

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

October 8, 1998

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

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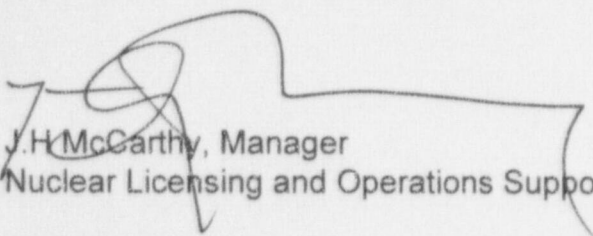
Gentlemen:

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

Modifications to eight Emergency Response Data System (ERDS) points have been implemented at North Anna Power Station to reflect changes in the instrument ranges for eight radiation monitoring points. The changes are detailed in the Data Point Library (DPL) reference file forms provided in Attachment 1. Attachment 2 provides the revision summary (change report) and Attachment 3 is the ERDS database in dBase format on diskette.

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

Very truly yours,


J.H. McCarthy, Manager
Nuclear Licensing and Operations Support

Attachments

1. North Anna Updated Data Point Library Sheets
2. Revision Summary
3. North Anna Updated ERDS Database in dBase format on diskette

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PDR ADOCK 05000338
F PDR

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A026

cc: U.S. Nuclear Regulatory Commission
Region II
Atlanta Federal Center
61 Forsyth St., SW Suite 23 T85
Atlanta, Georgia 30303-3415

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

Scientech, Inc. (Attachments 1 and 2 plus dBase diskette)
1690 International Way
Idaho Falls, Idaho 83402
Attention: Mr. Tony LaRosa

ATTACHMENT 1

UPDATED DATA POINT LIBRARY SHEETS

NORTH ANNA POWER STATION UNITS 1 AND 2

NORTH ANNA UNIT 1 UPDATED DATA POINT LIBRARY SHEETS

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

PRINTED
09/30/1998

DATE: 09/30/1998
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: 0.03981
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 A main steam safety line
indicates radiation level.

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

PRINTED
09/30/1998

DATE: 09/30/1998
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: MAIN SL 2/B
POINT ID: RIRM202C
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: 0.03981
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
09/30/1998

DATE:	09/30/1998
REACTOR UNIT:	NA1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	MAIN SL 3/C
POINT ID:	RIRM203C
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:	0.03981
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:	N/A
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
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DATE: 09/30/1998
REACTOR UNIT: NA1
DATA FEEDER: N/A
NRC ERDS PARAMETER: EFF GAS RAD
POINT ID: RIRM204C
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: 0.03981
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:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level in the
turbine-driven auxiliary feed pump exhaust ("Terry"
turbine).

NORTH ANNA UNIT 2 UPDATED DATA POINT LIBRARY SHEETS

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

PRINTED
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DATE: 09/30/1998
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: 0.03981
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 A main steam safety line
and indicates radiation level.

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

PRINTED
09/30/1998

DATE: 09/30/1998
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: 0.03981
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: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
09/30/1998

DATE: 09/30/1998
REACTOR UNIT: JA2
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: 0.03981
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: N/A
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
09/30/1998

DATE: 09/30/1998
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: 0.03981
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:
LEVEL REFERENCE LEG: N/A
UNIQUE SYSTEM DESC: Continuously monitors the radiation level in the
turbine-driven auxiliary feed pump exhaust ("Terry"
turbine).

ATTACHMENT 2

REVISION SUMMARY

NORTH ANNA POWER STATION UNITS 1 AND 2

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

PRINTED
09/30/1998

CHANGED POINT RIRM201C AT 10:31 ON 09/30/1998. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/30/1998
MINIMUM INSTR RANGE:	WAS: 3.162E-2
	IS: 0.03981
MAXIMUM INSTR RANGE:	WAS: 1.0E+7
	IS: 0.1259E+8

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

PRINTED
09/30/1998

CHANGED POINT RIRM202C AT 10:32 ON 09/30/1998. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/30/1998
MINIMUM INSTR RANGE:	WAS: 3.162E-2
	IS: 0.03981
MAXIMUM INSTR RANGE:	WAS: 1.0E+7
	IS: 0.1259E+8

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

PRINTED
09/30/1998

CHANGED POINT RIRM203C AT 10:33 ON 09/30/1998. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/30/1998
MINIMUM INSTR RANGE:	WAS: 3.162E-2
	IS: 0.03981
MAXIMUM INSTR RANGE:	WAS: 1.0E+7
	IS: 0.1259E+8

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

PRINTED
09/30/1998

CHANGED POINT R1RM204C AT 10:34 ON 09/30/1998. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/30/1998
MINIMUM INSTR RANGE:	WAS: 6.31E-5
	IS: 0.03981
MAXIMUM INSTR RANGE:	WAS: 1.0E+4
	IS: 0.1259E+8

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

PRINTED
09/30/1998

CHANGED POINT R2RM201C AT 10:35 ON 09/30/1998. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/30/1998

MINIMUM INSTR RANGE: WAS: 3.162E-2
IS: 0.03981

MAXIMUM INSTR RANGE: WAS: 1.0E+7
IS: 0.1259E+8

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

PRINTED
09/30/1998

CHANGED POINT R2RM202C AT 10:36 ON 09/30/1998. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/30/1998
MINIMUM INSTR RANGE:	WAS: 3.162E-2
	IS: 0.03981
MAXIMUM INSTR RANGE:	WAS: 1.0E+7
	IS: 0.1259E+8

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

PRINTED
09/30/1998

CHANGED POINT R2RM203C AT 10:37 ON 09/30/1998. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/21/1991
IS: 09/30/1998

MINIMUM INSTR RANGE: WAS: 3.162E-2
IS: 0.03981

MAXIMUM INSTR RANGE: WAS: 1.0E+7
IS: 0.1259E+8

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

PRINTED
09/30/1998

CHANGED POINT R2RM204C AT 10:38 ON 09/30/1998. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/21/1991
	IS: 09/30/1998
MINIMUM INSTR RANGE:	WAS: 6.31E-5
	IS: 0.03981
MAXIMUM INSTR RANGE:	WAS: 1.0E+4
	IS: 0.1259E+8