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U.S. Nuclear Regulatory Commission
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PLANT HATCH - UNITS 1, 2
NRC DOCKETS 50-321, 50-366
OPERATING LICENSES DPR-57, NPF-5
10 CFR 50, APPENDIX E, SECTION VI
EMERGENCY RESPONSE DATA SYSTEM
DATA POINT LIBRARY AND PLANT ATTRIBUTE LIBRARY

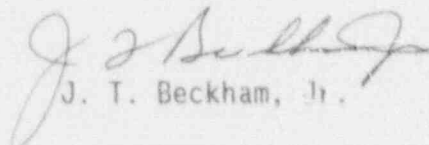
Gentlemen:

By letter dated October 25, 1991, Georgia Power Company (GPC) submitted the Emergency Response Data System (ERDS) implementation program plan for Plant Hatch Units 1 and 2 as required by 10 CFR 50, Appendix E, Section VI. In that letter, GPC committed to submitting the Data Point Library (DPL) and Plant Attribute Library (PAL) as described in NUREG 1394, Rev. 1, "Emergency Response Data System (ERDS) Implementation," to the NRC by March 13, 1992.

Enclosed are the DPLs for Plant Hatch Units 1 and 2 as described in Appendix C of NUREG-1394, Rev. 1, and the PAL for Plant Hatch Units 1 and 2 (parts 3 and 4 of the ERDS Communications Description and Survey Questionnaire, Appendix B of NUREG-1394, Rev. 1). Following the Unit 2 DPL is a list defining abbreviations and acronyms used in the Unit 1 and 2 DPLs.

Should you have any questions, please advise.

Sincerely,


J. T. Beckham, Jr.

MCM/cr

Enclosure: LER 50-366/1991-001

cc: (See next page.)

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PDR ADOCK 05000321
F PDR

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U.S. Nuclear Regulatory Commission

March 11, 1992

Page Two

cc: Georgia Power Company
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NORMS

U.S. Nuclear Regulatory Commission, Washington, D.C.
Mr. K. Jabbour, Licensing Project Manager - Hatch

U.S. Nuclear Regulatory Commission, Region II
Mr. S. D. Ebner, Regional Administrator
Mr. L. D. Wert, Senior Resident Inspector - Hatch

E. I. HATCH - UNIT 1
NRC - EMERGENCY RESPONSE DATA SYSTEM
Data Point Library

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E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: RCIC FLOW

Point I.D.: RCIC

Plant-Specific Point Description: RCIC FLOW

Generic/Condensed Description: RX CORE ISOLATION COOLING FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 500

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: ON PUMP DISCHARGE LINE

Alarm or Trip Setpoints: HI RX LEV TRIP = 51.5 IN.

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

Level Reference Leg: N/A

Unique System Description:

THIS POINT PROVIDES REFERENCE INFORMATION TO THE OPERATOR.
NO QUALITY TAG WILL BE PROVIDED; IF VALUE RECEIVED ASSUME
QUALITY = GOOD, ELSE ASSUME BAD. THE RCIC TURBINE DRIVEN PMP
IS DESIGNED TO PRODUCE 400 GPM AT APPROXIMATELY 1050 PSIG RX
PRESS. IT WILL AUTO START AT ~35 IN RX LEVEL (REF=INST ZERO)
. NORMAL SUCTION SOURCE = CST. SUCTION WILL AUTO SWAP TO THE
SUPP POOL AT APPROXIMATELY 10,000 GAL. IN THE CST.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HTI

Data Feeder: N/A

NRC ERDS Parameter: HPCI FLOW

Point I.D.: HPCI

Plant-specific Point Description: HPCI FLOW

Generic/Condensed Description: HP COOLANT INJECTION FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 5000

Zero Reference Point: N/A

Reference Point Notes: N/A

Process or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: PUMP DISCHARGE PIPE

Alarm or Trip Setpoints: HI RX WTR LEV = 51.5 IN (TRIP)

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

Level Reference Leg: N/A

Unique System Description:

THIS INFORMATION IS FOR OPERATOR REFERENCE. NORMAL HPCI FLOW REQUIREMENTS ARE TO DELIVER 4250 GPM INTO THE REACTOR VESSEL AT A PRESSURE OF .GE. 1080 PSIG. HPCI HAS AN AUTO START CAPABILITY ON LOW WATER LEVEL (-35 IN. FROM INST. ZERO) AND HI DRYWELL PRESSURE (1.85 PSIG). QUALITY POINT NOT PROVIDED. ASSUME A DELIVERED VALUE = GOOD / NO VALUE = BAD. NORMAL SUCTION = CST WITH AUTO SWAPOVER TO THE SUFP POOL AT APPROX 10,000 GAL CST LEVEL.

E.I. Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: LPCI FLOW

Point I.D.: RHRB

Plant-Specific Point Description: RHR FLOW B LOOP

Generic/Condensed Description: LP COOLANT INJECTION FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 25000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE / NO QUALITY POINT PROVIDED

Sensor Location: COMMON DISCHARGE LINE FOR BOTH PUMPS

Alarm or Trip Setpoints: NONE

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

Level Reference Level: N/A

Unique System Description:

THIS VALUE PROVIDES THE FLOWRATE FOR ONE OF TWO LOOPS OF THE RESIDUAL HEAT REMOVAL SYSTEM. THE LOOP (OR DIVISION) HAS TWO REDUNDANT PUMPS (EITHER OR BOTH CAN BE RUN) DISCHARGING INTO A COMMON HEADER. DIVISIONS (OR LOOPS) ARE ISOLATED FROM EACH OTHER. MAX FLOWRATE ALLOWED WITH HEAT EXCH BYPASS OPEN = 17000 ;WITH IT SHUT=11500 GPM. SINGLE PUMP FLOW MAX RANGE = 7700 TO 8200. LPCI OPERATIONAL MODE IS AUTOMATIC UPON A LOCA SIGNAL (DWPRESS=1.85 PSIG OR RWL = -101 IN REF TO INST ZERO) LPCI INJECTION VALVES WILL NOT ALIGN FOR INJECTION UNTIL RX PRESS .LE. 449 PSIG. LPCI THROTTLE IS POSS. AFTER TIME DELAY

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: LPCI FLOW

Point I.D.: RHRA

Plant-Specific Point Description: RHR FLOW A LOOP

Generic/Condensed Description: LP COOLANT INJECTION FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 25000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE / NO QUALITY POINT PROVIDED

Sensor Locations: COMMON DISCHARGE LINE FOR BOTH PUMPS

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

THIS VALUE PROVIDES THE FLOWRATE FOR ONE OF TWO LOOPS OF THE RESIDUAL HEAT REMOVAL SYSTEM. THE LOOP (OR DIVISION) HAS TWO REDUNDANT PUMPS (EITHER OR BOTH CAN BE RUN) DISCHARGING INTO A COMMON HEADER. DIVISIONS (OR LOOPS) ARE ISOLATED FROM EACH OTHER. MAX FLOWRATE ALLOWED WITH HEAT EXCH BYPASS OPEN = 17000 ;WITH IT SHUT=11500 GPM. SINGLE PUMP FLOW MAX RANGE = 7700 TO 8200. LPCI OPERATIONAL MODE IS AUTOMATIC UPON A LOCA SIGNAL (DWPRESS=1.85 PSIG OR RWL = -101 IN REF TO INST ZERO) LPCI INJECTION VALVES WILL NOT ALIGN FOR INJECTION UNTIL RX PRESS .LE. 449 PSIG. LPCI THROTTLE IS POSS. AFTER TIME DELAY

Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: MAIN FD FLOW

Point I.D.: FWFB

Plant-Specific Point Description: B FEEDWATER FLOW

Generic/Condensed Description: FW FLOW INTO RX SYSTEM

Analog/Digital : A

Engineering Units or Digital States: LB/HR

Engineering Units Conversion : LINEAR

Minimum Instrument Range: 0

Maximum Instrument Range: 6.0 EE+6

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: NOZZLES = EL147FTMSL, XMTRS = EL130FTMSL

Alarm or Trip Setpoints: NONE

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 Tag: N/A

Unique System Description:

THIS VALUE IS THE MEASURE OF FW FLOW THROUGH ONE OF TWO FEED WATER SUPPLY LINES TO THE VESSEL. TOTAL FW FLOW WILL REQUIRE THE ADDITION OF THIS VALUE TO ITS COUNTERPART WHICH IS LIKEWISE PROVIDED. NORMAL VALUE FOR TOTAL 100% FW FLOW IS ABOUT 10.0 EE+6 LB/HR. THIS IS A REFERENCE VALUE AND HAS NO QUALITY PT. WITH IT. IF A VALUE IS RECEIVED ASSUME GOOD QLTY ELSE ASSUME BAD. THE TRANSMITTER USED FOR MEASUREMENT IS CALIBRATED FOR NORMAL POWER OPERATION TEMPERATURE.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: MAIN FD FLOW

Point I.D.: FWFA

Plant-Specific Point Description: A FEEDWATER FLOW

Generic/Condensed Description: FW FLOW INTO RX SYSTEM

Analog/Digital : A

Engineering Units or Digital States: LB/HR

Engineering Units Conversion : LINEAR

Minimum Instrument Range: 0

Maximum Instrument Range: 6.0 EE+6

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: NOZZLES = EL147FTMSL, XMTRS = EL130FTMSL

Alarm or Trip Setpoints: NONE

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:

THIS VALUE IS THE MEASURE OF FW FLOW THROUGH ONE OF TWO FEED WATER SUPPLY LINES TO THE VESSEL. TOTAL FW FLOW WILL REQUIRE THE ADDITION OF THIS VALUE TO ITS COUNTERPART WHICH IS LIKEWISE PROVIDED. NORMAL VALUE FOR TOTAL 100% FW FLOW IS ABOUT 10.0 EE+6 LB/HR. THIS IS A REFERENCE VALUE AND HAS NO QUALITY PT. WITH IT. IF A VALUE IS RECEIVED ASSUME GOOD QLTY ELSE ASSUME BAD. THE TRANSMITTER USED FOR MEASUREMENT IS CALIBRATED FOR NORMAL POWER OPERATION TEMPERATURE.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: CR SPRAY FL

Point I.D.: CSB

Plant-Specific Point Description: CORE SPRAY B FLOW

Generic/Condensed Description: CORE SPRAY COOLING SYSTEM FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 7000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Serv: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: PUMP DISCHARGE

Alarm or Trip Setpoints: NONE

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 CP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

REFERENCE INFORMATION FOR ONE DIVISION OF CORE SPRAY. NORMAL FLOWRATE VARIES WITH INJECTION NEEDS. SYSTEM IS CAPABLE OF AUTO START FROM LOCA SIGNAL (DWPRESS=1.85 PSIG AND/OR RX WTR LVL = -10.1 IN.) INJECTION VALVES WILL NOT AUTO OPEN UNTIL RX PRESS IS LESS THAN 445 PSIG. INTERLOCK PREVENTS OPENING BOTH INJECTION VALVES AT SAME TIME UNTIL RX PRESS RESTRICTION IS MET (MANUAL OR AUTO OPERATION). THROTTLING CAPABILITY IS IMMEDIATE ONCE INJECTION VALVES ARE OPEN. NO QUALITY POINT PROVIDED. IF VALUE IS RECEIVED ASSUME GOOD QUALITY. ELSE ASSUME BAD.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: CR SPRAY FL

Point I.D.: CSA

Plant-Specific Point Description: CORE SPRAY A FLOW

Generic/Condensed Description: CORE SPRAY COOLING SYSTEM FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 7000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: PUMP DISCHARGE

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

REFERENCE INFORMATION FOR ONE DIVISION OF CORE SPRAY. NORMAL FLOWRATE VARIES WITH INJECTION NEEDS. SYSTEM IS CAPABLE OF AUTO START FROM LOCA SIGNAL (DWPRESS=1.85 PSIG AND/OR RE WTR LVL = -101 IN.) INJECTION VALVES WILL NOT AUTO OPEN UNTIL RX PRESS IS LESS THAN 445 PSIG. INTERLOCK PREVENTS OPENING BOTH INJECTION VALVES AT SAME TIME UNTIL RX PRESS RESTRICTION IS MET (MANUAL OR AUTO OPERATION). THROTTLING CAPABILITY IS IMMEDIATE ONCE INJECTION VALVES ARE OPEN. NO QUALITY POINT PROVIDED. IF VALUE IS RECEIVED ASSUME GOOD QUALITY. ELSE ASSUME BAD.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: SP LEVEL

Point I.D.: SPWL

Plant-Specific Point Description: TORUS WATER LEVEL

Generic/Condensed Description: SUPPRESSION POOL WATER LEVEL

Analog/Digital : A

Engineering Units or Digital States: INCHES

Engineering Units Conversion : 2 RANGES (133 TO 163) AND (0 TO 300)

Minimum Instrument Range: 0

Maximum Instrument Range: 300

Zero Reference Point: TNKBOT

Reference Point Notes: NORM LEV= 148; HI/LO ALARM = COMMON FLAG

Proc or Sens: P

Number of Sensors: 4

How Processed: NUMERICAL AVERAGE

Sensor Locations: ATTACHED TO SIDE OF SUPPRESSION CHAMBER

Alarm or Trip Setpoints: 150 HI /140 LO - COMMON NO QUAL TAG SENT

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: WET

Unique System Description:

4 DIFF PRESS TRANS FOR 2 RANGE OF MEASUREMENT. NORMALLY THE NARROW RANGE IS USED BY TAKING THE AVERAGE OF THE 2 READINGS IF AVAILABLE (LOGGED IN AND WITHIN CONVERSION RANGE). QUAL TAGS USED = 0 (BOTH NARROW RANGE AVAIL DIFF BETWEEN 2 ACCEPT AVG NOT HI/LO: 1 NARROW RANGE AND 1 OR 2 WIDE AVAIL DIFF BETWEEN NARROW AND EITHER WIDE ACCEPT NARROW READING NOT HI/LO: NO NARROW BUT 2 WIDE AVAIL WITH DIFF BETWEEN ACCEPT AND AVG NOT HI/LO): =2 (DIFF READING BETWEEN SENSORS NOT ACCEPT: ONLY 1 WIDE RANGE AVAIL: ONLY 1 NARROW RANGE AVAIL - IN EACH CASE READING NOT HI/LO); = 3 (NO SENSORS AVAIL).

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: REAC VES LEV

Point I.D.: RWL

Plant-Specific Point Description: RPV WATER LEVEL

Generic/Condensed Description: REACTOR VESSEL WATER LEVEL

Analog/Digital : A

Engineering Units or Digital States: INCHES

Engineering Units Conversion : REFERENCE = INSTRUMENT ZERO

Minimum Instrument Range: -317 INCH

Maximum Instrument Range: +400 INCH

Zero Reference Point: COMPLX

Reference Point Notes: INSTR ZERO IS BOTTOM OF STEAM DRYER

Proc or Sens:

Number of Sensors: 13

How Processed: NORMAL- WEIGHTED AVG / NOT NORM- NUM AVG

Sensor Locations: TRANSMITTERS OUT OF DRYWELL/REF LEGS IN

Alarm or Trip Setpoints: HI=42"+50 PSIG RX PRESS; LO=32 TAF=-164"

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: Y

Level Reference Leg: WET

Unique System Description:

5 OVERLAPPING RANGES, -317 TO -17, -317 TO 60, -150 TO 60, 0 TO 60, 0 TO 400 INCHES MEASURED BY 13 INSTRUMENTS. EACH INPUT COMPENSATED FOR DRYWELL TEMP AND RX WTR DENSITY CHANGE. IF COMPENSATION DATA IS NOT AVAILABLE NUMERICAL AVERAGING IS USED. QUALITY TAGS USED= 0; 2 = (ONLY 0 TO 400" BEING USED AND NOT IN REFUEL OR SHUTDOWN; ONLY 1 INST AVAIL / NOT 0 TO 400 / AND LEVEL NOT HI/LO); 3. ALARM SET POINTS PROVIDED : HI/LO COMMON FLAG TO OPERATOR / NO QUALITY TAG PROVIDED.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: STAB CLASS

Point I.D.: AS1

Plant-Specific Point Description: AIR STABILITY

Generic/Condensed Description: AIR STABILITY AT THE RX SITE

Analog/Digital : A

Engineering Units or Digital States: STABA

Engineering Units Conversion : N/A

Minimum Instrument Range: -10.0

Maximum Instrument Range: +10.0

Zero Reference Point: 10M

Reference Point Notes: MET TWR BASE AT APPROXIMATELY 135' MSL

Proc or Sens: S

Number of Sensors: 1

How Processed: TIMED AVERAGE OF READING

Sensor Locations: 100 METER PT ON MET TWR (REF= 10 METERS)

Alarm or Trip Setpoints: NONE

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

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

Instrument Failure Mode: COMPLX

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

DIFF TEMP IS COMPUTED BETWEEN 100 & 10 METERS. THIS VALUE IS AVERAGED OVER TIME AND USED DIRECTLY IN SOFTWARE TO PROVIDE A PASQUILL STABILITY CATEGORY AS FOLLOWS (A= DT .LE. -3.1 DEGF; B= DT .LE. -2.8 DEGF; C= DT .LE. -2.4 DEGF; D= DT .LE. -0.8 DEGF; E= DT .LE. +2.4 DEGF; F= DT .LE. +6.5 DEGF; G= DT .GT. +6.5 DEGF). NO QUALITY PT INFO PROVIDED, PT IS REF ONLY. (IF VALUE PRESENTED ASSUME GOOD QUAL ELSE ASSUME BAD). FOR CONVERSION OF SIGNAL, 10 METER VALUE IS DEDUCTED. 100 METER VALUE PROVIDED FOR ELEVATED RELEASE INFORMATION.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: WIND DIR

Point I.D.: WD1

Plant-Specific Point Description: WIND DIRECTION 100 METERS

Generic/Condensed Description: WIND DIR AT THE REACTOR SITE

Analog/Digital : A

Engineering Units or Digital States: DEGFR

Engineering Units Conversion : N/A

Minimum Instrument Range: 0

Maximum Instrument Range: 540

Zero Reference Point: NORTH

Reference Point Notes: MET TWR BASE AT APPROXIMATELY 135' MSL

Proc or Sens: S

Number of Sensors: 1

How Processed: TIMED AVERAGE OF READING

Sensor Locations: 100 METER POINT ON MET TOWER

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

TIMED AVG OF WIND DIR PROVIDED BY A SINGLE SENSOR. MET TWR IS APPROX 0.75 MILES FROM PLANT. PLANT ELEVATED RELEASE PT = 120 METERS HIGH (REF = 119.5' MSL). THIS SENSOR MEASURES 0 TO 540 DEG BY SUBTRACTING 360 DEG VOLTAGE VALUE FOR SIGNALS PAST 360 DEG. THE SENSOR IS ON TRUE NORTH AND MEASURES THE DIR THE WIND COMES FROM. (0 DEG = 360 DEG = NORTH; 90 DEG = 450 DEG = EAST; 180 DEG = 540 DEG = SOUTH; 270 DEG = WEST) QUAL PTS NOT PROVIDED. PT PROVIDES REF INFORMATION. IF VALUE RECEIVED, QUAL PT = GOOD ELSE QUAL PT = BAD. 100 METER VALUE PROVIDED FOR ELEVATED RELEASE INFORMATION.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: WIND SPEED

Point I.D.: WS1

Plant-Specific Point Description: WIND SPEED 100 METERS

Generic/Condensed Description: WIND SPEED AT THE REACTOR SITE

Analog/Digital : A

Engineering Units or Digital States: MPH

Engineering Units Conversion : N/A

Minimum Instrument Range: 0

Maximum Instrument Range: 100

Zero Reference Point: N/A

Reference Point Notes: MET TWR BASE AT APPROXIMATELY 135' MSL

Proc or Sens: S

Number of Sensors: 1

How Processed: TIMED AVERAGE OF READING

Sensor Locations: 100 METER PT ON MET TOWER

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

TIMED AVERAGE OF WIND SPEED AT 100 METER CALCULATED FROM A SINGLE SENSOR. TOWER LOCATION APPROXIMATELY 0.75 MILES FROM PLANT. PLANT ELEVATED RELEASE POINT = 120 METER HIGH REF TO 119.5' MSL. QUALITY POINT INFORMATION NOT PROVIDED. POINT IS REFERENCE INFORMATION. IF VALUE IS PROVIDED ASSUME QUALITY = GOOD, ELSE QUALITY = BAD. 100 METER VALUE PROVIDED FOR ELEVATED RELEASE INFORMATION.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: EFF GAS RAD

Point I.D.: MSTK

Plant-Specific Point Description: MAIN STACK RADIATION

Generic/Condensed Description: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital : A

Engineering Units or Digital States: UCI/CC

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: COMPLEX

Maximum Instrument Range: 1.0 EE+5

Zero Reference Point: N/A

Reference Point Notes: NORM RNG = CPS CONVERTED; WIDE = UCI/CC

Proc or Sens: P

Number of Sensors: 3

How Processed: NUMERICAL AVG OF NORM RNG; WIDE= 1 VALUE

Sensor Locations: INTERNAL TO MAIN STACK

Alarm or Trip Setpoints: WHEN AUTO SWAP TO WIDE RANGE OCCURS

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

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

Instrument Failure Mode: LOW (NO IWR; NO FLOW / LOW BACKGROUND)

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

3 INSTRUMENTS (2 AT 1.0EE-1 TO 1.0EE+6 CPS; 1 AT 5.0EE-3 TO 1.0EE+5 UCI/CC). WIDE RNG NOT USED UNTIL HI-HI SET PT OF EITHER NORM RNG IS MET. ALL CPS VALUES CONVERTED TO UCI/CC INITIALLY BY SOFTWARE. ALL SET PTS AND DWNSCALE VALS DEPEND ON CALIBRATION CONSTANTS. THESE VARY OVER FUEL CYCLE. AVAIL = WITHIN CONVERSION RNG. QUAL PTS USED = 0 (2 NORM AVAIL, DIFF BETWEEN IS ACCEPT AND NOT ON WIDE RNG - AVG OF 2 IS USED); =2 (1 NORM AVAIL OR 2 AVAIL WITH UNACCEPT DIFF BETWEEN); =3 (NO NORM RNG AVAIL - NOT ON WIDE RNG / ON WIDE RNG BUT IT IS NOT AVAIL); =6 (ON WIDE RNG AND IT IS AVAIL).

D.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: EFF LIQ RAD

Point I.D.: RW

Plant-Specific Point Description: RADWASTE EFFLUENT RADIATION

Generic/Condensed Description: RADIOACTIVITY OF RELEASED LIQUID

Analog/Digital : A

Engineering Units or Digital States: CPS

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: 1.0 EE-1

Maximum Instrument Range: 1.0 EE+6

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: IN RADWASTE LIQUID DISCHARGE LINE

Alarm or Trip Setpoints: HI SET PT CALCULATED FOR EACH DISCHARGE

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

Level Reference Leg: N/A

Unique System Description:

INSTRUMENT DOWNSCALE = 3 CPS. SET POINTS CALCULATED FOR EACH DISCHARGE PERMIT THEN INPUT BY RADWASTE OPERATOR. UNIT PROVIDES FOR AUTOMATIC ISOLATION OF DISCHARGE LINE AT HIGH SET POINT. NO QUALITY POINTS ASSOCIATED WITH THIS VALUE. IF READING IS PRESENTED ASSUME GOOD, IF NOT PRESENTED ASSUME BAD.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

16 of 30

Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: EFF LIQ RAD

Point I.D.: PSW

Point-Specific Point Description: PSW EFFLUENT RADIATION

Generic/Condensed Description: RADIOACTIVITY OF RELEASED LIQUID

Analog/Digital : A

Engineering Units or Digital States: CPS

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: 1.0 EE-1

Maximum Instrument Range: 1.0 EE+6

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: PSW TURBINE BLDG DISCHARGE LINE

Alarm or Trip Setpoints: VARIABLE / CALCULATED BY CHEMISTRY DEPT

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

Level Reference Leg: N/A

Unique System Description:

INSTRUMENT DOWN SCALE = 3 CPS. SET POINTS CHECKED AND CAN BE
RECALCULATED PERIODICALLY. UNIT PROVIDES ALARM FUNCTION AND
INFORMATION ONLY. NO QUALITY POINTS DIRECTLY ASSOCIATED WITH
THIS VALUE. READING IS JUST PRESENTED OR NOT PRESENTED. NO
READING ASSUME BAD POINT, ELSE ASSUME GOOD POINT.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: EFF GAS RAD

Point I.D.: RB1

Plant-Specific Point Description: REACTOR BLDG STACK RADIATION

Generic/Condensed Description: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital : A

Engineering Units or Digital States: UCI/CC

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: COMPLEX

Maximum Instrument Range: 1.0 EE+5

Zero Reference Point: N/A

Reference Point Notes: NORM RNG = CPM CONVERTED ; WIDE = UCI/CC

Proc or Sens: P

Number of Sensors: 3

How Processed: NUMERICAL AVG OF NORM RNG; WIDE =1 VALUE

Sensor Locations: INTERNAL TO REACTOR BLDG STACK

Alarm or Trip Setpoints: WHEN AUTO SWAP TO WIDE RANGE OCCURS

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

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

Instrument Failure Mode: LOW (NO PWR; NO FLOW / LOW BACKGROUND)

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

3 INSTRUMENTS (2 AT 1.0EE+1 TO 1.0EE+6 CPM; 1 AT 5.0EE-3 TO 1.0EE-5 UCI/CC) WIDE RNG NOT USED UNTIL HI SET PT OF EITHER NORM RNG IS MET. ALL CPM VALUES CONVERTED TO UCI/CC INITIALLY BY SOFTWARE. ALL SET PTS AND DWNSCALE VALS DEPEND ON CALIBRATION CONSTANTS. THESE VARY OVER FUEL CYCLE. AVAIL = WITHIN CONVERSION RNG. QUAL PTS USED = 0 (2 NORM AVAIL DIFF BETWEEN IS ACCEPT AND NOT ON WIDE RNG - AVG OF 2 IS USED), =2 (1 NORM AVAIL OR 2 AVAIL WITH NONACCEPT DIFF BETWEEN), =3 (NO NORM RNG AVAIL - NOT ON WIDE RNG / ON WIDE RNG BUT IT IS NOT AVAIL), =6 (ON WIDE RNG AND IT IS AVAIL).

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: DW RAD

Point I.D.: DWRA

Plant-Specific Point Description: WIDE RANGE DRYWELL RADIATION A

Generic/Condensed Description: RADIATION LEVEL IN THE DRYWELL

Analog/Digital : A

Engineering Units or Digital States: R/HR

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: 1

Maximum Instrument Range: 1.0 EE+7

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGULAR VALUE

Sensor Locations: IN DRYWELL

Alarm or Trip Setpoints: HI SET PT VARIABLE ; HI TRIP = 100 R/HR

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

Level Reference Leg: N/A

Unique System Description:

ONE OF TWO IDENTICAL WIDE RANGE DW ACCIDENT GM DETECTORS.
THESE DEVICES PROVIDE INFORMATION TO OPERATOR AND CAUSE THE
LARGE (18 IN.) VENT AND PURGE VALVES FOR THE DW TO STAY
CLOSED AT OR ABOVE 100 R/HR. AS WITH MOST RAD MONITORS THE
ALARM SET PTS ARE CHECKED AND RECALCULATED, IF NECESSARY, ON
A PERIODIC BASIS BY CHEM / HP PERSONNEL. NO QUALITY POINTS
ASSOCIATED WITH THIS VALUE. IF VALUE IS PRESENTED ASSUME
GOOD, IF VALUE NOT PRESENTED ASSUME BAD.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

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) ONLY WIDE USED

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: 2.5% 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 CVERIDE; SENSORS NOT OUT OF CONVERSION RNG. QUAL PTS =0 (BOTH H2 SENSORS AVAIL DIFF BETWEEN 2 IS ACCEPT - IF A VAL .GE. B USE A, ELSE USE B IF BOTH ALIGNED TO SAME PT, ELSE USE INDIV VAL / VAL NOT HI); = 2 (1 SENSOR AVAIL VAL NOT HI; 2 SENSORS AVAIL DIFF NOT ACCEPT / 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

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: DW RAD

Point I.D.: DWRB

Plant-Specific Point Description: WIDE RANGE DRYWELL RADIATION B

Generic/Condensed Description: RADIATION LEVEL IN THE DRYWELL

Analog/Digital : A

Engineering Units or Digital States: R/HR

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: 1

Maximum Instrument Range: 1.0 EE+7

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGULAR VALUE

Sensor Locations: IN DRYWELL

Alarm or Trip Setpoints: HI SET PT VARIABLE; HI TRIP = 100 R/HR

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

Level Reference Leg: N/A

Unique System Description:

ONE OF TWO IDENTICAL WIDE RANGE DW ACCIDENT GM DETECTORS.
THESE DEVICES PROVIDE INFORMATION TO OPERATOR AND CAUSE THE
LARGE (18 IN.) VENT AND PURGE VALVES FOR THE DW TO STAY
CLOSED AT OR ABOVE 100 R/HR. AS WITH MOST RAD MONITORS THE
ALARM SET PTS ARE CHECKED AND RECALCULATED, IF NECESSARY, ON
A PERIODIC BASIS BY CHEM / HP PERSONNEL. NO QUALITY POINTS
ASSOCIATED WITH THIS VALUE. IF VALUE IS PRESENTED ASSUME
GOOD, IF VALUE NOT PRESENTED ASSUME BAD.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: RCS PRESSURE

Point I.D.: RXPR

Plant-Specific Point Description: REACTOR PRESSURE

Generic/Condensed Description: REACTOR COOLANT SYSTEM PRESSURE

Analog/Digital : A

Engineering Units or Digital States: PSIG

Engineering Units Conversion : LINEAR

Minimum Instrument Range: 0

Maximum Instrument Range: 1500

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: P

Number of Sensors: 2

How Processed: NUMERICAL AVERAGE

Sensor Locations: SENSED BETWEEN VESSEL AND MSIVS

Alarm or Trip Setpoints: HI= 1054.00 PSIG (HI PRESS SCRAM = 1042)

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

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

Instrument Failure Mode: LOW (LOSS OF POWER)

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

TWO PRESS TRANS NUMERICALLY AVERAGED FOR SINGULAR VALUE OF RX VESSEL PRESS. READINGS ARE AVAIL IF LOGGED IN. QUAL TAGS USED =0 (BOTH SENSORS AVAIL, IN CONVERSION RANGE, NOT HI IN VALUE; ONLY ONE SENSOR IN RNG, NOT HI IN VALUE; BOTH SENSORS OUT OF RANGE IN SAME DIRECTION, NOT HI IN VALUE, HIGHEST READING SENSOR USED); =2 (ONLY 1 SENSOR IS AVAIL, NOT HI IN VALUE; DIFF BETWEEN SENSOR READINGS .GT. 50 PSIG, HIGHEST READING SENSOR USED, VALUE NOT HI); =3 (BOTH SENSORS NOT AVAIL ; BOTH SENSORS OUT OF RNG IN OPPOSITE DIRECTIONS); =6 (USED WHEN VALUE IS .GT. HI VALUE).

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: NI POWER RNG

Point I.D.: APRM

Plant-Specific Point Description: APRM AVERAGE READING - % POWER

Generic/Condensed Description: NUC INST PWR RNG

Analog/Digital : A

Engineering Units or Digital States: % (PERCENT)

Engineering Units Conversion : 1% = 1 PERCENT POWER

Minimum Instrument Range: 0

Maximum Instrument Range: 125

Zero Reference Point: N/A

Reference Point Notes: 93 FISS CHMBRS AVERAGED BY 6 APRMS

Proc or Sens: P

Number of Sensors: 6

How Processed: NUMERICAL AVERAGE OF AVAILABLE APRMS

Sensor Locations: FISS CHMBR IN 4 CORE QUADS AT 4 HEIGHTS

Alarm or Trip Setpoints: SCRAM=FLOW BIAS,CLAMP=117.0%;120%;15% HI

NI Detector Power Supply Cut-Off Power Level: DOWNSCALE = 3%

NI Detector Power Supply Turn-On Power Level: GREATER THAN 3%

Instrument Failure Mode: LOW = 3%; .LE. 11 LPRMS; POWER

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

APRM READINGS ARE NUMERICALLY AVERAGED FOR VALUE. QUAL TAGS
USED = 0; =2(LESS THAN 5 APRMS AVAIL AND READING NOT AT
TRIP POINT); =3 NO APRMS AVAIL; =6(APRM AVERAGE POWER .GE.
SET POINT). TRIP SET POINTS ARE BIASED IN THE RUN MODE FOR
RECIRC FLOW; CLAMP AT 117.0%, TIME DELAY FOR THIS TRIP.
HI POWER TRIP (NO BIAS, NO DELAY) = 120%. UNIT OUT OF RUN
MODE SET POINT = 15%. NO QUALITY TAG FOR 120% TRIP.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

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 : NONLINEAR TO 11% THEN LINEAR, CURVE ATT

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.

DATA: 0-2 CONC

METER READING

0-2 CONC

0-2 CONC

0-2 CONC

0-2 CONC

0% 7%

6 TO 7%

0% 3.5%

3.5% 6.9%

6.9% 21%

21% 30%

6 TO 8.5%

21% 30%

30%

30%

30%

30%

30%

30%

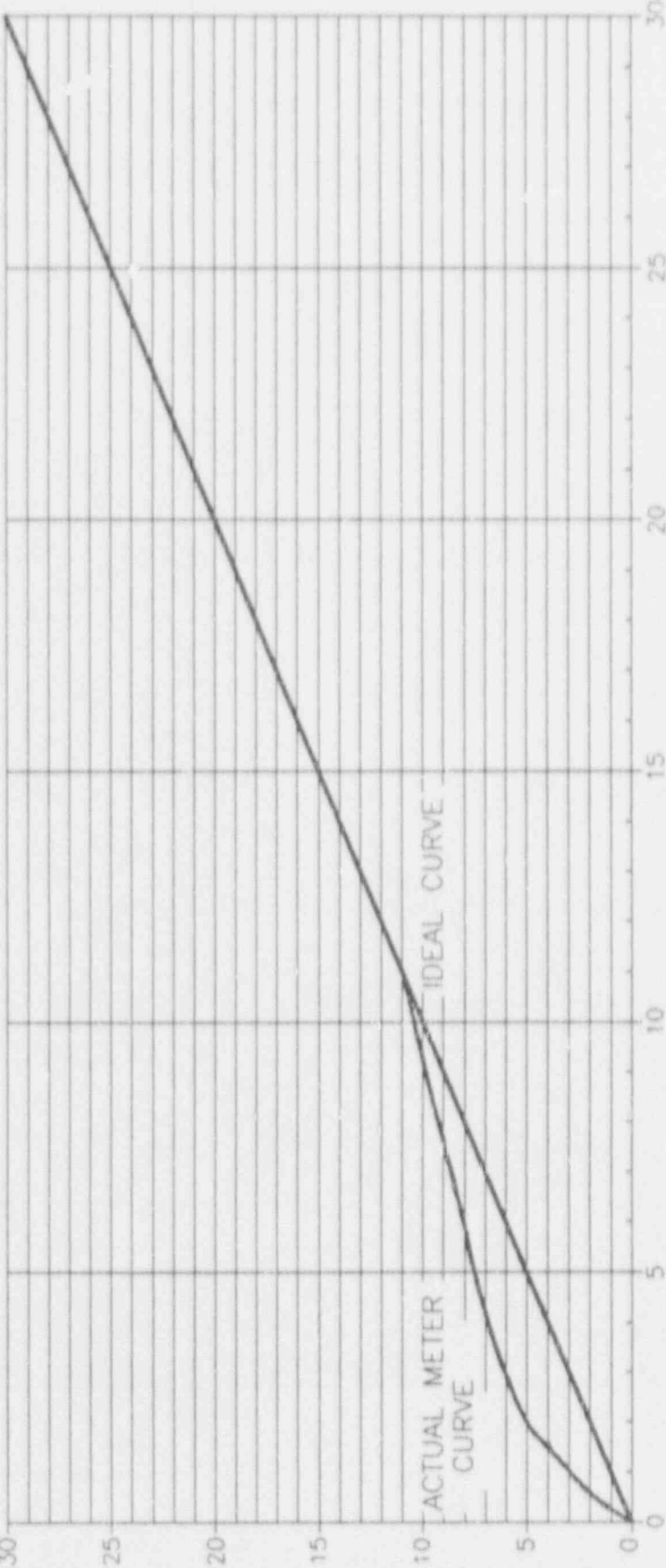
30%

30%

30%

30%

% 0-2 METER READING



ACTUAL 0-2 CONCENTRATION

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

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: NI SOURC RNG

Point I.D.: SRMS

Plant-Specific Point Description: AVERAGE SRM READING

Generic/Condensed Description: NUCLEAR INSTRUMENTS, SOURCE RANGE

Analog/Digital : A

Engineering Units or Digital States: CPS

Engineering Units Conversion : LOG BASE 10 OF CONVERTED VALUE

Minimum Instrument Range: 1.0 EE-1 CPS

Maximum Instrument Range: 1.0 EE+6 CPS

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: P

Number of Sensors: 4

How Processed: NUMERICAL AVERAGE

Sensor Locations: MOVABLE DETECTORS 1 IN EACH CORE QUAD

Alarm or Trip Setpoints: NONE

NI Detector Power Supply Cut-Off Power Level: .LE. 5 CPS

NI Detector Power Supply Turn-On Power Level: .GT. 5 CPS

Instrument Failure Mode: LOW / DUE TO POWER OR INPUT

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

FOUR GAMMA DISCRIMINATED PROPORTIONAL DETECTORS.
READINGS AVAIL IF DETECTOR FULL IN OR FULL OUT; NOT LOGGED
OUT. QUALITY POINTS = 0 OR 3. 3 = AVAILABLE SENSORS NOT FULL
IN OR FULL OUT OR DIGITAL STATUS NOT AVAILABLE TO DETERMINE
POSITION. DETECTORS ARE RETRACTED DURING STARTUP TO HOLD
BETWEEN 1.0 EE+3 TO 1.0 EE+5 CPS. WHEN PROPER INTERMEDIATE
RANGE OBTAINED DETECTORS ARE FULLY RETRACTED.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Faeder: N/A

NRC ERDS Parameter: DW TEMP

Point I.D.: DWTE

Plant-Specific Point Description: DRYWELL TEMPERATURE

Generic/Condensed Description: DRYWELL TEMPERATURE

Analog/Digital : A

Engineering Units or Digital States: DEGF

Engineering Units Conversion : N/A

Minimum Instrument Range: 0

Maximum Instrument Range: 500

Zero Reference Point: N/A

Reference Point Notes: INST = RTDS, 32 DEGF = LO RANGE

Proc or Sens: P

Number of Sensors: 14

How Processed: WEIGHTED NUMERICAL AVERAGE

Sensor Locations: INSIDE DRYWELL

Alarm or Trip Setpoints: 135 DEGF HI

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

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

Instrument Failure Mode: HIGH

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

FOURTEEN RTDS FROM VARIOUS AREAS OF DRYWELL, AVERAGED TO
PROVIDE SINGULAR DRYWELL TEMP READING. INSTR'S ARBITRARILY
PLACED IN 3 GROUPS FOR CALCULATION. AVAIL INSTRUMENT= LOGGED
IN AND WITHIN CONVERSION RANGE. QUALITY TAGS USED =0 (AT
LEAST 2 INSTRUMENTS AVAIL PER GROUP AND AVERAGE NOT HI); =2
(TWO GROUPS ONLY HAVE AVAIL SENSORS AND AVERAGE NOT HI; 3
GROUPS HAVE AVAIL SENSORS BUT ONE OR MORE ONLY HAVE ONE
AVAIL SENSOR AND AVERAGE NOT HI); =3 (NO GROUPS OR ONLY ONE
GROUP HAVE AVAIL SENSORS); =6 (AVAIL AVERAGE READING IS H.)

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: SP TEMP

Point I.D.: SPWT

Plant-Specific Point Description: TORUS WATER TEMP

Generic/Condensed Description: SUPPRESSION POOL TEMPERATURE

Analog/Digital : A

Engineering Units or Digital States: DEGF

Engineering Units Conversion : 2 SENSOR RANGES USED (50 - 250; 0 - 500)

Minimum Instrument Range: 0

Maximum Instrument Range: 500

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: P

Number of Sensors: 15

How Processed: NUMERICAL AVERAGE

Sensor Locations: UF AND LOW AREAS OF POOL WATER SPACE

Alarm or Trip Setpoints: 100 DEGF HI (ALARM)

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

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

Instrument Failure Mode: HIGH

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

15 RTDS SPACED CIRCUMFERENTIALLY THROUGHOUT THE TORUS WATER SPACE AT 2 LEVELS. THE READINGS ARE CHECKED FOR AVAILABILITY (SENSORS WITHIN CONVERSION RANGE). THE READINGS ARE AVERAGED NUMERICALLY BASED ON 2 GROUPINGS OF SENSORS. 11 SENSORS HAVE A 50 TO 250 DEGF RANGE AND TEND TO MEASURE THE LOWER AREA WTR. 4 SENSORS ARE 0 TO 500 DEGF AND MEASURE UPPER. QUAL PTS USED =0 (ALL SENSORS IN UPPER LEVEL AVAIL, UP TO 2 NOT AVAIL IN LOW GROUP, RESULT NOT HI); 2 (1 SENSOR NOT AVAIL. IN UPPER GROUP OR MORE THAN 2 NOT AVAIL. IN LOW GROUP AND AVG. NOT HI); 3 (NO SENSORS AVAIL OR NONE IN GP2); 6 (RES AVG HI)

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: DW PRESS

Point I.D.: DWPR

Plant-Specific Point Description: DRYWELL PRESSURE

Generic/Condensed Description: DRYWELL PRESSURE

Analog/Digital : A

Engineering Units or Digital States: PSIG

Engineering Units Conversion : 3 RANGES OF PRESS REFERENCED TO 0 PSIG

Minimum Instrument Range: -10 PSIG

Maximum Instrument Range: 250 PSIG

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: P

Number of Sensors: 6

How Processed: NUMERICAL AVG OF 2 SENSORS IN 1 RANGE

Sensor Locations: PRESS SENSED DIRECT FROM DW/INST OUTSIDE

Alarm or Trip Setpoints: HI 1.92 PSIG(RX SCRAM/ECCS AT 1.85 PSIG)

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

Level Reference Leg: N/A

Unique System Description:

3 PRESS RANGES SENSED BY 6 TRANS RANGES = -5 TO 5, -10 TO 90, 0 TO 250 PSIG. TWO TRANS READINGS PER RANGE AVERAGED FOR SINGLE VALUE (LOWEST RANGE USED IF AVAIL, IF NOT, AVG THE 2 TRANSMITTER READINGS FOR THE NEXT RANGE AND SO ON). QUAL PTS USED = 0 (2 SENSORS AVAIL/LOGGED IN - WITHIN RANGE; 1 SENSOR AVAIL AND WITHIN ACCEPTED DIFF OF 1 AVAIL SENSOR IN NEXT IMMEDIATE RANGE - IN BOTH CASES READING NOT HI); =2 (BOTH SENSORS AVAIL BUT DIFF BETWEEN THEM IS NOT WITHIN ACCEPT LIMIT; ONLY 1 WIDE RANGE SENSOR AVAIL, VALUE NOT HI); =3 (NO SENSORS AVAIL); =6 (CALC VALUE IS HI).

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT1

Data Feeder: N/A

NRC ERDS Parameter: CST LEVEL

Point I.D.: CST

Plant-Specific Point Description: CST LEVEL

Generic/Condensed Description: CONDENSATE STORAGE TANK LEVEL

Analog/Digital : A

Engineering Units or Digital States: FEET

Engineering Units Conversion : 1' APPROXIMATELY = TO 12,710 GALLONS

Minimum Instrument Range: 0

Maximum Instrument Range: 40

Zero Reference Point: EL 130

Reference Point Notes: EL 130' IS GRADE ELEV FOR TANK / 40'=1'0

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE SENSOR

Sensor Locations: ON CST

Alarm or Trip Setpoints: LO = 34 "

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

Level Reference Leg: N/A

Unique System Description:

TANK APPROXIMATELY 500,000 GALLON CAPACITY. NORMAL OPERATING PROCEDURE LIMITS LEVEL TO 15' MINIMUM. 34 INCH LOW LEVEL IS ACTUALLY SWAPOVER POINT FOR HPCI/RCIC NORMAL SUCTION SOURCE. SWAP IS TO SUPPRESSION POOL. QUALITY POINTS NOT ASSOCIATED WITH THIS VALUE. THESE ARE USED ONLY WITH COMPOSED POINTS. VALUES PRESENTED OR NOT PRESENTED. IF VALUE IS NOT PRESENTED AT ALL - A BAD QUALITY IS ASSUMED, ELSE A GOOD QUALITY IS ASSUMED. EL 130' IS 130' ABOVE MEAN SEA LEVEL.

E.I.Hatch Unit 1
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: KT2

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) ONLY WIDE USED

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: 2.5% 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 DIFF BETWEEN 2 IS ACCEPT - IF A VAL .GE. B USE A, ELSE USE B IF BOTH ALIGNED TO SAME PT, ELSE USE INDIV VAL / VAL NOT HI); = 2 (1 SENSOR AVAIL VAL NOT HI; 2 SENSORS AVAIL DIFF NOT ACCEPT / VAL USED NOT HI);=3(NO SENSORS AVAIL OR SENSORS SAMPLING SAME POINT THEREFORE OTHER POINT NOT AVAIL BY DEFAULT); =6(VALUE PROVIDED=HI).

L.I.Hatch Unit 1
NRC - Emergency Response Data System
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Date: 02/11/92

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 : NONLINEAR TO 11% THEN LINEAR, CURVE ATT

Minimum Instrument Range: 0

Maximum Instrument Range: 30

Zero Reference Point: N/A

Reference Point Noted: N/A

Proc or Sens: P

Number of Sensors: 2

How Processed: HIGHEST IF BOTH SAMPLING SAME POINT

Sensor Locations: SUPP CHMBR 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

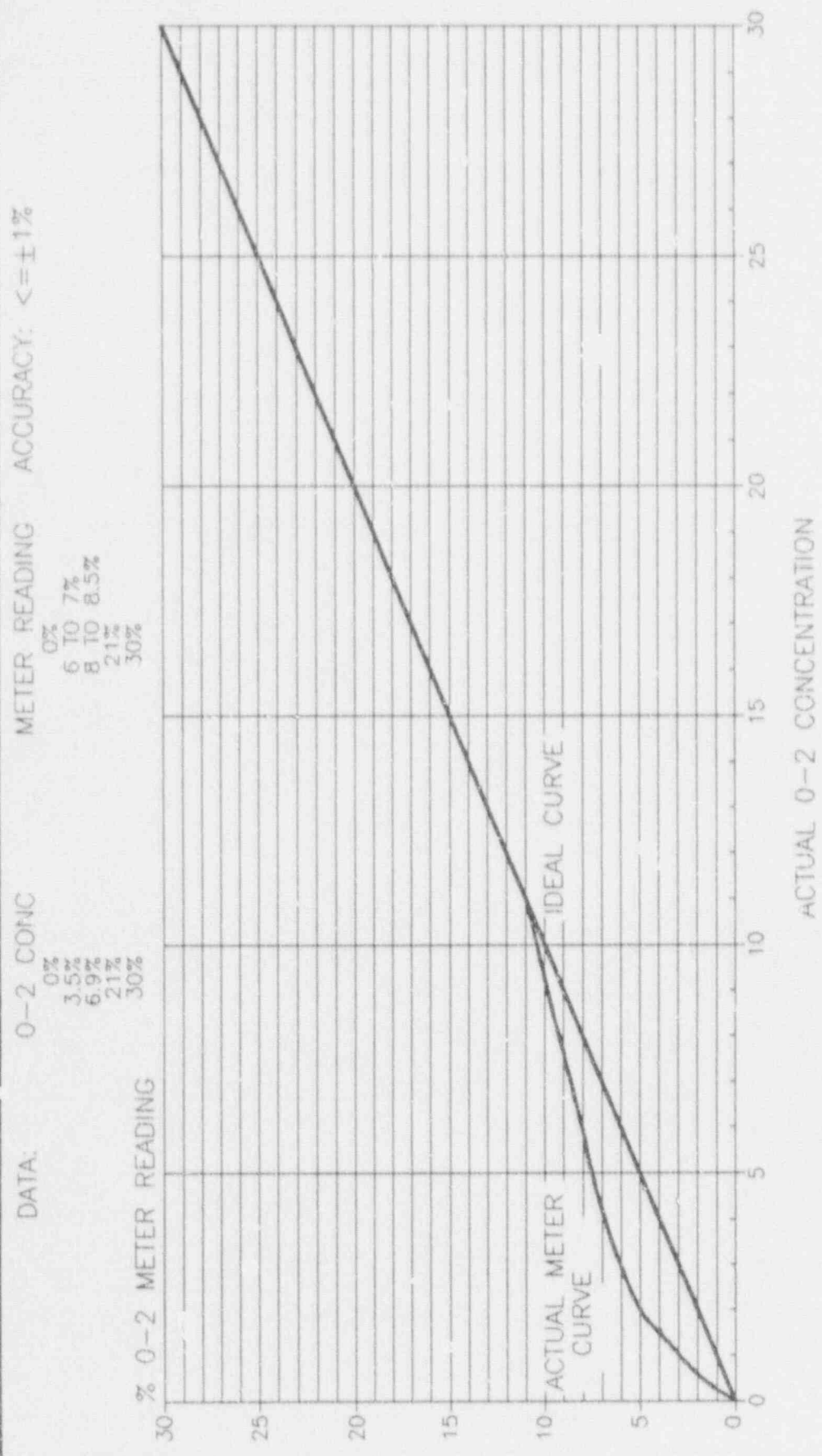
Instrument Failure Mode: N/A

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 2
NRC - EMERGENCY RESPONSE DATA SYSTEM
Data Point Library

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E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: RCIC FLOW

Point I.D.: RCIC

Plant-Specific Point Description: RCIC FLOW

Generic/Condensed Description: RX CORE ISOLATION COOLING FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 500

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: ON PUMP DISCHARGE LINE

Alarm or Trip Setpoints: HI RX LEV TRIP = 51.7 IN.

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

Level Reference Leg: N/A

Unique System Description:

THIS POINT PROVIDES REFERENCE INFORMATION TO THE OPERATOR.
NO QUALITY TAG WILL BE PROVIDED; IF VALUE RECEIVED ASSUME
QUALITY = GOOD, ELSE ASSUME BAD. THE RCIC TURBINE DRIVEN PMP
IS DESIGNED TO PRODUCE 400 GPM AT APPROXIMATELY 1050 PSIG RX
PRESS. IT WILL AUTO START AT -35 IN RX LEVEL (REF=INST ZERO)
. NORMAL SUCTION SOURCE = CST. SUCTION WILL AUTO SWAP TO THE
SUPP POOL AT APPROXIMATELY 10,000 GAL. IN THE CST.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: HPCI FLOW

Point I.D.: HPCI

Plant-Specific Point Description: HPCI FLOW

Generic/Condensed Description: HP COOLANT INJECTION FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 5000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: PUMP DISCHARGE PIPE

Alarm or Trip Setpoints: HI LEV TRIP = 51.7 IN RX LEVEL

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

Level Reference Leg: N/A

Unique System Description:

THIS INFORMATION IS FOR OPERATOR REFERENCE NORMAL HPCI FLOW REQUIREMENTS ARE TO DELIVER 4250 GPM INTO THE REACTOR VESSEL AT A PRESSURE OF .GE. 1080 PSIG. HPCI HAS AN AUTO START CAPABILITY ON LOW WATER LEVEL (-35 IN. FROM INST. ZERO) AND HI DRYWELL PRESSURE (1.85 PSIG). QUALITY POINT NOT PROVIDED. ASSUME A DELIVERED VALUE = GOOD / NO VALUE = BAD. NORMAL SUCTION = CST WITH AUTO SWAPOVER TO THE SUPP POOL AT APPROX 10,000 GAL CST LEVEL.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: LPCI FLOW

Point I.D.: RHRB

Plant-Specific Point Description: RHR FLOW B LOOP

Generic/Condensed Description: LP COOLANT INJECTION FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 25000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE / NO QUALITY POINT PROVIDED

Sensor Locations: COMMON DISCHARGE LINE FOR BOTH PUMPS

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

THIS VALUE PROVIDES THE FLOWRATE FOR ONE OF TWO LOOPS OF THE RESIDUAL HEAT REMOVAL SYSTEM. THE LOOP (OR DIVISION) HAS TWO REDUNDANT PUMPS (EITHER OR BOTH CAN BE RUN) DISCHARGING INTO A COMMON HEADER. DIVISIONS (OR LOOPS) ARE ISOLATED FROM EACH OTHER. MAX FLOWRATE ALLOWED WITH HEAT EXCH BYPASS OPEN = 17000 ;WITH IT SHUT=11500 GPM. SINGLE PUMP FLOW MAX RANGE = 7700 TO 8200. LPCI OPERATIONAL MODE IS AUTOMATIC UPON A LOCA SIGNAL (DWPRESS=1.85 PSIG OR RWL = -101 IN REF TO INST ZERO) LPCI INJECTION VALVES WILL NOT ALIGN FOR INJECTION UNTIL RX PRESS .LL. 425 PSIG. LPCI THROTTLE IS POSS. AFTER TIME DELAY

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: LPCI FLOW

Point I.D.: RHRA

Plant-Specific Point Description: RHR FLOW A LOOP

Generic/Condensed Description: LP COOLANT INJECTION FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 25000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE / NO QUALITY POINT PROVIDED

Sensor Locations: COMMON DISCHARGE LINE FOR BOTH PUMPS

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

THIS VALUE PROVIDES THE FLOWRATE FOR ONE OF TWO LOOPS OF THE RESIDUAL HEAT REMOVAL SYSTEM. THE LOOP (OR DIVISION) HAS TWO REDUNDANT PUMPS (EITHER OR BOTH CAN BE RUN) DISCHARGING INTO A COMMON HEADER. DIVISIONS (OR LOOPS) ARE ISOLATED FROM EACH OTHER. MAX FLOWRATE ALLOWED WITH HEAT EXCH BYPASS OPEN = 17000 ;WITH IT SHUT=11500 GPM. SINGLE PUMP FLOW MAX RANGE = 7700 TO 6200. LPCI OPERATIONAL MODE IS AUTOMATIC UPON A LOCA SIGNAL (DWPRESS=1.85 PSIG OR RWL = -101 IN REF TO INST ZERO) LPCI INJECTION VALVES WILL NOT ALIGN FOR INJECTION UNTIL RX PRESS .LE. 425 PSIG. LPCI THROTTLE IS POSS. AFTER TIME DELAY

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: MAIN FD FLOW

Point I.D.: FWFB

Plant-Specific Point Description: B FEEDWATER FLOW

Generic/Condensed Description: FW FLOW INTO RX SYSTEM

Analog/Digital : A

Engineering Units or Digital States: LB/HR

Engineering Units Conversion : LINEAR

Minimum Instrument Range: 0

Maximum Instrument Range: 6.0 EE+6

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: NOZZLES = EL147FTMSL, XMTRS = EL130FTMSL

Alarm or Trip Setpoints: NONE

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:

THIS VALUE IS THE MEASURE OF FW FLOW THROUGH ONE OF TWO FEED WATER SUPPLY LINES TO THE VESSEL. TOTAL FW FLOW WILL REQUIRE THE ADDITION OF THIS VALUE TO ITS COUNTERPART WHICH IS LIKEWISE PROVIDED. NORMAL VALUE FOR TOTAL 100% FW FLOW IS ABOUT 10.0 EE+6 LB/HR. THIS IS A REFERENCE VALUE AND HAS NO QUALITY PT. WITH IT. IF A VALUE IS RECEIVED ASSUME GOOD QLTY ELSE ASSUME BAD. THE TRANSMITTER USED FOR MEASUREMENT IS CALIBRATED FOR NORMAL POWER OPERATION TEMPERATURE.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: MAIN FD FLOW

Point I.D.: FWFA

Plant-Specific Point Description: A FEEDWATER FLOW

Generic/Condensed Description: FW FLOW INTO RX SYSTEM

Analog/Digital : A

Engineering Units or Digital States: LB/HR

Engineering Units Conversion : LINEAR

Minimum Instrument Range: 0

Maximum Instrument Range: 6.0 EE+6

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: NOZZLES = EL147FTMSL, XMTRS = EL130FTMSL

Alarm or Trip Setpoints: NONE

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:

THIS VALUE IS THE MEASURE OF FW FLOW THROUGH ONE OF TWO FEED WATER SUPPLY LINES TO THE VESSEL. TOTAL FW FLOW WILL REQUIRE THE ADDITION OF THIS VALUE TO ITS COUNTERPART WHICH IS LIKEWISE PROVIDED. NORMAL VALUE FOR TOTAL 100% FW FLOW IS ABOUT 10.0 EE+6 LB/HR. THIS IS A REFERENCE VALUE AND HAS NO QUALITY PT. WITH IT. IF A VALUE IS RECEIVED ASSUME GOOD QLTY ELSE ASSUME BAD. THE TRANSMITTER USED FOR MEASUREMENT IS CALIBRATED FOR NORMAL POWER OPERATION TEMPERATURE.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: CR SPRAY FL

Point I.D.: CSB

Plant-Specific Point Description: CORE SPRAY B FLOW

Generic/Condensed Description: CORE SPRAY COOLING SYSTEM FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 7000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: PUMP DISCHARGE

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

REFERENCE INFORMATION FOR ONE DIVISION OF CORE SPRAY. NORMAL FLOWRATE VARIES WITH INJECTION NEEDS. SYSTEM IS CAPABLE OF AUTO START FROM LOCA SIGNAL (DWPRESS=1.85 PSIG AND/OR RX WTR LVL = -101 IN.) INJECTION VALVES WILL NOT AUTO OPEN UNTIL RX PRESS IS LESS THAN 425 PSIG. INTERLOCK PREVENTS OPENING BOTH INJECTION VALVES AT SAME TIME UNTIL RX PRESS RESTRICTION IS MET (MANUAL OR AUTO OPERATION). THROTTLING CAPABILITY IS IMMEDIATE ONCE INJECTION VALVES ARE OPEN. NO QUALITY POINT PROVIDED. IF VALUE IS RECEIVED ASSUME GOOD QUALITY. ELSE ASSUME BAD.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: CR SPRAY FL

Point I.D.: CSA

Plant-Specific Point Description: CORE SPRAY A FLOW

Generic/Condensed Description: CORE SPRAY COOLING SYSTEM FLOW

Analog/Digital : A

Engineering Units or Digital States: GPM

Engineering Units Conversion : SQUARE ROOT

Minimum Instrument Range: 0

Maximum Instrument Range: 7000

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: PUMP DISCHARGE

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

REFERENCE INFORMATION FOR ONE DIVISION OF CORE SPRAY. NORMAL FLOWRATE VARIES WITH INJECTION NEEDS. SYSTEM IS CAPABLE OF AUTO START FROM LOCA SIGNAL (DWPRESS=1.85 PSIG AND/OR RX WTR LVL = -101 IN.) INJECTION VALVES WILL NOT AUTO OPEN UNTIL RX PRESS IS LESS THAN 425 PSIG. INTERLOCK PREVENTS OPENING BOTH INJECTION VALVES AT SAME TIME UNTIL RX PRESS RESTRICTION IS MET (MANUAL OR AUTO OPERATION). THROTTLING CAPABILITY IS IMMEDIATE ONCE INJECTION VALVES ARE OPEN. NO QUALITY POINT PROVIDED. IF VALUE IS RECEIVED ASSUME GOOD QUALITY, ELSE ASSUME BAD.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: SP LEVEL

Point I.D.: SPWL

Plant-Specific Point Description: TORUS WATER LEVEL

Generic/Condensed Description: SUPPRESSION POOL WATER LEVEL

Analog/Digital : A

Engineering Units or Digital States: INCHES

Engineering Units Conversion : 2 RANGES (133 TO 163) AND (0 TO 300)

Minimum Instrument Range: 0

Maximum Instrument Range: 300

Zero Reference Point: TNKBOT

Reference Point Notes: NORM LEV= 148; HI/LO ALARM = COMMON FLAG

Proc or Sens: P

Number of Sensors: 4

How Processed: NUMERICAL AVERAGE

Sensor Locations: ATTACHED TO SIDE OF SUPPRESSION CHAMBER

Alarm or Trip Setpoints: 150 HI /146 LO - COMMON NO QUAL TAG SENT

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: WET

Unique System Description:

4 DIFF PRESS TRANS FOR 2 RANGE OF MEASUREMENT. NORMALLY THE NARROW RANGE IS USED BY TAKING THE AVERAGE OF THE 2 READINGS IF AVAILABLE (LOGGED IN AND WITHIN CONVERSION RANGE). QUAL TAGS USED = 0 (BOTH NARROW RANGE AVAIL DIFF BETWEEN 2 ACCEPT AVG NOT HI/LO: 1 NARROW RANGE AND 1 OR 2 WIDE AVAIL DIFF BETWEEN NARROW AND EITHER WIDE ACCEPT NARROW READING NOT HI/LO: NO NARROW BUT 2 WIDE AVAIL WITH DIFF BETWEEN ACCEPT AND AVG NOT HI/LO): =2 (DIFF READING BETWEEN SENSORS NOT ACCEPT: ONLY 1 WIDE RANGE AVAIL: ONLY 1 NARROW RANGE AVAIL - IN EACH CASE READING NOT HI/LO); = 3 (NO SENSORS AVAIL).

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: REAC VES LEV

Point I.D.: RWL

Plant-Specific Point Description: RFV WATER LEVEL

Generic/Condensed Description: REACTOR VESSEL WATER LEVEL

Analog/Digital : A

Engineering Units or Digital States: INCHES

Engineering Units Conversion : REFERENCE = INSTRUMENT ZERO

Minimum Instrument Range: -317 INCH

Maximum Instrument Range: +400 INCH

Zero Reference Point: COMPLX

Reference Point Notes: INSTR ZERO IS BOTTOM OF STEAM DRYER

Proc or Sens: P

Number of Sensors: 13

How Processed: NORMAL- WEIGHTED AVG / NOT NORM- NUM AVG

Sensor Locations: TRANSMITTERS OUT OF DRYWELL/REF LEGS IN

Alarm or Trip Setpoints: HI=42"+50 PSIG RX PRESS; LO=32 TAF=-164"

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: Y

Level Reference Leg: WET

Unique System Description:

5 OVERLAPPING RANGES, -317 TO -17, -317 TO 60, -150 TO 60, 0 TO 60, 0 TO 400 INCHES MEASURED BY 13 INSTRUMENTS. EACH INPUT COMPENSATED FOR DRYWELL TEMP AND RX WTR DENSITY CHANGE. IF COMPENSATION DATA IS NOT AVAILABLE NUMERICAL AVERAGING IS USED. QUALITY TAGS USED= 0, 2 = (ONLY 0 TO 400" BEING USED AND NOT IN REFUEL OR SHUTDOWN, ONLY 1 INST AVAIL / NOT 0 TO 400 / AND LEVEL NOT HI/LO); 3. ALARM SET POINTS PROVIDED: HI/LO COMMON FLAG TO OPERATOR / NO QUALITY TAG PROVIDED.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: STAB CLASS

Point I.D.: AS1

Plant-Specific Point Description: AIR STABILITY

Generic/Condensed Description: AIR STABILITY AT THE RX SITE

Analog/Digital : A

Engineering Units or Digital States: STABA

Engineering Units Conversion : N/A

Minimum Instrument Range: -10.0

Maximum Instrument Range: +10.0

Zero Reference Point: 10M

Reference Point Notes: MET TWR BASE AT APPROXIMATELY 135' MSL

Proc or Sens: S

Number of Sensors: 1

How Processed: TIMED AVERAGE OF READING

Sensor Locations: 100 METER PT ON MET TWR (REF= 10 METERS)

Alarm or Trip Setpoints: NONE

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

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

Instrument Failure Mode: COMPLX

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

DIFF TEMP IS COMPUTED BETWEEN 100 & 10 METERS. THIS VALUE IS AVERAGED OVER TIME AND USED DIRECTLY IN SOFTWARE TO PROVIDE A PASQUILL STABILITY CATEGORY AS FOLLOWS (A= DT .LE. -3.1 DEGF; B= DT .LE. -2.8 DEGF; C= DT .LE. -2.4 DEGF; D= DT .LE. -0.8 DEGF; E= DT .LE. +2.4 DEGF; F= DT .LE. +6.5 DEGF; G= DT .GT. +6.5 DEGF). NO QUALITY PT INFO PROVIDED, PT IS REF ONLY. (IF VALUE PRESENTED ASSUME GOOD QUAL ELSE ASSUME BAD). FOR CONVERSION OF SIGNAL, 10 METER VALUE IS DEDUCTED. 100 METER VALUE PROVIDED FOR ELEVATED RELEASE INFORMATION.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: WIND DIR

Point I.D.: WD1

Plant-Specific Point Description: WIND DIRECTION 100 METERS

Generic/Condensed Description: WIND DIR AT THE REACTOR SITE

Analog/Digital : A

Engineering Units or Digital States: DEGFR

Engineering Units Conversion : N/A

Minimum Instrument Range: 0

Maximum Instrument Range: 540

Zero Reference Point: NORTH

Reference Point Notes: MET TWR BASE AT APPROXIMATELY 135' MSL

Proc or Sens: S

Number of Sensors: 1

How Processed: TIMED AVERAGE OF READING

Sensor Locations: 100 METER POINT ON MET TOWER

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

TIMED AVG OF WIND DIR PROVIDED BY A SINGLE SENSOR. MET TWR IS APPROX 0.75 MILES FROM PLANT. PLANT ELEVATED RELEASE PT = 120 METERS HIGH (REF = 119.5' MSL). THIS SENSOR MEASURES 0 TO 540 DEG BY SUBTRACTING 360 DEG VOLTAGE VALUE FOR SIGNALS PAST 360 DEG. THE SENSOR IS ON TRUE NORTH AND MEASURES THE DIR THE WIND COMES FROM. (0 DEG = 360 DEG = NORTH; 90 DEG = 450 DEG = EAST; 180 DEG = 540 DEG = SOUTH; 270 DEG = WEST) QUAL PTS NOT PROVIDED. PT PROVIDES REF INFORMATION. IF VALUE RECEIVED, QUAL PT = GOOD ELSE QUAL PT = BAD. 100 METER VALUE PROVIDED FOR ELEVATED RELEASE INFORMATION.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: WIND SPEED

Point I.D.: 2S1

Plant-Specific Point Description: WIND SPEED 100 METERS

Generic/Condensed Description: WIND SPEED AT THE REACTOR SITE

Analog/Digital : A

Engineering Units or Digital States: MPH

Engineering Units Conversion : N/A

Minimum Instrument Range: 0

Maximum Instrument Range: 100

Zero Reference Point: N/A

Reference Point Notes: MET TWR BASE AT APPROXIMATELY 135' MSL

Proc or Sens: S

Number of Sensors: 1

How Processed: TIMED AVERAGE OF READING

Sensor Locations: 100 METER PT ON MET TOWER

Alarm or Trip Setpoints: NONE

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

Level Reference Leg: N/A

Unique System Description:

TIMED AVERAGE OF WIND SPEED AT 100 METER CALCULATED FROM A SINGLE SENSOR. TOWER LOCATION APPROXIMATELY 0.75 MILES FROM PLANT. PLANT ELEVATED RELEASE POINT = 120 METER HIGH REF TO 119.5 MSL. QUALITY POINT INFORMATION NOT PROVIDED. POINT IS REFERENCE INFORMATION. IF VALUE IS PROVIDED ASSUME QUALITY = GOOD, ELSE QUALITY = BAD. 100 METER VALUE PROVIDED FOR ELEVATED RELEASE INFORMATION.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: EFF GAS RAD

Point I.D.: MSTK

Plant-Specific Point Description: MAIN STACK RADIATION

Generic/Condensed Description: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital : A

Engineering Units or Digital States: UCI/CC

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: COMPLEX

Maximum Instrument Range: 1.0 EE+5

Zero Reference Point: N/A

Reference Point Notes: NORM RNG = CPS CONVERTED; WIDE = UCI/CC

Proc or Sens: P

Number of Sensors: 3

How Processed: NUMERICAL AVG OF NORM RNG; WIDE= 1 VALUE

Sensor Locations: INTERNAL TO MAIN STACK

Alarm or Trip Setpoints: WHEN AUTO SWAP TO WIDE RANGE OCCURS

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

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

Instrument Failure Mode: LOW (NO PWR; NO FLOW / LOW BACKGROUND)

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

3 INSTRUMENTS (2 AT 1.0EE-1 TO 1.0EE+6 CPS; 1 AT 5.0EE-3 TO 1.0EE+5 UCI/CC). WIDE RNG NOT USED UNTIL HI-HI SET PT OF EITHER NORM RNG IS MET. ALL CPS VALUES CONVERTED TO UCI/CC INITIALLY BY SOFTWARE. ALL SET PTS AND DWNSCALE VALS DEPEND ON CALIBRATION CONSTANTS. THESE VARY OVER FUEL CYCLE. AVAIL = WITHIN CONVERSION RNG. QUAL PTS USED = 0 (2 NORM AVAIL, DIFF BETWEEN IS ACCEPT AND NOT ON WIDE RNG - AVG OF 2 IS USED); =2 (1 NORM AVAIL OR 2 AVAIL WITH UNACCEPT DIFF BETWEEN); =3 (NO NORM RNG AVAIL - NOT ON WIDE RNG / ON WIDE RNG BUT IT IS NOT AVAIL); =6 (ON WIDE RNG AND IT IS AVAIL).

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

11 of 30

Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: EFF LIQ RAD

Point I.D.: RW

Plant-Specific Point Description: RADWASTE EFFLUENT RADIATION

Generic/Condensed Description: RADIOACTIVITY OF RELEASED LIQUID

Analog/Digital : A

Engineering Units or Digital States: CPS

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: 1.0 EE-1

Maximum Instrument Range: 1.0 EE+6

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: IN RADWASTE LIQUID DISCHARGE LINE

Alarm or Trip Setpoints: HI SET PT CALCULATED FOR EACH DISCHARGE

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

Level Reference Leg: N/A

Unique System Description:

INSTRUMENT DOWNSCALE = 3 CPS. SET POINTS CALCULATED FOR EACH
DISCHARGE PERMIT THEN INPUT BY RADWASTE OPERATOR. UNIT
PROVIDES FOR AUTOMATIC ISOLATION OF DISCHARGE LINE AT HIGH
SET POINT. NO QUALITY POINTS ASSOCIATED WITH THIS VALUE.
IF READING IS PRESENTED ASSUME GOOD, IF NOT PRESENTED ASSUME
BAD.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: EFF LIQ RAD

Point I.D.: PSW

Plant-Specific Point Description: PSW EFFLUENT RADIATION

Generic/Condensed Description: RADIOACTIVITY OF RELEASED LIQUID

Analog/Digital : A

Engineering Units or Digital States: CPS

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: 1.0 EE-1

Maximum Instrument Range: 1.0 EE+6

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE VALUE

Sensor Locations: PSW TURBINE BLDG DISCHARGE LINE

Alarm or Trip Setpoints: VARIABLE / CALCULATED BY CHEMISTRY DEPT

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

Level Reference Leg: N/A

Unique System Description:

INSTRUMENT DOWN SCALE = 3 CPS. SET POINTS CHECKED AND CAN BE
RECALCULATED PERIODICALLY. UNIT PROVIDES ALARM FUNCTION AND
INFORMATION ONLY. NO QUALITY POINTS DIRECTLY ASSOCIATED WITH
THIS VALUE. READING IS JUST PRESENTED OR NOT PRESENTED. NO
READING ASSUME BAD POINT, ELSE ASSUME GOOD POINT.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: EFF GAS RAD

Point I.D.: RB2

Plant-Specific Point Description: REACTOR BLDG STACK RADIATION

Generic/Condensed Description: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital : A

Engineering Units or Digital States: UCI/CC

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: COMPLEX

Maximum Instrument Range: 1.0 EE+5

Zero Reference Point: N/A

Reference Point Notes: NORM RNG = CPM CONVERTED ; WIDE = UCI/CC

Proc or Sens: P

Number of Sensors: 3

How Processed: NUMERICAL AVG OF NORM RNG; WIDE =1 VALUE

Sensor Locations: INTERNAL TO REACTOR BLDG STACK

Alarm or Trip Setpoints: WHEN AUTO SWAP TO WIDE RANGE OCCURS

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

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

Instrument Failure Mode: LOW (NO PWR; NO FLOW / LOW BACKGROUND)

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

3 INSTRUMENTS (2 AT 1.0EE+1 TO 1.0EE+6 CPM; 1 AT 5.0EE-3 TO 1.0EE+5 UCI/CC) WIDE RNG NOT USED UNTIL HI SET PT OF EITHER NORM RNG IS MET. ALL CPM VALUES CONVERTED TO UCI/CC INITIALLY BY SOFTWARE. ALL SET PTS AND DWNSCALE VALS DEPEND ON CALIBRATION CONSTANTS. THESE VARY OVER FUEL CYCLE. AVAIL = WITHIN CONVERSION RNG. QUAL PTS USED = 0 (2 NORM AVAIL DIFF BETWEEN IS ACCEPT AND NOT ON WIDE RNG - AVG OF 2 IS USED), =2 (1 NORM AVAIL OR 2 AVAIL WITH NONACCEPT DIFF BETWEEN), =3 (NO NORM RNG AVAIL - NOT ON WIDE RNG / ON WIDE RNG BUT IT IS NOT AVAIL), =6 (ON WIDE RNG AND IT IS AVAIL).

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: DW RAD

Point I.D.: DWRA

Plant-Specific Point Description: WIDE RANGE DRYWELL RADIATION A

Generic/Condensed Description: RADIATION LEVEL IN THE DRYWELL

Analog/Digital : A

Engineering Units or Digital States: R/HR

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: 1

Maximum Instrument Range: 1.0 EE+7

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGULAR VALUE

Sensor Locations: EL 156' IN DRYWELL (REF = MSL)

Alarm or Trip Setpoints: HI SET PT VARIABLE ; HI TRIP = 100 R/HR

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

Level Reference Leg: N/A

Unique System Description:

ONE OF TWO IDENTICAL WIDE RANGE DW ACCIDENT GM DETECTORS.
THESE DEVICES PROVIDE INFORMATION TO OPERATOR AND CAUSE THE
LARGE (18 IN.) VENT AND PURGE VALVES FOR THE DW TO STAY
CLOSED AT OR ABOVE 100 R/HR. AS WITH MOST RAD MONITORS THE
ALARM SET PTS ARE CHECKED AND RECALCULATED, IF NECESSARY, ON
A PERIODIC BASIS BY CHEM / HP PERSONNEL. NO QUALITY POINTS
ASSOCIATED WITH THIS VALUE. IF VALUE IS PRESENTED ASSUME
GOOD, IF VALUE NOT PRESENTED ASSUME BAD.

E.I. Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

19 of 30

Date: 02/11/92

Reactor Unit: HT2

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) ONLY WIDE USED

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: 2.5% 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 DIFF BETWEEN 2 IS ACCEPT - IF A VAL .GE. B USE A, ELSE USE B IF BOTH ALIGNED TO SAME PT, ELSE USE INDIV VAL / VAL NOT HI); = 2 (1 SENSOR AVAIL VAL NOT HI; 2 SENSORS AVAIL DIFF NOT ACCEPT / 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 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: DW RAD

Point I.D.: DWRB

Plant-Specific Point Description: WIDE RANGE DRYWELL RADIATION B

Generic/Condensed Description: RADIATION LEVEL IN THE DRYWELL

Analog/Digital : A

Engineering Units or Digital States: R/HR

Engineering Units Conversion : LOG BASE 10 CONVERSION

Minimum Instrument Range: 1

Maximum Instrument Range: 1.0 EE+7

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGULAR VALUE

Sensor Locations: EL 156' IN DRYWELL (REF = MSL)

Alarm or Trip Setpoints: HI SET PT VARIABLE; H* TRIP = 100 R/HR

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

Level Reference Leg: N/A

Unique System Description:

ONE OF TWO IDENTICAL WIDE RANGE DW ACCIDENT GM DETECTORS.
THESE DEVICES PROVIDE INFORMATION TO OPERATOR AND CAUSE THE
LARGE (18 IN.) VENT AND PURGE VALVES FOR THE DW TO STAY
CLOSED AT OR ABOVE 100 R/HR. AS WITH MOST RAD MONITORS THE
ALARM SET PTS ARE CHECKED AND RECALCULATED, IF NECESSARY, ON
A PERIODIC BASIS BY CHEM / HP PERSONNEL. NO QUALITY POINTS
ASSOCIATED WITH THIS VALUE. IF VALUE IS PRESENTED ASSUME
GOOD, IF VALUE NOT PRESENTED ASSUME BAD.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: RCS PRESSURE

Point I.D.: RXPR

Plant-Specific Point Description: REACTOR FRESSURE

Generic/Condensed Description: REACTOR COOLANT SYSTEM PRESSURE

Analog/Digital : A

Engineering Units or Digital States: PSIG

Engineering Units Conversion : LINEAR

Minimum Instrument Range: 0

Maximum Instrument Range: 1500

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: P

Number of Sensors: 2

How Processed: NUMERICAL AVERAGE

Sensor Locations: SENSED BETWEEN VESSEL AND MSIVS

Alarm or Trip Setpoints: HI= 1054.00 PSIG (HI PRESS SCRAM = 1042)

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

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

Instrument Failure Mode: LOW (LOSS OF POWER)

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

TWO PRESS TRANS NUMERICALLY AVERAGED FOR SINGULAR VALUE OF RX VESSEL PRESS. READINGS ARE AVAIL IF LOGGED IN. QUAL TAGS USED =0 (BOTH SENSORS AVAIL, IN CONVERSION RANGE, NOT HI IN VALUE; ONLY ONE SENSOR IN RNG, NOT HI IN VALUE; BOTH SENSORS OUT OF RANGE IN SAME DIRECTION, NOT HI IN VALUE, HIGHEST READING SENSOR USED); =2 (ONLY 1 SENSOR IS AVAIL, NOT HI IN VALUE; DIFF BETWEEN SENSOR READINGS .GT. 50 PSIG, HIGHEST READING SENSOR USED, VALUE NOT HI); =3 (BOTH SENSORS NOT AVAIL ; BOTH SENSORS OUT OF RNG IN OPPOSITE DIRECTIONS); =6 (USED WHEN VALUE IS .GT. HI VALUE).

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: NI POWER RNG

Point I.D.: APRM

Plant-Specific Point Description: APRM AVERAGE READING - % POWER

Generic/Condensed Description: NUC INST PWR RNG

Analog/Digital : A

Engineering Units or Digital States: % (PERCENT)

Engineering Units Conversion : 1% = 1 PERCENT POWER

Minimum Instrument Range: 0

Maximum Instrument Range: 125

Zero Reference Point: N/A

Reference Point Notes: 93 FISS CHMBRS AVERAGED BY 6 APRMS

Proc or Sens: P

Number of Sensors: 6

How Processed: NUMERICAL AVERAGE OF AVAILABLE APRMS

Sensor Locations: FISS CHMBR IN 4 CORE QUADS AT 4 HEIGHTS

Alarm or Trip Setpoints: SCRAM=FLOW BIAS CLAMP=113.5%;118%;15% HI

NI Detector Power Supply Cut-Off Power Level: DOWNSCALE = 3%

NI Detector Power Supply Turn-On Power Level: GREATER THAN 3%

Instrument Failure Mode: LOW = 3%; .LE. 11 LPRMS; POWER

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

APRM READINGS ARE NUMERICALLY AVERAGED FOR VALUE. QUAL TAGS
USED = 0; =2(LESS THAN 5 APRMS AVAIL AND READING NOT AT
TRIP POINT); =3 NO APRMS AVAIL; =6(APRM AVERAGE POWER .GE.
SET POINT). TRIP SET POINTS ARE BIASED IN THE RUN MODE FOR
RECIRC FLOW; CLAMP AT 113.5%, TIME DELAY FOR THIS TRIP.
HI POWER TRIP (NO BIAS, NO DELAY) = 118%. UNIT OUT OF RUN
MODE SET POINT = 15%. NO QUALITY TAG FOR 118% TRIP.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

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 : NONLINEAR TO 11% THEN LINEAR, CURVE ATT

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

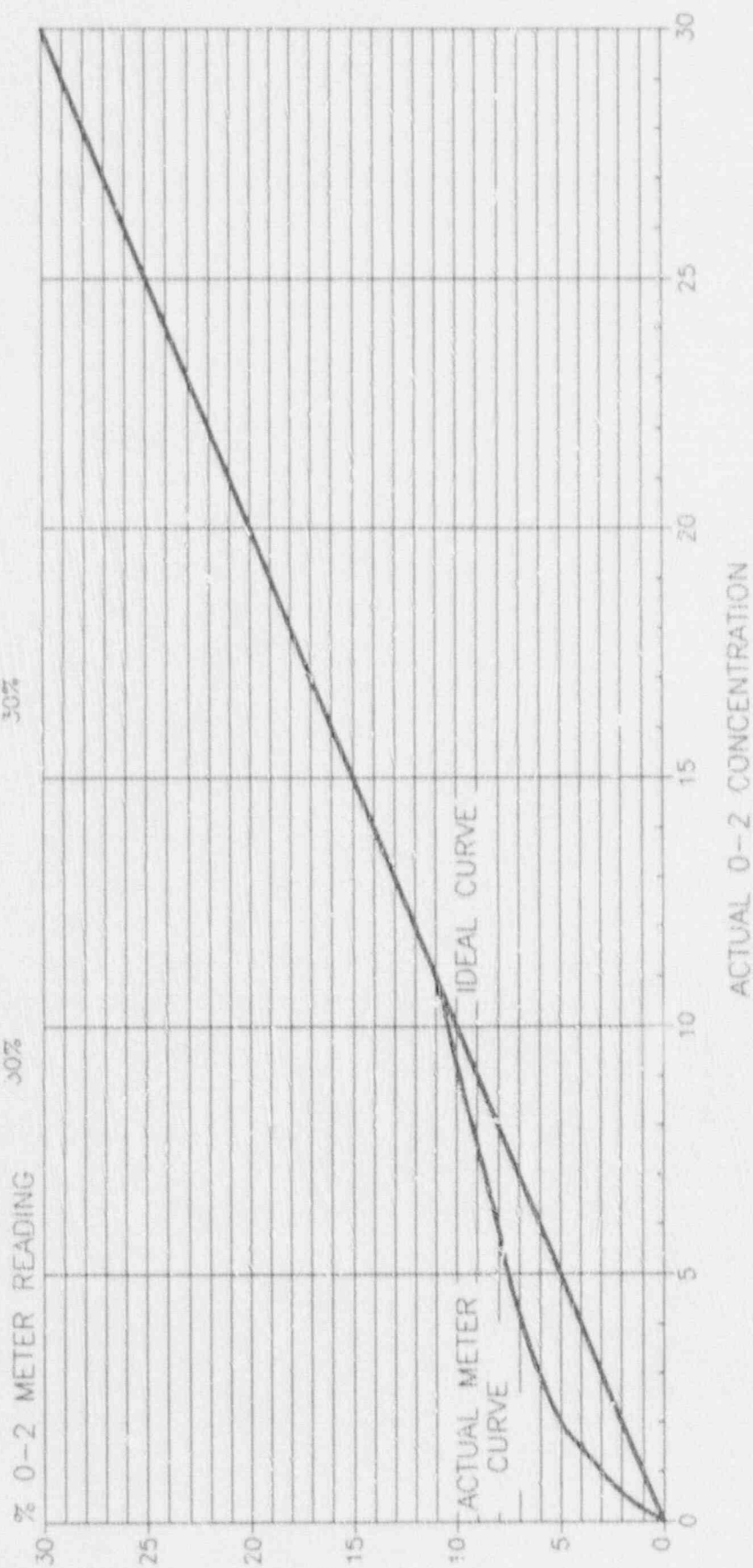
Unique System Description:

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.

DATA: 0-2 CONC 0-2 METER READING

0% 0%
3.5% 6.10 7%
6.9% 8.10 8.5%
21% 21%
30% 30%

ACCURACY: $\leq \pm 1\%$



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

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: NI SOURC RNG

Point I.D.: SRMS

Plant-Specific Point Description: AVERAGE SRM READING

Generic/Condensed Description: NUCLEAR INSTRUMENTS, SOURCE RANGE

Analog/Digital : A

Engineering Units or Digital States: CPS

Engineering Units Conversion : LOG BASE 10 OF CONVERTED VALUE

Minimum Instrument Range: 1.0 EE-1 CPS

Maximum Instrument Range: 1.0 EE+6 CPS

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: P

Number of Sensors: 4

How Processed: NUMERICAL AVERAGE

Sensor Locations: MOVABLE DETECTORS 1 EACH CORE QUAD

Alarm or Trip Setpoints: 3.0 EE+5 CPS REFUEL MODE ONLY

NI Detector Power Supply Cut-Off Power Level: .LE. 5 CPS

NI Detector Power Supply Turn-On Power Level: .GT. 5 CPS

Instrument Failure Mode: LOW / DUE TO POWER OR INPUT

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

FOUR GAMMA DISCRIMINATED PROPORTIONAL DETECTORS. REFUEL TRIP ONLY IN SINGLE COINCIDENCE LOGIC - UNIT 2 ONLY. READINGS AVAIL IF DET FULL IN OR FULL OUT; NOT LOGGED OUT. QUAL PTS = 0 OR 3. 3=AVAIL SENSORS NOT FULL IN OR FULL OUT OR DIGITAL STATUS NOT AVAIL TO DETERMINE POSITION. DETECTORS ARE RETRACTED DURING STARTUP TO HOLD BETWEEN 1.0 EE+3 TO 1.0 EE+5 CPS. WHEN PROPER INTERMEDIATE RANGE OBTAINED DETECTORS ARE FULLY RETRACTED.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: DW TEMP

Point I.D.: DWTE

Plant-Specific Point Description: DRYWELL TEMPERATURE

Generic/Condensed Description: DRYWELL TEMPERATURE

Analog/Digital : A

Engineering Units or Digital States: DEGF

Engineering Units Conversion : N/A

Minimum Instrument Range: 0

Maximum Instrument Range: 400

Zero Reference Point: N/A

Reference Point Notes: INST = RTDS, 32 DEGF = LO RANGE

Proc or Sens: P

Number of Sensors: 14

How Processed: WEIGHTED NUMERICAL AVERAGE

Sensor Locations: INSIDE DRYWELL

Alarm or Trip Setpoints: 135 DEGF HI

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

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

Instrument Failure Mode: HIGH

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

FOURTEEN RTDS FROM VARIOUS AREAS OF DRYWELL, AVERAGED TO
PROVIDE SINGULAR DRYWELL TEMP READING. INSTR'S ARBITRARILY
PLACED IN 3 GROUPS FOR CALCULATION. AVAIL INSTRUMENT= LOGGED
IN AND WITHIN CONVERSION RANGE. QUALITY TAGS USED =0 (AT
LEAST 2 INSTRUMENTS AVAIL PER GROUP AND AVERAGE NOT HI); =2
(TWO GROUPS ONLY HAVE AVAIL SENSORS AND AVERAGE NOT HI; 3
GROUPS HAVE AVAIL SENSORS BUT ONE OR MORE ONLY HAVE ONE
AVAIL SENSOR AND AVERAGE NOT HI); =3 (NO GROUPS OR ONLY ONE
GROUP HAVE AVAIL SENSORS); =6 (ALL AVERAGE READING IS HI).

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: SP TEMP

Point I.D.: SPWT

Plant-Specific Point Description: TORUS WATER TEMP

Generic/Condensed Description: SUPPRESSION POOL TEMPERATURE

Analog/Digital : A

Engineering Units or Digital States: DEGF

Engineering Units Conversion : 2 SENSOR RANGES USED (50 - 250; 0 - 400)

Minimum Instrument Range: 0

Maximum Instrument Range: 400

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: P

Number of Sensors: 15

How Processed: NUMERICAL AVERAGE

Sensor Locations: UP AND LOW AREAS OF POOL WATER SPACE

Alarm or Trip Setpoints: 100 DEGF HI (ALARM)

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

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

Instrument Failure Mode: HIGH

Temperature Compensation
for DP Transmitters: N

Level Reference Leg: N/A

Unique System Description:

15 RTDS SPACED CIRCUMFERENTIALLY THROUGHOUT THE TORUS WATER SPACE AT 2 LEVELS. THE READINGS ARE CHECKED FOR AVAILABILITY (SENSORS WITHIN CONVERSION RANGE). THE READINGS ARE AVERAGED NUMERICALLY BASED ON 2 GROUPINGS OF SENSORS. 11 SENSORS HAVE A 50 TO 250 DEGF RANGE AND TEND TO MEASURE THE LOWER AREA WTR. 4 SENSORS ARE 0 TO 400 DEGF AND MEASURE UPPER. QUAL PTS USED =0 (ALL SENSORS IN UPPER LEVEL AVAIL, UP TO 2 NOT AVAIL IN LOW GROUP, RESULT NOT HI); 2 (1 SENSOR NOT AVAIL. IN UPPER GROUP OR MORE THAN 2 NOT AVAIL. IN LOW GROUP AND AVG. NOT HI); 3 (NO SENSORS AVAIL OR NONE IN GP2); 6 (RES AVG HI)

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: DW PRESS

Point I.D.: DWPR

Plant-Specific Point Description: DRYWELL PRESSURE

Generic/Condensed Description: DRYWELL PRESSURE

Analog/Digital : A

Engineering Units or Digital States: PSIG

Engineering Units Conversion : 3 RANGES OF PRESS REFERENCED TO 0 PSIG

Minimum Instrument Range: -10 PSIG

Maximum Instrument Range: 250 PSIG

Zero Reference Point: N/A

Reference Point Notes: N/A

Proc or Sens: P

Number of Sensors: 6

How Processed: NUMERICAL AVERAGE OF SENSORS IN 1 RANGE

Sensor Locations: PRESS SENSED DIRECT FROM DW/INST OUTSIDE

Alarm or Trip Setpoints: HI 1.92 PSIG(RX SCRAM/ECCS AT 1.85 PSIG)

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

Level Reference Leg: N/A

Unique System Description:

3 PRESS RANGES SENSED BY 6 TRANS RANGES = -5 TO 5, -10 TO 90
, 0 TO 250 PSIG. TWO TRANS READINGS PER RANGE AVERAGED FOR
SINGLE VALUE (LOWEST RANGE USED IF AVAIL, IF NOT, AVG THE 2
TRANSMITTER READINGS FOR THE NEXT RANGE AND SO ON). QUAL PTS
USED = 0(2 SENSORS AVAIL/LOGGED IN - WITHIN RANGE; 1 SENSOR
AVAIL AND WITHIN ACCEPTED DIFF OF 1 AVAIL SENSOR IN NEXT
IMMEDIATE RANGE - IN BOTH CASES READING NOT HI); =2(BOTH
SENSORS AVAIL BUT DIFF BETWEEN THEM IS NOT WITHIN ACCEPT
LIMIT; ONLY 1 WIDE RANGE SENSOR AVAIL, VALUE NOT HI); =3(NO
SENSORS AVAIL); =6(CALC VALUE IS HI).

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC ERDS Parameter: CST LEVEL

Point I.D.: CST

Plant-Specific Point Description: CST LEVEL

Generic/Condensed Description: CONDENSATE STORAGE TANK LEVEL

Analog/Digital : A

Engineering Units or Digital States: FEET

Engineering Units Conversion : 1' APPROXIMATELY = TO 11,341 GALLONS

Minimum Instrument Range: 0

Maximum Instrument Range: 44

Zero Reference Point: EL 130

Reference Point Notes: EL 130' IS GRADE ELEV FOR TANK / 44'=174

Proc or Sens: S

Number of Sensors: 1

How Processed: SINGLE SENSOR

Sensor Locations: ON CST

Alarm or Trip Setpoints: HI = 43' / LO = 34"

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

Level Reference Leg: N/A

Unique System Description:

TANK APPROXIMATELY 500,000 GALLON CAPACITY. NORMAL OPERATING PROCEDURE LIMITS LEVEL TO 15' MINIMUM. 34 INCH LOW LEVEL IS ACTUALLY SWAPOVER POINT FOR HPCI/RCIC NORMAL SUCTION SOURCE. SWAP IS TO SUPPRESSION POOL. QUALITY POINTS NOT ASSOCIATED WITH THIS VALUE. THESE ARE USED ONLY WITH COMPOSED POINTS. VALUES PRESENTED OR NOT PRESENTED. IF VALUE IS NOT PRESENTED AT ALL - A BAD QUALITY IS ASSUMED. ELSE A GOOD QUALITY IS ASSUMED. EL 130' IS 130' ABOVE MEAN SEA LEVEL.

E.I.Hatch Unit 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

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) ONLY WIDE USED

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: 2.5% 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 DIFF BETWEEN 2 IS ACCEPT - IF A VAL .GE. B USE A, ELSE USE B IF BOTH ALIGNED TO SAME PT, ELSE USE INDIV VAL / VAL NOT HI); = 2 (1 SENSOR AVAIL VAL NOT HI; 2 SENSORS AVAIL DIFF NOT ACCEPT / 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 2
NRC - Emergency Response Data System
Data Point Library

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Date: 02/11/92

Reactor Unit: HT2

Data Feeder: N/A

NRC EKDS 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 : NONLINEAR TO 11% THEN LINEAR, CURVE ATT

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 CHMBR 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

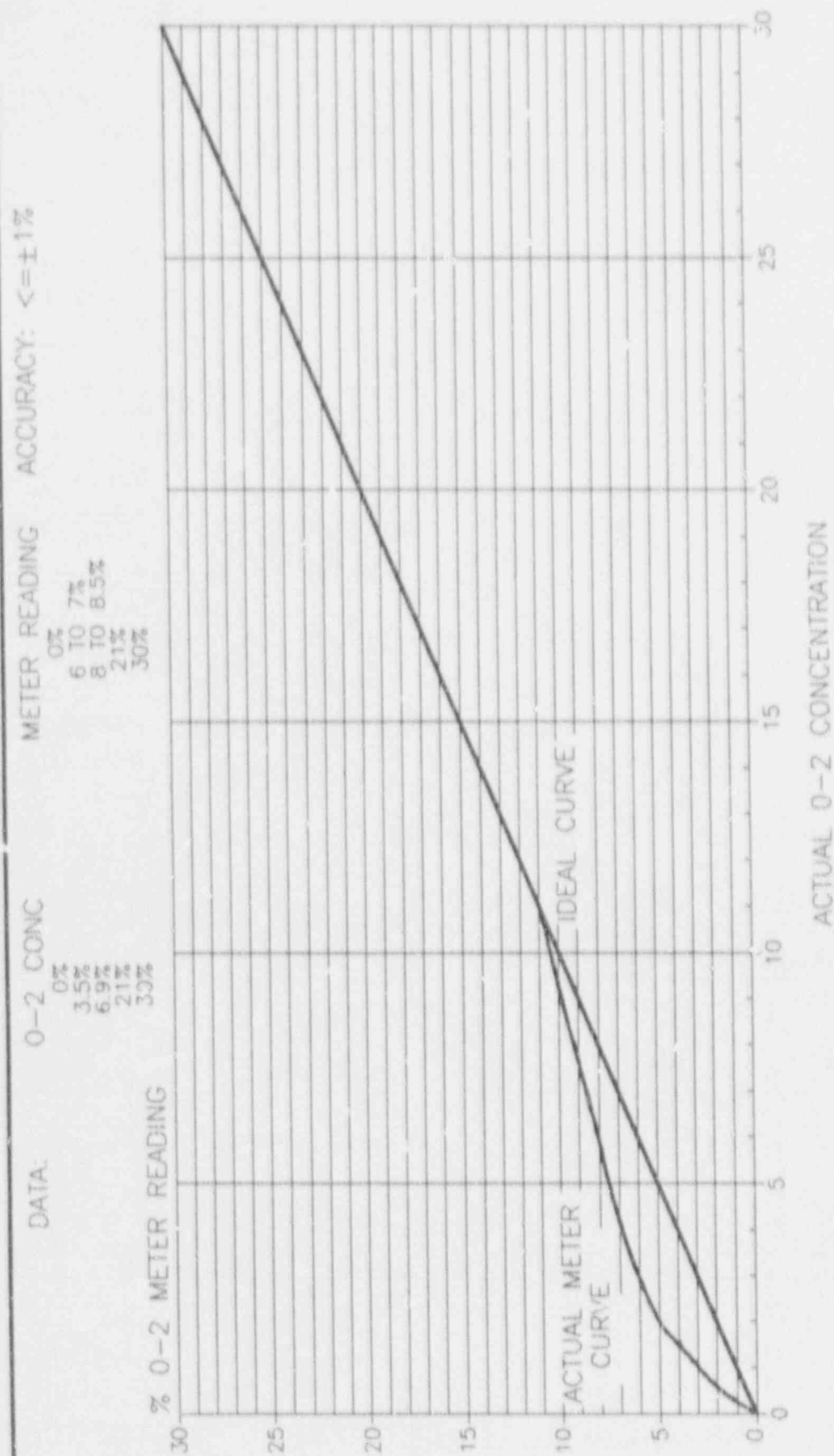
Instrument Failure Mode: N/A

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 COMEINED 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. 1. HATCH - UNITS 1 AND 2
NRC - EMERGENCY RESPONSE DATA SYSTEM
Data Point Library

Abbreviations

Following is a list of abbreviations and acronyms used in the Hatch Units 1 and 2 Data Point Libraries (DPL) and the corresponding terms. Included are all abbreviations and acronyms which are not defined at some point in either the DPL or NUREG-1394, Rev. 1.

ACCEPT	Acceptable
APPROX	Approximately
APRM	Average Power Range Monitor
AUTO	Automatically
AVAIL	Available
AVE	Average
AVG	Average
BLDG	Building
CALC	Calculated
CHAMB	Chamber
CHEM	Chemistry
CHMBR	Chamber
CONC	Concentration
DEPT	Department
DIFF	Difference or Differential
DIR	Direction
DT	Differential Temperature
DW	Drywell
ECCS	Emergency Core Cooling System
EE	Scientific Notation for $\times 10$
EL	Elevation
ELEV	Elevation
EXCH	Exchanger
FISS	Fission
FW	Feedwater
.GE.	Greater Than or Equal To
GM	Geiger Muller
.GT.	Greater Than
HP	Health Physics
HI	High
INDIV	Individual
INFO	Information
INST	Instrument
INSTR	Instrument
.LE.	Less Than or Equal To
LEV	Level
LO	Low
LOCA	Loss of Coolant Accident

E. I. HATCH - UNIT 1
NRC - EMERGENCY RESPONSE DATA SYSTEM
Data Point Library

Abbreviations

LPRM	Local Power Range Monitor
LVL	Level
MAX	Maximum
MET	Metecrological
MSIV	Main Steam Isolation Valve
MSL	Mean Sea Level
NONACCEPT	Nonacceptable
NORM	Normal
NUC	Nuclear
NUM	Numerical
PMP	Pump
POSS	Possible
PRESS	Pressure
PSW	Plant Service Water
PT	Point
PWR	Power
QLTY	Quality
QUAD	Quadrant
QUAL	Quality
RECIRC	Recirculation System
REF	Reference
RNG	Range
RPV	Reactor Pressure Vessel
RTD	Resistance Temperature Detector
RWL	Reactor Water Level
RX	Reactor
SMPL	Sample
SMP	Sample
SRM	Source Range Monitor
SUPP	Suppression
TAF	Top of Active Fuel
TEMP	Temperature
TRANS	Transmitter
TWR	Tower
UNACCEPT	Unacceptable
VAL	Value
WTR	Water
XMTR	Transmitter

E. 1. HATCH - UNITS 1 AND 2
NRC - EMERGENCY RESPONSE DATA SYSTEM
PLANT ATTRIBUTE LIBRARY

NUREG 1394 REV. 1

APPENDIX B

SECTION III. SELECTION OF DATA FEEDERS

A. How many data feeders are there (six maximum)?

Two; one per plant unit. Systems are identical except for plant unit number.

B. Identify the selected data feeders and provide the following for each:

- (1) A short description of the categories of data points it will provide (e.g., met, rad, or plant data points, by unit) and
- (2) The rationale for selecting it if another system can also provide its categories of data points.

Presently installed SPDS/ERF computers will feed information to new NRC-ERDS microprocessors. The NRC-ERDS data feeders will provide information on all categories in the Critical Safety Function Parameters List for BWRs as well as the similar BWR Parameter List. Computer burden was the rationale for selecting new microprocessors to convert and transmit the NRC data.

C. Which data feeder is the site time determining feeder? This should be the feeder which is providing the majority of the data points.

The NRC-ERDS microprocessors will be the site-time determining devices.

E. I. HATCH - UNITS 1 AND 2
NRC EMERGENCY RESPONSE DATA SYSTEM
PLANT ATTRIBUTE LIBRARY

NUREG 1394 REV. 1
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APPENDIX B
SECTION IV. DATA FEEDER INFORMATION

Note: A new Section IV must be filled out for each feeder system selected.
(The following applies to both plant units)

General Questions

1. Identification of Data Feeder

- a. What is the name in local parlance given to this data feeder (e.g., Emergency Response Information System)? Please give both the acronym and the words forming it.

NRC-ERDS System
Nuclear Regulatory Commission-Emergency Response Data System

- b. Is this the site time determining feeder?

yes

- c. How often will this feeder transmit an update set to the ERDS (in seconds)?

Every 15 seconds

2. Hardware/Software Environment

- a. Identify the manufacturer and model number of the data feeder hardware.

Data General Corporation
MV/9300 - ECLIPSE

- b. Identify the operating system.

AOS/VS II

- c. What method of timekeeping is implemented on this feeder system (Daylight Savings, Standard, Greenwich)?

Central Standard Time

- d. In what time zone is this feeder located?

Eastern

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APPENDIX B
SECTION IV. DATA FEEDER INFORMATION (Continued)

3. Data Communication Details

- a. Can this data feeder provide asynchronous serial data communications (RS-232-C) with full-modem control?

Yes

- b. Will this feeder transmit in ASCII or EBCDIC?

ASCII

- c. Can this feeder transmit at a serial baud rate of 2400 bps? If not, at what baud rate can it transmit?

Yes

- d. Does the operating system support XON/XOFF flow control?

Yes

1. Are any problems foreseen with the NRC using XON/XOFF to control the transmission of data?

No

- e. If it is not feasible to reconfigure a serial port for the ERDS linkup (i.e., change in baud rate, parity, etc.), please explain why.

Not applicable

- f. Do any ports currently exist for the ERDS linkup?

Yes

1. If not, is it possible to add additional ports?

2. If yes, will the port be used solely by the ERDS or shared with other nonemergency-time users? Give details.

The serial port will be dedicated to the NRC. The serial controller is multi-ported, and with computer interface, capable of supporting several users concurrently.

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APPENDIX B
SECTION IV. DATA FEEDER INFORMATION (Continued)

4. Data Feeder Physical Environment and Management

- a. Where is the data feeder located in terms of the TSC, EOF, and control room?

Main Control Room

- b. Is the data feeder protected from loss of supply of electricity?

The power supply for Unit 1 and Unit 2 NRC-ERDS computer systems is intended to be the same as that presently used for SPDS at Plant Hatch. Inverter backup is used in this case.

- c. Is there a human operator for this data feeder?

Only to initiate the data link to the NRC if required. The system is designed to remain "on-line".

1. If so, how many hours a day is the feeder attended?