

February 6, 1992



U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Mail Station P1-137  
Washington, D.C. 20555

Gentlemen:

ULNRC-2554

DOCKET NUMBER 50-483  
CALLAWAY PLANT  
EMERGENCY RESPONSE DATA SYSTEM  
DATA POINT LIBRARY CHANGES

On December 30, 1991, Union Electric submitted a Plant Attribute Library (PAL), a Critical Safety Function Parameter List, and a Data Point Library (DPL) as required for implementation of the Emergency Response Data System (ERDS) at Callaway. The following changes should be in these documents and appropriately incorporated into your files.

- 1) Page 1 of 3 of the Critical Safety Function Parameter List should be replaced to indicate changes in the Data Point Library (DPL) listed in Item 2, below (revised page is attached).
- 2) The following changes to the DPL should be made (revised pages are attached):

<u>PAGE</u>	<u>PARAMETER</u>	<u>OLD POINT ID</u>	<u>NEW POINT ID</u>
6 OF 61	REAC VES LEV	SPDS0042	REU0523
10 OF 61	SG LEVEL 1/A	SPDS0043	REL0404A
11 OF 61	SG LEVEL 2/B	SPDS0044	REL0424A
12 OF 61	SG LEVEL 3/C	SPDS0045	REL0444A
13 OF 61	SG LEVEL 4/D	SPDS0046	REL0464A

The old point IDs toggled between narrow range and wide range depending on plant condition. The new point IDs monitor only wide range.

*ADCK*

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Also, the ERDS modem will be located in the TSC instead of the Plant Computer Room as indicated in our October 22, 1991 transmittal of the ERDS Implementation Plan.

If you have any questions, please contact Mr. Al White, Supervisor, Emergency Preparedness, (314) 676-4961, or Mr. Eric Schulte, Engineer, Computer Support, (314) 676-8486.

Very truly yours,



Milton A. Stiller  
Manager, Nuclear Safety  
and Emergency Preparedness

MAS/AEW/dch  
Attachments

cc: A. B. Davis, Regional Administrator, USNRC Region III  
R. L. Hague, Chief, Reactor Projects Section 3C,  
USNRC Region III  
M. D. Lynch, USNRC Licensing Projects Manager  
(2 copies)  
Manager, Electric Department, Missouri Public Service  
Commissioner, w/o  
B. I. Bartlett, Senior Resident Inspector  
Shaw, Pittman, Potts, & Trowbridge, w/o

CRITICAL SAFETY FUNCTION PARAMETER LIST

PARAMETER DESCRIPTION	UNITS	COMPUTER POINT
<b>REACTOR CONTROL</b>		
NI	Nuclear Instruments, Power Range	% SPDS0059
NI	Nuclear Instruments, Intermediate Range	AMPS SPDS0060
NI	Nuclear Instruments, Source Range	CPS SPDS0041
NI	Post Accident Wide Range	PCM SEN0701
NI	Post Accident Source Range	CPS SEN0702
<b>CORE COOLING</b>		
REAC VES LEV	Reactor Vessel Water Level	% REU0523
TEMP CORE EX	Highest Temperature at the Core Exit	DEGF REU0090
SUB MARGIN	Saturation Temperature-Highest CET	DEGF SPDS0006
CORE FLOW	Total Reactor Coolant Flow	% REU0487
<b>STEAM GENERATORS</b>		
SG LEVEL 1/A	Steam Generator 1 (or A) Water Level	% REL0404A
SG LEVEL 2/B	Steam Generator 2 (or B) Water Level	% REL0424A
SG LEVEL 3/C	Steam Generator 3 (or C) Water Level	% REL0444A
SG LEVEL 4/D	Steam Generator 4 (or D) Water Level	% REL0464A
SG PRESS 1/A	Steam Generator 1 (or A) Pressure	PSIG SPDS0022
SG PRESS 2/B	Steam Generator 2 (or B) Pressure	PSIG SPDS0023
SG PRESS 3/C	Steam Generator 3 (or C) Pressure	PSIG SPDS0024
SG PRESS 4/D	Steam Generator 4 (or D) Pressure	PSIG SPDS0025
MN FD FL 1/A	Stm Gen 1 (or A) Main Feedwater Flow	KLB/HR SPDS0026
MN FD FL 2/B	Stm Gen 2 (or B) Main Feedwater Flow	KLB/HR SPDS0027
MN FD FL 3/C	Stm Gen 3 (or C) Main Feedwater Flow	KLB/HR SPDS0028
MN FD FL 4/D	Stm Gen 4 (or D) Main Feedwater Flow	KLB/HR SPDS0029
AX FD FL 1/A	Stm Gen 1 (or A) Auxiliary FW Flow	KLB/HR SPDS0054
AX FD FL 2/B	Stm Gen 2 (or B) Auxiliary FW Flow	KLB/HR SPDS0055
AX FD FL 3/C	Stm Gen 3 (or C) Auxiliary FW Flow	KLB/HR SPDS0056
AX FD FL 4/D	Stm Gen 4 (or D) Auxiliary FW Flow	KLB/HR SPDS0057
HL TEMP 1/A	Stm Gen 1 (or A) Inlet Temperature	DEGF SPDS0030
HL TEMP 2/B	Stm Gen 2 (or B) Inlet Temperature	DEGF SPDS0031
HL TEMP 3/C	Stm Gen 3 (or C) Inlet Temperature	DEGF SPDS0032
HL TEMP 4/D	Stm Gen 4 (or D) Inlet Temperature	DEGF SPDS0033
CL TEMP 1/A	Stm Gen 1 (or A) Outlet Temperature	DEGF SPDS0034
CL TEMP 2/B	Stm Gen 2 (or B) Outlet Temperature	DEGF SPDS0035
CL TEMP 3/C	Stm Gen 3 (or C) Outlet Temperature	DEGF SPDS0036
CL TEMP 4/D	Stm Gen 4 (or D) Outlet Temperature	DEGF SPDS0037

DATA POINT LIBRARY

Date: 01/13/92  
Reactor Unit: CW1  
Data Feeder: N/A  
NRC ERDS Parameter: REAC VES LEV  
Point ID: REU0523  
Plant Spec Point Desc: RV WR A/B LEVEL AVG  
Generic/Cond Desc: REACTOR VESSEL WATER LEVEL  
Analog/Digital: A  
Engr Units/Dig States: %  
Engr Units Conversion: N/A  
Minimum Instr Range: -2.500E+00  
Maximum Instr Range: 1.250E+02  
Zero Point Reference: N/A  
Reference Point Notes: N/A  
PROC or SENS: P  
Number of Sensors: 2  
How Processed: AVERAGE  
Sensor Locations: REACTOR VESSEL  
Alarm/Trip Set Points: N/A  
NI Detector Power Supply  
Cut-off Power Level: N/A  
NI Detector Power Supply  
Turn-on Power Level: N/A  
Instrument Failure Mode: LOW  
Temperature Compensation  
For DP Transmitters: Y  
Level Reference Leg: WET  
Unique System Desc: USES DIFFERENTIAL PRESSURE ACROSS THE  
VESSEL TO DETERMINE VESSEL LEVEL OR  
RELATIVE VOID CONTENT OF THE CIRCULATING  
PRIMARY COOLANT SYSTEM FLUID.  
VESSEL IS 43.8 FEET HIGH AND HAS AN INSIDE  
DIAMETER OF 173 INCHES.  
MAY FAIL HIGH.

Date:	01/13/92
Reactor Unit:	CW1
Data Feeder:	N/A
NRC ERDS Parameter:	SG LEVEL 1/A
Point ID:	RELO404A
Plant Spec Point Desc:	SG A WR LEVEL
Generic/Cond Desc:	STEAM GEN A WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	%
Engr Units Conversion:	STEAM GENERATOR VESSEL IS 812 INCHES HIGH
Minimum Instr Range:	0.000E+00
Maximum Instr Range:	1.000E+02
Zero Point Reference:	UTUBES
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	STEAM GENERATOR A
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	
Cut-off Power Level:	N/A
NI Detector Power Supply	
Turn-on Power Level:	N/A
Instrument Failure Mode:	LOW
Temperature Compensation	
For DP Transmitters:	Y
Level Reference Leg:	WET
Unique System Desc:	MAY FAIL HIGH.

Date:	01/13/92
Reactor Unit:	CW1
Data Feeder:	N/A
NRC ERDS Parameter:	SG LEVEL 2'B
Point ID:	RELO424A
Plant Spec Point Desc:	SG B WR LEVEL
Generic/Cond Desc:	STEAM GEN B WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	*
Engr Units Conversion:	STEAM GENERATOR IS 812 INCHES HIGH
Minimum Instr Range:	0.000E+00
Maximum Instr Range:	1.000E+02
Zero Point Reference:	UTUBES
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	STEAM GENERATOR B
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	
Cut-off Power Level:	N/A
NI Detector Power Supply	
Turn-on Power Level:	N/A
Instrument Failure Mode:	LOW
Temperature Compensation	
For DP Transmitters:	Y
Level Reference Leg:	WET
Unique System Desc:	MAY FAIL HIGH.



Date:	01/13/92
Reactor Unit:	CW1
Data Feeder:	N/A
NRC ERDS Parameter:	SG LEVEL 3/C
Point ID:	RELO444A
Plant Spec Point Desc:	SG C WR LEVEL
Generic/Cond Desc:	STEAM GEN C WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	%
Engr Units Conversion:	STEAM GENERATOR IS 812 INCHES HIGH
Minimum Instr Range:	0.000E+00
Maximum Instr Range:	1.000E+02
Zero Point Reference:	UTUBES
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	STEAM GENERATOR C
Alarm/Trip Set Points:	N/A
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	LOW
Temperature Compensation For DP Transmitters:	Y
Level Reference Leg:	WET
Unique System Desc:	MAY FAIL HIGH.

Date:	01/13/92
Reactor Unit:	CW1
Data Feeder:	N/A
NRC ERDS Parameter:	SG LEVEL 4/D
Point ID:	RELO464A
Plant Spec Point Desc:	SG D WR LEVEL
Generic/Cond Desc:	STEAM GEN D WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	‡
Engr Units Conversion:	STEAM GENERATOR IS 812 INCHES HIGH
Minimum Instr Range:	0.000E+00
Maximum Instr Range:	1.000E+02
Zero Point Reference:	UTUBES
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	STEAM GENERATOR D
Alarm/Trip Set Points:	N/A
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	LOW
Temperature Compensation For DP Transmitters:	N/A
Level Reference Leg:	N/A
Unique System Desc:	MAY FAIL HIGH.