ENTERGY

Entergy Operations, Inc.
P.O. Box B
Killona, LA 70066
Tel 504 739 6774

R. F. Burski
Director
Nuclear Safety
Waterford 3

W3F1-92-0031
A4.05
QA

April 14, 1992

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

Subject: Waterford 3 SES
Docket No. 50-382
License No. NPF-38
Emergency Response Data System (ERDS)
Site Survey Questionnaire

Gentlemen:

The attached NRC ERDS data point library (DPL) and point attribute library (PAL) site survey questionnaire information is being submitted as committed to in our letter W3F1-91-0498 dated October 28, 1991. The guidelines of NUREG-1394, Revision 1, Emergency Response Data System (ERDS) Implementation, were used for this submittal.

The DPL provides background information concerning individual data points in the Waterford 3 data stream. The ERDS database or DPL contains specific information about each data point, i.e., point ID, description, engineering units, etc.

The PAL contains the communications information necessary to communicate with Waterford 3. It establishes Waterford 3's software protocol requirements which the ERDS can expect to accommodate during data transmission.

A026 1/1

If you require any additional information please contact O.P. Pipkins at (504) 739-6707.

Very truly yours,

R.F. Burski

RFB/OPP/ssf
Attachments
cc: R.D. Martin, NRC Region IV
D.L. Wigginton, NRC-NRR
J.R. Jolicoeur, NRC-AEOD
R.B. McGehee
N.S. Reynolds
T.P. LaRosa, Halliburton NUS
NRC Resident Inspectors Office

Attachment I

Point Attribute Library
(PAL)

APPENDIX B

ERDS COMMUNICATIONS DESCRIPTION AND SURVEY QUESTIONNAIRE

APPENDIX B
ERDS COMMUNICATIONS DESCRIPTION AND SURVEY QUESTIONNAIRE

The following is a questionnaire pertaining to the Nuclear Regulatory Commission's (NRC) Emergency Response Data System (ERDS). It consists of a series of questions concerning plant I/O points, software protocols, data formats, transmission frequencies, and other plant computer specific information to be used in the ERDS computer database files. Also, included here are descriptions and examples of data streams that the NRC is expecting to see transmitted over the communication line.

The purpose of collecting the data is to develop a plant-specific database that will be retrieved into the ERDS once the system is activated by a utility. It will also be used to design and implement ERDS software that can receive the utility's data transmission. In essence, this information will provide the basis for building a profile of the plant in the ERDS database.

In some cases, the I/O point data may be distributed over several computers. The ERDS considers this situation a multi-feeder site and Section IV must be filled out for each feeder.

For plants that utilize the PC based interface described in Appendix J, item 15, Section IV must be filled out for the ERDS interface PC as well as each computer which feeds data to the interface PC.

This request is covered by Office of Management and Budget Clearance Number 3150-0150 which expires March 31, 1992. The estimated average burden hours is 32 person hours per license response, including staff and management review and preparation of the requested response. These estimated average burden hours pertain only to those identified response-related matters and do not include the time for any follow on implementation. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Records and Reports Management Branch, Division of Information Support Services, Office of Information Resources Management, U.S. Nuclear Regulatory Commission, Washington, DC 20555; and to the Paperwork Reduction Project (3150-0150), Office of Management and Budget, Washington, DC 20503.

I. Contacts

Note: Please provide name, title, mailing address, and phone number.

A. Survey Coordinator (i.e., contact for later clarification of questionnaire answers):

Clarence T. Kimble III (Primary)
Engineer III
P.O. Box B, Killona, La. 70066
(504) 739-6405

Paul A. Howrilla
Supv, Computer Eng
P.O. Box B, Killona, La 70066
(504) 739-6676

B. Computer Hardware Specialist(s):

Plant Monitoring Computer (PMC)
Clifton R. George
Spec, Maint Sr.
P.O. Box B, Killona, La. 70066
(504) 739-6729

Personal Computer (PC)
William J. Baldwin
Analyst, Systems Sr.
P.O. Box B, Killona, La. 70066
(504) 739-6279

C. Systems Software Specialist(s):

Clarence T. Kimble III

D. Application-level Software Specialist(s):

Clarence T. Kimble III

E. Telephone Systems Specialist(s):

Louis C. Gaudet
Spec, Telecomm III
P.O. Box B, Killona, La. 70066
(504) 739-6363

II. ERDS Communications Description

A. Hardware

The following hardware will be supplied:

- for a single-feeder site:

  Codex 2235 modem or equivalent - V.22 2400 bps, asynchronous, auto-dialing, auto-answer, error-correcting, using the AT command set

- for a multiple-feeder site:

  Codex 6015 multiplexer.
  Codex 2264 modem or equivalent - V.32 9600 bps, asynchronous, auto-dialing, auto-answer, error-correcting, using the AT command set

  (for an alternate approach see Appendix A, Item 7)

The modems are intended to be operated in the auto-reliable link mode (referred to as MNP in the modem manuals). There are several modem parameters that affect MNP operation. These are discussed in the sections of the modem manuals pertaining to MNP. The single feeder modems at the NRC Operations Center are configured for auto-reliable link mode, local terminal flow control, and default break handling.

B. Software

1. Data Transmission

All transmissions, from both the site and the ERDS, will be terminated with a carriage return (< CR >).

a. Site will initiate a link request in ASCII using:

- the three-character site designator,
- the word LINK,
- local site time and date in the format MM/DD/YY/HH:MM:SS, and
- a < CR > .

If the site does not receive a response from the ERDS within one minute, it should send another link request message and continue sending them at one-minute intervals. If more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line.

b. ERDS will respond in ASCII with:

- the three-character site designator,
- the word ACCEPTED or DENIED, and
- a < CR > .

If the ERDS responds with the denied message, the site should wait one minute and then send a link request message and continue sending them at one-minute intervals. If

more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line.

c. When the ERDS is ready to receive data, it will send an initiate message in ASCII using:

- the three-character site designator,
- the word INITIATE, and
- a <CR>.

If the ERDS does not send an initiate message within one minute of the accept message, the site should send the link reconnect message (described in Section II.B.1.f).

d. Upon receipt of the initiate message, the plant begins transmission of data at a 15-second rate. The data string consists of:

- a header containing the three-character site designator and date and time in the format MM/DD/YY/HH:MM:SS,
- the data packet sequenced with point identifier, value, and quality tag,
- a trailer containing the checksum value of the data packet, and a <CR>.

e. When the site or ERDS wishes to terminate the connection, an ASCII message will be sent containing:

- the three-character site designator,
- the word TERMINATE, and
- a <CR>.

f. If a site is inadvertently terminated (due to loss of communications or receipt of terminate message) and the incident is still underway, the site should reconnect with the ERDS by redialing and using the link reconnect message. The link reconnect message should be used any time the phone line is lost after the receipt of an Accept Message (described in Section II.B.1.b). This message is in ASCII and will contain:

- the three-character site designator,
- the word RECONNECT,
- local site time and date in the format MM/DD/YY/HH:MM:SS, and
- a <CR>.

Upon receipt of this message, the ERDS will respond with the accept and initiate messages as described in Sections II.B.1.b and II.B.1.c. If the ERDS responds with a link deny message (described in Section II.B.1.b), the site should stop trying to reconnect and send a link request message (described in Section II.B.1.a). If the ERDS does not respond to the site's reconnect request within one minute, the site should send another reconnect request and continue sending reconnect requests once a minute. If more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line. It is the responsibility of the site to monitor the outgoing line for loss of communications.

Once a physical connection has been established with the NRC, the site should not disconnect the phone line until a TERMINATE message (described in section

II.B.1.e) has been transmitted. If problems are encountered in the link request sequence, do not hang up the line but proceed with the steps outlined above.

g. If the site will transmit in EBCDIC rather than ASCII, the following applies:

(1) The link request message (defined in II.B.1.a) and the reconnect message (defined in II.B.1.f) must be in ASCII.
(2) All replies sent by the ERDS to the site will be in ASCII.
(3) The terminate message sent by the site may be in EBCDIC or ASCII.
(4) All update sets sent by the site must be in EBCDIC.

2. Data Format

The following three delimiters have been identified:

(1) field delimiter (*),

(2) data set delimiter (\), and

(3) carriage return (< CR >).

Note: The length of the messages sent by the ERDS (e.g., ACCEPTED, DENIED, INITIATE, TERMINATE) are variable and it is recommended that the site software use the data set delimiter as the message delimiter for messages received from the ERDS.

a. Link requests will be in ASCII as described in II.B.1.a. with each field separated by a field delimiter and the request terminated with a data set delimiter. For example, PA1*LINK*01/12/89/11:48:50\ < CR > .

b. The ERDS response will be in ASCII as described in II.B.1.b, with each field separated by a field delimiter and the response terminated with a data set delimiter. For example, PA1*ACCEPTED\ < CR > .

c. When the ERDS is ready to receive data it will respond in ASCII as described in II.B.1.c with each field separated by a field delimiter and the response terminated with a data set delimiter. For example, PA1*INITIATE\ < CR > .

d. Data streams will be in ASCII and will consist of three parts (header, data, and trailer) as described in II.B.1.d, with each field separated by a field delimiter and each of the three parts separated by a data set delimiter. For example,

Header: PA1*01/12/89/11:50:30\
Data: B21CP004*-0.1234E+00*3*.....(for each parameter)\
Trailer: 0000056000\ < CR >

e. The point identifier may be up to 12 characters in length.

f. The value may be up to 20 characters in length.

g. The following quality tags will be accepted by the ERDS:

Good	= 0	Value is within range tolerance for discreet points or input points are within tolerance for composed points.
Off-scan	= 1	Point is currently out-of-service.
Suspect	= 2	Value is not bad yet should not be considered good. This quality will occur primarily on composed values when enough good inputs are present to allow the calculation to be made yet a bad quality on other inputs may make the result questionable.
Bad	= 3	Value is not within tolerance for discreet points or calculation of a composed point may not be made due to the qualities of its inputs.
Unknown	= 4	No quality indicator available.
Operator Entered	= 5	Value has been manually entered, overriding the discreet or composed value.
High Alarm	= 6	Value is in high alarm.
Low Alarm	= 7	Value is in low alarm.

h. The checksum which accompanies each update set will be an integer value calculated by summing each of the bytes of the transmission, up to and including the dataset delimiter following the body of the update set (the body of the update set being the portion containing the parameter, value, and quality indications). This integer checksum value will then be encoded into the update set as a 10-digit value, left-padded with zeros as required to fill the 10-digit field. The checksum is the sum of the transmitted bytes.

i. The reconnect link request message will be in ASCII as described in Section II.B.1.f with each field separated by a field delimiter and the request terminated with a data set delimiter. For example, PA1*RECONNECT*01/12/89/11:48:50\<CR>.

3. Protocol

a. ERDS will use XON/XOFF to stop, resume, or suspend data transmission for the site.

b. Communication parameters:

- eight data bits
- 1 stop bit
- parity = none

4. Exceptions

Please note any exceptions which must be taken to Section II and explain why.

NO EXCEPTIONS.

III. Selection Of Data Feeders

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

ONE. THE PLANT MONITORING COMPUTER (PMC) IS A FOUR PROCESSOR COMPLEX INTERCONNECTED BY A SHARED MEMORY SYSTEM.

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.

THE PMC WILL PROVIDE ALL ERDS DATA POINTS. THE RADIATION MONITORING SYSTEM (RMS) AND THE QUALIFIED SAFETY PARAMETER DISPLAY SYSTEM (QSPDS) ARE THE PRIMARY SOURCE FOR SOME OF THE ERDS PARAMETERS. THE PMC WILL BE USED TO TRANSMIT RMS AND QSPDS DATA SINCE:

A) THE PMC RECEIVES THE RMS DATA AT A ONE MINUTE FREQUENCY OVER DUAL, REDUNDANT DATA LINES.

B) THE PMC RECEIVES THE QSPDS DATA AT A THREE SECOND FREQUENCY.

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 PMC IS THE SITE TIME DETERMINING FEEDER.

IV. Data Feeder Information

Note: A new Section IV must be filled out for each feeder system selected.

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.

   PMC = PLANT MONITORING COMPUTER

   b. Is this the site time determining feeder?

   YES, THE PMC IS THE SITE TIME DETERMINING FEEDER.

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

   THE PMC WILL TRANSMIT AN UPDATE SET TO THE PC BASED ERDS SEND SYSTEM EVERY 30 SECONDS.

2. Hardware/Software Environment

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

   THE ERDS DATA FEEDER PROCESSOR WITHIN THE PMC COMPLEX IS A SYSTEM ENGINEERING LABORATORIES (SEL) 32/77.

   b. Identify the operating system.

   THE ERDS DATA FEEDER PROCESSOR RUNS THE MAPPED PROGRAMMING EXECUTIVE (MPX-32) VERSION 2.4 OPERATING SYSTEM.

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

   PMC SYSTEM TIME IS STANDARD OR DAYLIGHT SAVINGS TIME AS APPROPRIATE.

   d. In what time zone is this feeder located?

   THE PMC IS LOCATED IN THE CENTRAL TIME ZONE.

3. Data Communication Details

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

ASYNCHRONOUS SERIAL DATA COMMUNICATION IS SUPPORTED, HOWEVER FULL-MODEM CONTROL AS DESCRIBED IN THE ERDS COMMUNICATION TECHNICAL SUMMARY IS NOT.

b. Will this feeder transmit in ASCII or EBCDIC?

THE PMC WILL TRANSMIT IN ASCII.

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

THE PMC CAN TRANSMIT AT A SERIAL BAUD RATE OF 2400 BPS.

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

NO, SOFT FLOW CONTROL VIA XON/XOFF IS NOT SUPPORTED.

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

NO, WATERFORD 3 INTENDS TO USE THE PC BASED ERDS SEND SYSTEM AS AN INTERFACE BETWEEN THE PMC AND THE NRC ERDS.

e. If it is not feasible to reconfigure 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?

YES, A PORT EXISTS FOR COMMUNICATION BETWEEN THE PMC AND THE PC BASED ERDS SEND 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 COMMUNICATION PORT TO THE PC BASED ERDS SEND SYSTEM WILL BE DEDICATED TO THE ERDS.

4. Data Feeder Physical Environment and Management

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

THE PMC IS LOCATED IN THE PMC ROOM WHICH IS ADJACENT TO THE CONTROL ROOM. THE PMC IS WITHIN 100 FEET OF THE TSC. THE PMC IS 2 MILES FROM THE EOF BY LINE OF SIGHT AND 4 MILES FROM THE EOF OVER EXISTING ROADWAYS.

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

THE PMC IS POWERED BY AN UNINTERRUPTIBLE POWER SUPPLY SYSTEM WHICH INCLUDES AN ONE HOUR BATTERY BACKUP.

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

YES, THE PMC IS SUPPORTED BY HUMAN OPERATORS.

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

A PMC TECHNICIAN OR OPERATOR IS ON SITE AT ALL TIMES.

IV. Data Feeder Information

Note: A new Section IV must be filled out for each feeder system selected.

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.

   ERDS PC - EMERGENCY RESPONSE DATA SYSTEM PERSONAL COMPUTER BASED SEND SYSTEM

   b. Is this the site time determining feeder?

   NO, THE PMC IS THE SITE TIME DETERMINING FEEDER.

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

   THE ERDS PC WILL TRANSMIT AN UPDATE SET TO THE NRC ERDS EVERY 30 SECONDS.

2. Hardware/Software Environment

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

   THE ERDS PC IS AN ADVANCED LOGIC RESEARCH FLEXCACHE 386/25. THE PC WILL BE EQUIPPED TO BE FUNCTIONALLY EQUIVALENT TO THE REQUIREMENTS GIVEN IN SECTION 5 OF THE MULTIPLE INPUT/MULTIPLE OUTPUT ERDS SEND SYSTEM SPECIFICATION.

   b. Identify the operating system.

   THE ERDS PC WILL RUN THE SCO XENIX SYSTEM V RELEASE 2.3.2 OPERATING SYSTEM.

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

   THE ERDS PC TIME WILL BE STANDARD OR DAYLIGHT SAVINGS TIME AS APPROPRIATE.

   d. In what time zone is this feeder located?

   THE ERDS PC IS LOCATED IN THE CENTRAL TIME ZONE.

3. Data Communication Details

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

ASYNCHRONOUS SERIAL DATA COMMUNICATION WITH FULL-MODEM CONTROL IS SUPPORTED.

b. Will this feeder transmit in ASCII or EBCDIC?

THE ERDS PC WILL TRANSMIT IN ASCII.

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

THE ERDS PC CAN TRANSMIT AT A SERIAL BAUD RATE OF 2400 BPS.

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

YES, XON/XOFF FLOW CONTROL IS SUPPORTED.

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

NO PROBLEMS ARE ANTICIPATED IF THE NRC USES XON/XOFF TO CONTROL DATA TRANSMISSION.

e. If it is not feasible to reconfigure 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?

YES, A PORT EXISTS FOR COMMUNICATION BETWEEN THE ERDS PC AND THE NRC ERDS.

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 ERDS PC DATA PATH (PHONE LINE TO THE FTS 2000 AND OUTPUT PORT) TO THE NRC ERDS WILL BE DEDICATED.

4. Data Feeder Physical Environment and Management

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

THE ERDS PC WILL BE LOCATED IN THE PMC ROOM. REFER TO APPENDIX B, SECTION IV SURVEY RESPONSE FOR PMC LOCATION WITH RESPECT TO THE TSC, EOF, AND CONTROL ROOM.

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

THE ERDS PC WILL BE POWERED BY AN UNINTERRUPTIBLE POWER SUPPLY SYSTEM WHICH INCLUDES A BATTERY BACKUP SUFFICIENT TO SUPPORT ITS OPERATION OVER THE ONE HOUR BATTERY BACKUP PROVIDED TO ITS DATA FEEDER (THE PMC).

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

YES, THE ERDS PC WILL BE SUPPORTED BY HUMAN OPERATORS.

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

A TECHNICIAN OR OPERATOR IS ONSITE AT ALL TIMES.

Attachment II

Data Point Library
(DPL)

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: NI POWER RNG
Point ID: C27000
Plant Spec Point Desc.: Core Power (Log--Excore Neutron Flux)
Generic/Cont Desc.: Nuclear Instr Power Range

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A

Minimum Instr Range: 2.0x10E-08
Maximum Instr Range: 200

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Highest of 2 QSPDS Composed Points
Sensor Locations: Outside Reactor Vessel at Level of Core
Alarm/Trip Set Points: Alarm: HI = 102 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Excore Nuclear Instrument Protective Channel Drawer C & D

INPUTS:
C26236: RY 001A CHNL C NEUTRON FLUX (QSPDS)
C26330: RY 001B CHNL D NUETRON FLUX (QSPDS)

Prepared by: PMC 4/3/92 Verified by: TCP 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 110

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: NI INTER RNG
Point ID: A27102
Plant Spec Point Desc.: Control Channel 1 Neutron Flux Level
Generic/Cont Desc.: Nuclear Instr Intermediate Range

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A P 4/4/92

Minimum Instr Range: 0.0
Maximum Instr Range: 125.6

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Outside Reactor Vessel at Level of Core
Alarm/Trip Set Points: N/A P 4/4/92

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Excore Nuclear Instrument Neutron Flux Detector 0007
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
A27102: CONTROL CH 1 NEUTRON FLUX LEVEL

TCP
4/3/92

Prepared by: PMC P.M. 4/3/92 Verified by: [signature]
(Printed initials/signature/date)

Data Base Item Number: 120

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: NI SOURC RNG
Point ID: S2710
Plant Spec Point Desc.: Startup Channel 2 Neutron Flux Level
Generic/Cont Desc.: Nuclear Instr Source Range

Analog/Digital: A
Engr Units/Dig States: CPS
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 1.0x10E+05

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: Units Conversion
Sensor Locations: Outside Reactor Vessel at Level of Core
Alarm/Trip Set Points: N/A PMC 4/4/92

NI Detector Power Supply
Cut-off Power Level: 1.0x10E-05 %
NI Detector Power Supply
Turn-on Power Level: 1.0x10E-05 %

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A PMC 4/4/92
Level Reference Leg: N/A

Unique System Desc.:
Excore Nuclear Instrument Neutron Flux Detector 0005
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
A27101: STARTUP CH 2 NEUTRON FLUX LEVEL

Prepared by: PMC P.M. Verified by: TCP 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 130

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: REAC VES LEV
Point ID: C27030
Plant Spec Point Desc.: Reactor Vessel Plenum Level from HJTCs
Generic/Cont Desc Reactor Vessel Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 100% = 8.6 INCHES 4/4/92

Minimum Instr Range: 0
Maximum Instr Range: 100

Zero Point Reference: COMPLX
Reference Point Notes: 0% = 12.6 INCHES ABOVE FUEL ALIGN. PLATE 4/4/92

PROC or SENS: P
Number of Sensors: 2
How Processed: Lowest of 2 QSPDS Calculated Values
Sensor Locations: HJTCs in Vessel Plenum Area
Alarm/Trip Set Points: Alarm: HI = N/A LO = 99

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Qualified Safety Parameter Display System Calculated Value
DATA IS NOT AVAILABLE IN REQUESTED FORM
100% IS 98.6 INCHES ABOVE TOP OF FUEL ALIGNMENT PLATE 4/4/92

INPUTS:
C26403: QSPDS 1 REACTOR VESSEL PLENUM LEVEL (RLEVP)
C26396: QSPDS 2 REACTOR VESSEL PLENUM LEVEL (RLEVP)

Prepared by: PHC P.H. Cox 4/1/92 Verified by: PAH P.A. Hinds 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 210

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: TEMP CORE EX
Point ID: C27009
Plant Spec Point Desc.: Core Exit Temperature--Highest Rep. CET
Generic/Cont Desc.: Highest Temperature at Core Exit

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: N/A

Minimum Instr Range: 32
Maximum Instr Range: 2300

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Highest of 2 QSPDS Calculated Values
Sensor Locations: Thermocouples at Core Exit
Alarm/Trip Set Points: Alarm: HI = 700 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: High

Temperature Compensation
For DP Transmitters: W/A CR4-287
Level Reference Leg: N/A

Unique System Desc.:
Qualified Safety Parameter Display System Calculated Value

INPUTS:
C26417: QSPDS 1 REPRESENTATIVE CET (TRCET)
C26510: QSPDS 2 REPRESENTATIVE CET (TRCET)

Prepared by: PHC 4/3/92 Verified by: 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 220

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SUB MARGIN
Point ID: C27012
Plant Spec Point Desc.: Subcooled Margin--Hi Rep CET or RCS Temp
Generic/Cont Desc.: Saturation Temperature--High CET

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: N/A

Minimum Instr Range: -2268
Maximum Instr Range: 645

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Lowest of 4 QSPDS Calculated Values
Sensor Locations: N/A
Alarm/Trip Set Points: Alarm: HI = N/A LO = 28

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CR 4797
Level Reference Leg: N/A

Unique System Desc.:
Qualified Safety Parameter Display System Calculated Value With 1 or more Reactor Coolant Pumps running, value is sub-cooled margin based on highest hot/cold leg temp. with range of -718 to 645. With no Reactor Coolant Pumps running, value is sub-cooled margin based on highest core exit temp. (Rep. CET) with range of -2268 to 663.
INPUTS: C26506: QSPDS 2 CET TEMP SAT MARGIN (TMARCET)
C26413: QSPDS 1 CET TEMP SAT MARGIN (TMARCET)
C26508: QSPDS 2 RCS TEMP SAT MARGIN (TMARRCS)
C26415: QSPDS 1 RCS TEMP SAT MARGIN (TMARRCS)

Prepared by: PMC 4/3/92 Verified by: [signature] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 230

DATA POINT LIBRARY REFERENCE FILE

Date :	04/01/92
Reactor Unit:	WF3
Data Feeder:	N/A
NRC ERDS Parameter:	CORE FLOW
Point ID:	C24564
Plant Spec Point Desc.:	Total Vessel Mass Flow Rate
Generic/Cont Desc.:	Total Reactor Coolant Flow
Analog/Digital:	A
Engr Units/Dig States:	LB/HR
Engr Units Conversion:	N/A
Minimum Instr Range:	N/A
Maximum Instr Range:	N/A
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	13
How Processed:	Pump speed; Pump diff. pres.; Spec. vol.
Sensor Locations:	Reactor coolant pumps, cold leg, pzr
Alarm/Trip Set Points:	N/A
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	Medium
Temperature Compensation For DP Transmitters:	Y
Level Reference Leg:	N/A

Unique System Desc.:
Core Operating Limits Supervisory System Calculated Value

NOTE: Vessel Mass Flow Rate must be greater than or equal to the Technical Specification limit of 148 million pounds per hour.

INPUTS:
C24564: TOTAL VESSEL MASS FLOW RATE

Prepared by: PMC P.M. Lee 4/2/92 Verified by: Edward D. Wiegel 4-2-92
(Printed initials/signature/date)

Data Base Item Number: 240

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG LEVEL 1/A
Point ID: C27005
Plant Spec Point Desc.: Steam Generator 1 Level
Generic/Cont Desc.: Steam Generator 1 Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A 4/4/92

Minimum Instr Range: 0
Maximum Instr Range: 100

Zero Point Reference: COMFLX
Reference Point Notes: 6 FEET below UTUBES

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Steam Generator
Alarm/Trip Set Points: Alarm: HI = 96 LO = 50

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N
Level Reference Leg: WET 4/4/92

Unique System Desc.:
Steam Generator Level Transmitter 1115B

INPUTS:
A11120: STM GEN 1 WIDE RANGE LVL

Prepared by: PMC P.M. 4/1/92 Verified by: L. Ortiz 4/3/92
(Printed Initials/signature/date)

Data Base Item Number: 311

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG LEVEL
Point ID: C27006
Plant Spec Point Desc.: Steam Generator 2 Level
Generic/Cont Desc.: Steam Generator 2 Water Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A 4/4/92

Minimum Instr Range: 0
Maximum Instr Range: 100

Zero Point Reference: COMPLX
Reference Point Notes: 6 FEET below UTUBES

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Steam Generator
Alarm/Trip Set Points: Alarm: HI = 96 LO = 50

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N
Level Reference Leg: WET 4/4/92

Unique System Desc.:
Steam Generator Level Transmitter 1125A

INPUTS:
A11220: STM GEN 2 WIDE RANGE LVL

Prepared by: PMC P.M. Gee 4/1/92 Verified by: R. Downs 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 312

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter SG LEVEL 3/C
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Steam Generator 3 Water Level

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A CR # 79-1
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC [illegible] 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 313

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG LEVEL 4/D
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Steam Generator 4 Water Level

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC P.M. Lea 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 314

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG PRESS 1/A
Point ID: C27007
Plant Spec Point Desc.: Steam Generator 1 Pressure
Generic/Cont Desc.: Steam Generator 1 Pressure

Analog/Digital: A
Engr Units/Dig States: PSIA
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 1200

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Average of 4 Field Inputs
Sensor Locations: Steam Generator
Alarm/Trip Set Points: Alarm: HI = 1065 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CHP 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Steam Generator Pressure Transmitter 1013A, B, C & D

INPUTS:
A11114: SG1 PRESS CHNL A
A11115: SG1 PRESS CHNL B
A11116: SG1 PRESS CHNL C
A11117: SG1 PRESS CHNL D

Prepared by: PMC P.M. 4/1/92 Verified by: R. O'Hara 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 321

Date : 04/01/92
Reactor Unit: WT3
Data Feeder: N/A

NRC ERDS Parameter: SG PRESS 2/B
Point ID: C27008
Plant Spec Point Desc.: Steam Generator 2 Pressure
Generic/Cont Desc.: Steam Generator 2 Pressure

Analog/Digital: A
Engr Units/Dig States: PSIA
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 1200

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Average of 4 Field Inputs
Sensor Locations: Steam Generator
Alarm/Trip Set Points: Alarm: HI = 1065 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Steam Generator Pressure Transmitter 1023A, B, C & D

INPUTS:
A11214: SG2 PRESS CHNL A
A11215: SG2 PRESS CHNL B
A11216: SG2 PRESS CHNL C
A11217: SG2 PRESS CHNL D

Prepared by: PMC P. M. [illegible] 4/1/92 Verified by: R. [illegible] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 322

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG PRESS 3/C
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Steam Generator 3 Pressure

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 323

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG PRESS 4/D
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Steam Generator 4 Pressure

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A CH 4-92
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC P.M. 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 324

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: MN FD FL 1/A
Point ID: C26260
Plant Spec Point Desc.: Feedwater to Steam Generator 1 Flow
Generic/Cont Desc.: Stm Gen 1 Main Feedwater Flow

Analog/Digital: A
Engr Units/Dig States: LB/HR
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 8.0x10E+06

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Single Field Input via QSPDS
Sensor Locations: Feedwater Line
Alarm/Trip Set Points: N/A 4/4/92

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4-1-92
Level Reference Leg: N/A

Unique System Desc.:
Feedwater Flow Transmitter 2000A

INPUTS:
C26260: QSPDS 1 FW FT2000A FW TO SG1 FLOW (A033)

Prepared by: PMC P.M. 4/1/92 Verified by: RJP 4/1/92
(Printed initials/signature/date)

Data Base Item Number: 331

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: MN FD FL 2/B
Point ID: C26261
Plant Spec Point Desc.: Feedwater to Steam Generator 2 Flow
Generic/Cont Desc.: Stm Gen 2 Main Feedwater Flow

Analog/Digital: A
Engr Units/Dig States: LB/HR
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 8.0x10E+06

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Single Field Input via QSPDS
Sensor Locations: Feedwater Line
Alarm/Trip Set Points: N/A ↗ 4/4/92

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4/4/92
Level Reference Leg: N/A

Unique System Desc.:
Feedwater Flow Transmitter 2000B

INPUTS:
C26261: QSPDS 1 FW FT2000B FW TO SG2 FLOW (A034)

Prepared by: PMC P.M. 4/1/92 Verified by: RJP 4/1/92
(Printed initials/signature/date)

Data Base Item Number: 332

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: MN FD FL 3/C
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 3 Main Feedwater Flow

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 333

Date :	04/01/92
Reactor Unit:	WF3
Data Feeder:	N/A
NRC ERDS Parameter:	MN FD FL 4/D
Point ID:	N/A
Plant Spec Point Desc.:	N/A
Generic/Cont Desc.:	Stm Gen 4 Main Feedwater Flow
Analog/Digital:	
Engr Units/Dig States:	N/A
Engr Units Conversion:	N/A
Minimum Instr Range:	N/A
Maximum Instr Range:	N/A
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	N/A
Alarm/Trip Set Points:	N/A
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	N/A 04/4-142
Level Reference Leg:	N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PHC P.M. [signature] 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 334

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: AX FD FL 1/A
Point ID: S10101
Plant Spec Point Desc.: Emergency Feedwater to Stm Gen 1 Flow
Generic/Cont Desc.: Stm Gen 1 Auxiliary FW Flow.

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 800

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: Square Root of a Single Field Input
Sensor Locations: Auxiliary Feedwater Line
Alarm/Trip Set Points: Alarm: HI = N/A LO = 150

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4/4/92
Level Reference Leg: N/A

Unique System Desc.:
Emergency Feedwater Flow Transmitter 8330A

INPUTS:
A10101: EMER FW TO SG1 FLOW DP

Prepared by: PMC P.M. 4/1/92 Verified by: R. Glass 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 341

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: AX FD FL 2/B
Point ID: S10201
Plant Spec Point Desc.: Emergency Feedwater to Stm Gen 2 Flow
Generic/Cont Desc.: Stm Gen 2 Auxiliary FW Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 800

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: Square Root of a Single Field Input
Sensor Locations: Auxiliary Feedwater Line
Alarm/Trip Set Points: Alarm: HI = N/A LO = 150

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: O/K GJA 4-1-92
Level Reference Leg: N/A

Unique System Desc.:
Emergency Feedwater Flow Transmitter 8330B

INPUTS:
A10201: EMER FW TO SG2 FLOW DP

Prepared by: PHC P.H.C. 4/1/92 Verified by: R.O. 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 342

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: AX FD FL 3/C
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Conc Desc.: Stm Gen 3 Auxiliary FW Flow

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A GIA-92
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC P.M. 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 343

DATA POINT LIBRARY REFERENCE SHEET

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: AX FD FL 4/D
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 4 Auxiliary FW Flow

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A CR 4-742
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PHC P.M. 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 344

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: HL TEMP 1/A
Point ID: C27001
Plant Spec Point Desc.: Steam Generator 1 Hot Leg Temperature
Generic/Cont Desc.: Stm Gen 1 Inlet Temperature

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: N/A

Minimum Instr Range: 50
Maximum Instr Range: 750

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Single Field Input via QSPDS
Sensor Locations: Hot Leg
Alarm/Trip Set Points: Alarm: HI = 620 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: W/A CN4-792
Level Reference Leg: N/A

Unique System Desc.:
Reactor Coolant Temperature Element 0112HA

INPUTS:
C26238: QSPDS 1 TE RC0112HA HOT LEG SG1 TEMP (A005)

Prepared by: PMC P.M. 4/1/92 Verified by: J.P.T. 4-2-92
(Printed initials/signature/date)

Data Base Item Number: 351

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: HL TEMP 2/B
Point ID: C27002
Plant Spec Point Desc.: Steam Generator 2 Hot Leg Temperature
Generic/Cont Desc.: Stm Gen 2 Inlet Temperature

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: N/A

Minimum Instr Range: 50
Maximum Instr Range: 750

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average of 2 Field Inputs via QSPDS
Sensor Locations: Hot Leg
Alarm/Trip Set Points: Alarm: HI = 620 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CAR 4742
Level Reference Leg: N/A

Unique System Desc.:
Reactor Coolant Temperature Element 0122HA & 0122HB

INPUTS:
C26426: QSPDS 1 TE RC0122HA HOT LEG SG2 TEMP (A040)
C26331: QSPDS 2 TE RC0122HB HOT LEG SG2 TEMP (A002)

Prepared by: PMC P.M. [illegible] 4/1/92 Verified by: [illegible] 4-2-92
(Printed initials/signature/date)

Data Base Item Number: 352

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: HL TEMP 3/C
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 3 Inlet Temperature

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PHC P.M. 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 353

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: HL TEMP A/D
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 4 Inlet Temperature

Analog/Digital:
Engr Units/Dig Status: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A PMC 4-1-92
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC P.M. 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 354

JOHN TAYLOR

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CL TEMP 1/A
Point ID: C27003
Plant Spec Point Desc.: Steam Generator 1 Cold Leg Temperature
Generic/Cont Desc.: Stm Gen 1 Outlet Temperature

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: N/A

Minimum Instr Range: 50
Maximum Instr Range: 750

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average of 2 Field Inputs via QSPDS
Sensor Locations: Cold Leg
Alarm/Trip Set Points: Alarm: HI = 560 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Reactor Coolant Temperature Element 0112CA & 0112CB

INPUTS:
C26239: QSPDS 1 TE RC0112CA COLD LEG 1A TEMP (A006)
C26333: QSPDS 2 TE RC0112CB COLD LEG 1B TEMP (A004)

Prepared by: PMC 4/1/92 Verified by: J.D.T. 4-2-92
(Printed initials/signature/date)

Data Base Item Number: 361

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CL TEMP 2/B
Point ID: C27004
Plant Spec Point Desc.: Steam Generator 2 Cold Leg Temperature
Generic/Cont Desc.: Stm Gen 2 Outlet Temperature

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: N/A

Minimum Instr Range: 50
Maximum Instr Range: 750

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average of 2 Field Inputs via QSPDS
Sensor Locations: Cold Leg
Alarm/Trip Set Points: Alarm: HI = 560 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Reactor Coolant Temperature Element 0122CA & 0122CB

INPUTS:
C26240: QSPDS 1 TE RC0122CA COLD LEG 2A TEMP (A007)
C26332: QSPDS 2 TE RC0122CB COLD LEG 2B TEMP (A003)

Prepared by: PMC 4/1/92 Verified by: JJT 4-2-92
(Printed initials/signature/date)

Data Base Item Number: 362

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CL TEMP 3/C
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 3 Outlet Temperature

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC P.M. 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 363

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CL TEMP 4/D
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 4 Outlet Temperature

Analog/Digital:
Engr Units Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations: N/A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A CP 4-742
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC P.M. 4/1/92 Verified by: NA
(Printed initials/signature/date)

Data Base Item Number: 364

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: RCS PRESSURE
Point ID: C27011
Plant Spec Point Desc.: Pressurizer Pressure
Generic/Cont Desc.: Reactor Coolant System Pressure

Analog/Digital: A
Engr Units/Dig States: PSIA
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 3000

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Average of 2 Field Inputs
Sensor Locations: Pressurizer
Alarm/Trip Set Points: Alarm: HI = 2400 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Reactor Coolant Pressure Transmitter 0102A & 0102B

INPUTS:
A12217: PRZ PRES WR A
A12218: PRZ PRES WR B

Prepared by: PHC P. M. 4/1/92 Verified by: J.D.T. 4-2-92
(Printed initials/signature/date)

Data Base Item Number: 410

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: PRZR LEVEL
Point ID: C27010
Plant Spec Point Desc.: Pressurizer Level
Generic/Cont Desc.: Primary System Pressurizer Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: ~~N/A~~ 1% = 56 CALCONS ↑ 4/4/92

Minimum Instr Range: 0
Maximum Instr Range: 100

Zero Point Reference: TNKBOT ↑ 4/4/92
Reference Point Notes: 0% = EMPTY

PROC or SENS: P
Number of Sensors: 3
How Processed: Average of 3 Field Inputs
Sensor Locations: Pressurizer
Alarm/Trip Set Points: Alarm: HI = 62.5 LO = 28

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N ↑ 4/4/92
Level Reference Leg: WET

Unique System Desc.:
Reactor Coolant Level Transmitter 0103, 0110X & 0110Y

INPUTS:
A12200: PRZ LVL
A12201: PRZ LVL CNTRL-1
A12202: PRZ LVL CNTRL-2

Prepared by: PMC P.M. [signature] 4/1/92 Verified by: T.D.T. [signature] 4.2.92
(Printed initials/signature/date)

Data Base Item Number: 420

DATA POINT LIBRARY REFERENCE ...

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: RCS CHG/MU
Point ID: C27021
Plant Spec Point Desc.: Charging Flow
Generic/Cont Desc.: Primary System Charging/MU Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 150

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Single Field Input via QSPDS
Sensor Locations: Charging Pumps' Discharge Header
Alarm/Trip Set Points: Alarm: HI = N/A LO = 40

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A MA 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Chemical Volume and Control Flow Transmitter 0212

INPUTS:
C26245: QSPDS 1 FT CH0212 CHARGE PMP MKUP LFOW (A014)

Prepared by: PMC P.M. 4/1/92 Verified by: RJP 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 430

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: HP SI FLOW
Point ID: CI # 279116
Plant Spec Point Desc.: LATER
Generic/Cont Desc.: High Press. Safety Inject. Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: LATER
Maximum Instr Range: LATER ✓ 4/4/92

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 6
How Processed: Sum of 6 Field Inputs (4 via QSPDS)
Sensor Locations: N/A
Alarm/Trip Set Points: N/A ✓ 4/4/92

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A WH X-747
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitters Listed Below
DATA IS NOT AVAILABLE IN REQUESTED FORM
Alternative is 6 separate points for HPSI flow.
Transmitters: 0311, 0321, 0331, 0341, 0390A & 0390B
POINT UNDER DEVELOPMENT AT THIS TIME ✓ 4/4/92
INPUTS:

C26247:	C26248:
C26249:	C26250:
A43004:	A43005:

Prepared by: PMC P.M. Lee 4/1/92 Verified by: [signature]
(Printed initials/signature/date)

Data Base Item Number: 440

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: N/A
Point ID: C26247
Plant Spec Point Desc.: HPSI Flow to Cold Leg 1A
Generic/Cont Desc.: N/A

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 500 4/4/92

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Pipe between HPSI header and Cold Leg 1A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4/4/92
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitter 0311

INPUTS:
C26247: FT SI0311 HPSI FLOW TO LOOP 1A

Prepared by: [signature] 4/1/92 Verified by: [signature] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 441

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: N/A
Point ID: C26248
Plant Spec Point Desc.: HPSI Flow to Cold Leg 1B
Generic/Cont Desc.: N/A

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0 4/4/92
Maximum Instr Range: 500

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Pipe between HPSI header and Cold Leg 1B
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4/7/92
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitter 0321
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
C26248: FT SI0321 HPSI FLOW TO LOOP 1B

Prepared by: PMC 4/4/92 Verified by: RJP 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 442

DATA POINT SUMMARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: N/A
Point ID: C26249
Plant Spec Point Desc.: HPSI Flow to Cold Leg 2A
Generic/Cont Desc.: N/A

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0 ✓ 4/4/92
Maximum Instr Range: 500

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Pipe between HPSI header and Cold Leg 2A
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitter 0331
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
C26249: FT SI0331 HPSI FLOW TO LOOP 2A

Prepared by: [illegible] 4/1/92 Verified by: [illegible] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 443

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: N/A
Point ID: C26250
Plant Spec Point Desc.: HPSI Flow to Cold Leg 2B
Generic/Cont Desc.: N/A

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 500 4/4/92

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: Pipe between HPSI header and Cold Leg 2B
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4/4/92
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitter 0341
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
C26250: FT SI0341 HPSI FLOW TO LOOP 2B

Prepared by: [signature] 4/1/92 Verified by: [signature] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 444

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: N/A
Point ID: S43004
Plant Spec Point Desc.: HPSI Flow to Hot Leg 1
Generic/Cont Desc.: N/A

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 500 4/4/92

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: Square Root of a Single Field Input
Sensor Locations: Pipe between HPSI header and Hot Leg 1
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitter 0390A
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
A43004: HPSI HOT LEG 1 INJ FLOW DP

Prepared by: [signature] 4/1/92 Verified by: [signature] 4/2/92
(Printed initials/signature/date)

Data Base Item Number: 445

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: N/A
Point ID: S43005
Plant Spec Point Desc.: HPSI Flow to Hot Leg 2
Generic/Cont Desc.: N/A

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0 4/4/92
Maximum Instr Range: 500

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: Square Root of a Single Field Input
Sensor Locations: Pipe between HPSI header and Hot Leg 2
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CJA 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitter 0390B
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
A43005: HPSI HOT LEG 2 INJ FLOW DP

Prepared by: PMC PMC 4/1/92 Verified by: [signature] 4/7/92
(Printed initials/signature/date)

Data Base Item Number: 446

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: LP SI FLOW
Point ID: CI # 279116
Plant Spec Point Desc.: LATER
Generic/Cont Desc.: Low Press. Safety Inject. Flow

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: LATER ↑ 4/4/92
Maximum Instr Range: LATER

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Sum of 2 Field Inputs
Sensor Locations: N/A
Alarm/Trip Set Points: N/A ↑ 4/4/92

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitters 0306, 0307, 1306 & 1307
DATA IS NOT AVAILABLE IN REQUESTED FORM
Alternatives: C27019 or C27020 (S43101 or S43201)

LP Safety Inject Flow: A43201 & A43101

Shutdown Cooling Flow: C26251 & C26252

POINT NUMBER DEVELOPEMENT AT THIS TIME ↑ 4/4/92

Prepared by: [signature] 4/1/92 Verified by: [signature] 4/1/92
(Printed initials/signature/date)

Data Base Item Number: 450

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: N/A
Point ID: C27019
Plant Spec Point Desc.: LPSI Pump A Flow
Generic/Cont Desc.: N/A

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 5500

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: Square Root of a Single Field Input
Sensor Locations: LPSI Pump A Discharge Header
Alarm/Trip Set Points: Alarm: HI = N/A LO = 3000

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Safety Injection Flow Transmitter 0306
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
A43101: LPSI PMP A OUTL FLOW
S43101: LPSI PMP A OUTL FLOW

Prepared by: [signature] 4/1/92 Verified by: [signature] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 451

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: N/A
Point ID: C27020
Plant Spec Point Desc.: LPSI Pump B Flow
Generic/Cont Desc.: N/A

Analog/Digital: A
Engr Units/Dig States: GPM
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 5500

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: Square Root of a Single Field Input
Sensor Locations: LPSI Pump B Discharge Header
Alarm/Trip Set Points: Alarm: HI = N/A LO = 3000

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A HA 4-1-92
Level Reference Leg: N/A

Unique System Desc.:
Satety Injection Flow Transmitter 0307
DATA IS NOT AVAILABLE IN REQUESTED FORM

INPUTS:
A43201: LPSI PMP B OUTL FLOW
S43201: LPSI PMP B OUTL FLOW

Prepared by: PHC P.H. Lee 4/1/92 Verified by: R.P Robert Porter 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 452

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CTMNT SMP NR
Point ID: C27013
Plant Spec Point Desc.: Containment Flood Sump Level
Generic/Cont Desc.: CNTMT Sump Narrow Range Level

Analog/Digital: A
Engr Units/Dig States: FEET
Engr Units Conversion: 1% is 0.3 foot change in level

Minimum Instr Range: 0
Maximum Instr Range: 30

Zero Point Reference: COMPLX
Reference Point Notes: 0 = 1.5 feet above TNKBOT @ -25 foot el.

PROC or SENS: P
Number of Sensors: 2
How Processed: Highest of 2 Field Inputs (1 via QSPDS)
Sensor Locations: Containment Flood Sump
Alarm/Trip Set Points: Alarm: HI = 2.5 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N
Level Reference Leg: WET

Unique System Desc.:
Sump Pump Level Transmitter 6705A & 6705B
TEMPERATURE COMPENSATION CURVES NOT USED ↑ 4/4/92

ITT Barton Type 764/352

INPUTS:
A42613: CNTMT SUMP LEVEL (SP LT6705A)
C26235: QSPDS 1 SP LT6705A CNTMT SUMP LEVEL (A025)

Prepared by: PHC P.M. Lee 4/1/92 Verified by: JRB J. Boyce 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 460

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CTMNT SMP WR
Point ID: C26257
Plant Spec Point Desc.: Containment Safety Injection Sump Level
Generic/Cont Desc.: CNTMT Sump Wide Range Level

Analog/Digital: A
Engr Units/Dig States: FEET
Engr Units Conversion: ~~N/A~~ PUMPS SUCTION AT 5 FOOT LEVEL 4/4/92

Minimum Instr Range: 0
Maximum Instr Range: 16

Zero Point Reference: TANKBOT
Reference Point Notes: 0 FEET = EMPTY 4/4/92

PROC or SENS: S
Number of Sensors: 1
How Processed: Single Field Input via QSPDS
Sensor Locations: Containment Safety Injection Sump
Alarm/Trip Set Points: Alarm: HI = 0.5 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N
Level Reference Leg: WET 4/4/92

Unique System Desc.:
Safety Injection Level Transmitter 7145A

TEMPERATURE COMPENSATION CURVES NOT USED 4/4/92

INPUTS:
C26257: QSPDS 1 SI LT7145A CNTMT FLOOD LVL (A026)

Prepared by: PMC P.M. 4/1/92 Verified by: R.J.C. R.J.C. 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 470

DATA POINT [illegible]

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: EFF GAS RAD
Point ID: C27018
Plant Spec Point Desc.: Plant Stack Gas Radiation
Generic/Cont Desc.: Radioactivity of Released Gasses

Analog/Digital: A
Engr Units/Dig States: uCI/CC
Engr Units Conversion: N/A

Minimum Instr Range: 1.0x10E-07
Maximum Instr Range: 1.0x10E-01

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Maximum of 2 Radiation Monitor Points
Sensor Locations: Plant Stack
Alarm/Trip Set Points: Alarm: HI = 8.00x10E-04 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CAA-742
Level Reference Leg: N/A

Unique System Desc.:
Process Radiation Monitor Radiation Element 0100-1 & 0100-2

INPUTS:
C48071: EGS133 PLT STK G RLVL P01001S
C48080: EGS143 PLT STK G RLVL P01002S

Prepared by: PMC P.M.C 4/1/92 Verified by: Jason Kane 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 511

DATA POINT LIBRARY REFERENCE DATA

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: EFF LIQ RAD
Point ID: C48098
Plant Spec Point Desc.: Liquid Waste Radiation Level
Generic/Cont Desc.: Radioactivity of Released Liquid

Analog Digital: A
Engr Units/Dig States: uCI/ML
Engr Units Conversion: N/A

Minimum Instr Range: 1.0x10E-06
Maximum Instr Range: 1.0x10E-01

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Single Radiation Monitor Input
Sensor Locations: Laundry Tank to Main Condenser Discharge
Alarm/Trip Set Points: ALARM: HI = 8.6x10E-02 LO = N/A JA 4/4/92

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A JA 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Process Radiation Monitor Radiation Element 0647

INPUTS:
C48098: WASTE MANAGEMENT LIQUID RAD LEVEL

Prepared by: PMC PMC 4/1/92 Verified by: Jean Kome 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 512

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: COND A/E RAD
Point ID: C27026
Plant Spec Point Desc.: Condensor Exhaust Radioactivity
Generic/Cont Desc.: Cond. Air Ejector Radioactivity

Analog/Digital: A
Engr Units Dig States: uCI/CC
Engr Units Conversion: N/A

Minimum Instr Range: 1.0x10E-07
Maximum Instr Range: 1.0x10E-01

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: Single Radiation Monitor Point
Sensor Locations: COND. VAC. PUMP EXHAUST P 4/4/92
Alarm/Trip Set Points: Alarm: HI = 1.55x10E-06 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4-3-92
Level Reference Leg: N/A

Unique System Desc.:
Process Radiation Monitor Radiation Element 0002

INPUTS:
C48083: EGG153 CVP G RLVL P0100

Prepared by: PMC P 4/1/92 Verified by: 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 513

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CNTMNT RAD
Point ID: C27016
Plant Spec Point Desc.: Containment Area Radiation
Generic/Cont Desc.: Radiation Level in Containment

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units Conversion: N/A

Minimum Instr Range: 5.0x10E+00
Maximum Instr Range: 5.0x10E+05

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Maximum of 4 Radiation Monitor Points
Sensor Locations: CONTAINMENT - 4 FOOT ELEVATION
Alarm/Trip Set Points: Alarm: HI = 490 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CSA 4-92
Level Reference Leg: N/A

Unique System Desc.:
Area Radiation Monitor Radiation Detector 5024 thru 5027

INPUTS:
C48017: AAS018 CPI B A5024S
C48019: AAS020 CPI A A5025S
C48022: AAS023 CPI B A5027S
C48023: AAS024 CPI A A5026S

Prepared by: PMC 4/1/92 Verified by: 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 514

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: RCS LTDN RAD
Point ID: C48176
Plant Spec Point Desc.: Rad Level of RCS Letdown Line
Generic/Cont Desc.: Rad Level of RCS Letdown Line

Analog/Digital: A
Engr Units/Dig States: uCI/ML
Engr Units Conversion: N/A

Minimum Instr Range: 1.0x10E~~-06~~ E-04 4/4/92
Maximum Instr Range: 1.0x10E~~-01~~ E+02

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: RCS LETDOWN LINE
Alarm/Trip Set Points: ALARM: HI = 5.0x10E+01 LO = N/A 4/4/92

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CHK 4 1 92
Level Reference Leg: N/A

Unique System Desc.:
Process Radiation Monitoring Radiation Element 0202

INPUTS:
C48176: PLL405 CVCS L RLVL P0202

Prepared by: PMC PMC 4/1/92 Verified by: [signature] 4/3/92
(Printed initials/signature/Date)

Data Base Item Number: 515

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: MAIN SL 1/A
Point ID: C27023
Plant Spec Point Desc.: Main Steam Line 1 Radiation
Generic/Cont Desc.: Stm Gen 1 Steam Line Rad Level

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units Conversion: N/A

Minimum Instr Range: 1.0x10E+00
Maximum Instr Range: 1.0x10E+05

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Single Radiation Monitor Point
Sensor Locations: MAIN STEAM Line 1 4/14/92
Alarm/Trip Set Points: Alarm: HI = 2 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Area Radiation Monitor Radiation Detector 5500A

INPUTS:
C48232: MSA559 MN STM LINE A A5500A

Prepared by: PMC PMC 4/1/92 Verified by: Jason Jones 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 521

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: MAIN SL 2/B
Point ID: C27024
Plant Spec Point Desc.: Main Steam Line 2 Radiation
Generic/Cont Desc.: Stm Gen 2 Steam Line Rad Level

Analog/Digital: A
Engr Units/Dig States: MR/HR
Engr Units Conversion: N/A

Minimum Instr Range: 1.0x10E+00
Maximum Instr Range: 1.0x10E+05

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: Single Radiation Monitor Point
Sensor Locations: MAIN STEAM LINE 2 4/4/92
Alarm/Trip Set Points: Alarm: HI = 2 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CSP 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Area Radiation Monitor Radiation Detector 5500B

INPUTS:
C48233: MSA560 MN STM LINE B A5500B

Prepared by: PMC PMC 4/1/92 Verified by: Susan Lowe 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 522

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: MAIN SL 3/C
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 3 Steam Line Rad Level

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations:
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: [illegible]
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC [signature] 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 523

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: MAIN SL 4/D
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 4 Steam Line Rad Level

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations:
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A CHA-7-92
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PHC P.M. 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 524

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG BD RAD 1A
Point ID: C27025
Plant Spec Point Desc.: Stm Gen 1 & 2 Blowdown Rad Level
Generic/Cont Desc.: Stm Gen 1 Blowdown Rad Level

Analog/Digital: A
Engr Units/Dig States: uCI/ML
Engr Units Conversion: N/A

Minimum Instr Range: 1.0x10E-06
Maximum Instr Range: 1.0x10E-01

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: S
Number of Sensors: 1
How Processed: N/A
Sensor Locations: RCS BLOWDOWN LINE
Alarm/Trip Set Points: ALARM: HI = 1.6x10E-05 LO = N/A 4/4/92

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A CAN 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Process Radiation Monitoring Radiation Element 0100X
DATA IS NOT AVAILABLE IN THE REQUESTED FORM

INPUTS:
C48182: PLL407 SGBD L RLVL P0100

Prepared by: PMC PM 4/1/92 Verified by: [signature] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 531

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG BD RAD 2B
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 2 Blowdown Rad Level

Analog/Digital: A
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations:
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
SEE SG BD RAD 1A: Stm Gen 1 & 2 Blowdown Rad Level
DATA IS NOT AVAILABLE IN THE REQUESTED FORM

Prepared by: PMC P.M. 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 532

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG BD RAD 3C
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 3 Blowdown Rad Level

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations:
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PHC 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 533

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: SG BD RAD 4D
Point ID: N/A
Plant Spec Point Desc.: N/A
Generic/Cont Desc.: Stm Gen 4 Blowdown Rad Level

Analog/Digital:
Engr Units/Dig States: N/A
Engr Units Conversion: N/A

Minimum Instr Range: N/A
Maximum Instr Range: N/A

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS:
Number of Sensors: N/A
How Processed: N/A
Sensor Locations:
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrumen. Failure Mode: N/A

Temperature Compensation
For DP Transmitters: N/A CAP 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
THIS PARAMATER DOES NOT APPLY TO WATERFORD 3

Prepared by: PMC P.M. [signature] 4/1/92 Verified by: N/A
(Printed initials/signature/date)

Data Base Item Number: 534

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CTMNT PRESS
Point ID: C27015
Plant Spec Point Desc.: Containment Pressure
Generic/Cont Desc.: Containment Pressure

Analog/Digital: A
Engr Units/Dig States: PSIA
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 70

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 2
How Processed: Maximum of 2 Field Inputs
Sensor Locations: CONTAINMENT +21 FOOT LEVEL
Alarm/Trip Set Points: Alarm: HI = 17.0 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A
Level Reference Leg: N/A

Unique System Desc.:
Engineered Safety Features Pressure Transmitter 6750A & B

INPUTS:
A42208: CNTMT BLDG PRES WR A
A42209: CNTMT BLDG PRES WR B

Prepared by: PAC 4/1/92 Verified by: TCP 4/3/91
(Printed initials/signature/date)

Data Base Item Number: 510

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: CTMNT TEMP
Point ID: C27014
Plant Spec Point Desc.: Containment Temperature
Generic/Cont Desc.: Containment Temperature

Analog/Digital: A
Engr Units/Dig States: DEGF
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 450

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 4
How Processed: Average of 4 Field Inputs
Sensor Locations: FAN COOLER AIR INLETS 4/4/92
Alarm/Trip Set Points: Alarm: HI = 120 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4.7.92
Level Reference Leg: N/A

Unique System Desc.:
Containment Cooling Temperature Element 5150.2A/B, 5155.2A/B

INPUTS:
A51115: CFC A AIR INLT TEMP
A51119: CFC B AIR INLT TEMP
A51123: CFC C AIR INLT TEMP
A51127: CFC D AIR INLT TEMP

Prepared by: PMC PMC 4/1/92 Verified by: [signature] 4/2/92
(Printed initials/signature/date)

Data Base Item Number: 620

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: H2 CONC
Point ID: C27022
Plant Spec Point Desc.: Containment Hydrogen Gas Concentration B
Generic/Cont Desc.: Containment H2 Concentration

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: N/A

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: Single Field Input via QSPDS
Sensor Locations: Reactor Building -4 Foot Elev
Alarm/Trip Set Points: Alarm: HI = 3 LO = N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A per 4-1-92
Level Reference Leg: N/A

Unique System Desc.:
Hydrogen Recombiner Analyzer Indicator Transmitter 3800B

INPUTS:
C26339: QSPDS 2 HRA AIT3800B CNTMT H2 CONC (A013)

Prepared by: PMC PM 4/1/92 Verified by: [signature] 4/1/92
(Printed initials/signature/date)

Data Base Item Number: 630

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: BWST LEVEL
Point ID: C27031
Plant Spec Point Desc.: Refueling Water Storage Pool Level
Generic/Cont Desc.: Borated Water Storage Tank Level

Analog/Digital: A
Engr Units/Dig States: %
Engr Units Conversion: 1% is approximately 5,800 gallons

Minimum Instr Range: 0
Maximum Instr Range: 100

Zero Point Reference: TNKBOT
Reference Point Notes: 0% indicates tank is empty

PROC or SENS: P
Number of Sensors: 4
How Processed: AVERAGE OF 4 FIELD INPUTS ↑ 4/4/92
Sensor Locations: AT RWSP
Alarm/Trip Set Points: Alarm: HI = 96 LO = 83

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
for DP Transmitters: N ↑ 4/4/92
Level Reference Leg: WET

Unique System Desc.:
Safety Injection Level Transmitter 0305A, B, C & D
Tank capacity is approximately 577,000 gallons.

TEMPERATURE COMPENSATION CURVES NOT USED ↑ 4/4/92

INPUTS:
A44001: SIS RWSP LVL 1 ~~A44003~~
A44002: SIS RWSP LVL 2 ~~A44004~~
A44003: SIS RWSP LVL 3 ~~A44007~~ A44018 ↑ 4/4/92
A44004: SIS RWSP LVL 4 ~~A44005~~

Prepared by: PMC P.M. [signature] 4/1/92 Verified by: RJP [signature] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 710

04/01/9

TOM PAINE

DATA POINT LIBRARY REFERENCE FILE

Date : 04/01/92
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: WIND SPEED
Point ID: C48500
Plant Spec Point Desc.: Primary 33 Ft Wind Speed 15 Min Avg
Generic/Cont Desc.: Wind Speed at Reactor Site

Analog/Digital: A
Engr Units/Dig States: M/S
Engr Units Conversion: N/A

Minimum Instr Range: 0
Maximum Instr Range: 50

Zero Point Reference: N/A
Reference Point Notes: N/A

PROC or SENS: P
Number of Sensors: 1
How Processed: 15 Min Average of a Single Field Input
Sensor Locations: Primary Environmental Monitor Tower @33'
Alarm/Trip Set Points: N/A

NI Detector Power Supply
Cut-off Power Level: N/A
NI Detector Power Supply
Turn-on Power Level: N/A

Instrument Failure Mode: Medium

Temperature Compensation
For DP Transmitters: N/A 4-7-92
Level Reference Leg: N/A

Unique System Desc.:
Environmental Monitoring Wind Speed/Dir Transmitter 0103

INPUTS:
A48500: PRI METR TWR 33 FT WIND SPEED

Prepared by: PMC P.M. 4/1/92 Verified by: _____
(Printed initials/signature/date)

Data Base Item Number: 720