



**Entergy
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W3F1-97-0006

A4.05

PR

February 13, 1997

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
Plant Attribute Library Update

Gentlemen:

Waterford 3 is submitting, in the attachment, an update to the ERDS Plant Attribute Library (PAL) in accordance with 10CFR50, Appendix E, VI, 3.b. The update is associated with equipment and software changes being incorporated for the Waterford 3 meteorological tower system upgrade. Three data points have changed and have been implemented in the system. A summary of the changes are as follows:

Original Point Id	New Point Id	Point Description of Purpose
C48500	C48526	PRI TWR 33' WIND SPEED 15 MIN RAVG
C48510	C48530	PRI TWR 33' WIND DIRECTION 15 MIN RAVG
C48504	C48528	PRI TWR 199-33' DIFF TEMP 15 MIN RAVG

These are the last three data points sent in the group of point information transferred. The attachment includes the three original data base item sheets for points C48500, C48510, and C48504, followed by the revised data base item sheets for points C48526, C48530, and C48528.

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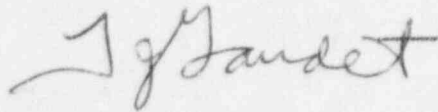
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Plant Attribute Library Update
W3F1-97-0006
Page 2
February 13, 1997

Waterford 3 personnel will contact the NRC Operations Center by phone to test ERDS data communications with the new updated data points.

If you have any questions regarding the attached report or require additional information, please contact me at (504) 739-6666 or Oscar Pipkins at (504) 739-6707.

Very truly yours,

A handwritten signature in cursive script, appearing to read "T.J. Gaudet".

T.J. Gaudet
Acting - Director
Nuclear Safety & Regulatory Affairs

TJG/OPP/ssf

cc: E.W. Merschoff, NRC Region IV
C.P. Patel, NRC-NRR
R.B. McGehee
N.S. Reynolds
J.R. Jolicoeur, NRC-NRR
NRC Resident Inspectors Office

The Three Original
Data Base Item Sheets
For Points
C48500, C48510, and C48504

DATA POINT LIBRARY REFERENCE FILE

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

Replaced By
 Point C48526
 12/96
 DC3414

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
 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: PHC PGM ^{4/1/92} Verified by: [Signature]
 (Printed initials/signature/date)

Data Base Item Number: 720

DATA POINT LIBRARY REFERENCE FILE

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

Replaced By
Point C48530
12/96
DC3414

NRC ERDS Parameter: WIND DIR
Point ID: C48510
Plant Spec Point Desc.: Primary 33 Ft Wind Direction 15 Min Avg
Generic/Cont Desc.: Wind Direction at Reactor Site

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

Minimum Instr Range: 0
Maximum Instr Range: 360

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

PROC or SENS: 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: W/A 4/1/92
Level Reference Leg: N/A

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

INPUTS:
A48510: PRI METR TWR 33FT WIND DIR

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

Data Base Item Number: 730

04/03/92

Page + 65

DATA POINT LIBRARY REFERENCE FILE

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

Replaced By
C48528
12/96
DC3414

NRC ERDS Parameter: STAB CLASS
Point ID: C48504
Plant Spec Point Desc.: Primary Diff Air Temperature 15 Min Avg
Generic/Cont Desc.: Air Stability at Reactor Site

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

Minimum Instr Range: -5
Maximum Instr Range: 10

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
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.:
Environmental Monitoring Temperature Element 0101 A & B
DATA IS NOT AVAILABLE IN THE REQUESTED FORM

INPUTS:
A48504: PRI METR TWR DIF TEMP PRI

Prepared by: AMC P. M. L. 4/3/92 TCP
Verified by: [Signature] 4/3/92
(Printed initials/signature/date)

Data Base Item Number: 740

04/03/92

Page 266

The Revised
Data Base Item Sheets
For Points
C48526, C48530, and C48528

DATA POINT LIBRARY REFERENCE FILE

Date: 01/08/97
 Reactor Unit: WF3
 Data Feeder: N/A

 NRC ERDS Parameter: WIND SPEED
 Point ID: C48526
 Plant Spec Point Desc.: PRI TWR 33' WIND SPEED 15M RAVG
 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: 55

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

 PROC or SENS: S
 Number of Sensors: 1
 How Processes: 15 Min Running 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: Low

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

 Unique System Desc.:
 Environmental Monitoring Wind Speed Transmitter 0103A

INPUTS:

Wind speed signal is generated by a light chopper disc driven by the anemometer. As the disc rotates, it interrupts a light transmitted between an LED and a photo-cell to produce a series of electrical pulses. The frequency of these pulses is proportional to wind speed. As the anemometers RPMs increase the wind speed indication in meters per second increases ($m/s = (RPM/42.55) + .1341$). The local environmental monitoring computer transmits the data to the plant computer via RS232 every 10 seconds.

Prepared by: *Robert Whitman* 1/9/97 Verified by: *Bayne* 1/9/97

(Printed initials/signature/date)

Data Base Item Number: 720

01/08/97

Page 64

DATA POINT LIBRARY REFERENCE FILE

Date:	01/08/97
Reactor Unit:	WF3
Data Feeder:	N/A
NRC ERDS Parameter:	WIND DIR
Point ID:	C48530
Plant Spec Point Desc.:	PRI TWR 33' WIND DIR 15M RAVG
Generic/Cont Desc.:	Wind Direction at Reactor Site
Analog/Digital:	A
Engr Units/Dig States:	DEGFR
Engr Units Conversion:	N/A
Minimum Instr Range:	0
Maximum Instr Range:	360
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	1
How Processes:	15 Min Running 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:	
Level Reference Leg:	N/A

Unique System Desc.:
Environmental Monitoring Wind Direction Transmitter 0103B

INPUTS:

Analog signal is converted to digital information by computer system
at the met tower which transmits data via RS-232 line as digital information.

Prepared by: Robert Whitman 1/9/97 Verified by: [Signature] 1/9/97

(Printed initials/signature/date)

Data Base Item Number: 730

01/08/97

Page 65

DATA POINT LIBRARY REFERENCE FILE

Date: 01/08/97
Reactor Unit: WF3
Data Feeder: N/A

NRC ERDS Parameter: STAB CLASS
Point ID: C48528
Plant Spec Point Desc.: PRI TWR 199-33' DELTA T 15M RAVG
Generic/Cont Desc.: Air Stability at Reactor Site

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

Minimum Instr Range: -5
Maximum Instr Range: 10

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

PROC or SENS: P
Number of Sensors: 2
How Processes: 15 Min Running Average of the 199' minus the 33' temperatures
Sensor Locations: Primary Environmental Monitor Tower at 199' and 33' elevations
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:
Level Reference Leg: N/A

Unique System Desc.:
Environmental Monitoring Temperature Element 0101 A & B

INPUTS:

Analog signal for 199' and 33' elevation are converted to digital information by computer system at the met tower. The met tower computer performs the ΔT calculation and data is transmitted via RS-232 line as digital information.

Prepared by: Robert Whitman 1/9/97 Verified by: [Signature] 1/9/97

(Printed initials/signature/date)

Data Base Item Number: 740

01/08/97

Page 66