VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

November 2, 1993

United States Nuclear Regulatory Commission Attention: Document Control Desk Washington, D. C. 20555	Serial No. NL&P/CGL Docket Nos.	93-675 R0 50-280 50-281 50-338
Gentlemen:	License Nos.	50-339 DPR-32 DPR-37 NFP-4

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

Modifications were recently made to the instrument range for the Reactor Vessel Level Instrumentation System (RVLIS) dynamic head points. The upper instrument limits were modified slightly to expand the range in order to prevent spurious alarms. The changes were made to resolve a recent North Anna Emergency Response Facility problem report. Since the potential for this problem also exists at Surry, the changes were made at both stations and are detailed in the Data Point Library (DPL) revision summaries (change reports) contained in Attachments 1 and 2 for Surry Units 1 and 2 and North Anna Units 1 and 2, respectively. Attachments 3 and 4 provide revision summaries (change reports) for the affected points for Surry Units 1 and 2 and North Anna Units 1 and 2, respectively. The updated data base files are also provided in the dBase IV format on Attachment 5.

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

Very truly yours,

M. L. Bowling, Manager

ML Birling

Nuclear Licensing & Programs

Attachments:

1. Updated DPL Forms for Surry Units 1 and 2

2. Updated DPL Forms for North Anna Units 1 and 2

3. DPL Revision Summaries for Surry Units 1 and 2

4. DPL Revision Summaries for North Anna Units 1 and 2

5. Updated DPL Data Base Files for Surry and North Anna in dBase IV Format

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9311120020 931102 PDR ADOCK 05000280 F PDR H096

NFP-7

cc: U. S. Nuclear Regulatory Commission - Attachments 1 - 4
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Mr. M. W. Branch - Attachments 1 - 4 NRC Senior Resident Inspector Surry Power Station

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NUS Corporation / El Division - Attachments 1 - 5 P. O. Box 59736 Idaho Falls, Idaho 83405 Attention: Mr. Tony LaRosa

ATTACHMENT 1 UPDATED DPL FORMS FOR SURRY UNITS 1 AND 2

1

TEMPERATURE COMPENSATION

LEVEL REFERENCE LEG:

UNIQUE SYSTEM DESC:

FOR DP TRANSMITTERS:

DATE: 10/20/93 REACTOR UNIT: SU1 DATA FEEDER: N/A NRC ERDS PARAMETER: REAC VES LEV POINT ID: L1RC003C PLANT SPEC POINT DESC: RVLIS DYNAMIC HEAD LEVEL GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL ANALOG/DIGITAL: ENGR UNITS/DIG STATES: PCT N/A ENGR UNITS CONVERSION: MINIMUM INSTR RANGE: 0,0 MAXIMUM INSTR RANGE: 122.0 ZERO POINT REFERENCE: TNKBOT REFERENCE POINT NOTES: N/A PROC OR SENS: P. NUMBER OF SENSORS: 5 HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION SENSOR LOCATIONS: HEAD VENT (TOP) & BOTTOM OF VESSEL 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

WET

The 2 reactor dynamic head level signals are used in conjunction with the reactor coolant pump motor currents to calculate this value. The dynamic head readings are invalid if no RCP's are running; therefore, this process value will be set invalid if no RCP motor current is greater than 5% of it's full load value. If none of the RCP's are running, the average of the valid dynamic head level signals is used to calculate this point.

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 SUPPLY
TURN-ON POWER LEVEL:
INSTRUMENT FAILURE MODE:
TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS:

LEVEL REFERENCE LEG: UNIQUE SYSTEM DESC:

10/20/93 SU2 N/A

REAC VES LEV

RVLIS DYNAMIC HEAD LEVEL REACTOR VESSEL WATER LEVEL

A PCT N/A 0.0 122.0 TNKBOT N/A P

AVERAGE - SEE SYSTEM DESCRIPTION HEAD VENT (TOP) & BOTTOM OF VESSEL

VARIABLE

N/A

N/A N/A

WET

The 2 reactor dynamic head level signals are used in conjunction with the reactor coolant pump motor currents to calculate this value. The dynamic head readings are invalid if no RCP's are running; therefore, this process value will be set invalid if no RCP motor current is greater than 5% of it's full load value. If none of the RCP's are running, the average of the valid dynamic head level signals is used to calculate this point.

ATTACHMENT 2 UPDATED DPL FORMS FOR NORTH ANNA UNITS 1 AND 2

FOR DP TRANSMITTERS:

LEVEL REFERENCE LEG:

UNIQUE SYSTEM DESC:

10/20/93 DATE: REACTOR UNIT: NA1 DATA FEEDER: N/A REAC VES LEV NRC ERDS PARAMETER: POINT ID: L1RC003C PLANT SPEC POINT DESC: RVLIS DYNAMIC HEAD LEVEL GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL ANALOG/DIGITAL: ENGR UNITS/DIG STATES: PCT ENGR UNITS CONVERSION: N/A MINIMUM INSTR RANGE: 0.0 MAXIMUM INSTR RANGE: 122.0 ZERO POINT REFERENCE: TNKBOT REFERENCE POINT NOTES: N/A PROC OR SENS: NUMBER OF SENSORS: HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION SENSOR LOCATIONS: HEAD VENT (TOP) & BOTTOM OF VESSEL 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

WET
The 2 DYNAMIC HEAD level signals are used in conjunction with the reactor coolant pump (RCP) breaker statuses to calculate this value. The dynamic head readings are invalid if no RCP's are running; therefore, this point will be set invalid if no RCP breakers are closed. If any of the RCP breakers are closed, the average of the valid dynamic head level signals is used to calculate this point.

2-2

FOR DP TRANSMITTERS:

LEVEL REFERENCE LEG:

UNIQUE SYSTEM DESC:

10/20/93 DATE: REACTOR UNIT: NA2 DATA FEEDER: N/A REAC VES LEV NRC ERDS PARAMETER: POINT ID: L2RC003C PLANT SPEC POINT DESC: RVLIS DYNAMIC HEAD LEVEL GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL ANALOG/DIGITAL: **PCT** ENGR UNITS/DIG STATES: ENGR UNITS CONVERSION: N/A 0.0 MINIMUM INSTR RANGE: MAXIMUM INSTR RANGE: 122.0 TNKBOT ZERO POINT REFERENCE: REFERENCE POINT NOTES: N/A PROC OR SENS: p' NUMBER OF SENSORS: HOW PROCESSED: AVERAGE - SEE SYSTEM DESCRIPTION HEAD VENT (TOP) & BOTTOM OF VESSEL SENSOR LOCATIONS: ALARM/TRIP SETPOINTS: VARIABLE 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

WET
The 2 DYNAMIC HEAD level signals are used in conjunction
with the reactor coolant pump (RCP) breaker statuses to
calculate this value. The dynamic head readings are invalid
if no RCP's are running; therefore, this point will be set
invalid if no RCP breakers are closed. If any of the RCP
breakers are closed, the average of the valid dynamic head
level signals is used to calculate this point.

ATTACHMENT 3 DPL REVISION SUMMARIES FOR SURRY UNITS 1 AND 2

CHANGED POINT L1RC003C AT 08:21 ON 10/20/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 05/20/91 IS: 10/20/93

MAXIMUM INSTR RANGE:

PRINTED 10/20/93

CHANGED POINT L2RC003C AT 08:22 ON 10/20/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 05/20/91 IS: 10/20/93

MAXIMUM INSTR RANGE:

ATTACHMENT 4 DPL REVISION SUMMARIES FOR NORTH ANNA UNITS 1 AND 2

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

CHANGED POINT L1RC003C AT 08:20 ON 10/20/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 03/21/91 IS: 10/20/93

MAXIMUM INSTR RANGE:

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

CHANGED POINT L2RC003C AT 08:21 ON 10/20/93. CHANGES WERE AS FOLLOWS:

DATE:

WAS: 03/21/91 IS: 10/20/93

MAXIMUM INSTR RANGE:

ATTACHMENT 5

UPDATED DPL DATA BASE FILES FOR SURRY AND NORTH ANNA
IN dBASE IV FORMAT
(Diskette to NUS Corporation / El Division)