

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 4, 2002

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

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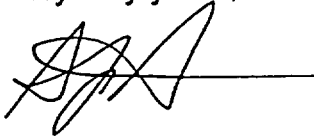
Gentlemen:

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

Modifications to four Emergency Response Data System (ERDS) points have been implemented at North Anna Power Station as a result of replacement of the process vent radiation monitors. The radiation monitors are common to both units. (The replacements were a result of a North Anna Design Change Package.) The changes are detailed in the Data Point Library (DPL) reference file forms provided in Attachments 1 and 2. Attachment 3 provides the revision summary (change report) for the affected points.

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

Very truly yours,



S. 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. Revision Summary

A026

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

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

Ms. K. Lynne Saul, Program Manager (diskette enclosed)
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Scientech, Inc.
440 West Broadway
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ATTACHMENT 1

NORTH ANNA UNIT 1 UPDATED DATA POINT LIBRARY SHEETS

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

PRINTED
01/24/2002

DATE: 01/24/2002
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: 1E+2
MAXIMUM INSTR RANGE: 1.0E+11
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
01/24/2002

DATE: 01/24/2002
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: UCI/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-2
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: 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
01/24/2002

DATE: 01/24/2002
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: 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: 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: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/24/2002

DATE: 01/24/2002
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: 1.0E-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.

ATTACHMENT 2

NORTH ANNA UNIT 2 UPDATED DATA POINT LIBRARY SHEETS

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

PRINTED
01/24/2002

DATE: 01/24/2002
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: 1E+2
MAXIMUM INSTR RANGE: 1.0E+11
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: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/24/2002

DATE: 01/24/2002
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: UCI/S
ENGR UNITS CONVERSION: N/A
MINIMUM INSTR RANGE: 1.0E-2
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: 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: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
01/24/2002

DATE: 01/24/2002
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: 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.

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

PRINTED
01/24/2002

DATE: 01/24/2002
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: 1.0E-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.

ATTACHMENT 3

REVISION SUMMARY

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

PRINTED
01/24/2002

CHANGED POINT R3RM223C AT 10:03 ON 01/24/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 01/24/2002

MINIMUM INSTR RANGE: WAS: 1.259E+5
IS: 1E+2

MAXIMUM INSTR RANGE: WAS: 1.0E+13
IS: 1.0E+11

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

PRINTED
01/24/2002

CHANGED POINT R3RM224C AT 10:04 ON 01/24/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 01/24/2002

MAXIMUM INSTR RANGE: WAS: 1.0E+6
IS: 1.0E+5

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

PRINTED
01/24/2002

CHANGED POINT R3RM225C AT 10:05 ON 01/24/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 01/24/2002

MAXIMUM INSTR RANGE: WAS: 10.0
IS: 1.0E-2

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

PRINTED
01/24/2002

CHANGED POINT R3RM234C AT 10:07 ON 01/24/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 01/24/2002

MINIMUM INSTR RANGE: WAS: 3.162E-4
IS: 1.0E-4

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

PRINTED
01/24/2002

CHANGED POINT R3RM223C AT 10:03 ON 01/24/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 01/24/2002

MINIMUM INSTR RANGE: WAS: 1.259E+5
IS: 1E+2

MAXIMUM INSTR RANGE: WAS: 1.0E+13
IS: 1.0E+11

Page No. 2

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

PRINTED
01/24/2002

CHANGED POINT R3RM224C AT 10:04 ON 01/24/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 01/24/2002

MAXIMUM INSTR RANGE: WAS: 1.0E+6
IS: 1.0E+5

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

PRINTED
01/24/2002

CHANGED POINT R3RM225C AT 10:05 ON 01/24/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 01/24/2002

MAXIMUM INSTR RANGE: WAS: 10.0
IS: 1.0E-2

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

PRINTED
01/24/2002

CHANGED POINT R3RM234C AT 10:07 ON 01/24/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 01/24/2002

MINIMUM INSTR RANGE: WAS: 3.162E-4
IS: 1.0E-4