# VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

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United States Nuclear Regulatory Commission

Attention: Document Control Desk

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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,

HMcCarthy, 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

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

Continuously monitors the 32 inch A main steam safety line

PRINTED 09/30/1998

DATE: 09/30/1998 NA1 REACTOR UNIT: N/A DATA FEEDER: NRC ERDS PARAMETER: MAIN SL 1/A R1RM201C POINT ID: PLANT SPEC POINT DESC: MS LINE A RAD MON (170) STM GEN A STEAM LINE RAD LEVEL GENERIC/COND DESC: ANALOG/DIGITAL: MR/HR ENGR UNITS/DIG STATES: ENGR UNITS CONVERSION: N/A MINIMUM INSTR RANGE: 0.03981 MAXIMUM INSTR RANGE: 0.1259E+8 N/A ZERO POINT REFERENCE: REFERENCE POINT NOTES: N/A PROC OR SENS: NUMBER OF SENSORS: EXPONENTIATED VALUE OF LOGARITHMIC INPUT HOW PROCESSED: MN STM SAFETY VLV RISER - M.S. VLV HOUSE SENSOR LOCATIONS: 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

indicates radiation level.

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

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: N/A 0.03981 MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: ZERO POINT REFERENCE: N/A N/A

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:

09/30/1998 NA1 N/A

MAIN SL 2/B R1RM202C

MS LINE B RAD MON (171)

STM GEN B STEAM LINE RAD LEVEL

A MR/HR 0.1259E+8

EXPONENTIATED VALUE OF LOCARITHMIC INPUT MN STM SAFETY VLV RISER - M.S. VLV HOUSE VARIABLE

N/A N/A

N/A

N/A

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

Continuously monitors the 32 inch C main steam safety line

and indicates radiation level.

09/30/1998 DATE: REACTOR UNIT: NAI DATA FEEDER: N/A MAIN SL 3/C NRC ERDS PARAMETER: POINT ID: R1RM203C MS LINE C RAD MON (172) PLANT SPEC POINT DESC: STM GEN C STEAM LINE RAD LEVEL GENERIC/COND DESC: ANALOG/DIGITAL: MR/HR ENGR UNITS/DIG STATES: ENGR UNITS CONVERSION: N/A 0.03981 MINIMUM INSTR RANGE: 0.1259E+8 MAXIMUM INSTR RANGE: N/A ZERO POINT REFERENCE: N/A REFERENCE POINT NOTES: PROC OR SENS: NUMBER OF SENSORS: EXPONENTIATED VALUE OF LOGARITHMIC INPUT HOW PROCESSED: MN STM SAFETY VLV RISER - M.S. VLV HOUSE SENSOR LOCATIONS: 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: N/A

LEVEL REFERENCE LEG: UNIQUE SYSTEM DESC:

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

turbine-driven auxiliary feed pump exhaust ("Terry"

09/30/1998 DATE: NAI REACTOR UNIT: N/A DATA FEEDER: NRC ERDS PARAMETER: EFF GAS RAD R1RM204C POINT ID: PLANT SPEC POINT DESC: AUX STM LINE RAD MON (176) RADIOACTIVITY OF RELEASED GASES GENERIC/COND DESC: ANALOG/DIGITAL: ENGR UNITS/DIG STATES: MR/HR N/A ENGR UNITS CONVERSION: 0.03981 MINIMUM INSTR RANGE: 0.1259E+8 MAXIMUM INSTR RANGE: ZERO POINT REFERENCE: N/A REFERENCE POINT NOTES: N/A PROC OR SENS: NUMBER OF SENSORS: EXPONENTIATED VALUE OF LOGARITHMIC INPUT HOW PROCESSED: TURBINE-DRIVEN AUX FEED PUMP EXHAUST SENSOR LOCATIONS: VARIABLE ALARM/TRIP SETPOINTS: NI DETECTOR POWER SUPPLY N/A CUT-OFF POWER LEVEL: NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A INSTRUMENT FAILURE MODE: N/A TEMPERATURE COMPENSATION FOR DP TRANSMITTERS: LEVEL REFERENCE LEG: N/A Continuously monitors the radiation level in the UNIQUE SYSTEM DESC:

turbine).

NORTH ANNA UNIT 2 UPDATED DATA POINT LIBRARY SHEETS

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

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:

09/30/1998 NA2 N/A MAIN SL 1/A R2RM201C MS TIME A RAD MON (270) STM GEN A STEAM LINE RAD LEVEL A MR/HR N/A 0.03981 0.1259E+8 N/A N/A EXPONENTIATED VALUE OF LOGARITHMIC INPUT MN STM SAFETY VLV RISER - M.S. VLV HOUSE VARIABLE N/A

N/A
Continuously monitors the 32 inch A main steam safety line

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

Continuously monitors the 32 inch B main steam safety line

PRINTED 09/30/1998

DATE: 09/30/1998 REACTOR UNIT: NA2 N/A DATA FEEDER: 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: ENGR UNITS/DIG STATES: MR/HR ENGR UNITS CONVERSION: N/A MINIMUM INSTR RANGE: 0.03981 0.1259E+8 MAXIMUM INSTR RANGE: ZERO POINT REFERENCE: N/A REFERENCE POINT NOTES: N/A PROC OR SENS: NUMBER OF SENSORS: EXPONENTIATED VALUE OF LOGARITHMIC INPUT HOW PROCESSED: 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

N/A

and indicates radiation level.

FOR DP TRANSMITTERS:

LEVEL REFERENCE LEG:

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

Continuously monitors the 32 inch C main steam safety line

and indicates radiation level.

PRINTED 09/30/1998

09/30/1998 DATE: JA2 REACTOR UNIT: DATA FEEDER: N/A MAIN SL 3/C NRC ERDS PARAMETER: R2RM203C POINT ID: PLANT SPEC POINT DESC: MS LINE C RAD MON (272) GENERIC/COND DESC: STM GEN C STEAM LINE RAD LEVEL ANALOG/DIGITAL: MR/HR ENGR UNITS/DIG STATES: ENGR UNITS CONVERSION: N/A 0.03981 MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: 0.1259E+8 ZERO POINT REFERENCE: N/A N/A REFERENCE POINT NOTES: PROC OR SENS: NUMBER OF SENSORS: EXPONENTIATED VALUE OF LOGARITHMIC INPUT HOW PROCESSED: MN STM SAFETY VLV RISER - M.S. VLV HOUSE SENSOR LOCATIONS: ALARM/TRIP SETPOINTS: VARIABLE NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A INSTRUMENT FAILURE MODE: N/A TEMPERATURE COMPENSATION FOR DP TRANSMITTERS: LEVEL REFERENCE LEG: N/A

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

Continuously monitors the radiation level in the turbine-driven auxiliary feed pump exhaust ("Terry"

PRINTED 09/30/1998

09/30/1998 DATE: 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: ENGR UNITS/DIG STATES: MR/HR ENGR UNITS CONVERSION: N/A MINIMUM INSTR RANGE: 0.03981 0.1259E+8 MAXIMUM INSTR RANGE: ZERO POINT REFERENCE: N/A REFERENCE POINT NOTES: N/A PROC OR SENS: NUMBER OF SEWSORS: EXPONENTIATED VALUE OF LOGARITHMIC INPUT HOW PROCESSED: TURBINE-DRIVEN AUX FEED PUMP EXHAUST SENSOR LOCATIONS: ALARM/TRIP SETPOINTS: VARIABLE NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A INSTRUMENT FAILURE MODE: N/A TEMPERATURE COMPENSATION FOR DP TRANSMITTERS: LEVEL REFERENCE LEG: N/A

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

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

PRINTED 09/30/1998

### STATION: North Anna UNIT: 1

## PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

CHANGED FOINT R1RM202C 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

PRINTED 09/30/1998

# 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

CHANGED POINT RIRM204C AT 10:34 ON 09/30/1996. 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

PRINTED 09/30/1998

STATION: North Anna UNIT: 2

PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

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

PRINTED 09/30/1998

STATION: North Anna

UNIT: 2

PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

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 PRINTED 09/30/1998

#### STATION: North Anna UNIT: 2

### PWR DATA POINT LIBRARY REFERENCE FILE CHANGE REPORT

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 PRINTED 09/30/1998 .

STATION: North Anna

UNIT: 2

## PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

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 PRINTED 09/30/1998