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Energy to Serve Your World™

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U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D. C. 20555-0001

Edwin I. Hatch Nuclear Plant – Unit 1

Notification of Change in the Emergency Response Data System Data Point Library

Ladies and Gentlemen:

This letter serves as notification of a change to the Hatch Unit 1 Emergency Response Data System (ERDS) Data Point Library drawing A-44047, per the requirements of 10 CFR 50, Appendix E, VI.3.a.

The following changes are being made to NRC ERDS parameter H2 CONC, Point I.D. H2D: The phrase "ONLY WIDE USED" is being removed from the Reference Point Notes.

The following changes are being made to NRC ERDS parameter O2 CONC, Point I.D. O2D: The Engineering Units Conversion is revised to read, "polynom 1% = 1% O2." The Maximum Instrument Range is revised to "10%." Finally, the phrase "READOUT CURVE ATTACHED" is being deleted from the Unique System Description.

The "Primary Containment Atmosphere H2O2 Analyzer System Indicated VS. Actual Oxygen Concentration" curve is being removed from drawing A-44047.

The following changes are being made to NRC ERDS parameter H2 CONC, Point ID H2T: The phrase "ONLY WIDE USED" is being removed from the Reference Point Notes.

The following changes are being made to NRC ERDS Parameter O2 CONC, Point I.D. O2T: The Engineering Units Conversion is revised to read, "Polynom 1% = 1% O2." The Maximum Instrument Range is revised to "10%." Finally, the phrase "READOUT CURVE ATTACHED" is being deleted from the Unique System Description.

This letter contains no NRC commitments. If you have any questions, please advise.

Sincerely,

A handwritten signature in black ink, appearing to read "H. L. Sumner, Jr.", written in a cursive style.

H. L. Sumner, Jr.

HLS/OCV/daj

Enclosure: Mark-up of the affected ERDS Data Point Pages

cc: Southern Nuclear Operating Company  
Mr. J. T. Gasser, Executive Vice President  
Mr. G. R. Frederick, General Manager – Plant Hatch  
RTYPE: CHA02.004

U. S. Nuclear Regulatory Commission  
Dr. W. D. Travers, Regional Administrator  
Mr. C. Gratton, NRR Project Manager – Hatch  
Mr. D. S. Simpkins, Senior Resident Inspector – Hatch

**Enclosure**

**Edwin I. Hatch Nuclear Plant – Unit 1  
Notification of Change in the Emergency Response Data System Data Point Library  
Mark-up of Emergency Response Data System Pages**

E. I. Hatch Unit 1  
NRC - EMERGENCY RESPONSE DATA SYSTEM  
DATA POINT LIBRARY A-44047 Rev. 04

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E. I. Hatch Unit 1  
NRC - EMERGENCY RESPONSE DATA SYSTEM  
DATA POINT LIBRARY A-44047 VER. 6.0

Date:	2/11/92
Reactor Unit:	HT1
Data Feeder:	N/A
NRC ERDS Parameter	H2 CONC
Point I.D.:	H2D
Plant-Specific Point Description:	HYDROGEN CONC. (DRYWELL)
Generic/ Condensed Description:	DW HYDROGEN CONC.
Analog/Digital:	A
Engineering Units or Digital States:	% (PERCENT)
Engineering Units Conversion:	POLYNOM 1% = 1% H2
Minimum Instrument Range:	0
Maximum Instrument Range:	30
Zero Reference Point:	N/A
Reference Point Notes:	2 RNG (0 TO 10)/(0 TO 30) <del>ONLY WIDE USED</del>
Proc or Sens:	P
Number of Sensors:	2
How Processed:	HIGHEST IF BOTH SAMPLING SAME POINT
Sensor Locations:	DW EXTERNAL SAMPLE LINES
Alarm or Trip Setpoints:	1.5%HI
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:	N
Level Reference Leg:	N/A

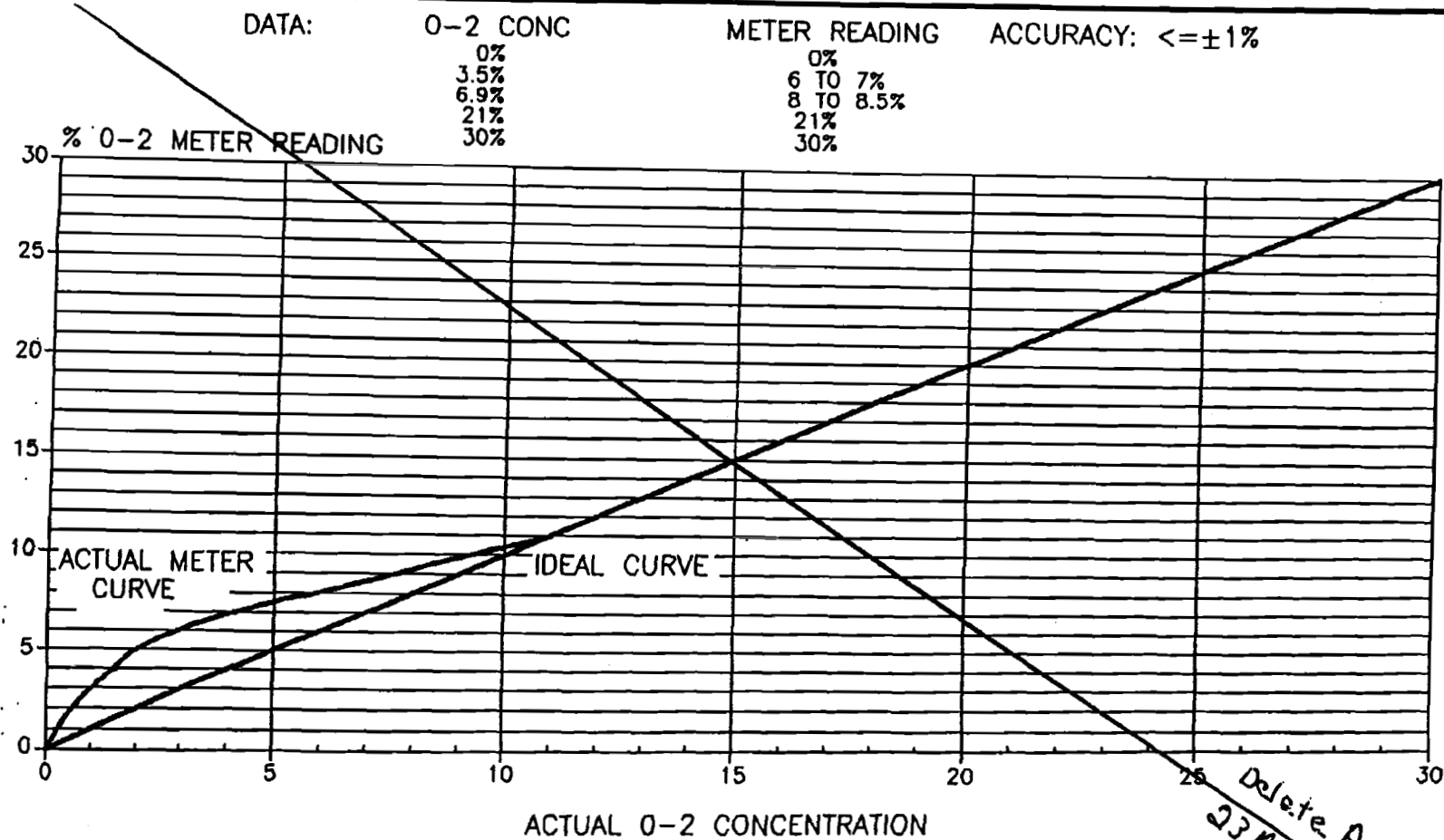
Unique System Description:

2 INSTRUMENTS, EACH MEASURING H2 AND O2, CAN BE ALIGNED BOTH TO SUPP CHAMB, BOTH TO DW, OR 1 TO DW AND 1 TO SUPP CHAMB. AVAIL = SENSORS (INST) ALIGNED TO SMPL PT; IN ANALYZE OR LOCA OVERRIDE; SENSORS NOT OUT OF CONVERSION RNG. QUAL PTS=0 (BOTH H2 SENSORS AVAIL IF A VAL .GE. B USE A, ELSE USE B USE INDIV VAL / VAL NOT HI); =2 (1 SENSOR AVAIL VAL NOT HI; IF BOTH ALIGNED TO SAME SOURCE VAL USED NOT HI); = 3 (NO SENSORS AVAIL OR SENSORS SAMPLING SAME POINT THEREFORE OTHER POINT NOT AVAIL BY DEFAULT); = 6 (VALUE PROVIDED=HI).

E. I. Hatch Unit 1  
NRC - EMERGENCY RESPONSE DATA SYSTEM  
DATA POINT LIBRARY A-44047 Rev. 04

Date:	2/11/92
Reactor Unit:	HT1
Data Feeder:	N/A
NRC ERDS Parameter:	O2 CONC
Point I. D.:	O2D
Plant-Specific Point Description:	OXYGEN CONCENTRATION (DRYWELL)
Generic/Condensed Description:	DW OXYGEN CONC
Analog/Digital:	A
Engineering Units or Digital States:	% (PERCENT)
Engineering Units Conversion:	<del>NONLINEAR TO 11% THEN LINEAR, CURVE ATT</del>
Minimum Instrument Range:	0
Maximum Instrument Range:	30
Zero Reference Point:	N/A
Reference Point Notes:	N/A
Proc or Sens:	P
Number of Sensors:	2
How Processed:	HIGHEST IF BOTH SAMPLING SAME POINT
Sensor Locations:	DW EXTERNAL SAMPLE LINES
Alarm or Trip Setpoints:	4.0%HI
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:	N
Level Reference Leg:	N/A

Unique System Description:  
 SAME TWO INSTRUMENTS USED FOR O2 MEASUREMENT THAT ARE USED FOR H2 MEASUREMENT. EACH UNIT IS A COMBINED H2 / O2 ANALYZER. QUALITY POINT INFORMATION SAME AS FOR H2 DATA POINT. SOFTWARE ROUTINE IS CALLED ONCE FOR BOTH H2 POINTS AND ONCE FOR BOTH O2 POINTS. ~~READOUT CURVE ATTACHED.~~



PRIMARY CONTAINMENT ATMOSPHERE  $H_2O_2$  ANALYZER SYSTEM INDICATED VS.  
ACTUAL OXYGEN CONCENTRATION

E. I. Hatch Unit 1  
NRC - EMERGENCY RESPONSE DATA SYSTEM  
DATA POINT LIBRARY A-44047 VER. 6.0

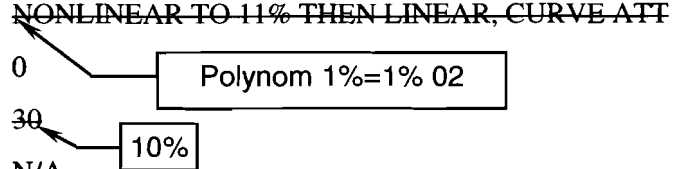
Date:	2/11/92
Reactor Unit:	HT2
Data Feeder:	N/A
NRC ERDS Parameter:	H2 CONC
Point I. D.:	H2T
Plant-Specific Point Description:	HYDROGEN CONC. (TORUS)
Generic/Condensed Description:	TORUS HYDROGEN CONC.
Analog/Digital:	A
Engineering Units or Digital States:	% (PERCENT)
Engineering Units Conversion:	POLYNOM 1% = 1% H2
Minimum Instrument Range:	0
Maximum Instrument Range:	30
Zero Reference Point:	N/A
Reference Point Notes:	2 RNG (0 TO 10)/(0 TO 30) <del>ONLY WIDE USED</del>
Proc or Sens:	P
Number of Sensors:	2
How Processed:	HIGHEST IF BOTH SAMPLING SAME POINT
Sensor Locations:	SUPP CHAMBER EXTERNAL SAMPLE LINES
Alarm or Trip Setpoints:	1.5% HI
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:	N
Level Reference Leg:	N/A

Unique System Description:  
 2 INSTRUMENTS, EACH MEASURING H2 AND O2, CAN BE ALIGNED BOTH TO SUPP CHAMB, BOTH TO DW, OR 1 TO DW AND 1 TO SUPP CHAMB. AVAIL = SENSORS (INST) ALIGNED TO SMPL PT; IN ANALYZE OR LOCA OVERRIDE; SENSORS NOT OUT OF CONVERSION RNG. QUAL PTS=0 (BOTH H2 SENSORS AVAIL IF A VAL. GE. B USE A, ELSE USE B USE INDIV VAL / VAL NOT HI); = 2 (1 SENSOR AVAIL VAL NOT HI; IF BOTH ALIGNED TO SAME SOURCE VAL USED NOT HI);=3(NO SENSORS AVAIL OR SENSORS SAMPLING SAME POINT THEREFORE OTHER POINT NOT AVAIL BY DEFAULT; = 6 (VALUE PROVIDED=HI)



E. I. Hatch Unit 1  
NRC - EMERGENCY RESPONSE DATA SYSTEM  
DATA POINT LIBRARY A-44047 Rev. 04

Date:	2/11/92
Reactor Unit:	HT2
Data Feeder:	N/A
NRC ERDS Parameter:	O2 CONC
Point I. D.:	O2T
Plant-Specific Point Description:	OXYGEN CONCENTRATION (TORUS)
Generic/Condensed Description:	TORUS OXYGEN CONC.
Analog/Digital:	A
Engineering Units or Digital States:	% (PERCENT)
Engineering Units Conversion:	<del>NONLINEAR TO 11% THEN LINEAR, CURVE ATT</del>
Minimum Instrument Range:	0
Maximum Instrument Range:	30
Zero Reference Point:	N/A
Reference Point Notes:	N/A
Proc or Sens:	P
Number of Sensors:	2
How Processed:	HIGHEST IF BOTH SAMPLING SAME POINT
Sensor Locations:	SUPP CHAMBER EXTERNAL SAMPLE LINES
Alarm or Trip Setpoints:	4.0% HI
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:	N
Level Reference Leg:	N/A



Unique System Description:  
 SAME TWO INSTRUMENTS USED FOR O2 MEASUREMENT THAT ARE USED  
 FOR H2 MEASUREMENT. EACH UNIT IS A COMBINED H2 / O2 ANALYZER.  
 QUALITY POINT INFORMATION SAME AS FOR H2 DATA POINT.  
 SOFTWARE ROUTINE IS CALLED ONCE FOR BOTH H2 POINTS AND ONCE  
 FOR BOTH O2 POINTS. ~~READOUT CURVE ATTACHED.~~