

Omaha Public Power District
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Omaha, Nebraska 68102-2247
402/636-2000

March 23, 1994
LIC-94-0067

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-137
Washington, DC 20555

Reference: 1. Docket No. 50-285
2. Letter from OPPD (W. G. Gates) to NRC (Document Control Desk)
dated January 6, 1994 (LIC-93-0307)

Gentlemen:

SUBJECT: Report of Modifications to Hardware and Software Affecting
Emergency Response Data System (ERDS) Data Point Library

This letter is provided by Omaha Public Power District (OPPD) for Fort Calhoun Station (FCS) pursuant to 10 CFR 50, Appendix E, Section VI.3.a, "Maintaining Emergency Response Data System," which states:

Any hardware and software changes that affect the transmitted data points identified in the ERDS Data Point Library (site specific data base residing on the ERDS computer) must be submitted to the NRC within 30 days after the changes are completed.

In Reference 2, Alarm/Trip Setpoints for RM055A, "EFF LIQ RAD," were inadvertently reported on the data point library reference file for RM063, "EFF GAS RAD," which has no alarm/trip setpoints. Information indicating that RM063 has no alarm/trip setpoints was inadvertently reported on the data point library reference file for RM055A. Data point library reference files for the two parameters were revised to correct the interchanged information. Also, the library reference file sheets were changed to correct errors in the Maximum Instrument Range for RM055A, and in the Maximum Instrument Range and Minimum Instrument Range for RM063, (i.e., "10 E-3" should be "1.00E-03"). All other information reported in Reference 2 was reviewed and determined to be accurate.

On March 3, 1994, additional changes to ERDS data points were completed. ERDS parameter "SUB MARGIN" was changed to display a positive value for sub-cooled Reactor Coolant System (RCS) temperatures and a negative value for super-heated RCS temperatures. The ERDS parameters "SG BD RAD 1/A" and "SG BD RAD 2/B" were changed due to the completion of a modification which replaced these analog radiation monitors with upgraded digital radiation monitors. Updated

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data point library reference file sheets for each of the parameters discussed above are attached.

Please contact me if you have any questions.

Sincerely,



W. G. Gates
Vice President

WGG/mah

Attachments

c: LeBoeuf, Lamb, Greene & MacRae
L. J. Callan, NRC Regional Administrator, Region IV
S. D. Bloom, NRC Project Manager
R. P. Mullikin, NRC Senior Resident Inspector
J. R. Jolicoeur, NRC/AEOD

Date:	02/28/94
Reactor Unit:	FC1
Data Feeder:	ERFCS
NRC ERDS Parameter:	SUB MARGIN
Point ID:	CETMRQ
Plant-Spec Point Desc:	CORE EXIT SUBCOOLING QSPDS
Generic/Cond Desc:	SATURATION TEMPERATURE - HIGHEST CET
Analog/Digital:	A
Engr Units/Dig States:	DEG F
Engr Units Conversion:	NONE
Minimum Instr Range:	N/A
Maximum Instr Range:	N/A
Zero Reference Point:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2
How Processed:	LOWEST
Sensor Locations:	N/A
Alarm/Trip Setpoints:	MODE DEPENDENT
NI Detector Power Supply Cut-On Power Level:	N/A
NI Detector Power Supply Turn-On Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation	N
For DP Transmitters: Level Reference Leg:	N/A
Unique System Desc.:	LOWEST INPUT FROM TMARCEA AND TMARCEB IS USED. QSPDS WILL FLAG SAT MARGIN AS INVALID WHEN COOLDOWN IS INITIATED.

Date:	03/15/94
Reactor Unit:	FC1
Data Feeder:	ERFCS
NRC ERDS Parameter:	EFF GAS RAD
Point ID:	RM063
Plant-Spec Point Desc:	POST ACCIDENT STACK MON LOW
Generic/Cond Desc:	RADIOACTIVITY OF RELEASED GASSES
Analog/Digital:	A
Engr Units/Dig States:	μCi/CC
Engr Units Conversion:	NONE
Minimum Instr Range:	1.00E-03
Maximum Instr Range:	1.00E+05
Zero Reference Point:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	STACK
Alarm/Trip Setpoints:	NONE
NI Detector Power Supply Cut-On Power Level:	N/A
NI Detector Power Supply Turn-On Power Level:	N/A
Instrument Failure Mode:	LOW
Temperature Compensation For DP Transmitters:	N
Level Reference Leg:	N/A
Unique System Desc.:	Post Accident Wide Range Noble Gas Stack Monitor

Date: 03/15/94

Reactor Unit: FC1

Data Feeder: ERFCS

NRC ERDS Parameter: EFF LIQ RAD

Point ID: RM055A

Plant-Spec Point Desc: OVERBOARD DISCH HDR MON

Generic/Cond Desc: RADIOACTIVITY OF RELEASED LIQUIDS

Analog/Digital: A

Engr Units/Dig States: CPM

Engr Units Conversion: NONE

Minimum Instr Range: 10

Maximum Instr Range: 1.00E+06

Zero Reference Point: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Locations: 2 inch Overboard Discharge Header

Alarm/Trip Setpoints: Alert: 81,000 Alarm: 90,000

NI Detector Power Supply
Cut-On Power Level: N/A

NI Detector Power Supply
Turn-On Power Level: N/A

Instrument Failure Mode: MONITOR INOP

Temperature Compensation
For DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: SENSITIVITY FACTOR: 9.42 E+7
BACKGROUND CPM: 5162

Date: 03/10/94

Reactor Unit: FCI

Data Feeder: ERFCS

NRC ERDS Parameter: SG BD RAD 1/A

Point ID: RM054A

Plant-Spec Point Desc: STM GEN BLDN MON

Generic/Cond Desc: STM GEN A BLOWDOWN RAD LEVEL

Analog/Digital: A

Engr Units/Dig States: CPM

Engr Units Conversion: NONE

Minimum Instr Range: 10

Maximum Instr Range: 1.00E+07

Zero Reference Point: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Locations: UPSTREAM OF SG SAMPLE HEADERS

Alarm/Trip Setpoints: ALERT: 900 HI: 10,500

NI Detector Power Supply
Cut-On Power Level: N/A

NI Detector Power Supply
Turn-On Power Level: N/A

Instrument Failure Mode: MONITOR INOP

Temperature Compensation
For DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: SENSITIVITY FACTOR: 9.84E+07
BACKGROUND CPM: 96. BASED ON ONE CIRCULATOR AND
1.29E+05 LB/HR BLOWDOWN. HI ALARM INITIATES
CLOSURE OF SG BLOWDOWN INSIDE CONTAINMENT
ISOLATION VALVES.

Date: 03/10/94

Reactor Unit: FC1

Data Feeder: ERFC5

NRC ERDS Parameter: SG BD RAD 2/B

Point ID: RM054B

Plant-Spec Point Desc: STM GEN BLDN MON

Generic/Cond Desc: STM GEN B BLOWDOWN RAD LEVEL

Analog/Digital: A

Engr Units/Dig States: CPM

Engr Units Conversion: NONE

Minimum Instr Range: 10

Maximum Instr Range: 1.00E+07

Zero Reference Point: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Locations: UPSTREAM OF SG SAMPLE HEADERS

Alarm/Trip Setpoints: ALERT: 900 HI: 10,500

NI Detector Power Supply Cut-On Power Level: N/A

NI Detector Power Supply Turn-On Power Level: N/A

Instrument Failure Mode: MONITOR INOP

Temperature Compensation For DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: SENSITIVITY FACTOR: 9.84E+07
BACKGROUND CPM: 220. BASED ON ONE CIRCULATOR AND
1.29E+05 LB/HR BLOWDOWN. HI ALARM INITIATES
CLOSURE OF SG BLOWDOWN INSIDE CONTAINMENT
ISOLATION VALVES.