



Nebraska Public Power District

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10 CFR 50 Appendix E

NLS2022050
November 9, 2022

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

Subject: Notification of Revision to Cooper Nuclear Station Emergency Response Data
System Data Point Library
Cooper Nuclear Station, Docket No. 50-298, DPR-46

Dear Sir or Madam:

In accordance with the requirements of 10 CFR 50, Appendix E, Section VI.3.a, Nebraska Public Power District is submitting this letter to provide notification of a revision to the Cooper Nuclear Station Emergency Response Data System (ERDS) Data Point Library (DPL) as a result of changes in alarm set points that have been implemented. The affected point in the DPL is on page 18 for MN STEAM RAD.

This letter contains no new regulatory commitments. Should you have any questions regarding this submittal, please contact Phil Martin, Emergency Preparedness Manager, at (402) 825-2931.

Sincerely,

Linda Dewhirst
Regulatory Affairs & Compliance Manager

/bk

Enclosure: Cooper Nuclear Station ERDS Data Point Library, Revision 2

cc: Regional Administrator, w/enclosure
USNRC - Region IV

NPG Distribution, w/o enclosure

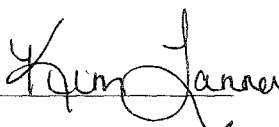
Senior Resident Inspector, w/enclosure
USNRC - CNS

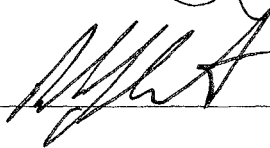
CNS Records, w/enclosure

NLS2022050
Enclosure

**COOPER NUCLEAR STATION
ERDS DATA POINT LIBRARY,
REVISION 2**

Prepared By: Josh Unruh  Date: 10/20/2022

Reviewed By: Kim Tanner  Date: 10/30/2022

Approved By: Phil Martin  Date: 10/30/2022

Effective Date: 10/30/2022

Prepared By: Josh Unruh Date: 10/20/2022

Reviewed By: Kim Tanner Date: 10/30/2022

Approved By: Phil Martin Date: 10/30/2022

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Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	NI POWER RNG
Point ID:	NI POWER RNG
Plant Spec Point Desc.:	AVERAGE APRM (POWER RANGE)
Generic/Cond Desc.:	NI, POWER RANGE
Analog/Digital:	A
Engr Units/Dig States:	%
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	125.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	6
How Processed:	AVERAGE
Sensor Locations:	IN REACTOR CORE
Alarm/Trip Set Points:	HIGH ALARM AT 118% FOR RUN MODE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation For DP Transmitters:	N/A
Level Reference Leg:	N/A
Unique System Desc.:	HIGH ALARM AT 118% DURING RUN MODE. HIGH ALARM AT 14% FOR STARTUP, REFUEL, AND SHUTDOWN MODES.

Date: 01/16/92
Reactor Unit:
Data Feeder:
NRC ERDS Parameter: NI INTER RNG
Point ID: NOT CURRENTLY AVAILABLE
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 Set Points:
NI Detector Power Supply
Cut-off Power Level:
NI Detector Power Supply
Turn-on Power Level:
Instrument Failure Mode:
Temperature Compensation
For DP Transmitters:
Level Reference Leg:
Unique System Desc.:

Date:	10/03/12
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	NI SOURC RNG
Point ID:	NI SOURC RNG
Plant Spec Point Desc.:	AVERAGE SRM (SOURCE RANGE)
Generic/Cond Desc.:	NI, SOURCE RANGE
Analog/Digital:	A
Engr Units/Dig States:	CPS
Engr Units Conversion:	N/A
Minimum Instr Range:	0.1
Maximum Instr Range:	1,000,000
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4
How Processed:	AVERAGE
Sensor Locations:	IN REACTOR CORE
Alarm/Trip Set Points:	400,000 CPS IN STARTUP MODE
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	SENSORS RETRACTED WHEN MODE SWITCH IS SWITCHED TO RUN POSITION. ALARM SETPOINTS ARE 700,000 IN RUN, 400,000 IN STARTUP, 500 IN REFUEL AND SHUTDOWN.

Date:	10/03/12
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	REAC VES LEV
Point ID:	REAC VES LEV
Plant Spec Point Desc.:	REACTOR VESSEL WATER LEVEL
Generic/Cond Desc.:	REACTOR VESSEL WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	IN
Engr Units Conversion:	N/A
Minimum Instr Range:	-150.0
Maximum Instr Range:	225.0
Zero Point Reference:	TAF
Reference Point Notes:	TOP OF FUEL = 0"
PROC or SENS:	P
Number of Sensors:	6
How Processed:	AVERAGE OF VALID RANGE
Sensor Locations:	INSTRUMENTATION LINES TO REACTOR VESSEL
Alarm/Trip Set Points:	LOW ALARM AT 165"
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	WET
Unique System Desc.:	ALARM LOW LEVEL AT 165", WARNING LOW LEVEL AT 185.5", WARNING HIGH LEVEL AT 200.5". ALL LEVELS ARE IN REFERENCE TO THE TOP OF ACTIVE FUEL. NARROW RANGE INSTRUMENTS PROVIDE DATA DOWN TO 158". WIDE RANGE INSTRUMENTS PROVIDE DATA DOWN TO 3". FUEL ZONE INSTRUMENTS PROVIDE DATA BELOW THIS LEVEL. FUEL ZONE LOW ALARM IS AT TAF. FUEL ZONE INSTRUMENT IS NOT TEMPERATURE COMPENSATED.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	MAIN FD FLOW
Point ID:	MAIN FD FLOW
Plant Spec Point Desc.:	MAIN CONDENSATE FLOW
Generic/Cond Desc.:	FEEDWATER FLOW INTO REACTOR SYS
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	25000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	CONDENSATE PMP DISCHARGE LINE
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	RCIC FLOW
Point ID:	RCIC FLOW
Plant Spec Point Desc.:	RCIC FLOW
Generic/Cond Desc.:	RCIC FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	500.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	RCIC PUMP DISCHARGE LINE, NE QUAD
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	RCS PRESSURE
Point ID:	RCS PRESSURE
Plant Spec Point Desc.:	AVERAGE RPV PRESSURE
Generic/Cond Desc.:	REACTOR COOLANT SYSTEM PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	1500.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2
How Processed:	AVERAGE
Sensor Locations:	INSTRUMENT LINES FROM REACTOR VESSEL
Alarm/Trip Set Points:	HIGH PRESSURE AT 1035 PSIG
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	HIGH PRESSURE AT 1035 PSIG FOR RUN AND STARTUP MODES. HIGH PRESSURE AT 75 PSIG FOR REFUEL AND SHUTDOWN MODES. NOTE: THIS POINT IS AVERAGE RPV PRESSURE.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	HPCI FLOW
Point ID:	HPCI FLOW
Plant Spec Point Desc.:	HPCI FLOW
Generic/Cond Desc.:	HPCI FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	5000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	HPCI PUMP DISCHARGE LINE, SW QUAD
Alarm/Trip Set Points:	LOW FLOW AT 400 GPM
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	LPCI FLOW
Point ID:	LPCI FLOW
Plant Spec Point Desc.:	RHR A & B LOOP COMBINED FLOW
Generic/Cond Desc.:	LPCI FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	40000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2
How Processed:	SUM
Sensor Locations:	RHR PUMP DISCHARGE LINES, NW & SW QUAD
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	SUM OF LAST VALID VALUES
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	THIS VALUE REPRESENTS THE TOTAL FLOW OF BOTH LOOPS OF RHR SYSTEM. EACH LOOP OF THE RHR SYSTEM OPERATES IN ONE OF FOUR MODES: LOW PRESSURE COOLANT INJECTION (LPCI), CONTAINMENT COOLING, SHUTDOWN COOLING, OR HOT STANDBY. THE TWO LOOPS OF THE RHR SYSTEM CAN OPERATE IN SEVERAL DIFFERENT COMBINATIONS OF THESE MODES.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	CR SPRAY FL
Point ID:	CR SPRAY FL
Plant Spec Point Desc.:	CORE SPRAY LOOP A & LOOP B COMBINED FLOW
Generic/Cond Desc.:	CORE SPRAY COOLING SYSTEM FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	12000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2
How Processed:	SUM
Sensor Locations:	CS PUMP DISCHARGE LINES, NE & SE QUAD
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	SUM OF LAST VALID VALUES
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	DW FD SMP LV
Point ID:	DW FD SMP LV
Plant Spec Point Desc.:	DRYWELL FLOOR DRAIN SUMP LEVEL ALARM
Generic/Cond Desc.:	DRYWELL FLOOR DRAIN SUMP LEVEL
Analog/Digital:	D
Engr Units/Dig States:	HIGH=1 NML=0
Engr Units Conversion:	N/A
Minimum Instr Range:	0
Maximum Instr Range:	1
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	F SUMP IN LOWER LEVEL OF DRYWELL
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	10/03/12
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	EFF GAS RAD
Point ID:	EFF GAS RAD
Plant Spec Point Desc.:	ELEVATED RELEASE POINT RADIATION LEVEL
Generic/Cond Desc.:	RADIOACTIVITY OF RELEASED GASSES
Analog/Digital:	A
Engr Units/Dig States:	UCI/S
Engr Units Conversion:	N/A
Minimum Instr Range:	0.01
Maximum Instr Range:	1.00E12
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	2
How Processed:	PROGRAM PICKS SENSOR WITH VALID RANGE
Sensor Locations:	ON ERP DISCHARGE LINE IN OFF-GAS HOUSE
Alarm/Trip Set Points:	HIGH ALARM AT 728,000 UCI/S
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	05/11/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	EFF LIQ RAD
Point ID:	EFF LIQ RAD
Plant Spec Point Desc.:	EFF RAD RAD
Generic/Cond Desc.:	RADIOACTIVITY OF RELEASED LIQDS
Analog/Digital:	A
Engr Units/Dig States:	UC/CC
Engr Units Conversion:	N/A
Minimum Instr Range:	1.00E-6
Maximum Instr Range:	1.00E-1
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	LIQ RAD WSTE DISCHRG LINE, RAD WSTE BLDG
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	LIQUID RADWASTE DISCHARGE LINE FLOW IS 70 GPM WITH THE SENSING LINE FLOW ADJUSTED TO GREATER THAN 3 GPM AT THE START OF EACH DISCHARGE.

Date:	10/20/14
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	CND A/E RAD
Point ID:	CND A/E RAD
Plant Spec Point Desc.:	SJAE AVERAGE RADIATION LEVEL
Generic/Cond Desc.:	CONDENSER A/E RADIOACTIVITY
Analog/Digital:	A
Engr Units/Dig States:	MR/HR
Engr Units Conversion:	N/A
Minimum Instr Range:	1.0
Maximum Instr Range:	1.000E6
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2
How Processed:	AVERAGE
Sensor Locations:	DISCHARGE LINE OF SJAE, TURBINE BLDG
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	<p>PMIS point SPDS0194 is the average of N082 and N083. SPDS0194 has no alarm setpoints. N082 and N083 have Hi-Hi alarm points set at 1.6E+3 mR/hr. The release path to the Elevated Release Point (ERP) is isolated 15 minutes after the Hi-Hi alarm points have been exceeded. The Fuel Cladding Barrier is considered lost on a reading of > 1.5E+4 mR/hr.</p> <p>TRANSMITTED POINT QUALITY IS NOT AFFECTED BY THESE VALUES.</p>

Date:	10/03/12
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	DW RAD
Point ID:	DW RAD
Plant Spec Point Desc.:	AVERAGE DRYWELL RADIATION
Generic/Cond Desc.:	RADIATION LEVEL IN THE DRYWELL
Analog/Digital:	A
Engr Units/Dig States:	R/HR
Engr Units Conversion:	N/A
Minimum Instr Range:	1.0
Maximum Instr Range:	1.000E7
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2
How Processed:	AVERAGE
Sensor Locations:	1st LEVEL IN DRYWELL
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	PLANT OPERATIONS WILL BASE DECISIONS AT THE FOLLOWING VALUES: 115 R/HR INDICATES LOSS OF CLAD IF NO LOCA. 240 R/HR INDICATES LOSS OF RCS BARRIER IF CLAD INTACT. 2500 R/HR INDICATES LOSS OF RCS AND FUEL CLAD BARRIERS. TRANSMITTED POINT QUALITY IS NOT AFFECTED BY THESE VALUES.

Date:	10/22/22
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	MN STEAM RAD
Point ID:	MN STEAM RAD
Plant Spec Point Desc.:	AVERAGE MS RAD LEVEL
Generic/Cond Desc.:	RADIATION LEVEL MAIN STEAM LINES
Analog/Digital:	A
Engr Units/Dig States:	MR/HR
Engr Units Conversion:	N/A
Minimum Instr Range:	1.0
Maximum Instr Range:	1.000E6
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4
How Processed:	AVERAGE
Sensor Locations:	ON MS LINES IN STEAM TUNNEL
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	<p>PMIS point SPDS0196 is the average of N303, N304, N305 and N306. SPDS0194 has no alarm setpoints. This value represents the average radiation level of the four main steam line radiation detectors. Each MAIN STEAM LINE RADIATION MONITOR has an alarm point. "A" MSL (N303) HI-HI = 1.08E+3, "B" MSL (N304) HI-HI = 9.88E+2, "C" MSL (N305) HI-HI = 1.06E+3, "D" MSL (N306) HI-HI = 8.98E+02. These detectors isolate releases from the Main Condenser when Mechanical Vacuum Pumps are maintaining condenser vacuum when the reactor is at low power. MSL HI-HI radiation alarms are an input to determine Fuel Cladding Loss.</p> <p>TRANSMITTED POINT QUALITY IS NOT AFFECTED BY THESE VALUES.</p>

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	DW PRESS
Point ID:	DW PRESS
Plant Spec Point Desc.:	AVERAGE DRYWELL PRESSURE
Generic/Cond Desc.:	DRYWELL PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	-5.0
Maximum Instr Range:	70.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2
How Processed:	AVERAGE
Sensor Locations:	INSTRUMENT LINES FROM 2nd LEVEL DRYWELL
Alarm/Trip Set Points:	HIGH PRESSURE AT 1.8 PSIG
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	DW TEMP
Point ID:	DW TEMP
Plant Spec Point Desc.:	AVERAGE DRYWELL TEMPURATURE
Generic/Cond Desc.:	DRYWELL TEMPURATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	400.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	20
How Processed:	WEIGHTED AVERAGE
Sensor Locations:	VARIOUS LOCATIONS IN DRYWELL
Alarm/Trip Set Points:	HIGH TEMPERATURE AT 150 DEG F
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	SP TEMP
Point ID:	SP TEMP
Plant Spec Point Desc.:	OVERALL AVERAGE SUPP POOL TEMP
Generic/Cond Desc.:	SUPPRESSION POOL TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	250.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	16
How Processed:	AVERAGE
Sensor Locations:	BOTTOM OF SUPPRESSION POOL
Alarm/Trip Set Points:	HIGH TEMPERATURE AT 95 DEG F
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	SP LEVEL
Point ID:	SP LEVEL
Plant Spec Point Desc.:	SUPPRESSION POOL WATER LEVEL
Generic/Cond Desc.:	SUPPRESSION POOL WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	FEET
Engr Units Conversion:	N/A
Minimum Instr Range:	0.00
Maximum Instr Range:	30.00
Zero Point Reference:	TNKBOT
Reference Point Notes:	BOTTOM OF SUPPRESSION POOL = 0 FEET
PROC or SENS:	P
Number of Sensors:	2
How Processed:	AVERAGE
Sensor Locations:	IN SUPPRESSION POOL
Alarm/Trip Set Points:	HIGH LEVEL ALARM AT 12.90 FEET
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	WET
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	H2 CONC
Point ID:	H2 CONC
Plant Spec Point Desc.:	HYDROGEN CONCENTRATION IN DRYWELL/TORUS
Generic/Cond Desc.:	DRYWELL/TORUS HYDROGEN CONC
Analog/Digital:	A
Engr Units/Dig States:	% H2
Engr Units Conversion:	N/A
Minimum Instr Range:	0.00
Maximum Instr Range:	30.00
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	4
How Processed:	N/A
Sensor Locations:	3 SAMPLE LINES TO DRYWELL AND 1 TO TORUS
Alarm/Trip Set Points:	HIGH ALARM AT 1%
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	THIS VALUE COMES FROM A ROTATION OF 4 DIFFERENT SAMPLE POINTS, 3 IN THE DRYWELL AND 1 IN THE TORUS. EVERY 10 MINUTES THE VALUE ROTATES TO THE NEXT POINT. THE VALUES ARE FROM DIV II OF THIS SYSTEM.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	O2 CONC
Point ID:	O2 CONC
Plant Spec Point Desc.:	OXYGEN CONCENTRATION IN DRYWELL/TORUS
Generic/Cond Desc.:	DRYWELL/TORUS OXYGEN CONC
Analog/Digital:	A
Engr Units/Dig States:	% O2
Engr Units Conversion:	N/A
Minimum Instr Range:	0.00
Maximum Instr Range:	30.00
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	4
How Processed:	N/A
Sensor Locations:	3 SAMPLE LINES TO DRYWELL AND 1 TO TORUS
Alarm/Trip Set Points:	HGH ALRM 3.9% DURING RUN & STRTUP MODES
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	THIS VALUE COMES FROM A ROTATION OF 4 DIFFERENT SAMPLE POINTS, 3 IN THE DRYWELL AND 1 IN THE TORUS. EVERY 10 MINUTES THE VALUE ROTATES TO THE NEXT POINT. THE VALUES ARE FROM DIV II OF THIS SYSTEM.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	CST LEVEL
Point ID:	CST LEVEL
Plant Spec Point Desc.:	CONDENSATE STORAGE TANK A LEVEL
Generic/Cond Desc.:	CONDENSATE STORAGE TANK LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PERCENT
Engr Units Conversion:	EACH 1% = 4500 GALLONS
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TNKBOT
Reference Point Notes:	BOTTOM OF DISCHARGE PIPE = 0%
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	SOUTH YARD, CST 1A DISCHARGE PIPE LEVEL
Alarm/Trip Set Points:	LOW LEVEL ALARM AT 25%
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	DRY
Unique System Desc.:	THIS IS A 450,000 GALLON STORAGE TANK.

Date:	10/03/12
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	WIND SPEED
Point ID:	WIND SPEED
Plant Spec Point Desc.:	100M LVL WIND SPEED
Generic/Cond Desc.:	WIND SPEED AT THE REACTOR SITE
Analog/Digital:	A
Engr Units/Dig States:	MPH
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	100M POSITION OF METEROLOGICAL TOWER
Alarm/Trip Set Points:	100 MPH HIGH WIND SPEED
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	SENSOR IS LOCATED AT 100M LEVEL ON METEROLOGICAL TOWER. THE RELEASE POINT OF THE ERP TOWER IS 100M. VALUE IS INSTANTANEOUS.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	WIND DIR
Point ID:	WIND DIR
Plant Spec Point Desc.:	100M LVL WIND DIRECTION
Generic/Cond Desc.:	WIND DIRECTION AT REACTOR SITE
Analog/Digital:	A
Engr Units/Dig States:	DEGFR
Engr Units Conversion:	N/A
Minimum Instr Range:	0
Maximum Instr Range:	360
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	100M LOCATION OF METEROLOGICAL TOWER
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	THIS SENSOR IS LOCATED AT 100M LEVEL OF METEROLOGICAL TOWER. THE RELEASE LEVEL FOR THE ERP TOWER IS 100M. 0 DEGREES IS NORTH, 90 DEGREES IS EAST, 180 DEGREES IS SOUTH, 270 DEGREES IS WEST.

Date:	10/03/12
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	STAB CLASS
Point ID:	STAB CLASS
Plant Spec Point Desc.:	AIR STABILITY CLASS AT 100M
Generic/Cond Desc.:	AIR STABILITY AT REACTOR SITE
Analog/Digital:	A
Engr Units/Dig States:	STABI
Engr Units Conversion:	N/A
Minimum Instr Range:	1
Maximum Instr Range:	7
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2
How Processed:	PROGRAM USING DELTA TEMPERATURE
Sensor Locations:	METEROLOGICAL TOWER
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	VALUES 1-7 REPRESENT STABILITY CLASSES A-G. STABILITY IS DETERMINED BY DELTA T BETWEEN 100 METER AND 10 METER ELEVATIONS.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	N/A
Point ID:	RHR FLOW A
Plant Spec Point Desc.:	RHR FLOW A LOOP
Generic/Cond Desc.:	RHR FLOW A
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	20000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	RHR PUMP A DISCHARGE LINE, NW QUAD
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	THIS VALUE INDICATES THE FLOW OF A LOOP RHR PUMPS. EACH LOOP OF THE RHR SYSTEM OPERATES IN ONE OF FOUR MODES: LOW PRESSURE COOLANT INJECTION (LPCI), CONTAINMENT COOLING, SHUTDOWN COOLING, OR HOT STANDBY. THE TWO LOOPS OF THE RHR SYSTEM CAN OPERATE IN SEVERAL DIFFERENT COMBINATIONS OF THESE MODES.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	N/A
Point ID:	RHR FLOW B
Plant Spec Point Desc.:	RHR FLOW B LOOP
Generic/Cond Desc.:	RHR FLOW B
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	20000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	RHR PUMP B DISCHARGE LINE, SW QUAD
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	THIS VALUE INDICATES THE FLOW OF B LOOP RHR PUMPS. EACH LOOP OF THE RHR SYSTEM OPERATES IN ONE OF FOUR MODES: LOW PRESSURE COOLANT INJECTION (LPCI), CONTAINMENT COOLING, SHUTDOWN COOLING, OR HOT STANDBY. THE TWO LOOPS OF THE RHR SYSTEM CAN OPERATE IN SEVERAL DIFFERENT COMBINATIONS OF THESE MODES.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	N/A
Point ID:	CS FLOW A
Plant Spec Point Desc.:	CORE SPRAY FLOW A LOOP
Generic/Cond Desc.:	CORE SPRAY FLOW A
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	6000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	CS PUMP A DISCHARGE LINE, NE QUAD
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	N/A
Point ID:	CS FLOW B
Plant Spec Point Desc.:	CORE SPRAY FLOW B LOOP
Generic/Cond Desc.:	CORE SPRAY FLOW B
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	6000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	CS PUMP B DISCHARGE LINE, SE QUAD
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	N/A
Point ID:	CRD FLOW
Plant Spec Point Desc.:	CRD SYSTEM FLOW
Generic/Cond Desc.:	CRD SYSTEM FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	160.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	CRD PUMPS DISCHARGE LINE, REACT BLDG
Alarm/Trip Set Points:	N/A
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	YES
For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc.:	

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	N/A
Point ID:	EMG CST A
Plant Spec Point Desc.:	EMERG COND STRG TK 1A LEVEL
Generic/Cond Desc.:	EMERG COND STRG TK 1A LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PERCENT
Engr Units Conversion:	1% = 500 GALLONS
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TNKBOT
Reference Point Notes:	BOTTOM OF DISCHARGE PIPE = 0%
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	ECST ROOM, ECST 1A DISCHARGE PIPE LEVEL
Alarm/Trip Set Points:	HIGH LEVEL AT 97%
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	DRY
Unique System Desc.:	THIS IS A 50,000 GALLON TANK AND IS CROSS-CONNECTED TO EMERGENCY CONDENSATE STORAGE TANK 1B.

Date:	01/16/92
Reactor Unit:	CO1
Data Feeder:	N/A
NRC ERDS Parameter:	N/A
Point ID:	EMG CST B
Plant Spec Point Desc.:	EMERG COND STRG TK 1B LEVEL
Generic/Cond Desc.:	EMERG COND STRG TK 1B LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PERCENT
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TNKBOT
Reference Point Notes:	BOTTOM OF DISCHARGE PIPE = 0%
PROC or SENS:	S
Number of Sensors:	1
How Processed:	N/A
Sensor Locations:	ECST ROOM, ECST 1B DISCHARGE PIPE LEVEL
Alarm/Trip Set Points:	HIGH LEVEL AT 97%
NI Detector Power Supply	N/A
Cut-off Power Level:	
NI Detector Power Supply	N/A
Turn-on Power Level:	
Instrument Failure Mode:	LAST VALID VALUE
Temperature Compensation	N/A
For DP Transmitters:	
Level Reference Leg:	DRY
Unique System Desc.:	THIS IS A 50,000 GALLON TANK AND IS CROSS-CONNECTED TO EMERGENCY CONDENSATE STORAGE TANK 1A.