VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

August 16, 19935

United States Nuclear Regulatory Commission

Attention: Document Control Desk

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Gentlemen:

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

Modifications were recently made to the instrument ranges for the containment sump level (narrow range and wide range) and hydrogen analyzer inputs for Surry Units 1 and 2. The lower instrument limits were modified slightly to expand the range in order to prevent spurious alarms. The changes, which were made to resolve recent Emergency Response Facility problem reports, are detailed in the Data Point Library (DPL) reference file sheets contained in Attachment 1 for Surry Units 1 and 2. Attachment 2 provides revision summaries (change reports) for the affected points for Surry Units 1 and 2. The updated data base files, documented in Attachments 1 and 2, are also provided in the dBase IV format on Attachment 3.

If you have questions regarding this information, please contact us.

Very truly yours,

M. L. Bowling, Manager

M Burling

Nuclear Licensing & Programs

Attachments:

- 1. Updated Data Point Library Reference File Sheets for Surry Units 1 and 2
- 2. Revision Summaries for Surry Units 1 and 2
- 3. Updated DPL Data Base Files in dBase Format

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cc: U. S. Nuclear Regulatory Commission (Attachments 1 and 2)
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Mr. M. W. Branch (Attachments 1 and 2) NRC Senior Resident Inspector Surry Power Station

NUS Corporation / El Division (Attachments 1, 2, and 3) P. O. Box 59736 Idaho Falls, Idaho 83405 Attention: Mr. Tony LaRosa

ATTACHMENT 1

UPDATED DATA POINT LIBRARY REFERENCE FILE SHEETS FOR SURRY UNITS 1 AND 2

PRINTED 08/02/93

DATE: 08/02/93

REACTOR UNIT: SU1
DATA FEEDER: N/A

NRC ERDS PARAMETER: CTMNT SMP WR POINT ID: L1DA001C

PLANT SPEC POINT DESC: CONTAINMENT WR SUMP LEVEL GENERIC/COND DESC: CONTAINMENT SUMP WR LEVEL

ANALOG/DIGITAL: A ENGR UNITS/DIG STATES: FT

ENGR UNITS CONVERSION: 1 FT = 58343 GALLONS

MINIMUM INSTR RANGE: 0.173
MAXIMUM INSTR RANGE: 9.0
ZERO POINT REFERENCE: TNKBOT
REFERENCE POINT NOTES: N/A
PROC OR SENS: P
NUMBER OF SENSORS: 2

HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION

SENSOR LOCATIONS: RECIRC SPRAY SUMP-SEE SYSTEM DESCRIPTION

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: The valid wide range signals are averaged (2 signals if all

are valid). If neither signal is valid, this point is

STATION: Surry UNIT: 1

PWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08/02/93

REACTOR UNIT: SU1
DATA FEEDER: N/A

NRC ERDS PARAMETER: CTMNT SMP NR POINT ID: L1DA002C

PLANT SPEC POINT DESC: CONTAINMENT NR SUMP LEVEL GENERIC/COND DESC: CONTAINMENT SUMP NR LEVEL

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: INCH

ENGR UNITS CONVERSION: 1 IN = 2369 GALLONS

MINIMUM INSTR RANGE: 3.84
MAXIMUM INSTR RANGE: 26.5
ZERO POINT REFERENCE: TNKBOT

REFERENCE POINT NOTES: 280 GALLONS REMAIN AT ZERO POINT

PROC OR SENS:

NUMBER OF SENSORS:

HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION

SENSOR LOCATIONS: CONTAINMENT SUMP

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

PWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08/03/93

REACTOR UNIT:

DATA FEEDER:

N/A

NRC ERDS PARAMETER:

H2 CONC

POINT ID:

A1GW001C

PLANT SPEC POINT DESC: CNTMT H2 CONCENTRATION GENERIC/COND DESC: CONTAINMENT HYDROGEN CONC

ANALOG/DIGITAL: Α ENGR UNITS/DIG STATES: PCT ENGR UNITS CONVERSION: N/A -0.3MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: 10.0 ZERO POINT REFERENCE: N/A REFERENCE POINT NOTES: N/A PROC OR SENS: Р

NUMBER OF SENSORS: 2

HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION

SENSOR LOCATIONS: AUX BLDG 13' LVL

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 of containment atmosphere and measures the

hydrogen concentration in the sample. The valid signals are

averaged (2 signals if all are valid). If none of the

signals is valid, this point is marked invalid.

STATION: Surry UNIT: 2

PWR DATA POINT LIBRARY REFERENCE FILE

PRINTED

08/02/93

REACTOR UNIT: SU2 N/A DATA FEEDER:

DATE:

NRC ERDS PARAMETER: CTMNT SMP WR POINT ID: L2DA001C

PLANT SPEC POINT DESC: CONTAINMENT WR SUMP LEVEL GENERIC/COND DESC: CONTAINMENT SUMP WR LEVEL

ANALOG/DIGITAL: Α ENGR UNITS/DIG STATES: FT

1 FT = 58343 GALLONSENGR UNITS CONVERSION:

MINIMUM INSTR RANGE: 0.173 9.0 MAXIMUM INSTR RANGE: ZERO POINT REFERENCE: TNKBOT REFERENCE POINT NOTES: N/A PROC OR SENS: Ρ NUMBER OF SENSORS:

AVERAGE - SEE SYSTEM DESCRIPTION HOW PROCESSED:

RECIRC SPRAY SUMP-SEE SYSTEM DESCRIPTION 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

UNIQUE SYSTEM DESC: The valid wide range signals are averaged (2 signals if all

are valid). If neither signal is valid, this point is

STATION: Surry UNIT: 2

PWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08/02/93

REACTOR UNIT: SU2
DATA FEEDER: N/A

NRC ERDS PARAMETER: CTMNT SMP NR POINT ID: L2DA002C

PLANT SPEC POINT DESC: CONTAINMENT NR SUMP LEVEL GENERIC/COND DESC: CONTAINMENT SUMP NR LEVEL

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: INCH

ENGR UNITS CONVERSION: 1 IN = 2369 GALLONS

MINIMUM INSTR RANGE: 3.84
MAXIMUM INSTR RANGE: 26.5
ZERO POINT REFERENCE: TNKBOT

REFERENCE POINT NOTES: 280 GALLONS REMAIN AT ZERO POINT

PROC OR SENS: P
NUMBER OF SENSORS: 2

HOW PROCESSED: MAXIMUM - SEE SYSTEM DESCRIPTION

SENSOR LOCATIONS: CONTAINMENT SUMP

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

STATION: Surry UNIT: 2

PWR DATA POINT LIBRARY REFERENCE FILE

DATE: 08/03/93

REACTOR UNIT: SU2
DATA FEEDER: N/A
NRC ERDS PARAMETER: H2 CONC
POINT ID: A2GW001C

PLANT SPEC POINT DESC: CNTMT H2 CONCENTRATION GENERIC/COND DESC: CONTAINMENT HYDROGEN CONC

ANALOG/DIGITAL: Α ENGR UNITS/DIG STATES: PCT ENGR UNITS CONVERSION: N/A MINIMUM INSTR RANGE: -0.3MAXIMUM INSTR RANGE: 10.0 ZERO POINT REFERENCE: N/A REFERENCE POINT NOTES: N/A Р PROC OR SENS: 2 NUMBER OF SENSORS:

HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION

SENSOR LOCATIONS: AUX BLDG 13' LVL

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 of containment atmosphere and measures the

hydrogen concentration in the sample. The valid signals are

averaged (2 signals if all are valid). If none of the

signals is valid, this point is marked invalid.

ATTACHMENT 2 REVISION SUMMARIES FOR SURRY UNITS 1 AND 2

STATION: Surry

UNIT: 1

PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

CHANGED POINT L1DA001C AT 13:11 ON 08/02/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 05/20/91

IS: 08/02/93

MINIMUM INSTR RANGE:

WAS: 0.43

IS: 0.173

UNIT: 1 PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

CHANGED POINT L1DA002C AT 13:12 ON 08/02/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 05/20/91

IS: 08/02/93

MINIMUM INSTR RANGE:

WAS: 4.5

IS: 3.84

PRINTÉD-08/03/93

PWR DATA POINT LIBRARY REFERENCE FILE CHANGE REPORT

CHANGED POINT A1GW001C AT 07:58 ON 08/03/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 05/20/91

IS: 08/03/93

MINIMUM INSTR RANGE:

WAS: 0.0

IS: -0.3

PWR DATA POINT LIBRARY REFERENCE FILE CHANGE REPORT

CHANGED POINT L2DA001C AT 13:14 ON 08/02/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 05/20/91

IS: 08/02/93

MINIMUM INSTR RANGE:

WAS: 0.43

IS: 0.173

PWR DATA POINT LIBRARY REFERENCE FILE CHANGE REPORT

CHANGED POINT L2DA002C AT 13:15 ON 08/02/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 05/20/91

IS: 08/02/93

MINIMUM INSTR RANGE:

WAS: 4.5

IS: 3.84

UNIT: 2

PWR DATA POINT LIBRARY REFERENCE FILE

CHANGE REPORT

CHANGED POINT A2GW001C AT 07:59 ON 08/03/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 05/20/91

IS: 08/03/93

MINIMUM INSTR RANGE:

WAS: 0.0

IS: -0.3

ATTACHMENT 3

UPDATED DPL DATA BASE FILES IN dBASE IV FORMAT (Diskette to NUS Corporation / El Division)