



Illinois Power Company
Clinton Power Station
P.O. Box 678
Clinton, IL 61727
Tel 217 935-8881

U-601041
EP560-92 (03-31)LP
1N.100

March 31, 1992
10CFR50, Appendix E IV.E.d

50-461

Mr. John Jolicoeur
Office for Analysis and Evaluation of Operational Data
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: Emergency Response Data System Questionnaire

Dear Sir:

Please find attached Illinois Power's (IP) response to the Emergency Response Data System (ERDS) Questionnaire. IP's response is presented in the following format as requested per NUREG 1394 (Section 1 not included since no exceptions noted):

- Attachment 1 is Section I, Contacts,
- Attachment 2 is Section III, Selection of Data Feeders,
- Attachment 3 is Section IV, Data Feeder Information,
- Attachment 4 is the Data Point Library.

If you have comments or questions about any of this information, please call Mr. William L. Yarosz, the survey coordinator, at (217)935-8881 extension 3741.

Sincerely,

F. A. Spangenberg
F. A. Spangenberg
Manager - Licensing and Safety

WLY/mjb

Attachments

cc: NRC Clinton Licensing Project Manager
NRC Resident Office
Regional Administrator, Region III, USNRC
NRC Document Control Desk

Add:
NAF/DIP/LHFB *Ar Encl*
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NRK/DRE/REPS *TT*

9204070098 920331
PDR ADOCK 05000461
F PDR

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ATTACHMENT 1

I. Contacts

A. Survey Coordinator

William L. Yarosz
Supervisor, Emergency Planning
217-935-8881 ext. 3741

NOTE: All addresses are:
Clinton Power Station
P.O. Box 678
Clinton, Illinois 61727

B. Computer Hardware Specialist

Don Dieker
Project Engineer
217-935-8881 ext. 4035

C. System Software Specialist

Don Dieker
Project Engineer
217-935-8881 ext. 4035

D. Application-level Software Specialists

Don Dieker
Project Engineer
217-935-8881 ext. 4035

E. Telephone System Specialist

A.F. Raiha
Facilities Administrator
217-935-8881 ext. 3636

ATTACHMENT 2

III. Selection of Data Feeders

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

We have 3 main sources of data: Meteorological Tower, Area Radiation Process Radiation (ARPR) System and CX/CZ (Process Computer). The Meteorological Tower sensor data and ARPR sensor data are consolidated at our Eberling Computer. The Eberline Computer and the CX/CZ Computer then feed this data to a single monitoring computer, the Buffer System (BS). Thus all 3 data streams are available at BS. The BS will generate a single data feed that will provide all data points. This data feed will be directed into a computer platform recommended by the NRC contractor, NUS. This platform will execute the NUS program which is designed to support the ERDS communications requirements.

In the following questions, 'data feed' will be taken as referring to the single data feed originating at the BS, and passing through the recommended Nus platform, as instructed at the NRC/NUS/IP meeting held 10/9/91.

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

(1a) The data feeder will provide all data points available for transmittal to ERDS. This will include Meteorological, ARPR, and CX/CZ (process computer) data points.

(2) the rationale for selecting it if another system can also provide its categories of data points.

(2a) N/A

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

The selected feeder will also provide the data time stamp.

ATTACHMENT 3

IV. Data Feeder Information

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.

Buffer System (BS).

- b. Is this the site time determining feeder?

The site time is obtained by the BS from the NSS processor at the time of data acquisition.

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

Every 60 seconds.

2. Hardware/Software Environment

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

The BS computer is manufactured by Hewlett Packard. It is an Apollo Series 400. The machine running NUS software will be as specified or recommended by NUS.

- b. Identify the operating system.

The BS computer operating system is HP-UX (Unix). The operating system of the machine running NUS software will be as specified or recommended by NUS.

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

The site time will be of the form Central Standard/Daylight Savings.

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

Central.

3. Data Communication Details

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

Yes.

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

ASCII.

- c. Will 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 re configure a serial port for the ERDS linkup (i.e., change the baud rate, parity, etc.), please explain why.

N/A

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

A port will be available on the Buffer System.

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

N/A

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

The port will be dedicated to ERDS data.

4. Data Feeder Physical Environment and Management

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

At this time, the data feed will be located in the same building as the EOF.

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

Not at this time. This question is being addressed in our long range plans.

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

Yes.

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

The feeder will be attended upon declaration of an alert.

ATTACHMENT 4

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX/CZ

NRC ERDS Parameter: NI Power Range

Point ID: C51DD040

Plant Spec Point Desc: APRM Power - Average

Generic/Cond Desc: Nuclear Instruments - Power Range

Analog/Digital: A

Engr Units/Dig States: %

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range: 125

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: P

Number of Sensors: 4

How Processed: Validated average

Sensor Locations:

Alarm/Trip Set Points: >120

NI Detector Power Supply
Cut-off Power Level:

NI Detector Power Supply
Turn-on Power Level:

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc: Validated average is average of several points
which must be within a specified tolerance
of each other to be used in the average.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
 Reactor Unit: Clinton Unit 1
 Data Feeder: CX/CZ
 NRC ERDS Parameter: NI Inter Range
 Point ID: C51DA013
 Plant Spec Point Desc: IRM - CH A
 Generic/Cond Desc: Nuclear Instruments - Intermediate Range
 Analog/Digital: A
 Engr Units/Dig States: %
 Engr Units Conversion: Linear
 Minimum Instr Range: 0
 Maximum Instr Range: 125
 Zero Point Reference: n/a
 Reference Point Notes: n/a
 PROC or SENS: S
 Number of Sensors: 1
 How Processed: n/a
 Sensor Locations:
 Alarm/Trip Set Points: 5/108
 NI Detector Power Supply
 Cut-off Power Level:
 NI Detector Power Supply
 Turn-on Power Level:
 Instrument Failure Mode:
 Temperature Compensation
 for DP Transmitters: n/a
 Level Reference Leg: n/a
 Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
 Reactor Unit: Clinton Unit 1
 Data Feeder: CX/CZ
 NRC ERDS Parameter: NI Inter Range
 Point ID: C51DA016
 Plant Spec Point Desc: IRM - CH D
 Generic/Cond Desc: Nuclear Instruments - Intermediate Range
 Analog/Digital: A
 Engr Units/Dig States: %
 Engr Units Conversion: Linear
 Minimum Instr Range: 0
 Maximum Instr Range: 125
 Zero Point Reference: n/a
 Reference Point Notes: n/a
 PROC or SENS: S
 Number of Sensors: 1
 How Processed: n/a
 Sensor Locations:
 Alarm/Trip Set Points: 5/108
 NI Detector Power Supply
 Cut-off Power Level:
 NI Detector Power Supply
 Turn-on Power Level:
 Instrument Failure Mode:
 Temperature Compensation
 for DP Transmitters: n/a
 Level Reference Leg: n/a
 Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: NI Inter Range
Point ID: C51DA020
Plant Spec Point Desc: IRM - CH H
Generic/Cond Desc: Nuclear Instruments - Intermediate Range
Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 125
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 5/108
NI Detector Power Supply
Cut-off Power Level:
NI Detector Power Supply
Turn-on Power Level:
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: NI Sourc Range
Point ID: C51DD080
Plant Spec Point Desc: SRM - Average
Generic/Cond Desc: Nuclear Instruments - Source Range
Analog/Digital: A
Engr Units/Dig States: CPS
Engr Units Conversion: Anti-Log
Minimum Instr Range: 0.1
Maximum Instr Range: 1.0E6
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: P
Number of Sensors: 4
How Processed: Validated average
Sensor Locations:
Alarm/Trip Set Points:
NI Detector Power Supply
Cut-off Power Level:
NI Detector Power Supply
Turn-on Power Level:
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: Rx Water Level
Point ID: C34DD010
Plant Spec Point Desc: Reactor Water Level ar Rng - Ave
Generic/Cond Desc: Reactor Water Level
Analog/Digital: A
Engr Units/Dig States: IN
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 60
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: P
Number of Sensors: 3
How Processed:
Sensor Locations:
Alarm/Trip Set Points: ≤ 8.9
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: Rx Water Level
Point ID: NB-DDD20
Plant Spec Point Desc: Reactor Water Level - Wide Rng - Ave
Generic/Cond Desc: Reactor Water Level
Analog/Digital: A
Engr Units/Dig States: IN
Engr Units Conversion: Linear
Minimum Instr Range: -160
Maximum Instr Range: 60
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: P
Number of Sensors: 4
How Processed: Validated average
Sensor Locations:
Alarm/Trip Set Points: ≤ 0.9
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Top of active fuel at -162 inches.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
 Reactor Unit: Clinton Unit 1
 Data Feeder: CX/CZ
 NRC ERDS Parameter: Rx Water Level
 Point ID: NB-DD010
 Plant Spec Point Desc: Reactor Water Level - Fuel Zone - Ave
 Generic/Cond Desc: Reactor Water Level
 Analog/Digital: A
 Engr Units/Dig States: IN
 Engr Units Conversion: Linear
 Minimum Instr Range: -312
 Maximum Instr Range: -112
 Zero Point Reference: n/a
 Reference Point Notes: n/a
 PLOC or SENS: P
 Number of Sensors: 2
 How Processed:
 Sensor Locations:
 Alarm/Trip Set Points: $\leq 8.9 / \leq -162$
 NI Detector Power Supply
 Cut-off Power Level: n/a
 NI Detector Power Supply
 Turn-on Power Level: n/a
 Instrument Failure Mode:
 Temperature Compensation
 for DP Transmitters: n/a
 Level Reference Leg: n/a
 Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: Feedwater Flow
Point ID: C34DA001
Plant Spec Point Desc: Feedwater Flow - Loop A
Generic/Cond Desc: Feedwater Flow into the Reactor
Analog/Digital: A
Engr Units/Dig States: MLB/Hr
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 10
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 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/a
Level Reference Leg: n/a
Unique System Desc: Point set to go "BAD" if input signal < 30 mv
or >160mv.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX/CZ

NRC ERDS Parameter: Feedwater Flow

Point ID: C34DA00'

Plant Spec Point Desc: Feedwater Flow - Loop B

Generic/Cond Desc: Feedwater Flow into the Reactor

Analog/Digital: A

Engr Ur: 'Dig States: MLB/Hr

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range: 10

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: 3

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points:

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode: Low

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: RCIC Flow
Point ID: E51DA001
Plant Spec Point Desc: RCIC Flow
Generic/Cond Desc: Reactor Core Isolation Flow
Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 800
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 120
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode: Low
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX/CZ

NRC ERDS Parameter: RCS Pressure

Point ID: RP-DD010

Plant Spec Point Desc: Reactor Pressure - Average

Generic/Cond Desc: Reactor Coolant System Pressure

Analog/Digital: A

Engr Units/Dig States: PSIG

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range: 1500

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: P

Number of Sensors: 2

How Processed: Validated average

Sensor Locations:

Alarm/Trip Set Points: 1065

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode: Low

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: HPCI Flow
Point ID: HP-DA301
Plant Spec Point Desc: HPCS Flow
Generic/Cond Desc: High Pressure Coolant Injection Flow
Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: Uncorrected square root
Minimum Instr Range: 0
Maximum Instr Range: 8000
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 625/6400
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode: Low
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Uncorrected square root conversion inaccurate
at low signal levels.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/C?
NRC ERDS Parameter: LPCI Flow
Point ID: LP-DA301
Plant Spec Point Desc: LPCS Flow
Generic/Cond Desc: Low Pressure Coolant Injection Flow
Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: Uncorrected square root
Minimum Instr Range: 0
Maximum Instr Range: 8000
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 875/6400
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: CR Spray FL
Point ID: RH-DA302
Plant Spec Point Desc: RHR Flow - A
Generic/Cond Desc: Core Spray Cooling System Flow
Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: Uncorrected square root
Minimum Instr Range: 0
Maximum Instr Range: 8000
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 800/7200
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: CR Spray FL
Point ID: RH-DA301
Plant Spec Point Desc: RHR Flow - B
Generic/Cond Desc: Core Spray Cooling System Flow
Analog/Digital: A
Engr Units/Dig States: KGPM
Engr Units Conversion: Uncorrected square root
Minimum Instr Range: 0
Maximum Instr Range: 8
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 5.22/7.25
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: CR Spray FL
Point ID: RH-DA303
Plant Spec Point Desc: RHR Flow - C
Generic/Cond Desc: Core Spray Cooling System Flow
Analog/Digital: A
Engr Units/Dig State: GPM
Engr Units Conversion: Uncorrected square root
Minimum Instr Range: 0
Maximum Instr Range: 7000
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 1100/6060
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DF Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: DW FD SMP LV
Point ID: RF-BA301
Plant Spec Point Desc: Drywell Sump Drain Flow
Generic/Cond Desc: Drywell Floor Drain Sump Flow
Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: Linear
Minimum Instr Range: 0.5
Maximum Instr Range: 64
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 5
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX,CZ

NRC ERDS Parameter: EFF Gas Rad

Point ID: VR-DD010

Plant Spec Point Desc: Vent Stack Rad Flow

Generic/Cond Desc: Radioactivity of Released Gasses

Analog/Digital: A

Engr Units/Dig States: CI/Sec

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range:

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: P

Number of Sensors: 3

How Processed:

Sensor Locations:

Alarm/Trip Set Points: >2.2E-2

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
 Reactor Unit: Clinton Unit 1
 Data Feeder: CX/CZ
 NRC ERDS Parameter: EFF Gas Rad
 Point ID: VG-DD010
 Plant Spec Point Desc: SGTS Stack Rad Flow
 Generic/Cond Desc: Radioactivity of Released Gasses
 Analog/Digital: A
 Engr Units/Dig States: CI/Sec
 Engr Units Conversion: Linear
 Minimum Instr Range: 0
 Maximum Instr Range:
 Zero Point Reference: n/a
 Reference Point Notes: n/a
 PROC or SENS: P
 Number of Sensors: 3
 How Processed:
 Sensor Locations:
 Alarm/Trip Set Points: >2.2E-2
 NI Detector Power Supply
 Cut-off Power Level: n/a
 NI Detector Power Supply
 Turn-on Power Level: n/a
 Instrument Failure Mode:
 Temperature Compensation
 for DP Transmitters: n/a
 Level Reference Leg: n/a
 Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Gas Rad
Point ID: ARPR1255
Plant Spec Point Desc: HVAC Stack Noble Gas High Range
Generic/Cond Desc: Radioactivity of Released Gasses
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 1.59E8
Minimum Instr Range: 6.4E-7
Maximum Instr Range: 2.8E-2
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 3.8E-4
NI Detector Power Supply
Out-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: ARPR

NRC ERDS Parameter: EFF Gas Rad

Point ID: ARPR1265

Plant Spec Point Desc: HVAC Stack Noble Gas High Range

Generic/Cond Desc: Radioactivity of Released Gasses

Analog/Digital: D

Engr Units/Dig States: CPM/2

Engr Units Conversion: 1.64E-8

Minimum Instr Range: 6.4E-7

Maximum Instr Range: 2.8E-2

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: S

Number of Sensors: 1

Hcw Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: 3.8E-4

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Gas Rad
Point ID: ARPR1257
Plant Spec Point Desc: HVAC Stack Noble Gas Low Range
Generic/Cond Desc: Radioactivity of Released Gasses
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 1.27E-3
Minimum Instr Range: 5.0E-4
Maximum Instr Range: 2.6E1
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 1.0E6
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: ARPR

NRC ERDS Parameter: EFF Gas Rad

Point ID: ARPR1267

Plant Spec Point Desc: HVAC Stack Noble Gas Low Range

Generic/Cond Desc: Radioactivity of Released Gasses

Analog/Digital: D

Engr Units/Dig States: CPM/2

Engr Units Conversion: 1.24E-3

Minimum Instr Range: 5.0E-4

Maximum Instr Range: 2.6E1

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: S

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: 1.0E6

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Gas Rad
Point ID: ARPR2223
Plant Spec Point Desc: HVAC AXM Noble Gas High Range
Generic/Cond Desc: Radioactivity of Released Gasses
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 6.81E-3
Minimum Instr Range: 3.7E-1
Maximum Instr Range: 1.19E5
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 1.0E6
NI Detector Power Supply
Cut-off Power Level: n/a
NJ Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: ARPR

NRC ERDS Parameter: EFF Gas Rad

Pcint ID: ARPR2124

Plant Spec Point Desc: HVAC AXM Noble Gas Inter Range

Generic/Cond Desc: Radioactivity of Released Gasses

Analog/Digital: D

Engr Units/Dig States: CPM/2

Engr Units Conversion: 2.49E-6

Minimum Instr Range: 8.3E-4

Maximum Instr Range: 2.45E2

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: S

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: 1.0E6

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Gas Rad
Point ID: ARPR1276
Plant Spec Point Desc: SGTS Stack Noble Gas High Range
Generic/Cond Desc: Radioactivity of Released Gasses
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 1.52E-8
Minimum Instr Range: 6.3E-7
Maximum Instr Range: 2.8E-2
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 1.0E6
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
 Reactor Unit: Clinton Unit 1
 Data Feeder: ARPR
 NRC ERDS Parameter: EFF Gas Rad
 Point ID: ARPR1286
 Plant Spec Point Desc: SGTS Stack Noble Gas High Range
 Generic/Cond Desc: Radioactivity of Released Gasses
 Analog/Digital: D
 Engr Units/Dig States: CPM/2
 Engr Units Conversion: 2.63E-8
 Minimum Instr Range: 6.3E-7
 Maximum Instr Range: 2.8E-2
 Zero Point Reference: n/a
 Reference Point Notes: n/a
 PROC or SENS: S
 Number of Sensors: 1
 How Processed: n/a
 Sensor Locations:
 Alarm/Trip Set Points: 1.0E6
 NI Detector Power Supply
 Cut-off Power Level: n/a
 NI Detector Power Supply
 Turn-on Power Level: n/a
 Instrument Failure Mode:
 Temperature Compensation
 for DP Transmitters: n/a
 Level Reference Leg: n/a
 Unique System Desc: Engr Units Conversion based on current
 calibration. Min/max Instr Range based
 upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Gas Rad
Point ID: ARPR1279
Plant Spec Point Desc: SGTS Stack Noble Gas Low Range
Generic/Cond Desc: Radioactivity of Released Gasses
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 1.85E-4
Minimum Instr Range: 1.5E-4
Maximum Instr Range: 2.3E1
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 2.19E-2
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Gas Rad
Point ID: ARPR1289
Plant Spec Point Desc: SGTS Stack Noble Gas Low Range
Generic/Cond Desc: Radioactivity of Released Gasses
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 2.06E-4
Minimum Instr Range: 1.5E-4
Maximum Instr Range: 2.3E1
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 2.19E-2
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Gas Rad
Point ID: ARPR2213
Plant Spec Point Desc: SGTS AXM Noble Gas High Range
Generic/Cond Desc: Radioactivity of Released Gasses
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 7.52E-3
Minimum Instr Range: 3.7E-1
Maximum Instr Range: 1.19E5
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 1.0E6
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Gas Rad
Point ID: ARPR2214
Plant Spec Point Desc: SGTS AXM Noble Gas Inter Range
Generic/Cond Desc: Radioactivity of Released Gasses
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 2.7×10^{-6}
Minimum Instr Range: 8.3×10^{-4}
Maximum Instr Range: 2.45×10^2
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 1.0E6
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: ARPR

NRC ERDS Parameter: EFF Liq Rad

Point ID: ARPR1401

Plant Spec Point Desc: Rad Waste Liquid Monitor

Generic/Cond Desc: Radioactivity of Released Liquids

Analog/Digital: D

Engr Units/Dig States: CPM/2

Engr Units Conversion: 6.43E-9

Minimum Instr Range: 1.0E-7

Maximum Instr Range: 2.0E-3

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: S

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: 2.7E-7

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Liq Rad
Point ID: ARPR1521
Plant Spec Point Desc: Rad Waste Low Flow Monitor
Generic/Cond Desc: Flow rate of liquid effluents
Analog/Digital: D
Engr Units/Dig States: GPM
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 75
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points:
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARFR
NRC ERDS Parameter: EFF Liq Rad
Point ID: ARPR1522
Plant Spec Point Desc: Rad Waste High Flow Monitor
Generic/Cond Desc: Flow rate of liquid effluents
Analog/Digital: D
Engr Units/Dig States: GPM
Engr Units Conversion: Linear
Minimum Instr Range: 450
Maximum Instr Range:
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 300
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: ARPR

NRC ERDS Parameter: EFF Liq Rad

Point ID: ARPR1523

Plant Spec Point Desc: Rad Waste Flow Monitor

Generic/Cond Desc: Flow rate of liquid effluents

Analog/Digital: D

Engr Units/Dig States: GPM

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range: 7.5E4

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: S

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: 1.0E6

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: EFF Liq Rad
Point ID: ARPR1341
Plant Spec Point Desc: Service Water Liquid Monitor
Generic/Cond Desc: Radioactivity of Released Liquids
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 6.43E-9
Minimum Instr Range: 1.0E-7
Maximum Instr Range: 2.0E-3
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 2.7E-7
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: ARPR
NRC ERDS Parameter: CND A/E Rad
Point ID: ARPR1311
Plant Spec Point Desc: Pretreatment Offgas Monitor
Generic/Cond Desc: Condensor Air Ejector Radioactivity
Analog/Digital: D
Engr Units/Dig States: CPM/2
Engr Units Conversion: 8.69E-3
Minimum Instr Range: 5.5E-2
Maximum Instr Range: 5.2E2
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed:
Sensor Locations:
Alarm/Trip Set Points: 4.99E1
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: Engr Units Conversion based on current
calibration. Min/max Instr Range based
upon current calibration constant.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERD3 Parameter: DW Rad
Point ID: CM-DD060
Plant Spec Point Desc: Drywell Gamma Rad - Average
Generic/Cond Desc: Radiation Level in the Drywell
Analog/Digital: A
Engr Units/Dig States: R/Hr
Engr Units Conversion: Anti-log for input
Minimum Instr Range: 1
Maximum Instr Range: 1.0E7
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: P
Number of Sensors: 2
How Processed: Validated average
Sensor Locations:
Alarm/Trip Set Points: ≥ 1.0
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: MN Steam Rad
Point ID: D17DA001
Plant Spec Point Desc: Main Steam Line A Radiation
Generic/Cond Desc: Radiation Level of the Main Steam Line
Analog/Digital: A
Engr Units/Dig States: MB/Pr
Engr Units Conversion: Anti-log
Minimum Instr Range: 0.997
Maximum Instr Range: 1E6
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: ≤ 10
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: MN Steam Rad
Point ID: D17DA002
Plant Spec Point Desc: Main Steam Line B Radiation
Generic/Cond Desc: Radiation Level of the Main Steam Line
Analog/Digital: A
Engr Units/Dig States: MR/Hr
Engr Units Conversion: Anti-log
Minimum Instr Range: .997
Maximum Instr Range: 1E5
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations: n/a
Alarm/Trip Set Points: 10
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: MN Steam Rad
Point ID: D17DA003
Plant Spec Point Desc: Main Steam Line C Radiation
Generic/Cond Desc: Radiation Level of the Main Steam Line
Analog/Digital: A
Engr Units/Dig States: MR/Hr
Engr Units Conversion: Anti-log
Minimum Instr Range: 0.997
Maximum Instr Range: 1E6
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: ≤ 10
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: MN Steam Rad
Point ID: D17DA004
Plant Spec Point Desc: Main Steam Line D Radiation
Generic/Cond Desc: Radiation Level of the Main Steam Line
Analog/Digital: A
Engr Units/Dig States: MR/Hr
Engr Units Conversion: Anti-log
Minimum Instr Range: 0.997
Maximum Instr Range: 1E6
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: ≤ 10
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: DW Press
Point ID: B21DD010
Plant Spec Point Desc: Drywell Pressure - Average
Generic/Cond Desc: Drywell Pressure
Analog/Digital: A
Engr Units/Dig States: PSIG
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 5.0
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: P
Number of Sensors: 2
How Processed: Validated average
Sensor Locations:
Alarm/Trip Set Points: ≥ 1.68
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: DW Temp
Point ID: CM-DD010
Plant Spec Point Desc: Drywell Temperature - Average
Generic/Cond Desc: Drywell Temperature
Analog/Digital: A
Engr Units/Dig States: DEG F
Engr Units Conversion: Linear
Minimum Instr Range: 40
Maximum Instr Range: 350
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENSE: P
Number of Sensors: 2
How Processed: Validated average
Sensor Locations:
Alarm/Trip Set Points: $\geq 135^{\circ}$
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: SP Temp
Point ID: CM-DD040
Plant Spec Point Desc: Supp Pool Temp - Average
Generic/Cond Desc: Suppression Pool Water Temperature
Analog/Digital: A
Engr Units/Dig States: DEG F
Engr Units Conversion: Linear
Minimum Instr Range: 40
Maximum Instr Range: 250
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: P
Number of Sensors: 4
How Processed: Validated average
Sensor Location:
Alarm/Trip Set Points: $\geq 95^{\circ}$
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX/CZ

NRC ERDS Parameter: SP Level

Point ID: SM-DD010

Plant Spec Point Desc: Supp Pool Level - Average

Generic/Cond Desc: Suppression Pool Water Level

Analog/Digital: A

Engr Units/Dig States: Feet

Engr Units Conversion: Linear

Minimum Instr Range: 0"

Maximum Instr Range: 100"

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: P

Number of Sensors: 4

How Processed:

Sensor Locations:

Alarm/Trip Set Points: ≤ 18.9 / ≥ 19.4

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc: Units are in feet but the instrument range is
in inches.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: CX/CZ
NRC ERDS Parameter: H2 CONC
Point ID: CM-BA901
Plant Spec Point Desc: Hydrogen Concentration
Generic/Cond Desc: Drywell or Torus Hydrogen Concentration
Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 30
Zero Point Reference: n/a
Reference Point Note: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points: 1
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc: The hydrogen analyzer only runs once every 24 hrs.
Input comes thru optical isolator which would
probably give a "BAD" if isolator fails.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX/C2

NRC ERDS Parameter: H2 CONC

Point ID: CM-BA902

Plant Spec Point Desc: Hydrogen Concentration

Gener/c/Cond Desc: Drywell or Torus Hydrogen Concentration

Analog/Digital: A

Engr Units/Dig States: %

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range: 30

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: S

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: 1

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX/CZ

NRC ERDS Parameter: O2 CONC

Point ID: CM-BA903

Plant Spec Point Desc: Oxygen Concentration

Generic/Cond Desc: Drywell or Torus Oxygen Concentration

Analog/Digital: A

Engr Units/Dig States: %

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range: 30

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: S

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: 1

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc: The Hydrogen/oxygen analyzer only runs once every
24 hrs.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX/CZ

NRC ERDS Parameter: O2 CONC

Point ID: CM-BA904

Plant Spec Point Desc: Oxygen Concentration

Generic/Cond Desc: Drywell or Torus Oxygen Concentration

Analog/Digital: A

Engr Units/Dig States: %

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range: 30

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: S

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: 1

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc: The hydrogen/oxygen analyzer only runs once every
24 hrs.

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92

Reactor Unit: Clinton Unit 1

Data Feeder: CX/CZ

NRC ERDS Parameter: CST Level

Point ID: CY-BA401

Plant Spec Point Desc: Condensate Storage Tank A Level

Generic/Cond Desc: Condensate Storage Tank Level

Analog/Digital: A

Engr Units/Dig St ces: Feet

Engr Units Conversion: Linear

Minimum Instr Range: 0

Maximum Instr Range: 23.5

Zero Point Reference: n/a

Reference Point Notes: n/a

PROC or SENS: 2

Number of Sensors: 1

How Processed: n/a

Sensor Locations:

Alarm/Trip Set Points: ≤ 1.5 / ≥ 21.2

NI Detector Power Supply
Cut-off Power Level: n/a

NI Detector Power Supply
Turn-on Power Level: n/a

Instrument Failure Mode:

Temperature Compensation
for DP Transmitters: n/a

Level Reference Leg: n/a

Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
 Reactor Unit: Clinton Unit 1
 Data Feeder: Met Tower
 NRC ERDS Parameter: Wind Speed
 Point ID: ARPR1501
 Plant Spec Point Desc: Wind Speed at 60 meters
 Generic/Cond Desc: Wind Speed
 Analog/Digital: D
 Engr Units/Dig States: MPH
 Engr Units Conversion: Linear
 Minimum Instr Range: 0
 Maximum Instr Range: 100
 Zero Point Reference: n/a
 Reference Point Notes: n/a
 PROC or SENS: 3
 Number of Sensors: 1
 How Processed: n/a
 Sensor Locations:
 Alarm/Trip Set Points:
 NI Detector Power Supply
 Cut-off Power Level: n/a
 NI Detector Power Supply
 Turn-on Power Level: n/a
 Instrument Failure Mode:
 Temperature Compensation
 for DP Transmitters: n/a
 Level Reference Leg: n/a
 Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
 Reactor Unit: Clinton Unit 1
 Data Feeder: Met Tower
 NRC ERDS Parameter: Wind Speed
 Point ID: ARPR1504
 Plant Spec Point Desc: Wind Speed at 10 meters
 Generic/Control Desc: Wind Speed
 Analog/Digital: D
 Engr Units/Dig States: MPH
 Engr Units Conversion: Linear
 Minimum Instr Range: 0
 Maximum Instr Range: 100
 Zero Point Reference: n/a
 Reference Point Notes: n/a
 PROC or SENS: S
 Number of Sensors: 1
 How Processed: n/a
 Sensor Locations:
 Alarm/Trip Set Points:
 NI Detects Power Supply
 Cut-off Power Level: n/a
 NI Detector Power Supply
 Turn-on Power Level: n/a
 Instrument Failure Mode:
 Temperature Compensation
 for DP Transmitters: n/a
 Level Reference Leg: n/a
 Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: Met Tower
NRC ERDS Parameter: Wind DIR
Point ID: ARPR1502
Plant Spec Point Desc: Wind Direction at 60 meters
Generic/Cond Desc: Wind Direction
Analog/Digital: D
Engr Units/Dig States: Degrees
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 540
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points:
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: Met Tower
NRC ERDS Parameter: Wind DIR
Point ID: ARPR1505
Plant Spec Point Desc: Wind Direction at 10 meters
Generic/Cond Desc: Wind Direction
Analog/Digital: D
Engr Units/Dig States: Degrees
Engr Units Conversion: Linear
Minimum Instr Range: 0
Maximum Instr Range: 540
Zero Point Reference: n/a
Reference Point Notes: n/a
PROC or SENS: S
Number of Sensors: 1
How Processed: n/a
Sensor Locations:
Alarm/Trip Set Points:
NI Detector Power Supply
Cut-off Power Level: n/a
NI Detector Power Supply
Turn-on Power Level: n/a
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters: n/a
Level Reference Leg: n/a
Unique System Desc:

CPS DATA POINT LIBRARY REFERENCE FILE

Date: 20-Mar-92
Reactor Unit: Clinton Unit 1
Data Feeder: Met Tower
NRC ERDS Parameter: STAB Class
Point ID: *****
Plant Spec Point Desc: *** NOT AVAILABLE ***
Generic/Cond Desc: Air Stability at Reactor Site
Analog/Digital:
Engr Units/Dig States:
Engr Units Conversion:
Minimum Instr Range:
Maximum Instr Range:
Zero Point Reference:
Reference Point Notes:
PROC or SENS:
Number of Sensors:
How Processed:
Sensor Locations:
Alarm/Trip Set Points:
NI Detector Power Supply
Cut-off Power Level:
NI Detector Power Supply
Turn-on Power Level:
Instrument Failure Mode:
Temperature Compensation
for DP Transmitters:
Level Reference Leg:
Unique System Desc: