

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

September 26, 2002

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

Serial No.: 02- 606
NLOS/mm
Docket Nos.: 50-338/339
License Nos.: NPF-4/7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNITS 1 AND 2
EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATABASE UPDATES

As a result of implementation of the Emergency Response Facility Computer System (ERFCS) software into the plant computer system at North Anna Power Station, modifications to ERDS related points were necessary. The changes are detailed in the Data Point Library (DPL) reference file forms provided in Attachments 1 and 2. Attachments 3 and 4 provide the revision summaries (change reports) for the affected points for Units 1 and 2, respectively.

No new commitments are intended by this letter. If you have any questions concerning these results, please contact us.

Very truly yours,



Stephen P. Sarver
Director - Nuclear Licensing and Operations Support

Attachments

1. North Anna Unit 1 Updated Data Point Library Sheets
2. North Anna Unit 2 Updated Data Point Library Sheets
3. North Anna Unit 1 Revision Summary
4. North Anna Unit 2 Revision Summary

Commitments made in this letter: None

A026

cc: U.S. Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Suite 23T85
Atlanta, Georgia 30303-8931

Mr. M. J. Morgan
NRC Senior Resident Inspector
North Anna Power Station

Ms. K. Lynne Saul, Program Manager (diskette enclosed)
Engineering, Scientific, & Management Services
Scientech, Inc.
440 West Broadway
Idaho Falls, ID 83402

ATTACHMENT 1

NORTH ANNA UNIT 1 UPDATED DATA POINT LIBRARY SHEETS

DATE: 09/10/2002
REACTOR UNIT: NAI
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: 0.0
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
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
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.

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 2/B
POINT ID: F1FW002A
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: 0.0
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.

DATE: 09/10/2002
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: 0.0
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 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.

DATE: 09/10/2002
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
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/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-1A.

DATE: 09/10/2002
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 SENS: 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.

DATE: 09/10/2002
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
NI DETECTOR POWER SUPPLY
CUT-OFF POWER LEVEL: N/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-1C.

DATE: 03/21/1991
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/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.

DATE: 09/10/2002
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: 0.316
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.

DATE: 09/10/2002
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: 0.316
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.

DATE: 09/10/2002
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: 3.16E-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.

DATE: 09/10/2002
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: 3.16E-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.

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT SMP WR
POINT ID: L1RS002C
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: 12.00
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 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.

DATE:	09/10/2002
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:	0.0398
MAXIMUM INSTR RANGE:	0.1259E+8
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:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level in the turbine-driven auxiliary feed pump exhaust ("Terry" turbine).

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM225C
PLANT SPEC POINT DESC: PV NORMAL RAD 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: 1.0E-7
MAXIMUM INSTR RANGE: 1.0E-2
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.

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM229C
PLANT SPEC POINT DESC: VS A NORMAL 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-1
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: 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.

DATE: 09/10/2002
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 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: 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.

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS 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: 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 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.

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: HP SI FLOW
POINT ID: F1SI003A
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.

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: F1SI001A
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: 4600.0
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.

DATE: 09/10/2002
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: 4600.0
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 LHSI pump B.

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 1/A
POINT ID: RIRM201C
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: 0.0398
MAXIMUM INSTR RANGE: 0.1259E+8
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 1
SENSOR LOCATIONS: EXPONENTIATED VALUE OF LOGARITHMIC INPUT
ALARM/TRIP SETPOINTS: MN STM SAFETY VLV RISER - M.S. VLV HOUSE
NI DETECTOR POWER SUPPLY VARIABLE
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
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.

DATE: 09/10/2002
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: 0.0398
MAXIMUM INSTR RANGE: 0.1259E+8
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
09/10/2002

DATE: 09/10/2002
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 INSTR RANGE: 0.0398
MAXIMUM INSTR RANGE: 0.1259E+8
ZERO POINT REFERENCE: N/A
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 1
HOW PROCESSED: 1
SENSOR LOCATIONS: EXPONENTIAL VALUE OF LOGARITHMIC INPUT
ALARM/TRIP SETPOINTS: MN STM SAFETY VLV RISER - M.S. VLV HOUSE
NI DETECTOR POWER SUPPLY VARIABLE
CUT-OFF POWER LEVEL: N/A
NI DETECTOR POWER SUPPLY
TURN-ON POWER LEVEL: N/A
INSTRUMENT FAILURE MODE: N/A
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: N/A
Continuously monitors the 32 inch C main steam safety line
and indicates radiation level.

DATE: 09/10/2002
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: 1.0E-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: N/A
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.

DATE: 09/10/2002
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: RCS LTDN 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: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0
ZERO POINT REFERENCE: 1.0E+4
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 strap-on monitor on the letdown line.

ATTACHMENT 2

NORTH ANNA UNIT 2 UPDATED DATA POINT LIBRARY SHEETS

DATE: 09/10/2002
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: 0.0
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 LEVEL: N/A
NI DETECTOR POWER SUPPLY
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.

DATE: 09/10/2002
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: 0.0
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
09/10/2002

DATE: 09/10/2002
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 AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0-600* H2O
MINIMUM INSTR RANGE: 0.0
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 LEVEL: N/A
NI DETECTOR POWER SUPPLY
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
09/10/2002

DATE: 09/10/2002
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: 0.316
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.

DATE: 09/10/2002
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: 0.316
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: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
09/10/2002

DATE:	09/10/2002
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:	3.16E-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:	N/A
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
09/17/2002

DATE: 09/17/2002
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: RAD LEVEL OF RCS LETDOWN LINE
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: MR/HR
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0
MAXIMUM INSTR RANGE: 1.0E4
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.

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CNTMNT RAD
POINT ID: R2RM215C
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: 3.16E-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: N/A
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Detects gamma radiation in the reactor containment.

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: CTMNT SMP WR
POINT ID: L2RS002C
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: 12.0
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: N/A
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 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.

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM225C
PLANT SPEC POINT DESC: PV NORMAL RAD 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: 1.0E-7
MAXIMUM INSTR RANGE: 1.0E-2
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.

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: R3RM229C
PLANT SPEC POINT DESC: VS A NORMAL 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-1
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: 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: N/A
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.

DATE: 09/10/2002
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: 3.98E-2
MAXIMUM INSTR RANGE: 1.259E7
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).

DATE:	09/10/2002
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+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:	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:	N/A
LEVEL REFERENCE LEG:	N/A
UNIQUE SYSTEM DESC:	Continuously monitors the radiation level of the service water discharge to the service water reservoir.

DATE: 09/10/2002
REACTOR UNIT: NA2
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 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.

DATE: 09/10/2002
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: 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.

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: LP SI FLOW
POINT ID: F2SI001A
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: 4600.0
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.

DATE: 09/10/2002
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: 4600.0
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 LHSI pump B.

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 1/A
POINT ID: R2RM201C
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: 3.98E-2
MAXIMUM INSTR RANGE: 1.259E7
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
and indicates radiation level.

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 2/B
POINT ID: R2RM202C
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: 3.98E-2
MAXIMUM INSTR RANGE: 1.259E7
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: N/A
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the 32 inch B main steam safety line
and indicates radiation level.

DATE: 09/10/2002
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: 3.98E-2
MAXIMUM INSTR RANGE: 1.259E7
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: N/A
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the 32 inch C main steam safety line
and indicates radiation level.

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: NI INTER RNG
POINT ID: M2NMO03C
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: 1.0E-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: North Anna
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
09/10/2002

DATE: 09/10/2002
REACTOR UNIT: NA2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 1/A
POINT ID: L2FW004A
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 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
09/10/2002

DATE: 09/10/2002
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.

DATE: 09/10/2002
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: 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-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.

UNIT 1
REVISION SUMMARY

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

PRINTED
09/10/2002

CHANGED POINT F1FW001A AT 13:00 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 07/01/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: -0.2
IS: 0.0

CHANGED POINT F1FW002A AT 13:01 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 07/01/1991
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: -0.2
	IS: 0.0

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

PRINTED
09/10/2002

CHANGED POINT F1FW003A AT 13:01 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 07/01/1991
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: -0.2
	IS: 0.0

CHANGED POINT L1FW004A AT 14:34 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

PLANT SPEC POINT DESC: WAS: SG A WR LEVEL (NL) <>
IS: SG A WR LEVEL (NL)

CHANGED POINT L1FW008A AT 14:34 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

PLANT SPEC POINT DESC: WAS: SG B WR LEVEL (NL) <>
IS: SG B WR LEVEL (NL)

CHANGED POINT L1FW012A AT 14:34 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/10/2002
PLANT SPEC POINT DESC:	WAS: SG C WR LEVEL (NL) <>
	IS: SG C WR LEVEL (NL)

CHANGED POINT A1GW001C AT 13:03 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: -1.5
IS: 0.0

CHANGED POINT M1NM003C AT 13:04 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/17/1991
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 1.2589E-3
IS: 1.0E-3

CHANGED POINT L1RC003C AT 14:47 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 10/20/1993
	IS: 09/10/2002
MAXIMUM INSTR RANGE:	WAS: 122.0
	IS: 120.0

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

PRINTED
09/10/2002

CHANGED POINT R1RM201C AT 13:09 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 09/30/1998
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 0.03981
	IS: 0.0398

CHANGED POINT R1RM202C AT 13:09 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 09/30/1998
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 0.03981
	IS: 0.0398

CHANGED POINT R1RM203C AT 13:10 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 09/30/1998
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 0.03981
	IS: 0.0398

CHANGED POINT R1RM204C AT 13:10 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 09/30/1998
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 0.03981
	IS: 0.0398

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

PRINTED
09/10/2002

CHANGED POINT R1RM207C AT 13:13 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: 0.3162
IS: 0.316

CHANGED POINT R1RM208C AT 13:14 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 0.3162
	IS: 0.316

CHANGED POINT R1RM209C AT 13:15 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 3.162E-5
	IS: 3.16E-5

CHANGED POINT R1RM214C AT 13:16 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/07/1996
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: 0.0
IS: 1.0

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

PRINTED
09/10/2002

CHANGED POINT R1RM215C AT 13:17 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 3.162E-5
	IS: 3.16E-5

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

PRINTED
09/10/2002

CHANGED POINT L1RS002C AT 13:17 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 04/29/1994
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 11.33
IS: 12.00

CHANGED POINT F1SI001A AT 13:18 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 05/17/1991
	IS: 09/10/2002
MAXIMUM INSTR RANGE:	WAS: 4000.0
	IS: 4600.0

CHANGED POINT F1SI002A AT 13:19 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/17/1991
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 4000.0
IS: 4600.0

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

PRINTED
09/10/2002

CHANGED POINT F1SI003A AT 13:20 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/17/1991
IS: 09/10/2002

PLANT SPEC POINT DESC: WAS: TOTAL HOT LEG SI FLOW (WT)
IS: TOTAL HOT LEG SI FLOW (WT) <>

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

PRINTED
09/10/2002

CHANGED POINT R3RM214C AT 13:21 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 1.0E+6
IS: 1.0E+7

CHANGED POINT R3RM225C AT 13:21 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 01/24/2002
	IS: 09/10/2002
PLANT SPEC POINT DESC:	WAS: PV NORMAL RAD MON
	IS: PV NORMAL RAD MONITOR

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

PRINTED
09/10/2002

CHANGED POINT R3RM229C AT 13:22 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/11/2002
	IS: 09/10/2002
PLANT SPEC POINT DESC:	WAS: VS A NORM RADN RATE MON
	IS: VS A NORMAL RADN RATE MON

UNIT 2
REVISION SUMMARY

CHANGED POINT R3RM214C AT 13:21 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 1.0E+6
IS: 1.0E+7

CHANGED POINT R3RM225C AT 13:21 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 01/24/2002
IS: 09/10/2002

PLANT SPEC POINT DESC: WAS: PV NORMAL RAD MON
IS: PV NORMAL RAD MONITOR

CHANGED POINT R3RM229C AT 13:22 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/11/2002
	IS: 09/10/2002
PLANT SPEC POINT DESC:	WAS: VS A NORM RADN RATE MON
	IS: VS A NORMAL RADN RATE MON

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

PRINTED
09/10/2002

CHANGED POINT F2FW001A AT 15:42 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 07/01/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: -0.2
IS: 0.0

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

PRINTED
09/10/2002

CHANGED POINT F2FW002A AT 15:42 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 07/01/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: -0.2
IS: 0.0

CHANGED POINT F2FW003A AT 15:43 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 07/01/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: -0.2
IS: 0.0

CHANGED POINT L2FW004A AT 15:44 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

PLANT SPEC POINT DESC: WAS: SG A WR LEVEL (NL) <>
IS: SG A WR LEVEL (NL)

CHANGED POINT L2FW008A AT 15:44 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

PLANT SPEC POINT DESC: WAS: SG B WR LEVEL (NL) <>
IS: SG B WR LEVEL (NL)

CHANGED POINT L2FW012A AT 15:44 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

PLANT SPEC POINT DESC: WAS: SG C WR LEVEL (NL) <>
IS: SG C WR LEVEL (NL)

CHANGED POINT A2GW001C AT 15:45 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: -1.5
IS: 0.0

CHANGED POINT M2NM003C AT 15:47 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/17/1991
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 1.2589E-3
IS: 1.0E-3

CHANGED POINT R2RM201C AT 15:48 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 09/30/1998
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: 0.03981
IS: 3.98E-2

MAXIMUM INSTR RANGE: WAS: 0.1259E+8
IS: 1.259E7

CHANGED POINT R2RM202C AT 15:49 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 09/30/1998
	IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 0.03981
	IS: 3.98E-2
MAXIMUM INSTR RANGE:	WAS: 0.1259E+8
	IS: 1.259E7

CHANGED POINT R2RM203C AT 15:59 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 09/30/1998
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: 0.03981
IS: 3.98E-2

MAXIMUM INSTR RANGE: WAS: 0.1259E+8
IS: 1.259E7

CHANGED POINT R2RM204C AT 16:00 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 09/30/1998 IS: 09/10/2002
MINIMUM INSTR RANGE:	WAS: 0.03981 IS: 3.98E-2
MAXIMUM INSTR RANGE:	WAS: 0.1259E+8 IS: 1.259E7

CHANGED POINT R2RM207C AT 16:00 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: 0.3162
IS: 0.316

CHANGED POINT R2RM208C AT 16:02 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: 0.3162
IS: 0.316

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

PRINTED
09/10/2002

CHANGED POINT R2RM209C AT 16:03 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: 3.162E-5
IS: 3.16E-5

CHANGED POINT R2RM214C AT 11:24 ON 09/17/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/16/1995
IS: 09/17/2002

MINIMUM INSTR RANGE: WAS: 0.0
IS: 1.0

CHANGED POINT R2RM215C AT 16:03 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/10/2002

MINIMUM INSTR RANGE: WAS: 3.162E-5
IS: 3.16E-5

CHANGED POINT L2RS002C AT 16:04 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 04/29/1994
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 11.33
IS: 12.0

CHANGED POINT F2SI001A AT 16:04 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/17/1991
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 4000.0
IS: 4600.0

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

PRINTED
09/10/2002

CHANGED POINT F2SI002A AT 16:05 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/17/1991
IS: 09/10/2002

MAXIMUM INSTR RANGE: WAS: 4000.0
IS: 4600.0

CHANGED POINT F2SI003A AT 16:06 ON 09/10/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 05/17/1991
IS: 09/10/2002

PLANT SPEC POINT DESC: WAS: TOTAL HOT LEG SI FLOW (WT)
IS: TOTAL HOT LEG SI FLOW (WT) <>