

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

March 9, 1999

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

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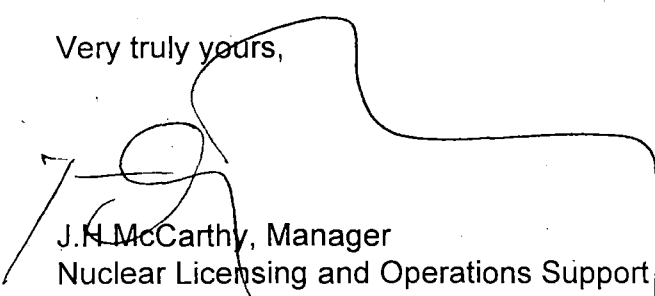
Gentlemen:

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

Modifications to six Emergency Response Data System (ERDS) points have been implemented at Surry Power Station to reflect changes in the descriptions for six auxiliary feedwater flow points that were modified to indicate their RG 1.97 status. Additionally, the liquid waste radiation monitoring point R3RM209C was deleted from the ERDS database. (This radiation monitor was removed from service under a Surry Design Change Package.) 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) for the affected points. //

No new commitments are intended by this letter. If you have any questions concerning these results, please contact us. A026

Very truly yours,


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

Attachments

1. Surry Updated Data Point Library Sheets
2. Revision Summary

9903170296 990309
PDR ADOCK 05000280
P PDR

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

Mr. R. A. Musser
NRC Senior Resident Inspector
Surry 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
SURRY POWER STATION UNITS 1 AND 2

SURRY UNIT 1 UPDATED DATA POINT LIBRARY SHEETS

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
03/05/1999

DATE: 03/05/1999
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 1/A
POINT ID: F1FW001A
PLANT SPEC POINT DESC: SG A AFW FLOW (RD) <>
GENERIC/COND DESC: STM GEN A AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 515" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 400.0
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 A
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 feedwater flow to steam generator A.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
03/05/1999

DATE: 03/05/1999
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 2/B
POINT ID: F1FW002A
PLANT SPEC POINT DESC: SG B AFW FLOW (WT) <>
GENERIC/COND DESC: STM GEN B AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 515" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 400.0
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 B
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 feedwater flow to steam generator B.

STATION: Surry
UNIT: 1
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
03/05/1999

DATE: 03/05/1999
REACTOR UNIT: SU1
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 3/C
POINT ID: F1FW003A
PLANT SPEC POINT DESC: SG C AFW FLOW (BL) <>
GENERIC/COND DESC: STM GEN C AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 515" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 400.0
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 C
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 feedwater flow to steam generator C.

SURRY UNIT 2 UPDATED DATA POINT LIBRARY SHEETS

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
03/05/1999

DATE: 03/05/1999
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 1/A
POINT ID: F2FW001A
PLANT SPEC POINT DESC: SG A AFW FLOW (RD) <>
GENERIC/COND DESC: STM GEN A AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 515" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 400.0
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 A
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 reactor containment sump level and provides a high level alarm. The largest valid narrow range signal is used for this point. If all signals are valid, 2 signals are considered. If both signals are invalid, this point is marked invalid.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
03/05/1999

DATE: 03/05/1999
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 2/B
POINT ID: F2FW002A
PLANT SPEC POINT DESC: SG B AFW FLOW (WT) <>
GENERIC/COND DESC: STM GEN B AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 515" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 400.0
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 B
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 feedwater flow to steam generator B.

STATION: Surry
UNIT: 2
PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED
03/05/1999

DATE: 03/05/1999
REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: AX FD FL 3/C
POINT ID: F2FW003A
PLANT SPEC POINT DESC: SG C AFW FLOW (BL) <>
GENERIC/COND DESC: STM GEN C AUX FEEDWATER FLOW
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: GPM
ENGR UNITS CONVERSION: 0 - 515" H2O
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 400.0
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 C
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 feedwater flow to steam generator C.

ATTACHMENT 2
REVISION SUMMARY
SURRY POWER STATION UNITS 1 AND 2

Page No. 1

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

PRINTED
03/08/1999

CHANGED POINT F1FW001A AT 10:02 ON 03/05/1999. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 03/23/1994
	IS: 03/05/1999
PLANT SPEC POINT DESC:	WAS: SG A AFW FLOW (RD)
	IS: SG A AFW FLOW (RD) <>

Page No. 2

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

PRINTED
03/08/1999

CHANGED POINT F1FW002A AT 10:02 ON 03/05/1999. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 03/23/1994
IS: 03/05/1999

PLANT SPEC POINT DESC:

WAS: SG B AFW FLOW (WT)
IS: SG B AFW FLOW (WT) <>

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

PRINTED
03/08/1999

CHANGED POINT F1FW003A AT 10:03 ON 03/05/1999. CHANGES WERE AS FOLLOWS:

DATE: WAS: 03/23/1994
IS: 03/05/1999

PLANT SPEC POINT DESC: WAS: SG C AFW FLOW (BL)
IS: SG C AFW FLOW (BL) <>

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

PRINTED
03/08/1999

DELETED POINT R3RM209C AT 09:22 ON 03/08/1999. FIELDS WERE AS FOLLOWS:

DATE:	05/20/1991
REACTOR UNIT:	SU1
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM209C
PLANT SPEC POINT DESC:	LW DISPOSAL (108)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
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:	AUX BLDG 13' LVL ACROSS FROM CHRG PMPS
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:	Monitors the radiation level in the liquid waste system.

Page No. 1

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

PRINTED
03/08/1999

CHANGED POINT F2FW001A AT 10:04 ON 03/05/1999. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 06/16/1994
	IS: 03/05/1999
PLANT SPEC POINT DESC:	WAS: SG A AFW FLOW (RD)
	IS: SG A AFW FLOW (RD) <>

Page No. 2

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

PRINTED
03/08/1999

CHANGED POINT F2FW002A AT 10:04 ON 03/05/1999. CHANGES WERE AS FOLLOWS:

DATE:	WAS: 06/16/1994
	IS: 03/05/1999
PLANT SPEC POINT DESC:	WAS: SG B AFW FLOW (WT)
	IS: SG B AFW FLOW (WT) <>

Page No. 3

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

PRINTED
03/08/1999

CHANGED POINT F2FW003A AT 10:04 ON 03/05/1999. CHANGES WERE AS FOLLOWS:

DATE: WAS: 06/16/1994
IS: 03/05/1999

PLANT SPEC POINT DESC: WAS: SG C AFW FLOW (BL)
IS: SG C AFW FLOW (BL) <>

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

PRINTED
03/08/1999

DELETED POINT R3RM209C AT 09:22 ON 03/08/1999. FIELDS WERE AS FOLLOWS:

DATE:	05/20/1991
REACTOR UNIT:	SU2
DATA FEEDER:	N/A
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	R3RM209C
PLANT SPEC POINT DESC:	LW DISPOSAL (108)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQ
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	10.0
MAXIMUM INSTR RANGE:	1.0E6
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:	AUX BLDG 13' LVL ACROSS FROM CHR9 PMPS
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:	Monitors the radiation level in the liquid waste system.