VIRGINIA ELECTRIC AND POWER COMPANY Richmond, Virginia 23261

March 22, 2002

United States Nuclear Regulatory Commission Attention: Document Control Desk	Serial No.: NLOS/mm	02-159
Washington, DC 20555-0001	Docket Nos.: License Nos.:	50-338/339 NPF-4/7

Gentlemen:

i.

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 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

7026

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) Engineering, Scientific, & Management Services Scientech, Inc. 440 West Broadway Idaho Falls, ID 83402 ATTACHMENT 1

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NORTH ANNA UNIT 1 UPDATED DATA POINT LIBRARY SHEETS

PRINTED UNIT: 1 PWR DATA POINT LIBRARY REFERENCE FILE

03/11/2002

03/11/2002 DATE: REACTOR UNIT: NA1 DATA FEEDER: N/A EFF GAS RAD NRC ERDS PARAMETER: R3RM226C POINT ID: PLANT SPEC POINT DESC: VS A HIGH RAD MON GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES ANALOG/DIGITAL: А UCI/CC ENGR UNITS/DIG STATES: N/A ENGR UNITS CONVERSION: MINIMUM INSTR RANGE: 1.0E-4 MAXIMUM INSTR RANGE: 1.0E+5 ZERO POINT REFERENCE: N/A N/A REFERENCE POINT NOTES: PROC OR SENS: Ρ NUMBER OF SENSORS: 1 EXPONENTIATED VALUE OF LOGARITHMIC INPUT HOW PROCESSED: SENSOR LOCATIONS: TURB BLDG ELEV 303 VARIABLE ALARM/TRIP SETPOINTS: NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A INSTRUMENT FAILURE MODE: N/A TEMPERATURE COMPENSATION FOR DP TRANSMITTERS: LEVEL REFERENCE LEG: N/A Senses radiation level in a sample taken from vent stack UNIQUE SYSTEM DESC: "A". This is the high range instrument for this data.

PRINTED UNIT: 1 PWR DATA POINT LIBRARY REFERENCE FILE

03/11/2002

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	03/11/2002 NA1 N/A EFF GAS RAD R3RM227C VS A HIGH RADN RATE MON
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GASES
ANALOG/DIGITAL:	Α
ENGR UNITS/DIG STATES:	UCI/S
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	1.0E+3
MAXIMUM INSTR RANGE:	
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:	
ALARM/TRIP SETPOINTS: 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:	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-VG179-2A's microcomputer for determination of radiation release rate. This is the high range instrument for this data.

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03/11/2002

UNIT: 1 PWR DATA POINT LIBRARY REFERENCE FILE

DATE: 03/11/2002 REACTOR UNIT: NA1 DATA FEEDER: N/A EFF GAS RAD NRC ERDS PARAMETER: R3RM228C POINT ID: VS A NORMAL RAD MON PLANT SPEC POINT DESC: RADIOACTIVITY OF RELEASED GASES GENERIC/COND DESC: ANALOG/DIGITAL: А ENGR UNITS/DIG STATES: UCI/CC ENGR UNITS CONVERSION: N/A 1.0E-7 MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: 1.0E-2 N/A ZERO POINT REFERENCE: REFERENCE POINT NOTES: N/A Ρ PROC OR SENS: 1 NUMBER OF SENSORS: HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT TURB BLDG ELEV 303 SENSOR LOCATIONS: ALARM/TRIP SETPOINTS: VARIABLE NI DETECTOR POWER SUPPLY N/A CUT-OFF POWER LEVEL: NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A N/A INSTRUMENT FAILURE MODE: TEMPERATURE COMPENSATION FOR DP TRANSMITTERS: LEVEL REFERENCE LEG: N/A Senses radiation level in a sample taken from vent stack UNIQUE SYSTEM DESC: "A". This is the normal range instrument for this data.

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UNIT: 1 PWR DATA POINT LIBRARY REFERENCE FILE 03/11/2002

DATE: 03/11/2002 REACTOR UNIT: NA1 DATA FEEDER: N/A NRC ERDS PARAMETER: EFF GAS RAD R3RM229C POINT ID: PLANT SPEC POINT DESC: VS A NORM RADN RATE MON GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES ANALOG/DIGITAL: Α ENGR UNITS/DIG STATES: UCI/S ENGR UNITS CONVERSION: N/A 1.0E - 1MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: 1.0E+7 ZERO POINT REFERENCE: N/A REFERENCE POINT NOTES: N/A Ρ PROC OR SENS: NUMBER OF SENSORS: 1 HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT SENSOR LOCATIONS: TURB BLDG ELEV 303 VARIABLE ALARM/TRIP SETPOINTS: NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A NI DETECTOR POWER SUPPLY N/A TURN-ON POWER LEVEL: INSTRUMENT FAILURE MODE: N/A TEMPERATURE COMPENSATION FOR DP TRANSMITTERS: LEVEL REFERENCE LEG; N/A Senses radiation level in a sample taken from vent stack "A" UNIQUE SYSTEM DESC: 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.

ATTACHMENT 2

NORTH ANNA UNIT 2 UPDATED DATA POINT LIBRARY SHEETS

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UNIT: 2 PWR DATA POINT LIBRARY REFERENCE FILE 03/11/2002

DATE: 03/11/2002 REACTOR UNIT: NA2 DATA FEEDER: N/A EFF GAS RAD NRC ERDS PARAMETER: POINT ID: R3RM226C VS A HIGH RAD MON PLANT SPEC POINT DESC: GENERIC/COND DESC: RADIOACTIVITY OF RELEASED GASES ANALOG/DIGITAL: А UCI/CC ENGR UNITS/DIG STATES: ENGR UNITS CONVERSION: N/A MINIMUM INSTR RANGE: 1.0E-4 1.0E+5 MAXIMUM INSTR RANGE: ZERO POINT REFERENCE: N/A REFERENCE POINT NOTES: N/A Р PROC OR SENS: NUMBER OF SENSORS: 1 HOW PROCESSED: EXPONENTIATED VALUE OF LOGARITHMIC INPUT SENSOR LOCATIONS: TURB BLDG ELEV 303 VARIABLE ALARM/TRIP SETPOINTS: NI DETECTOR POWER SUPPLY N/A CUT-OFF POWER LEVEL: NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A N/A INSTRUMENT FAILURE MODE: 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 03/11/2002

DATE: REACTOR UNIT: DATA FEEDER: NRC ERDS PARAMETER: POINT ID: PLANT SPEC POINT DESC: GENERIC/COND DESC: ANALOG/DIGITAL: ENGR UNITS/DIG STATES: ENGR UNITS CONVERSION: MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: ZERO POINT REFERENCE: REFERENCE POINT NOTES: PROC OR SENS: NUMBER OF SENSORS: HOW PROCESSED: SENSOR LOCATIONS: ALARM/TRIP SETPOINTS: NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: INSTRUMENT FAILURE MODE: TEMPERATURE COMPENSATION FOR DP TRANSMITTERS: LEVEL REFERENCE LEG: UNIQUE SYSTEM DESC:

NA2 N/A EFF GAS RAD R3RM227C VS A HIGH RADN RATE MON RADIOACTIVITY OF RELEASED GASES А UCI/S N/A 1.0E+3 1.0E+13 N/A N/A ₽ 1 EXPONENTIATED VALUE OF LOGARITHMIC INPUT TURB BLDG ELEV 303 VARIABLE . N/A N/A N/A N/A Senses radiation level in a sample taken from vent stack "A"

03/11/2002

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 03/11/2002

DATE: 03/11/2002 REACTOR UNIT: NA2 DATA FEEDER: N/A NRC ERDS PARAMETER: POINT ID: PLANT SPEC POINT DESC: GENERIC/COND DESC: ANALOG/DIGITAL: А ENGR UNITS/DIG STATES: UCI/CC ENGR UNITS CONVERSION: N/A 1.0E-7 MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: 1.0E-2 ZERO POINT REFERENCE: N/A N/A REFERENCE POINT NOTES: PROC OR SENS: Ρ NUMBER OF SENSORS: 1 HOW PROCESSED: SENSOR LOCATIONS: ALARM/TRIP SETPOINTS: NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A NI DETECTOR POWER SUPPLY 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 EFF GAS RAD R3RM228C VS A NORMAL RAD MON RADIOACTIVITY OF RELEASED GASES A UCI/CC N/A 1.0E-7 1.0E-2 N/A N/A P 1 EXPONENTIATED VALUE OF LOGARITHMIC INPUT TURB BLDG ELEV 303 VARIABLE N/A N/A N/A

Senses radiation level in a sample taken from vent stack "A". This is the normal range instrument for this data.

UNIT: 2 PWR DATA POINT LIBRARY REFERENCE FILE

DATE: 03/11/2002 REACTOR UNIT: NA2 N/A DATA FEEDER: EFF GAS RAD NRC ERDS PARAMETER: R3RM229C POINT ID: PLANT SPEC POINT DESC: VS A NORM RADN RATE MON RADIOACTIVITY OF RELEASED GASES GENERIC/COND DESC: ANALOG/DIGITAL: Α ENGR UNITS/DIG STATES: UCI/S ENGR UNITS CONVERSION: N/A 1.0E-1 MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: 1.0E+7 ZERO POINT REFERENCE: N/A N/A REFERENCE POINT NOTES: PROC OR SENS: Ρ NUMBER OF SENSORS: 1 HOW PROCESSED: SENSOR LOCATIONS: TURB BLDG ELEV 303 VARIABLE ALARM/TRIP SETPOINTS: NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A N/A INSTRUMENT FAILURE MODE: TEMPERATURE COMPENSATION FOR DP TRANSMITTERS: LEVEL REFERENCE LEG: N/A UNIQUE SYSTEM DESC:

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03/11/2002

EXPONENTIATED VALUE OF LOGARITHMIC INPUT

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.

ATTACHMENT 3

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REVISION SUMMARY

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

PRINTED 03/11/2002

CHANGED POINT R3RM226C AT 10:06 ON 03/11/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991 IS: 03/11/2002

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

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

PRINTED 03/11/2002

CHANGED POINT R3RM227C AT 10:07 ON 03/11/2002. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 03/21/1991 IS: 03/11/2002

MINIMUM INSTR RANGE: WAS: 1.259E+5 IS: 1.0E+3

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

PRINTED 03/11/2002 .

CHANGED POINT R3RM228C AT 10:08 ON 03/11/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991 IS: 03/11/2002

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

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

PRINTED 03/11/2002

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CHANGED POINT R3RM229C AT 10:09 ON 03/11/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991 IS: 03/11/2002

MINIMUM INSTR RANGE: WAS: 1.0E-2 IS: 1.0E-1

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

STATION: North Anna UNIT: 2 PWR DATA POINT LIBRARY REFERENCE FILE CHANGE REPORT PRINTED 03/11/2002 -

CHANGED POINT R3RM226C AT 10:06 ON 03/11/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991 IS: 03/11/2002

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 03/11/2002 .

CHANGED POINT R3RM227C AT 10:07 ON 03/11/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991 IS: 03/11/2002

MINIMUM INSTR RANGE: WAS: 1.259E+5 IS: 1.0E+3

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

PRINTED 03/11/2002 .

CHANGED POINT R3RM228C AT 10:08 ON 03/11/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991 IS: 03/11/2002

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

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

PRINTED 03/11/2002

CHANGED POINT R3RM229C AT 10:09 ON 03/11/2002. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991 IS: 03/11/2002

MINIMUM INSTR RANGE: WAS: 1.0E-2 IS: 1.0E-1

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