID: F2FW006C
PLANT SPEC POINT DESC: SG B MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN B MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0 - 286.2" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 4.4
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HTR DISCH UPSTRM OF STM GEN B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator B.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MN FD FL 3/C
POINT ID:	F2FW007C
PLANT SPEC POINT DESC:	SG C MAIN FEEDWATER FLOW
GENERIC/COND DESC:	STM GEN C MAIN FEEDWATER FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MLB/HR
ENGR UNITS CONVERSION:	0 = 286.2" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	4.4
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	FEEDWTR HTR DISCH UPSTRM OF STM GEN C
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses flow in main feedwater line to steam generator C. The average of the valid feed flow signals is used for this point. If all signals are valid, 2 signals will be used.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: NI INTER RNG
POINT ID: M2NM003C
PLANT SPEC POINT DESC: INTERMEDIATE RANGE POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, INT RANGE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: AMPS
ENGR UNITS CONVERSION: Approximately $3e-6$ - 120 % Power
MINIMUM INSTR RANGE: $1.0E-11$
MAXIMUM INSTR RANGE: $1.0E-3$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The highest valid intermediate range signal is used for this point. 2 intermediate range signals are available for use. If neither of the intermediate range signals is valid, this point is marked invalid. The intermediate range inputs are logarithmic in nature. Therefore, the highest valid intermediate range signal is exponentiated to yield the value for this point.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	NI POWER RNG
POINT ID:	M2NM005C
PLANT SPEC POINT DESC:	POWER RANGE AVERAGE POWER
GENERIC/COND DESC:	NUCLEAR INSTRUMENTS, POWER RANGE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The valid power range signals are averaged for this point. 4 power range signals are available for use. If none of the power range signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: NI SOURC RNG
POINT ID: M2NM001C
PLANT SPEC POINT DESC: SOURCE LEVEL POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, SOURCE RNG
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: C/s
ENGR UNITS CONVERSION: Approximately $1e-9 - 1e-3$ % Power
MINIMUM INSTR RANGE: 1.0E0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: $1e-10$ AMPS IR
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: $<1e-10$ AMPS IR
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: NI cut_off requires the listed reading on either of the intermediate range instruments and NI cut_on requires the listed reading on both of the intermediate range instruments (IR is on the intermediate range power scale). The highest valid source range signal is used for this point. 2 source range signals are available for use. If neither of the source range signals is valid, this point is marked invalid. The source range inputs are logarithmic in nature. Therefore, the highest valid source range signal is exponentiated to yield the value for this point.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: PRZR LEVEL
POINT ID: L2RC002C
PLANT SPEC POINT ESC: PRESSURIZER LEVEL
GENERIC/COND DESC: PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 3.60" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: PRESSURIZER-HP LOCATED 32.0' ABOVE LP
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses pressurizer level and provides alarm and control function inputs when the plant is operating normally. The valid signals are averaged (3 signals if all are valid). If none of the signals are valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	RCS CHG/MU
POINT ID:	F2CH003A
PLANT SPEC POINT DESC:	CHARGING LOOP FLOW (BL)
GENERIC/COND DESC:	PRIM SYS CHARGING OR MAKEUP FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	0 - 393.2" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	150.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	CHARGING LINE UPSTRM OF REGEN HX
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Flow transmitter FT-2122 transmits a signal to a controller located in the control cabinets, and to a flow indicator in the main control room. The controller operates the charging water flow control valve (FCV-2122) to maintain a preset charging flow in conjunction with a signal from the pressurizer level instrumentation. The two signals maintain pressurizer level within the proscribed band and limit the minimum and maximum charging flow rates.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	RCS LTDN RAD
POINT ID:	F2CH004A
PLANT SPEC POINT DESC:	LOW PRESSURE LETDOWN FLOW (WT)
GENERIC/COND DESC:	RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	0 - 400 " H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	150.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTFS:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	LETDOWN LINE DWNSTRM OF NON-REGEN HX
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Provides indication of letdown stream flow rate in the Control Room.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	RCS LTDN RAD
POINT ID:	R2RM201C
PLANT SPEC POINT DESC:	RCS LETDOWN HR (218)
GENERIC/COND DESC:	RAD LEVEL OF RCS LETDCLN LINE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG, 27' LVL OUTSIDE WALL-SAMPLE RM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level in the RCS letdown line - HIGH RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS LTDN RAD
POINT ID: R2RM202C
PLANT SPEC POINT DESC: RCS LETDOWN LR (219)
GENERIC/COND DESC: RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG, 27' LVL OUTSIDE WALL-SAMPLE RM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level in the RCS letdown line - LOW
RANGE.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS PRESSURE
POINT ID: P2RC001C
PLANT SPEC POINT DESC: RCS AVERAGE PRESSURE
GENERIC/COND DESC: REACTOR COOLANT SYSTEM PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 3000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: SEE SYSTEM DESCRIPTION
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: PT-2455, PT-2456, and PT-2457 all measure pressurizer pressure (narrow range) and are used for pressurizer pressure protection. The valid narrow range signals are averaged (3 signals if all are valid). If none of the narrow range signals valid, the average of the valid wide range signals is used (2 signals if all are valid). If none of the narrow or wide range signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	L2RC001C
PLANT SPEC POINT DESC:	REAC VSL FULL RANGE LEVEL
GENERIC/COND DESC:	REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	TNKBOT
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	5
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	HEAD VENT (TOP) & BOTTOM OF VESSEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	WET
UNIQUE SYSTEM DESC:	The 2 reactor full range level signals are used in conjunction with the reactor coolant pump motor currents to calculate this value. The full range readings are invalid if any RCP is running; therefore, this process value will be set invalid if any RCP motor current is greater than 5% of it's full load value. If none of the RCP's are running, the average of the valid full range level signals is used to calculate this point.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	L2RC003C
PLANT SPEC POINT DESC:	RVLIS DYNAMIC HEAD LEVEL
GENERIC/COND DESC:	REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNIT: CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	TNKBOT
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	5
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	HEAD VENT (TOP) & BOTTOM OF VESSEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	WET
UNIQUE SYSTEM DESC:	The 2 reactor dynamic head level signals are used in conjunction with the reactor coolant pump motor currents to calculate this value. The dynamic head readings are invalid if no RCP's are running; therefore, this process value will be set invalid if no RCP motor current is greater than 5% of it's full load value. If none of the RCP's are running, the average of the valid dynamic head level signals is used to calculate this point.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG BD RAD 1A
POINT ID:	R2RM215C
PLANT SPEC POINT DESC:	SG BLOW DOWN (212)
GENERIC/COND DESC:	STM GEN A BLOWDOWN RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	TURBINE BLDG BASEMENT BY EMERG SWG ROOM
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of the blowdown of steam generator. Although this parameter is identified as the steam generator A blow down radiation monitor, this monitor can actually be aligned to any one of the three steam generators.

STATION: Surry
UNIT: 2
DWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG BD RAD 1A
POINT ID: R2RM216C
PLANT SPEC POINT DESC: SG BLOW DOWN (213)
GENERIC/COND DESC: STM GEN A BLOWDOWN RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 10.0
MAXIMUM INSTR RANGE: 1.0E6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS:
NUMBER OF SENSORS:
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE BLDG BASEMENT BY EMERG SWG ROOM
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of the blowdown of steam generator. Although this parameter is identified as the steam generator A blow down radiation monitor, this monitor can actually be aligned to any one of the three steam generators.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 1/A
POINT ID: L2FW001C
PLANT SPEC POINT DESC: STEAM GENERATOR A LEVEL
GENERIC/COND DESC: STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM SEN-BOTTOM AT 684" & TOP AT 828"
ALARM/TRIP SETPOINTS: 1.0, .BLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 2A. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 1/A
POINT ID: L2FW004A
PLANT SPEC POINT DESC: SG A WR LEVEL (WT) <>
GENERIC/COND DESC: STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0 - 564" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 2A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 2A.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 2/B
POINT ID: L2FW002C
PLANT SPEC POINT DESC: STEAM GENERATOR B LEVEL
GENERIC/COND DESC: STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 684" & TOP AT 828"
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 2B. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG LEVEL 2/B
POINT ID:	L2FW008A
PLANT SPEC POINT DESC:	SG B WR LEVEL (BL) <>
GEN (IC/COND DESC:	STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	0 - 564" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	TNKBOT
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	STEAM GENERATOR 2B
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	WET
UNIQUE SYSTEM DESC:	Senses the water level in steam generator 2B.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 3/C
POINT ID: L2FW003C
PLANT SPEC POINT DESC: STEAM GENERATOR C LEVEL
GENERIC/COND DESC: STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1 % = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 684" & TOP AT 828"
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 2C. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 3/C
POINT ID: L2FWD12A
PLANT SPEC POINT DESC: SG C WR LEVEL (YW) <>
GENERIC/COND DESC: STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0 - 564" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 2C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 2C.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG PRESS 1/A
POINT ID: P2MS001C
PLANT SPEC POINT DESC: SG A PRESSURE
GENERIC/COND DESC: STEAM GENERATOR A PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator 2A to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG PRESS 2/B
POINT ID: P2MS002C
PLANT SPEC POINT DESC: SG B PRESSURE
GENERIC/COND DESC: STEAM GENERATOR B PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator 2B to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR D/TA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG PRESS 3/C
POINT ID: P2MS003C
PLANT SPEC POINT DESC: SG C PRESSURE
GENERIC/COND DESC: STEAM GENERATOR C PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator 2C to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	T3MM001C
PLANT SPEC POINT DESC:	AVG AMBIENT TEMPERATURE
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-13.0
MAXIMUM INSTR RANGE:	122.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower. 15 minute running average computed every 15 seconds.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/18/93
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: STAB CLASS
POINT ID: M3MM008C
PLANT SPEC POINT DESC: AVG DELTA T
GENERIC/COND DESC: AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -5.0
MAXIMUM INSTR RANGE: 15.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: 2 RTDS AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Uses the difference of upper temperature and lower
temperature to calculate vertical atmospheric stability. 15
minute running average computed every 15 seconds.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/18/93
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: STAB CLASS
POINT ID: M3MM006C
PLANT SPEC POINT DESC: AVG SIGMA THETA
GENERIC/COND DESC: AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 50.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Uses lower wind direction to find the standard deviation of
the wind direction angle which is referred to as horizontal
atmospheric stability. 15 minute running average computed
every 15 seconds.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/20/91
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SUB MARGIN
POINT ID: T2RC020C
PLANT SPEC POINT DESC: CORE EXIT TSAT MARGIN
GENERIC/COND DESC: SATURATION TEMP - HIGHEST CET
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEG F
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -35.000
MAXIMUM INSTR RANGE: 200.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: TSAT - CONTAINMENT CET - REACTOR CORE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The valid saturation margin inputs from the RVLIS system are averaged (2 signals if all are valid). If none of the signals are valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/20/91
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	TEMP CORE EX
POINT ID:	T2RC001C
PLANT SPEC POINT DESC:	PEAK CORE EXIT TEMP
GENERIC/COND DESC:	HIGHEST TEMPERATURE AT CORE EXIT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	2400.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	50
HOW PROCESSED:	MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	EXIT OF SELECTED FUEL ASSEMBLIES IN-CORE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the reactor coolant exit temperature. The highest valid incore thermocouple is used. If none of the thermocouples is valid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004C
PLANT SPEC POINT DESC:	AVG WIND DIR LOWER
GENERIC/COND DESC:	WIND DIR AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses wind direction at 35', 15 minute running vector average computed every 15 seconds.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/15/93

DATE: 01/15/93
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: WIND DIR
POINT ID: M3MM005C
PLANT SPEC POINT DESC: AVG WIND DIR UPPER
GENERIC/COND DESC: WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 360.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS: 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TR. 'SMITTERS:
LEVEL REFERENCE .EG: N/A
UNIQUE SYSTEM DESC: Senses wind direction at 150', 15 minute running vector
average computed every 15 seconds.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM001C
PLANT SPEC POINT DESC:	AVG WIND SPEED LOWER
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 35', 15 minute running average computed every 15 seconds.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MM002C
PLANT SPEC POINT DESC:	AVG WIND SPEED UPPER
GENERIC/COND DESC:	WIND SPEED AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures wind speed at 150'. 15 minute running average computed every 15 seconds.

ATTACHMENT 7

UPDATED DPL FORMS FOR NORTH ANNA UNIT 1

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 1/A
POINT ID: F1FW001A
PLANT SPEC POINT DESC: AFW FLOW TO SG A (BL)
GENERIC/COND DESC: STM GEN A AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0-600" H2O
MINIMUM INSTR RANGE: -0.2
MAXIMUM INSTR RANGE: 500.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: AUX FEED PMP DISCH UPSTRM OF STM GEN 1A
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses auxiliary feed pump discharge to steam generator A.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	07/01/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	AX FD FL 2/B
POINT ID:	F1FW002A
PLANT SPEC POINT DESC:	APW FLOW TO SG B (YW)
GENERIC/COND DESC:	STM GEN B AUX FEEDWATER FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	0-600" H2O
MINIMUM INSTR RANGE:	-0.2
MAXIMUM INSTR RANGE:	500.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	AUX FEED PMP DISCH UPSTRM OF STM GEN 1B
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses auxiliary feed pump discharge to steam generator B.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 3/C
POINT ID: F1FW003A
PLANT SPEC POINT DESC: AFW FLOW TO SG C (WT)
GENERIC/COND DESC: STM GEN C AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0-600" H2O
MINIMUM INSTR RANGE: -0.2
MAXIMUM INSTR RANGE: 500.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: AUX FEED PMP DISCH UPSTRM OF STM GEN 1C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MOC2: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses auxiliary feed pump discharge to steam generator C.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/11/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: BWST LEVEL
POINT ID: L1CS001C
PLANT SPEC POINT DESC: RWST LEVEL
GENERIC/COND DESC: BORATED WATER STORAGE TANK LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 4700 GALLONS
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: 16970 GALLONS REMAIN AT ZERO POINT
PROC OR SENS: P
NUMBER OF SENSORS: 4
HOW PROCESSED: MINIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: RWST
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: DRY
UNIQUE SYSTEM DESC: Indicates the level in the RWST. The lowest valid signal is used. If none of the 4 signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 1/A
POINT ID: TTRCDOZA
PLANT SPEC POINT DESC: LOOP A WR T COLD (RD) <>
GENERIC/COND DESC: STM GEN A OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP A COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop A cold leg temperature

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 2/B
POINT ID: T1RC004A
PLANT SPEC POINT DESC: LOOP B WR T COLD (WT) <>
GENERIC/COND DESC: STM GEN B OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP B COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop B cold leg temperature.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 3/C
POINT ID: T1RC006A
PLANT SPEC POINT DESC: LOOP C WR T COLD (BL) <>
GENERIC/COND DESC: STM GEN C OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP C COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop C cold leg temperature.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CL TEMP 3/C
POINT ID:	T1RC007A
PLANT SPEC POINT DESC:	LOOP C WR HOT LEG TEMP (BL) <>
GEN/RC/COND DESC:	STM GEN C OUTLET TEMPERATURE
ANAL G/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	LOOP C HOT LEG
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses loop C hot leg temperature.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R1RM206C
PLANT SPEC POINT DESC:	CNTMT GAS RAD MON (160)
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OUTSIDE CONTAINMENT PERSONNEL HATCH
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of air taken from the reactor containment.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R1RM207C
PLANT SPEC POINT DESC: CNTMT HR RAD MON COL4(166)
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: R/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.3162
MAXIMUM INSTR RANGE: 1.0E+7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: ON THE INSIDE CRANE WALL
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level within the reactor containment.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R1RM208C
PLANT SPEC POINT DESC:	CNTMT HR RAD MON COL 12
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	R/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.3162
MAXIMUM INSTR RANGE:	1.0E+7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	ON THE INSIDE CRANE WALL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level within the reactor containment.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R1RM209C
PLANT SPEC POINT DESC:	CNTMT PERS HATCH RAD MON
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	R/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-5
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OUTSIDE CONTAINMENT PERSONNEL HATCH
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level in the Personnel Hatch area.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R1RM210C
PLANT SPEC POINT DESC: CNMT PARTICULATE RAD MON
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: OUTSIDE CONTAINMENT PERSONNEL HATCH
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level of particles in
the air taken out of the reactor containment.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R1RM215C
PLANT SPEC POINT DESC:	CNTMT AREA RAD MON
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	R/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-5
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	REACTOR CONTAINMENT
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Detects gamma radiation in the reactor containment.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: COND A/E RAD
POINT ID: R1RM205C
PLANT SPEC POINT DESC: CONDENSER AE RAD MON (121)
GENERIC/COND DESC: COND AIR EJECTOR RADIOACTIVITY
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: OUTPUT OF CONDENSOR AIR EJECTORS
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level in the gaseous effluent from the condensor air ejectors. On high radiation any radioactive air is diverted into the Reactor Containment.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CORE FLOW
POINT ID: F1RC004C
PLANT SPEC POINT DESC: AVERAGE RCS LOOP FLOW
GENERIC/COND DESC: TOTAL REACTOR FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0-260" H2O 0-96400 GPM 0.35e6 LBM/HR
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 120.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STEAM GEN DISCH UPSTRM OF RCP
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LE: L REFERENCE LEG: N/A
LOU SYSTEM DESC: Monitors the flow of coolant from the steam generator to the reactor coolant pump. The average of the 3 loop calculated average flows is used for this point. The 3 loop average values are calculated by taking the average of the valid flow signals for each loop. If all loop flow signals are valid, 3 flow readings will be used for each loop.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT PRESS
POINT ID: P1LM001C
PLANT SPEC POINT DESC: CONTAINMENT PRESSURE
GENERIC/COND DESC: CONTAINMENT PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIA
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 180.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 4
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CABLE PENETRATION AREA IN AUX BLDG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses reactor containment pressure. The valid intermediate range signals (4 signals if all are valid) are averaged. If no intermediate range signals are valid, the average of the wide range signals is used (2 signals if all are valid). If no signals are valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CTMNT SMP NR
POINT ID:	L1DA002C
PLANT SPEC POINT DESC:	CONTAINMENT NR SUMP LEVEL
GENERIC/COND DESC:	CONTAINMENT SUMP NR LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	1% = 0.12" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	TNKBOT
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	CONTAINMENT SUMP
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses reactor containment sump level. The largest valid narrow range signal is used for this point. If all signals are valid, 2 signals are considered. If both signals are invalid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT SMP WR
POINT ID: LTDA001C
PLANT SPEC POINT DESC: CONTAINMENT WR SUMP LEVEL
GENERIC/COND DESC: CONTAINMENT SUMP WR LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: FT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 11.33
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: RECIRC SPRAY SUMP-SEE SYSTEM DESCRIPTION
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Two transmitters (LT-RS-151A-2 & B-2) monitor recirc spray sump level in the sump itself (0-6'8") and an two additional transmitters (LT-RS-151A-1 & B-1) monitor the level above the sump itself (6'8"-11'4"). The valid wide range signals are averaged (2 signals if all are valid). If neither signal is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CTMNT TEMP
POINT ID:	T1LM001C
PLANT SPEC POINT DESC:	CONTAINMENT TEMPERATURE
GENERIC/COND DESC:	CONTAINMENT TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	400.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	REACTOR CONTAINMENT ELEV 270
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses reactor containment temperature. The valid signals are averaged (2 signals if all are valid). If neither signal is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R1RM204C
PLANT SPEC POINT DESC: AUX STM LINE RAD MON (176)
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 6.31E-5
MAXIMUM INSTR RANGE: 1.0E+4
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURBINE-DRIVEN AUX FEED PUMP EXHAUST
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level in the
turbine-driven auxiliary feed pump exhaust ("Terry"
turbine).

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM211C
PLANT SPEC POINT DESC: PV GAS RADIATION MONITOR
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: PROCESS VENT LINE DWNSTRM OF EVAPORATORS
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM D: 3C: Continuously monitors the radiation level of a sample taken
from the process vent after it has passed through the
particulate filters.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM212C
PLANT SPEC POINT DESC:	PV PARTICULATE RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of the particulates in a sample taken from the process vent.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM217C
PLANT SPEC POINT DESC:	VS GASEOUS RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	84" DIAMETER VENTILATION STACK
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of a variable sample of the ventilation stack air taken through a multiprobe isokinetic sampling nozzle.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3KM218C
PLANT SPEC POINT DESC:	VS PARTICULATE RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	84" DIAMETER VENTILATION STACK
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of the particles in a variable sample of the ventilation stack air taken through a multiprobe isokinetic sampling nozzle.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM219C
PLANT SPEC POINT DESC:	VV GAS RADIATION MONITOR
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	90" DIAMETER VENTILATION VENT
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of a variable sample of the ventilation vent air taken through a multiprobe isokinetic sampling nozzle.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM220C
PLANT SPEC POINT DESC:	VV PARTICULATE RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	90" DIAMETER VENTILATION VENT
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of particles in a variable sample of the ventilation vent air taken through a multiprobe isokinetic sampling nozzle.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM221C
PLANT SPEC POINT DESC: VV GAS SAMPLE RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation in an air sample taken from one of eight areas. The operator can select a sampling time at each of the eight areas between 30 min. and 24 hrs. The areas that can be selected are fuel bldg., safeguards area of unit 1 or unit 2, aux bldg. central area (2 separate sampling apparatus), containment purge, decontamination bldg., and a spare.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM222C
PLANT SPEC POINT DESC:	VV PART SAMPLE RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation of particles in an air sample taken from one of eight areas. The operator can select a sampling time at each of the eight areas between 30 min. and 24 hrs. The areas that can be selected are fuel bldg., safeguards area of unit 1 or unit 2, aux bldg. central area (2 separate sampling apparatus), containment purge, decontamination bldg., and a spare.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM223C
PLANT SPEC POINT DESC: PV HIGH RADN RATE MONITOR
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.259E+5
MAXIMUM INSTR RANGE: 1.0E+13
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SERV BLDG ELEV 307
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Takes a sample from stacks A & B and measures the radiation level in the sample. This is the high range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM224C
PLANT SPEC POINT DESC: PV NORM RADN RATE MONITOR
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-2
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SWGR BLDG ELEV 307
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continually senses radiation level in a sample stream from
the process vent and provides a signal to RM-GW-108-1A's
micro computer for determination of radiation release rate.
This is the normal range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM225C
PLANT SPEC POINT DESC:	PV NORMAL RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-7
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SWGR BLDG ELEV 307
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continually senses radiation level in a sample stream from the process vent. This is the normal range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM226C
PLANT SPEC POINT DESC: VS A HIGH RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: $3.162E-4$
MAXIMUM INSTR RANGE: $1.0E+5$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack
"A". This is the high range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM227C
PLANT SPEC POINT DESC: VS A HIGH RADN RATE MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.259E+5
MAXIMUM INSTR RANGE: 1.0E+13
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack "A"
and provides a signal to RG-VG179-2A's microcomputer for
determination of radiation release rate. This is the high
range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM228C
PLANT SPEC POINT DESC: VS A NORMAL RAD MGN
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-7
MAXIMUM INSTR RANGE: 10.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack
"A". This is the normal range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM229C
PLANT SPEC POINT DESC: VS A NORM RADN RATE MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-2
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack "A"
and provides a signal to RG-VG179-1A's microcomputer for
determination of radiation release rate. This is the normal
range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM230C
PLANT SPEC POINT DESC:	VS B HIGH RADN RATE MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-4
MAXIMUM INSTR RANGE:	1.0E+5
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses radiation level in a sample taken from vent stack "B" and provides a signal to RG-VG-180-2A's microcomputer for determination of radiation release rate. This is the high range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM231C
PLANT SPEC POINT DESC: VS B HIGH RADN RATE MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.259E+5
MAXIMUM INSTR RANGE: 1.0E+13
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack
"B". This is the high range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM232C
PLANT SPEC POINT DESC:	VS B NORMAL RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATE:	UCI/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-7
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses radiation level in a sample taken from vent stack "B". This is the normal range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM233C
PLANT SPEC POINT DESC: VS B NORM RADN RATE MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-2
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTTS: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATION: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack "B"
and provides a signal to RG-VG180-1A's microcomputer for
determination of radiation release rate. This is the normal
range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM234C
PLANT SPEC POINT DESC: PV HIGH RADIATION MONITOR
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162E-4
MAXIMUM INSTR RANGE: 1.0E+5
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SERV BLDG ELEV 307
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample stream from the process vent. This is the high range instrument for this data.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R1RM211C
PLANT SPEC POINT DESC:	DISCHARGE TUNNEL RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	DSCHRG TUNL PAST LAST PT OF RAD ADDITION
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors effluent (service water, condensate cooling water, and liquid waste) in the discharge tunnel beyond the last point of radiation addition to ensure that the radiation activity levels of the plant discharge do not exceed limits.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R1RM216C
PLANT SPEC POINT DESC:	SW FR RCS CLR 1A RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SRVC WTR SPLY FRM RECIRC SPRY HEAT XCHNG
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	In the event of an accident 1-SW-P-5 will withdraw a continuous sample from the service water outlet line of recirculation spray heat exchanger 1-RS-E-1A which will then be monitored for radiation and returned to the service water line.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R1RM217C
PLANT SPEC POINT DESC: SW FR RCS CLR 1B RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SRVC WTR SPLY FRM RECIRC SPRY HEAT XCHNG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: In the event of an accident 1-SW-P-6 will withdraw a continuous sample from the service water outlet line of recirculation spray heat exchanger 1-RS-E-1B which will then be monitored for radiation and returned to the service water line.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R1RM218C
PLANT SPEC POINT DESC: SW FR RCS CLR 1C RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 5.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SRVC WTR SPLY FRM RECIRC SPRY HEAT XCHNG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: 4/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: In the event of an accident 1-SW-P-7 will withdraw continuous sample from the service water outlet line of recirculation spray heat exchanger 1-RS-E-1C which will then be monitored for radiation and returned to the service water line.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R1RM219C
PLANT SPEC POINT DESC:	SW FR RCS CLR 1D RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SRVC WTR SPLY FRM RECIRC SPRY HEAT XCHNG
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	In the event of an accident 1-SW-P-8 will withdraw a continuous sample from the service water outlet line of recirculation spray heat exchanger 1-RS-E-1D which will then be monitored for radiation and returned to the service water line.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM214C
PLANT SPEC POINT DESC:	SW DISCH TO RSVR RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATED:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OFF-LINE IN A CMN HDR OF 2 36"DSCH LINES
ALARM/TRIP SETPOINTS:	VARIABLE
W1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
W1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of the service water discharge to the service water reservoir.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R3RM215C
PLANT SPEC POINT DESC: SW DISCH TO CANAL RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: OFF-LINE IN A CMW HDR OF 2 24"DSCH LINES
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level of the service
water discharge to the discharge canal.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM216C
PLANT SPEC POINT DESC:	SW FROM CC HX RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OFF-LINE IN A CMN HDR OF 4 HEAT XCHNGERS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of the service water effluent from the component cooling heat exchangers.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC EKDS PARAMETER:	H2 CONC
POINT ID:	A1GW001C
PLANT SPEC POINT DESC:	CNTMT H2 CONCENTRATION
GENERIC/COND DESC:	CONTAINMENT HYDROGEN CONC
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-1.5
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	AUX BLDG ELEV 259
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Takes a sample of containment atmosphere and measures the hydrogen concentration in the sample. The valid signals are averaged (2 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 1/A
POINT ID: T1RC003A
PLANT SPEC POINT DESC: LOOP A WR HOT LEG TEMP (RD) <>
GENERIC/COND DESC: STM GEN A INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP A HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop A hot leg temperature.

STATION: North Anna
UNIT: 1
PWP DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DA A FEEDER:	N/A
NRC ERDS PARAMETER:	HL TEMP 2/B
POINT ID:	T1RC005A
PLANT SPEC POINT DESC:	LOOP B WR HOT LEG TEMP (WT) <>
GENERIC/COND DESC:	STM GEN B INLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	LOOP B HOT LEG
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses loop B hot leg temperature.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: HP SI FLOW
POINT ID: F1S1001C
PLANT SPEC POINT DESC: TOT COLD LEG HHSI FLOW
GENERIC/COND DESC: HIGH PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 750.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SEWS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: SUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CHRGNG PMP DISCH UPSTRM OF COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provider flow indication on the SI headers from the HHSI pumps to the cold leg of each loop. The 3 loop high head SI flows are totaled for this value. If any one of the loop SI values is invalid, this point will be marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/17/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	HP SI FLOW
POINT ID:	F1S1003A
PLANT SPEC POINT DESC:	TOTAL HOT LEG SI FLOW (WT)
GENERIC/COND DESC:	HIGH PRESSURE SI FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	1000.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	CHRGING PMP DISCH UPSTRM OF HOT LEG
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Provides flow indication on the SI headers from the HHSI pumps to the hot leg of each loop.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: F1S1001A
PLANT SPEC POINT DESC: L HD INJ HEADER FLOW A (NL)
GENERIC/COND DESC: LOW PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 499.3" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 4000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LPSI PUMP A DISCHARGE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides flow indication from LHSI pump A.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: F1SI002A
PLANT SPEC POINT DESC: L HD INJ HEADER FLOW B (NL)
GENERIC/COND DESC: LOW PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 499.3" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 4000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LPSI PUMP B DISCHARGE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DFSC: Provides flow indication from LHSI pump B.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MAIN SL 1/A
POINT ID:	R1RM201C
PLANT SPEC POINT DESC:	MS LINE A RAD MON (170)
GENERIC/COND DESC:	STM GEN A STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-2
MAXIMUM INSTR RANGE:	1.0E+7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	MN STM SAFETY VLV RISER - M.S. VLV HOUSE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the 32 inch A main steam safety line indicates radiation level.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 2/B
POINT ID: R1RM202C
PLANT SPEC POINT DESC: MS LINE B RAD MON (171)
GENERIC/COND DESC: STM GEN B STEAM LINE RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162E-2
MAXIMUM INSTR RANGE: 1.0E+7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: MN STM SAFETY VLV RISER - M.S. VLV HOUSE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the 32 inch B main steam safety line
and indicates radiation level.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MAIN SL 3/C
POINT ID:	R1RM203C
PLANT SPEC POINT DESC:	MS LINE C RAD MON (172)
GENERIC/COND DESC:	STM GEN C STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INS.R RANGE:	3.162E-2
MAXIMUM INSTR RANGE:	1.0E+7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	MN STM SAFETY VLV RISER - M.S. VLV HOUSE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the 32 inch C main steam safety line and indicates radiation level.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MN FD FL 1/A
POINT ID: F1FW005C
PLANT SPEC POINT DESC: SG A MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN A MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0-796.92" H2O
MINIMUM INSTR RANGE: -0.1
MAXIMUM INSTR RANGE: 5.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HEATR DISCH UPSTRM OF STM GEN 1A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator 1A.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MN FD 7L 2/B
POINT ID: F1FW006C
PLANT SPEC POINT DESC: SG B MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN B MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0-796.92" H2O
MINIMUM INSTR RANGE: >0.1
MAXIMUM INSTR RANGE: 5.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HEATR DISCH UPSTRM OF STM GEN 1B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator 1B.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MN FD FL 3/C
POINT ID: F1FW007C
PLANT SPEC POINT DESC: SG C MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN C MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0.796.92" H2O
MINIMUM INSTR RANGE: -0.1
MAXIMUM INSTR RANGE: 5.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HEATR DISCH UPSTRM OF STM GEN 1C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator 1C.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: NI INTER RNG
POINT ID: MINM003C
PLANT SPEC POINT DESC: INTERMEDIATE RANGE POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, INT RANGE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: AMPS
ENGR UNITS CONVERSION: $3e-6$ - 120% Power
MINIMUM INSTR RANGE: $1.0E-11$
MAXIMUM INSTR RANGE: $1.2589E-3$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The highest valid intermediate range signal is used for this point. 2 intermediate range signals are available for use. If neither of the intermediate range signals is valid, this point is marked invalid. The intermediate range inputs are logarithmic in nature. Therefore, the highest valid intermediate range signal is exponentiated to yield the value for this point.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/17/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	NI POWER RNG
POINT ID:	M1NM005C
PLANT SPEC POINT DESC:	POWER RANGE AVERAGE POWER
GENERIC/COND DESC:	NUCLEAR INSTRUMENTS, POWER RANGE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC DR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The valid power range signals are averaged for this point. 4 power range signals are available for use. If none of the power range signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: NI SOURC RNG
POINT ID: MINMOD1C
PLANT SPEC POINT DESC: SOURCE LEVEL POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, SOURCE RNG
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPS
ENGR UNITS CONVERSION: $1e-9 \sim 1e-3\%$ Power
MINIMUM INSTR RANGE: 1.0
MAXIMUM INSTR RANGE: 1000000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: $1e-10$ AMPS IR
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: $<1e-10$ AMPS IR
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: NI cut off requires the listed reading on either of the intermediate range instruments and NI cut on requires the listed reading on both of the intermediate range instruments (IR is on the intermediate range power scale). The highest valid source range signal is used for this point. 2 source range signals are available for use. If neither of the source range signals is valid, this point is marked invalid. The source range inputs are logarithmic in nature. Therefore, the highest valid source range signal is exponentiated to yield the value for this point.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: PRZR LEVEL
POINT ID: L1RC002C
PLANT SPEC POINT DESC: PRESSURIZER LEVEL
GENERIC/COND DESC: PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 3.91 " H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: 0% CORRESPONDS TO 660.35 GALLONS H2O
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: PRESSURIZER - HP LOCATED 32.57' ABOVE LP
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses pressurizer level and provides alarm and control
function inputs when the plant is operating normally
(calibrated for 550 DEGF). The valid signals are averaged
(3 signals if all are valid). If none of the signals are
valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS CHG/MU
POINT ID: F1CH003A
PLANT SPEC POINT DESC: CHARGING LOOP FLOW (NL)
GENERIC/COND DESC: PRIM SYS CHARGING OR MAKEUP FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0-648" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 180.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: CHARGING LINE UPSTREAM OF REGEN HX
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Flow transmitter FT-1122 transmits a signal to a controller located in the control cabinets, and to a flow indicator in the main control room. The controller operates the charging water flow control valve (FCV-1122) to maintain a preset charging flow in conjunction with a signal from the pressurizer level instrumentation. The two signals maintain pressurizer level within the proscribed band and limit the maximum and minimum charging flow rates.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	RCS LETDN RAD
POINT ID:	F1CH004A
PLANT SPEC POINT C SC:	LOW PRESSURE LETDOWN FLOW (NL)
GENERIC/COND DESC:	RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	0-560" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	180.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	LETDOWN LINE DWNSTRM OF NON-REGEN HX
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Provides indication of letdown stream flow rate in the Control Room.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	RCS LETDN RAD
POINT ID:	R1RM214C
PLANT SPEC POINT DESC:	RCS LETDOWN HIGH RAD MON
GENERIC/COND DESC:	RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	RCS LETDOWN LINE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors radiation level in the reactor coolant by means of a sample from the letdown line.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS PRESSURE
POINT ID: P1RCD01C
PLANT SPEC POINT DESC: RCS AVERAGE PRESSURE
GENERIC/COND DESC: REACTOR COOLANT SYSTEM PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 3000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: SEE SYSTEM DESCRIPTION
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: PT-1455, PT-1456, and PT-1457 all measure pressurizer narrow range pressure and are used for pressurizer pressure protection. PT-1402 is located on the loop C hot leg and PT-1403 is located on the loop A hot leg and both monitor RCS wide range pressure. The valid narrow range signals are averaged (3 signals if all are valid). If none of the narrow range signals valid, the average of the valid wide range signals is used (2 signals if all are valid). If none of the narrow or wide range signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: REAC VES LEV
POINT ID: L1RC001C
PLANT SPEC POINT DESC: REAC VSL FULL RANGE LEVEL
GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 120.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 5
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: HEAD VENT (TOP) & BOTTOM OF VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: The 2 reactor full range level signals are used in conjunction with the reactor coolant pump (RCP) breaker statuses to calculate this value. The full range readings are invalid if any RCP is running; therefore, this point will be set invalid if any RCP breaker is closed. If none of the RCP breakers are closed, the average of the valid full range level signals is used to calculate this point.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: REAC VES LEV
POINT ID: L1RC003C
PLANT SPEC POINT DESC: RVLIS DYNAMIC HEAD LEVEL
GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL
ANALOG/AL: A
ENGR UNIT/IC STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 120.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 5
P/W PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: HEAD VENT (TOP) & BOTTOM OF VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: The 2 DYNAMIC HEAD level signals are used in conjunction with the reactor coolant pump (RCP) breaker statuses to calculate this value. The dynamic head readings are invalid if no RCP's are running; therefore, this point will be set invalid if no RCP breakers are closed. If any of the RCP breakers are closed, the average of the valid dynamic head level signals is used to calculate this point.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG BD RAD 1A
POINT ID: R1RM220C
PLANT SPEC POINT DESC: SG A BLWDN RAD MON
GENERIC/COND DESC: STM GEN A BLOWDOWN RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors radiation levels in the liquid phase
of steam generator 1-RC-E-1A blowdown. The sample is
returned to the steam generator blowdown tank after being
monitored.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG BD RAD 2B
POINT ID:	R1RM221C
PLANT SPEC POINT DESC:	SG B BLWON RAD MON
GENERIC/COND DESC:	STM GEN B BLOWDOWN RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors radiation levels in the liquid phase of steam generator 1-RC-E-1B blowdown. The sample is returned to the steam generator blowdown tank after being monitored.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG BD RAD 3C
POINT ID: R1RM222C
PLANT SPEC POINT DESC: SG C BLWON RAD MON
GENERIC/COND DESC: STM GEN C BLOWDOWN RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors radiation levels in the liquid phase
of steam generator 1-RC-E-1C blowdown. The sample is
returned to the steam generator blowdown tank after being
monitored.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 1/A
POINT ID: L1FW001C
PLANT SPEC POINT DESC: STEAM GENERATOR A LEVEL
GENERIC/COND DESC: STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES:
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 533" & TOP AT 677"
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1A. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG LEVEL 1/A
POINT ID:	L1FW004A
PLANT SPEC POINT DESC:	SG A WR LEVEL (NL) <>
GENERIC/COND DESC:	STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	0-575" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	TNKBOT
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	STEAM GENERATOR 1-RC-E-1A
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
N2 DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	WET
UNIQUE SYSTEM DESC:	Senses the water level in steam generator 1-RC-E-1A.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 2/B
POINT ID: L1FW002C
PLANT SPEC POINT DESC: STEAM GENERATOR B LEVEL
GENERIC/COND DESC: STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES:
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 533" & TOP AT 677"
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 18. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 2/B
POINT ID: L1FW008A
PLANT SPEC POINT DESC: SG B WR LEVEL (NL) <>
GENERIC/COND DESC: STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0-575" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SEHS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 1-RC-E-1B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1-RC-E-1B.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 3/C
POINT ID: L1FW003C
PLANT SPEC POINT DESC: STEAM GENERATOR C LEVEL
GENERIC/COND DESC: STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES:
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 533" & TOP AT 677"
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE CODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1C. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 3/C
POINT ID: L1FW012A
PLANT SPEC POINT DESC: SG C WR LEVEL (NL) <>
GENERIC/COND DESC: STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0-575" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 1-RC-E-1C
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1-RC-E-1C.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
HRC ERDS PARAMETER: SG PRESS 1/A
POINT ID: P1MS001C
PLANT SPEC POINT DESC: SG A PRESSURE
GENERIC/COND DESC: STEAM GENERATOR A PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -14.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN 1-RC-E-1A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator A to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG PRESS 2/B
POINT ID:	P1MS002C
PLANT SPEC POINT DESC:	SG B PRESSURE
GENERIC/COND DESC:	STEAM GENERATOR B PKESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-14.0
MAXIMUM INSTR RANGE:	1400.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	OUTPUT OF STM GEN 1-KC-E-1B
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Provides pressure of the steam which is on route from steam generator B to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG PRESS 3/C
POINT ID:	P1MS003C
PLANT SPEC POINT DESC:	SG C PRESSURE
GENERIC/COMD DESC:	STEAM GENERATOR C PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-14.0
MAXIMUM INSTR RANGE:	1400.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	OUTPUT OF STM GEN 1-RC-E-1C
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Provides pressure of the steam which is on route from steam generator C to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/15/93
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: STAB CLASS
POINT ID: TJHM001C
PLANT SPEC POINT DESC: AVG ATMOS AMBIENT TEMPERATURE
GENERIC/COND DESC: AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -22.0
MAXIMUM INSTR RANGE: 122.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Measures air temperature at 35' elevation on the primary
tower. 15 minute running average computed every 15 seconds.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	M3MM001C
PLANT SPEC POINT DESC:	AVG SIGMA THETA
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	50.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Uses lower wind direction to find the standard deviation of the wind direction angle which is referred to as horizontal atmospheric stability. 15 minute running average is computed every 15 seconds.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/18/93
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: STAB CLASS
POINT ID: M3MM002C
PLANT SPEC POINT DESC: AVG UPPER DELTA T
GENERIC/COND DESC: AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -9.0
MAXIMUM INSTR RANGE: 9.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: 2 RTD'S AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Uses the difference of upper temperature and lower
temperature to calculate vertical atmospheric stability. 15
minute running average computed every 15 seconds.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: SUB MARGIN
POINT ID: T1RC020C
PLANT SPEC POINT DESC: CORE EXIT TSAT MARGIN
GENERIC/COND DESC: SATURATION TEMP - HIGHEST CET
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -35.0
MAXIMUM INSTR RANGE: 200.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: WR RCS PRESS AND INCORE T/C'S
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The valid saturation margin inputs from the RVLIS system are averaged (2 signals if all are valid). If none of the signals are valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	TEMP CORE EX
POINT ID:	T1RC001C
PLANT SPEC POINT DESC:	PEAK CORE EXIT TEMP
GENERIC/COND DESC:	HIGHEST TEMPERATURE AT CORE EXIT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	2400.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	50
HOW PROCESSED:	MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	EXIT OF SELECTED FUEL ASSEMBLIES IN-CORE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the reactor coolant exit temperature. The highest valid incore thermocouple is used. If none of the thermocouples is valid, this point is marked invalid.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM003C
PLANT SPEC POINT DESC:	AVG LOWER WIND DIRECTION
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 35', 15 minute running vector average computed every 15 seconds.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004C
PLANT SPEC POINT DESC:	Avg UPPER WIND DIRECTION
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 150', 15 minute running vector average computed every 15 seconds.

STATION: Norwich Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/15/93
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: WIND SPEED
POINT ID: W3MM007C
PLANT SPEC POINT DESC: AVG LOWER WIND SPEED
GENERIC/COND DESC: WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MPH
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Meas the wind speed at 35'. 15 minute running average
comp. every 15 seconds.

STATION: North Anna
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/15/93
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: WIND SPEED
POINT ID: M3MH008C
PLANT SPEC POINT DESC: AVG UPPER WIND SPEED
GENERIC/COND DESC: WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MPH
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Measures the wind speed at 150'. 15 minute running average
computed every 15 seconds.

ATTACHMENT 8

UPDATED DPL FORMS FOR NORTH ANNA UNIT 2

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	07/01/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	AX FD FL 1/A
POINT ID:	F2FW001A
PLANT SPEC POINT DESC:	AFW FLOW TO SG A (BL)
GENERIC/COND DESC:	STM GEN A AUX FEEDWATER FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	0-600" H2O
MINIMUM INSTR RANGE:	-0.2
MAXIMUM INSTR RANGE:	500.00
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	AUX FEED PMP DISCH UPSTRM OF STM GEN 1A
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVE :	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses auxiliary feed pump discharge to steam generator A.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 2/B
POINT ID: F2FW002A
PLANT SPEC POINT DESC: AFW FLOW TO SG B (YW)
GENERIC/COND DESC: STM GEN B AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0-600" H2O
MINIMUM INSTR RANGE: -0.2
MAXIMUM INSTR RANGE: 500.00
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: AUX FEED PMP DISCH UPSTRM OF STM GEN 1B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses auxiliary feed pump discharge to steam generator B.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 07/01/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 2/B
POINT ID: F2FW003A
PLANT SPEC POINT DESC: AFW FLOW TO SG C (WT)
GENERIC/COND DESC: STM GEN B A'IX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0-600" H2O
MINIMUM INSTR RANGE: -0.2
MAXIMUM INSTR RANGE: 500.00
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: AUX FEED PMP DISCH UPSTRM OF STM GEN 1C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVL: N/A
NI DETECTOR POWER SUPPL
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses auxiliary feed pump discharge to steam generator C.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: BWST LEVEL
POINT ID: L2CS001C
PLANT SPEC POINT DESC: RWST LEVEL
GENERIC/COND DESC: BORATED WATER STORAGE TANK LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 4700 GALLONS
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: 16970 GALLONS REMAIN AT ZERO POINT
PROC OR SENS: P
NUMBER OF SENSORS: 4
HOW PROCESSED: MINIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: RWST
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: DRY
UNIQUE SYSTEM DESC: Indicates the level in the RWST. The lowest valid signal is used. If none of the 4 signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 1/A
POINT ID: T2RC002A
PLANT SPEC POINT DESC: LOOP A WR T COLD (RD) <>
GENERIC/COND DESC: STM GEN A OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP A COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop A cold leg temperature.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 2/B
POINT ID: T2RC004A
PLANT SPEC POINT DESC: LOOP B WR T COLD (WT) <>
GENERIC/COND DESC: STM GEN B OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP B COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop B cold leg temperature.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 3/C
POINT ID: T2RC006A
PLANT SPEC POINT DESC: LOOP C WR T COLD (BL) <>
GENERIC/COND DESC: STM GEN C OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP C COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop C cold leg temperature.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CL TEMP 3/C
POINT ID: T2RC007A
PLANT SPEC POINT DESC: LOOP C WR HOT LEG TEMP (BL) <>
GENERIC/COND DESC: STM GEN C OUTLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP C HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop C hot leg temperature.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM206C
PLANT SPEC POINT DESC:	CNTMT AREA GAS RAD MON
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OUTSIDE CONTAINMENT PERSONNEL HATCH
ALARM/TRIP SETPOINTS:	VARIABLE
HI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
HI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of air taken from the reactor containment.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R2RM207C
PLANT SPEC POINT DESC: CNTMT HR RAD MON COLUMN 4
GENERIC/COND DESC: RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: R/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.3162
MAXIMUM INSTR RANGE: 1.0E+7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: ON THE INSIDE CRANE WALL
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level within the reactor containment.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM208C
PLANT SPEC POINT DESC:	CNTMT HR RAD MON COL 12
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	R/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.3162
MAXIMUM INSTR RANGE:	1.0E+7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	ON THE INSIDE CRANE WALL
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level within the reactor containment.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM209C
PLANT SPEC POINT DESC:	CNTMT PERS HATCH RAD MON
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	R/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-5
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OUTSIDE CONTAINMENT PERSONNEL HATCH
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level in the Personnel Hatch area.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CNTMNT RAD
POINT ID:	R2RM210C
PLANT SPEC POINT DESC:	CNTMT PARTICULATE RAD MON
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OUTSIDE CONTAINMENT PERSONNEL HATCH
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of particles in the air taken out of the reactor containment.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CHTMNT RAD
POINT ID:	R2PM215C
PLANT SPEC POINT DESC:	CNTMT AREA RAD MON
GENERIC/COND DESC:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	R/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-5
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	REACTOR CONTAINMENT
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Detects gamma radiation in the reactor containment.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	COND A/E RAD
POINT ID:	R2RM205C
PLANT SPEC POINT DESC:	CNDSR AIR EJECT RAD MON
GENERIC/COND DESC:	COND AIR EJECTOR RADIOACTIVITY
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OUTPUT OF CONDENSOR AIR EJECTORS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level in the gaseous effluent from the condensor air ejectors. On high radiation any radioactive air is diverted into the Reactor Containment.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CORE FLOW
POINT ID: F2RC004C
PLANT SPEC POINT DESC: AVERAGE RCS LOOP FLOW
GENERIC/COND DESC: TOTAL REACTOR FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0-260" H2O 0-96400 GPM 0-35e6 LBM/HR
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 120.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 9
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STEAM GEN DISCH UPSTRM OF RCP
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the flow of coolant from the steam generator to the reactor coolant pump. The average of the 3 loop calculated average flows is used for this point. The 3 loop average values are calculated by taking the average of the valid flow signals for each loop. If all loop flow signals are valid, 3 flow readings will be used for each loop.

STATION: Worth Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	CTMNT PRESS
POINT ID:	P2LM001C
PLANT SPEC POINT DESC:	CONTAINMENT PRESSURE
GENERIC/COND DESC:	CONTAINMENT PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIA
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	180.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	CABLE PENETRATION AREA IN AUX BLDG
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses reactor containment pressure. The valid intermediate range signals (4 signals if all are valid) are averaged. If no intermediate range signals are valid, the average of the wide range signals is used (2 signals if all are valid). If no signals are valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT SMP NR
POINT ID: L2DA002C
PLANT SPEC POINT DESC: CONTAINMENT NR SUMP LEVEL
GENERIC/COND DESC: CONTAINMENT SUMP NR LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 0.12" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CONTAINMENT SUMP
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses reactor containment sump level. The largest valid narrow range signal is used for this point. If all signals are val. 2 signals are considered. If both signals are invalid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/1/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT SMP WR
POINT ID: L2DA001C
PLANT SPEC POINT DESC: CONTAINMENT WR SUMP LEVEL
GENERIC/COND DESC: CONTAINMENT SUMP WR LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: FT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 11.33
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: RECIRC SPRAY SUMP-SEE SYSTEM DESCRIPTION
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Two transmitters (LT-RS-251A-2 & B-2) monitor recirc spray sump level in the sump itself (0-6'8") and in two additional transmitters (LT-RS-251A-1 & B-1) monitor the level above the sump itself (6'8"-11'4"). The valid wide range signals are averaged (2 signals if all are valid). If neither signal is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT TEMP
POINT ID: T2LM001C
PLANT SPEC POINT DESC: CONTAINMENT TEMPERATURE
GENERIC/COND DESC: CONTAINMENT TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: REACTOR CONTAINMENT ELEV 270
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses reactor containment temperature. The valid signals are averaged (2 signals if all are valid). If neither signal is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM211C
PLANT SPEC POINT DESC:	PV GAS RADIATION MONITOR
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	PROCESS VENT LINE DWNSTRM OF EVAPORATORS
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of a sample taken from the process vent after it has passed through the particulate filters.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM212C
PLANT SPEC POINT DESC:	PV PARTICULATE RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of the particulates in a sample taken from the process vent.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM217C
PLANT SPEC POINT DESC: VS GASEOUS RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: 84" DIAMETER VENTILATION STACK
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of a variable sample of the
ventilation stack air taken through a multiprobe isokinetic
sampling nozzle.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM218C
PLANT SPEC POINT DESC:	VS PARTICULATE RAD MON
GENERIC/CCND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	84" DIAMETER VENTILATION STACK
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the radiation level of the particles in a variable sample of the ventilation stack air taken through a multiprobe isokinetic sampling nozzle.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM219C
PLANT SPEC POINT DESC: VV GAS RADIATION MONITOR
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: 90" DIAMETER VENTILATION VENT
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of a variable sample of the
ventilation vent air taken through a multiprobe isokinetic
sampling nozzle.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM220C
PLANT SPEC POINT DESC: VV PARTICULATE RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: 90" DIAMETER VENTILATION VENT
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation level of particles in a variable
sample of the ventilation vent air taken through a
multiprobe isokinetic sampling nozzle.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM221C
PLANT SPEC POINT DESC: VV GAS SAMPLE RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation in an air sample taken from one of eight areas. The operator can select a sampling time at each of the eight areas between 30 min. and 24 hrs. The areas that can be selected are fuel bldg., safeguards area of unit 1 or unit 2, aux bldg. central area (2 separate sampling apparatus), containment purge, decontamination bldg., and a spare.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM222C
PLANT SPEC POINT DESC: VV PART SAMPLE RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Monitors the radiation of particles in an air sample taken from one of eight areas. The operator can select a sampling time at each of the eight areas between 30 min. and 24 hrs. The areas that can be selected are fuel bldg., safeguards area of unit 1 or unit 2, aux bldg. central area (2 separate sampling apparatus), containment purge, decontamination bldg., and a spare.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM223C
PLANT SPEC POINT DESC:	PV HIGH RADN RATE MONITOR
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UCI/S
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.259E+5
MAXIMUM INSTR RANGE:	1.0E+13
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SERV BLDG ELEV 307
ALARM/TRIP SETPOINTS:	VARIABLE
FI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Takes a sample from stacks A & B and measures the radiation level in the sample. This is the high range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM224C
PLANT SPEC POINT DESC: PV NORM RADN RATE MONITOR
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E+2
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOIES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SWGR BLDG ELEV 307
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continually senses radiation level in a sample stream from
the process vent and provides a signal to RM-GW-108-1A's
micro computer for determination of radiation release rate.
This is the normal range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM225C
PLANT SPEC POINT DESC:	PV NORMAL RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UC1/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-7
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SWGR BLDG ELEV 307
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continually senses radiation level in a sample stream from the process vent. This is the normal range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM226C
PLANT SPEC POINT DESC: VS A HIGH RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ALLOTTING/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: $3.162E-4$
MAXIMUM INSTR RANGE: $1.0E+5$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack
"A". This is the high range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM227C
PLANT SPEC POINT DESC: VS A HIGH RADN RATE MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.259E+5
MAXIMUM INSTR RANGE: 1.0E+13
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack "A"
and provides a signal to RG-VG179-2A's microcomputer for
determination of radiation release rate. This is the high
range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM228C
PLANT SPEC POINT DESC: VS A NORMAL RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-7
MAXIMUM INSTR RANGE: 10.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack
"A". This is the normal range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
COND FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM229C
PLANT SPEC POINT DESC:	VS A NORM RADN RATE MON
COND DESC:	RADIOACTIVITY OF RELEASED GASES
DIGITAL:	A
UNITS/DIG STATES:	UC1/S
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E-2
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS:	VARIABLE
HI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
HI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses radiation level in a sample taken from vent stack "A" and provides a signal to RG-VG179-1A's microcomputer for determination of radiation release rate. This is the normal range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM230C
PLANT SPEC POINT DESC: VS B HIGH RADN RATE MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162E-4
MAXIMUM INSTR RANGE: 1.0E+5
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack "B"
and provides a signal to RG-VG-180-2A's microcomputer for
determination of radiation release rate. This is the high
range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM231C
PLANT SPEC POINT DESC: VS B HIGH RADN RATE MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UC1/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.259E+5
MAXIMUM INSTR RANGE: 1.0E+13
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack
"B". This is the high range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM232C
PLANT SPEC POINT DESC: VS B NORMAL RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: ~1/CC
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-7
MAXIMUM INSTR RANGE: 10.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack
"B". This is the normal range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM233C
PLANT SPEC POINT DESC: VS B NORM RADN RATE MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: UCI/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-2
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: TURB BLDG ELEV 303
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses radiation level in a sample taken from vent stack "B"
and provides a signal to RG-VG180-1A's microcomputer for
determination of radiation release rate. This is the normal
range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R3RM234C
PLANT SPEC POINT DESC:	PV HIGH RADIATION MONITOR
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	UCI/CC
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-4
MAXIMUM INSTR RANGE:	1.0E+5
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SERV BLDG ELEV 307
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses radiation level in a sample stream from the process vent. This is the high range instrument for this data.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	R2RM204C
PLANT SPEC POINT DESC:	AS LINE RADIATION MONITOR
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	6.31E-5
MAXIMUM INSTR RANGE:	1.0E+4
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	TURBINE-DRIVEN AUX FEED PUMP EXHAUST
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level in the turbine-driven auxiliary feed pump exhaust ("Terry" turbine).

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM214C
PLANT SPEC POINT DESC:	SW DISCH TO RSVR RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OFF-LINE IN A CMN HDR OF 2 36"DSCH LINES
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of the service water discharge to the service water reservoir.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM215C
PLANT SPEC POINT DESC:	SW DISCH TO CANAL RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OFF-LINE IN A CMN HDR OF 2 24"DSCH LINES
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of the service water discharge to the discharge canal.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM216C
PLANT SPEC POINT DESC:	SW FROM CC HX RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	OFF-LINE IN A CMN HDR OF 4 HEAT XCHNGERS
ALARM/TRIP SETPOINTS:	VARIABLE
"2TECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI ""TECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of the service water effluent from the component cooling heat exchangers.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R2RM211C
PLANT SPEC POINT DESC: DISCHARGE TUNNEL RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: DSCHRG TUNL PAST LAST PT OF RAD ADDITION
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors effluent (service water, condensate cooling water, and liquid waste) in the discharge tunnel beyond the last point of radiation addition to ensure that the radiation activity levels of the plant discharge do not exceed limits.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R2RM216C
PLANT SPEC POINT DESC:	SW FR RCS CLR 2A RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SRVC WTR SPLY FRM RECIRC SPRY HEAT XCHNG
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	In the event of an accident 2-SW-P-5 will withdraw a continuous sample from the service water outlet line of recirculation spray heat exchanger 2-RS-E-1A which will then be monitored for radiation and returned to the service water line.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF LIQ RAD
POINT ID: R2RM217C
PLANT SPEC POINT DESC: SW FR RCS CLR 2B RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SRVC WTR SPLY FRM RECIRC SPRY HEAT XCHNG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: In the event of an accident 2-SW-P-6 will withdraw a continuous sample from the service water outlet line of recirculation spray heat exchanger 2-RS-E-1B which will then be monitored for radiation and returned to the service water line.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R2RM218C
PLANT SPEC POINT DESC:	SW FR RCS CLR 2C RAD MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIC
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	SRVC WTR SPLY FRM RECIRC SPRY HEAT XCHNG
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	In the event of an accident 2-SW-P-7 will withdraw a continuous sample from the service water outlet line of recirculation spray heat exchanger 2-RS-E-1C which will then be monitored for radiation and returned to the service water line.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC EPDS PARAMETER: EFF LIQ RAD
POINT ID: R2RM219C
PLANT SPEC POINT DESC: SW FR RCS CLR 2D RAD MON
GENERIC/COND DESC: RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PRCC Q. SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: SRVC WTR SPLY FRM RECIRC (PRY HEAT XCHNG)
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
OUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: In the event of an accident 2-SW-P-8 will withdraw a continuous sample from the service water outlet line of recirculation spray heat exchanger 2-RS-E-1D which will then be monitored for radiation and returned to the service water line.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: 4/A
NRC ERDS PARAMETER: H2 CONC
POINT ID: A20W001C
PLANT SPEC POINT DESC: CONTMT H2 CONCENTRATION
GENERIC/COND DESC: CONTAINMENT HYDROGEN CONC
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -1.5
MAXIMUM INSTR RANGE: 10.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HC: PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: AUX BLDG ELEV 259
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Takes a sample of containment atmosphere and measures the
hydrogen concentration in the sample.
The valid signals are averaged (2 signals if all are valid).
If none of the signals is valid, this point is marked
invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 1/A
POINT ID: T2RC003A
PLANT SPEC POINT DESC: LOOP A WR HOT LEG TEMP (RD) «»
GENERIC/COND DESC: STM GEN A INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP A HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop A hot leg temperature.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HL TEMP 2/B
POINT ID: T2RC005A
PLANT SPEC POINT DESC: LOOP B WR HOT LEG TEMP (WT) <>
GENER/C/COND DESC: STM GEN B INLET TEMPERATURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DECF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 700.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LOOP B HOT LEG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses loop B hot leg temperature.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: HP SI FLOW
POINT ID: F2SI001C
PLANT SPEC POINT DESC: TOT COLD LEG HHSI FLOW
GENERIC/COND DESC: HIGH PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 750.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: SUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: CHRGNG PMP DISCH UPSTRM OF COLD LEG
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides flow indication on the SI headers from the HHSI pumps to the cold leg of each loop. The 3 loop high head SI flows are totaled for this value. If any one of the loop SI values is invalid, this point will be marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/17/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	HP SI FLOW
POINT ID:	F2SI003A
PLANT SPEC POINT DESC:	TOTAL HOT LEG SI FLOW (WT)
GENERIC/COND DESC:	HIGH PRESSURE SI FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	1000.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	CHRGING PMP DISCH UPSTRM OF HOT LEG
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Provides flow indication on the SI headers from the HHSI pumps to the hot leg of each loop.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: F2S1001A
PLANT SPEC POINT DESC: L HD IHJ HEADER FLOW A (NL)
GENERIC/COND DESC: LOW PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 499.3" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 4000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LPS1 PUMP A DISCHARGE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides flow indication from LHS1 pump A.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: F2SI002A
PLANT SPEC POINT DESC: L HD INJ HEADER FLOW B (NL)
GENERIC/COND DESC: LOW PRESSURE SI FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 499.3" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 4000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: LPSI PUMP B DISCHARGE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides flow indication from LPSI pump B.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 1/A
POINT ID: R2KM201C
PLANT SPEC POINT DESC: MS LINE A RAD MON (270)
GENERIC/COND DESC: STM GEN A STEAM LINE RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: $3.162E-2$
MAXIMUM INSTR RANGE: $1.0E+7$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: MW STM SAFETY VLV RISER - M.S. VLV HOUSE
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the 32 inch A main steam safety line
and indicates radiation level.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MAIN SL 2/B
POINT ID:	R3RM202C
PLANT SPEC POINT DESC:	MS LINE B RAD MON (271)
GENERIC/COND DESC:	STM GEN B STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162E-2
MAXIMUM INSTR RANGE:	1.0E+7
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	MN STM SAFETY VLV RISER - M.S. VLV HOUSE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the 32 inch B main steam safety line and indicates radiation level.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 3/C
POINT ID: R2RM203C
PLANT SPEC POINT DESC: MS LINE C RAD MON (272)
GENERIC/COND DESC: STM GEN C STEAM LINE RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162E-2
MAXIMUM INSTR RANGE: 1.0E+7
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: MN STM SAFETY VLV RISER - M.S. VLV HOUSE
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the 32 inch C main steam safety line
and indicates radiation level.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MN FD FL 1/A
POINT ID: F2FW005C
PLANT SPEC POINT DESC: SG A MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN A MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0-796.92" H2O
MINIMUM INSTR RANGE: -0.1
MAXIMUM INSTR RANGE: 5.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HEATR DISCH UPSTRM OF STM GEN 1A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator 1A.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MN FD FL 2/B
POINT ID: F2FW006C
PLANT SPEC POINT DESC: SG B MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN B MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0-796.92" H2O
MINIMUM INSTR RANGE: -0.1
MAXIMUM INSTR RANGE: 5.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HEATR DISCH UPSTRM OF STM GEN 1B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator 1B.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MN FD FL 3/C
POINT ID: F2FW007C
PLANT SPEC POINT DESC: SG C MAIN FEEDWATER FLOW
GENERIC/COND DESC: STM GEN C MAIN FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MLB/HR
ENGR UNITS CONVERSION: 0-796.92" H2O
MINIMUM INSTR RANGE: -0.1
MAXIMUM INSTR RANGE: 5.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: FEEDWTR HEATR DISCH UPSTRM OF STM GEN 1C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses flow in main feedwater line to steam generator 1C.
The average of the valid feed flow signals is used for this
point. If all signals are valid, 2 signals will be used.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: N1 INTER RNG
POINT ID: M2NM003C
PLANT SPEC POINT DESC: INTERMEDIATE RANGE POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, INT RANGE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: AMPS
ENGR UNITS CONVERSION: $3e-6 \times 120\%$ Power
MINIMUM INSTR RANGE: $1.0E-11$
MAXIMUM INSTR RANGE: $1.2589E-3$
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The highest valid intermediate range signal is used for this point. 2 intermediate range signals are available for use. If neither of the intermediate range signals is valid, this point is marked invalid. The intermediate range inputs are logarithmic in nature. Therefore, the highest valid intermediate range signal is exponentiated to yield the value for this point.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: NI POWER RNG
POINT ID: M2NM005C
PLANT SPEC POINT DESC: POWER RANGE AVERAGE POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, POWER RANGE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 120.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SEHS: P
NUMBER OF SENSORS: 4
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: The valid power range signals are averaged for this point.
4 power range signals are available for use. If none of the
power range signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: NI SOURC RNG
POINT ID: M2NM001C
PLANT SPEC POINT DESC: SOURCE LEVEL POWER
GENERIC/COND DESC: NUCLEAR INSTRUMENTS, SOURCE RNG
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPS
ENGR UNITS CONVERSION: $1e-9 \sim 1e-3\%$ Power
MINIMUM INSTR RANGE: 1.0
MAXIMUM INSTR RANGE: 1000000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: ADJACENT TO OUTSIDE OF REACTOR VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: $1e-10$ AMPS IR
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: $<1e-10$ AMPS IR
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: NI cut off requires the listed reading on either of the intermediate range instruments and NI cut on requires the listed reading on both of the intermediate range instruments (IR is on the intermediate range power scale). The highest valid source range signal is used for this point. 2 source range signals are available for use. If neither of the source range signals is valid, this point is marked invalid. The source range inputs are logarithmic in nature. Therefore, the highest valid source range signal is exponentiated to yield the value for this point.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: PRZR LEVEL
POINT ID: L2RC002C
PLANT SPEC POINT DESC: PRESSURIZER LEVEL
GENERIC/COND DESC: PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 3.91 " H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: 0% CORRESPONDS TO 660.35 GALLONS H2O
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: PRESSURIZER - HP LOCATED 32.57' ABOVE LP
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses pressurizer level and provides alarm and control function inputs when the plant is operating normally (calibrated for 550 DEGF). The valid signals are averaged (3 signals if all are valid). If none of the signals are valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS CHG/MU
POINT ID: F2CH003A
PLANT SPEC POINT DESC: CHARGING LOOP FLOW (NL)
GENERIC/COND DESC: PRIM SYS CHARGING OR MAKEUP FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0-648" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 180.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: CHARGING LINE UPSTREAM OF REGEN HX
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Flow transmitter FT-2122 transmits a signal to a controller located in the control cabinets, and to a flow indicator in the main control room. The controller operates the charging water flow control valve (FCV-2122) to maintain a preset charging flow in conjunction with a signal from the pressurizer level instrumentation. The two signals maintain pressurizer level within the proscribed band and limit the maximum and minimum charging flow rates.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	RCS LTDN RAD
POINT ID:	F2CH004A
PLANT SPEC POINT DESC:	LOW PRESSURE LETDOWN FLOW (NL)
GENERIC/COND DESC:	RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	0-560" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	180.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROV OR SENS:	S
NUMBER OF SENSORS:	N/A
HOW PROCESSED:	N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS:	LETDOWN LINE DWNSTRM OF NON-REGEN HX
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Provides indication of letdown stream flow rate in the Control Room.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	RCS LTDN RAD
POINT ID:	R2RM214C
PLANT SPEC POINT DESC:	RCS LETDOWN HIGH RAD MON
GENERIC/COND DESC:	100 LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	RCS LETDOWN LINE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors radiation level in the reactor coolant by means of a sample from the letdown line.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS PRESSURE
POINT ID: P2RC001C
PLANT SPEC POINT DESC: RCS AVERAGE PRESSURE
GENERIC/COND DESC: REACTOR COOLANT SYSTEM PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 3000.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: SEE SYSTEM DESCRIPTION
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: PT-2455, PT-2456, and PT-2457 all measure narrow range
pressurizer pressure and are used for pressurizer pressure
protection. PT-2402 is located on the loop C hot leg and
PT-2403 is located on the loop A hot leg and both monitor
RCS wide range pressure. The valid narrow range signals are
averaged (3 signals if all are valid). If none of the
narrow range signals valid, the average of the valid wide
range signals is used (2 signals if all are valid). If none
of the narrow or wide range signals is valid, this point is
marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: REAC VES LEV
POINT ID: L2RC001C
PLANT SPEC POINT DESC: REAC VSL FULL RANGE LEVEL
GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 120.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 5
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: HEAD VENT (TOP) & BOTTOM OF VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: The 2 reactor full range level signals are used in conjunction with the reactor coolant pump (RCP) breaker statuses to calculate this value. The full range readings are invalid if any RCP is running; therefore, this point will be set invalid if any RCP breaker is closed. If none of the RCP breakers are closed, the average of the valid full range level signals is used to calculate this point.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: REAC VES LEV
POINT ID: L2RC003C
PLANT SPEC POINT DESC: RVLIS DYNAMIC HEAD LEVEL
GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 120.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 5
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: HEAD VENT (TOP) & BOTTOM OF VESSEL
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: The 2 DYNAMIC HEAD level signals are used in conjunction with the reactor coolant pump (RCP) breaker statuses to calculate this value. The dynamic head readings are invalid if no RCP's are running; therefore, this point will be set invalid if no RCP breakers are closed. If any of the RCP breakers are closed, the average of the valid dynamic head level signals is used to calculate this point.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG BD RAD 1A
POINT ID: R2RM220C
PLANT SPEC POINT DESC: SG A BLWDN RAD MON
GENERIC/COND DESC: STM GEN A BLOWDOWN RAD LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: CPM
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 3.162
MAXIMUM INSTR RANGE: 1.0E+6
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PRCC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS: AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors radiation levels in the liquid phase
of steam generator 2-RC-E-1A blowdown. The sample is
returned to the steam generator blowdown tank after being
monitored.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG BD RAD 2B
POINT ID:	R2RM221C
PLANT SPEC POINT DESC:	SG B BLWDN RAD MON
GENERIC/COND DESC:	STM GEN B BLOWDOWN RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors radiation levels in the liquid phase of steam generator 2-RC-E-1B blowdown. The sample is returned to the steam generator blowdown tank after being monitored.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG BD RAD 3C
POINT ID:	R2RM222C
PLANT SPEC POINT DESC:	SG C BLWDN RAD MON
GENERIC/COND DESC:	STM GEN C BLOWDOWN RAD LEVEL
ANALCG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	3.162
MAXIMUM INSTR RANGE:	1.0E+6
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	EXPONENTIATED VALUE OF LOGARITHMIC INPUT
SENSOR LOCATIONS:	AUX BLDG ELEV 292
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors radiation levels in the liquid phase of steam generator 2-RC-E-1C blowdown. The sample is returned to the steam generator blowdown tank after being monitored.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	05/17/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SG LEVEL 1/A
POINT ID:	L2FW001C
PLANT SPEC POINT DESC:	STEAM GENERATOR A LEVEL
GENERIC/COND DESC:	STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PCT
ENGR UNITS CONVERSION:	1% = 1.44" H2O
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	UTUBES
REFERENCE POINT NOTES:	
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	STM GEN-BOTTOM AT 533" & TOP AT 677"
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	WET
UNIQUE SYSTEM DESC:	Senses the water level in steam generator 1A. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERD3 PARAMETER: SG LEVEL 1/A
POINT ID: 12FW004A
PLANT SPEC POINT DESC: SG & WR LEVEL (NL) <>
GENERIC/COND DESC: STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0-575" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 2-RC-E-1A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 2-RC-E-1A.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SC LEVEL 2/B
POINT ID: L2FW002C
PLANT SPEC POINT DESC: STEAM GENERATOR B LEVEL
GENERIC/COND DESC: STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES:
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 533" & TOP AT 677"
ALARM/TR P SETPOINTS: VARIABLE
NI DETEC/OR POWER SUPPLY
CU'-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1B. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 2/B
POINT ID: L2FW008A
PLANT SPEC POINT DESC: SG B WR LEVEL (NL) <>
GENERIC/COND DESC: STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0.575" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 2-RC-E-1B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 2-RC-E-1B.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 05/17/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 3/C
POINT ID: L2FW003C
PLANT SPEC POINT DESC: STEAM GENERATOR C LEVEL
GENERIC/COND DESC: STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 1% = 1.44" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: UTUBES
REFERENCE POINT NOTES:
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: STM GEN-BOTTOM AT 533" & TOP AT 677"
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 1C. The valid narrow range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 3/C
POINT ID: L2FW012A
PLANT SPEC POINT DESC: SG C WR LEVEL (NL) <>
GENERIC/COND DESC: STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PCT
ENGR UNITS CONVERSION: 0-575" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: THKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: S
NUMBER OF SENSORS: N/A
HOW PROCESSED: N/A - THIS IS A DIRECT SENSOR INPUT
SENSOR LOCATIONS: STEAM GENERATOR 2-RC-E-1C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: Senses the water level in steam generator 2-RC-E-1C.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG PRESS 1/A
POINT ID: P2MS001C
PLANT SPEC POINT DESC: SG A PRESSURE
GENERIC/COND DESC: STEAM GENERATOR A PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -14.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN 2-RC-E-1A
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator A to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG PRESS 2/B
POINT ID: P2MS002C
PLANT SPEC POINT DESC: SG B PRESSURE
GENERIC/COND DESC: STEAM GENERATOR B PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -14.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN 2-RC-E-1B
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator B to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 03/21/91
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG PRESS 3/C
POINT ID: P2MS003C
PLANT SPEC POINT DESC: SG C PRESSURE
GENERIC/COND DESC: STEAM GENERATOR C PRESSURE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: PSIG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -14.0
MAXIMUM INSTR RANGE: 1400.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 3
HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS: OUTPUT OF STM GEN 2-RC-E-1C
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Provides pressure of the steam which is on route from steam generator C to the main steam manifold. The valid wide range signals are averaged (3 signals if all are valid). If none of the signals is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	STAB CLASS
POINT ID:	T3MM001C
PLANT SPEC POINT DESC:	AVG ATMOS AMBIENT TEMPERATURE
GENERIC/COND DESC:	AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-22.0
MAXIMUM INSTR RANGE:	122.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	RTD AT 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER? SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures air temperature at 35' elevation on the primary tower. 15 minute running average computed every 15 seconds.

STATION: North Arco
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/15/93
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: STAB CLASS
POINT ID: M3MM001C
PLANT SPEC POINT DESC: AVG SIGMA THETA
GENERIC/COND DESC: AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 50.
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: PRIMARY TOWER TRAILER
ALARM/TRIP SETPOINTS: VARIABLE
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Uses lower wind direction to find the standard deviation of
the wind direction angle which is referred to as horizontal
atmospheric stability. 15 minute running average is
computed every 15 seconds.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/18/93
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: STAB CLASS
POINT ID: H3MM002C
PLANT SPEC POINT DESC: AVG UPPER DELTA T
GENERIC/COND DESC: AIR STABILITY AT REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEGF
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: -9.0
MAXIMUM INSTR RANGE: 9.0
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: 15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS: 2 RTD'S AT 35' & 150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Uses the difference of upper temperature and lower
temperature to calculate vertical atmospheric stability. 15
minute running average computed every 15 seconds.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	SUB MARGIN
POINT ID:	T2RC020C
PLANT SPEC POINT DESC:	CORE EXIT TSAT MARGIN
GENERIC/COND DESC:	SATURATION TEMP - HIGHEST CET
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	-35.0
MAXIMUM INSTR RANGE:	200.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	WR RCS PRESS AND INCORE T/C's
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	The valid saturation margin inputs from the RVLIS system are averaged (2 signals if all are valid). If none of the signals are valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	03/21/91
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	TEMP CORE EX
POINT ID:	T2RC001C
PLANT SPEC POINT DESC:	PEAK CORE EXIT TEMP
GENERIC/COND DESC:	HIGHEST TEMPERATURE AT CORE EXIT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	2400.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	50
HOW PROCESSED:	MAXIMUM - SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	EXIT OF SELECTED FUEL ASSEMBLIES IN-CORE
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Monitors the reactor coolant exit temperature. The highest valid incore thermocouple is used. If none of the thermocouples is valid, this point is marked invalid.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE: 01/15/93
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: WIND DIR
POINT ID: MSMM003C
PLANT SPEC POINT DESC: AVG LOWER WIND DIRECTION
GENERIC/COND DESC: WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: DEG
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 360.
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS: 35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS: VARIABLE
N1 DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
N1 DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Senses the wind direction at 35'. 15 minute running vector
average computed every 15 seconds.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	M3MM004C
PLANT SPEC POINT DESC:	AVG UPPER WIND DIRECTION
GENERIC/COND DESC:	WIND DIR AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEG
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING VECTOR AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
N1 DETECTOR POWER SUPPLY	
CUT-OFF POWER LEVEL:	N/A
N1 DETECTOR POWER SUPPLY	
TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION	
FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Senses the wind direction at 150', 15 minute running vector average computed every 15 seconds.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	H3MM007C
PLANT SPEC POINT DESC:	AVG LOWER WIND SPEED
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	35' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 35', 15 minute running average computed every 15 seconds.

STATION: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/18/93

DATE:	01/15/93
REACTOR UNIT:	NA2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	M3MMC08C
PLANT SPEC POINT DESC:	AVG UPPER WIND SPEED
GENERIC/COND DESC:	WIND SPEED AT THE REACTOR SITE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	15 MINUTE RUNNING AVERAGE
SENSOR LOCATIONS:	150' ON PRIMARY TOWER
ALARM/TRIP SETPOINTS:	VARIABLE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	N/A
TEMPERATURE COMPENSATION FOR DP TRANSMITTERS:	
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Measures the wind speed at 150'. 15 minute running average computed every 15 seconds.

ATTACHMENT 9

UPDATED DPL DATA BASE FILES FOR SURRY AND NORTH ANNA
IN dBASE IV FORMAT
(Diskette to NUS Corporation / EI Division)