



H. B. Barron
Vice President, McGuire
Nuclear Generation Department

Duke Power Company
A Duke Energy Company
McGuire Nuclear Station
MG01VP
12700 Hagers Ferry Rd.
Huntersville, NC 28078-9340

(704) 875-4800 OFFICE
(704) 875-4809 FAX

February 12, 1998

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

Subject: McGuire Nuclear Station
Docket Nos. 50-369, 370
Emergency Response Data System (ERDS) Changes

By letter dated December 11, 1997, McGuire notified the NRC of data point library changes on the Emergency Response Data System (ERDS) for Unit 2 per 10CFR50 Appendix E, Section VI. Please find enclosed additional information requested by the NRC via conference call on January 21 1998.

Questions should be directed to Kay Crane, McGuire Licensing and Compliance, at (704) 875-4306.

Sincerely,

FOR H. B. Barron, Vice President
McGuire Nuclear Station

Attachment

10261

100203

9802200245 980212
PDR ADOCK 05000369
F PDR



U.S. Nuclear Regulatory Commission
February 12, 1998
Page 2

cc: Mr. L. A Reyes
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. F. Rinaldi, Project Manager
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
One White Flint North, Mail Stop 9H3
Washington, D.C. 20555

J. Jolicoeur
U. S. Nuclear Regulatory Commission
Mail Stop T4A43
Washington, D.C. 20555

S. Shaeffer
Senior NRC Resident Inspector
McGuire Nuclear Station

Attachment

1. For Points M1&2A1124 and M1&2A0976, PZR LEVELs: Zero point is 46.75" above tank bottom and PZR Heater top is 12.7%.
2. For Points M1&2P0180 and M1&2P0181, REAC VES LVLs, 64% is Top of Core and 66.5% is Centerline of Hot Legs.
3. For Points M1&2A1004, M1&2A1005, M1&2A0970, and M1&2A0988, SG LEVELs, 0% is 9" above tube sheet and 69.4% is at the top of the tube bundles.
4. For the following radiation monitor detectors:

M1&2E0174 (EMF36H), EFF GAS RAD,
M1E0307&M2E0307D1 (EMF49H), EFF LIQ RAD,
M1&2E0153 (EMF34H), SG BD RAD,

the following approximate correlation factors can be used:

EMF36H (Both Units) - $2.0\text{E-}04$ $\mu\text{Ci-ml/cpm}$ - based on XE-133 equivalent
EMF49H (Both Units) - $1.0\text{E-}03$ $\mu\text{Ci-ml/cpm}$ - based on CS-133 equivalent
EMF34H (Both Units) - $1.0\text{E-}03$ $\mu\text{Ci-ml/cpm}$ - based on CS-133 equivalent

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	PRZR LEVEL
POINT ID:	M1A1124
PLANT SPEC POINT DESC:	U1 PZR LEVEL I
GENERIC/COND DESC:	PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 5.22"
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	Bottom
REFERENCE POINT NOTES:	Zero point is 46.75" above tank bottom, Htr top=12.7%.
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Pressurizer Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	WET
UNIQUE SYSTEM DESC.:	Reverse acting D. P. transmitter supplies pressurizer level signals.
point xref:	6.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	PRZR LEVEL
POINT ID:	M1A0976
PLANT SPEC POINT DESC:	U1 PZR LEVEL III
GENERIC/COND DESC:	PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 5.22"
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	Bottom
REFERENCE POINT NOTES:	Zero point is 46.75" above tank bottom, Htr top=12.7%.
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Pressurizer Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	WET
UNIQUE SYSTEM DESC.:	Reverse acting D. P. transmitter supplies pressurizer level signals.
point xref:	6.3

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	M1P0180
PLANT SPEC POINT DESC:	U1 RVLIS TRAIN A VESSEL LEVEL
GENERIC/COND DESC:	REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	120
ZERO POINT REFERENCE:	TAF
REFERENCE POINT NOTES:	64%=Top of Core, 66.5%=centerline of Hot Leg
PROC OR SENS:	S
NUMBER OF SENSORS:	7
HOW PROCESSED:	Using RVLIS
SENSOR LOCATIONS:	Reactor Vessel (Incore & Excore)
Current Pressure ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	Reactor Vessel Level is derived from (RVLIS) Reactor Vessel leveling system, which interacts with numerous sensors (level, pressure, temperature) to process a lower range level (0-70%) and an upper range level (60-120%). This point is the best of the lower or upper range. This is a Train A sensor.

point xref: 81

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	M1P0181
PLANT SPEC POINT DESC:	U1 RVLIS TRAIN B VESSEL LEVEL
GENERIC/COND DESC:	REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL:	-
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	120
ZERO POINT REFERENCE:	TAF
REFERENCE POINT NOTES:	64%=Top of Core, 66.5%=centerline of Hot Leg
PROC OR SENS:	S
NUMBER OF SENSORS:	7
HOW PROCESSED:	Using RVLIS
SENSOR LOCATIONS:	Reactor Vessel (Incore & Excore)
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	Reactor Vessel Level is derived from (RVLIS) Reactor Vessel leveling system, which interacts with numerous sensors (level, pressure, temperature) to process a lower range level (0-70%) and an upper range level (60-120%). This point is the best of the lower or upper range. This is a Train A sensor.
point xref:	8.2

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	SG LEVEL 1/A
POINT ID:	M1A1004
PLANT SPEC POINT DESC:	1A S/G WIDE RANGE LEVEL
GENERIC/COND DESC:	STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 6 inches of H2O
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	TUBSHT
REFERENCE POINT NOTES:	0% is 9" above tube sheet, 69.4%=top of tube bundle
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Stm Gen A Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	Wst
UNIQUE SYSTEM DESC.:	Steam Generator level is sent to OAC via the process control cabinet. Level is Cold Calibrated.
point xref:	14.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	SG LEVEL 2/B
POINT ID:	1A1005
PLANT SPEC POINT DESC:	1B 3/G WIDE RANGE LEVEL
GENERIC/COND DESC:	STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 6 inches of H2O
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	TUBSHT
REFERENCE POINT NOTES:	0% is 9" above tube sheet, 69.4%=top of tube bundle
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Stm Gen B Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	Wet
UNIQUE SYSTEM DESC.:	Steam Generator level is sent to OAC via the process control cabinet. Level is Cold Calibrated.
point xref:	14.2

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	SG LEVEL 3/C
POINT ID:	M1A0970
PLANT SPEC POINT DESC:	1C S/G WIDE RANGE LEVEL
GENERIC/COND DESC:	STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 6 inches of H2O
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	TUBSHT
REFERENCE POINT NOTES:	0% is 9" above tube sheet, 69.4%=top of tube bundle
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Stm Gen C Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	Wet
UNIQUE SYSTEM DESC.:	Steam Generator level is sent to OAC via the process control cabinet. Level is Cold Calibrated.
point xref:	14.3

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	SG LEVEL 4/D
POINT ID:	M1A0988
PLANT SPEC POINT DESC:	1D S/C WIDE RANGE LEVEL
GENERIC/COND DESC:	STEAM GENERATOR D WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 6 inches of H2O
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	TUBSH7
REFERENCE POINT NOTES:	0% is 9" above tube sheet, 69.4%=top of tube bundle
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Stm Gen D Vessel
Current Prodc ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	Wet
UNIQUE SYSTEM DESC.:	Steam Generator level is sent to OAC via the process control cabinet. Level is Cold Calibrated.
point xref:	14.4

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	M1E0174
PLANT SPEC POINT DESC:	1EMF36H UNIT VENT GAS HI RANGE
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GAS
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	approx. correlation factor 2.0E-04 uCi/cpm-ml
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	1700000000
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Unit 1 Vent Stack
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	None
point xref:	29.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	M1E0307
PLANT SPEC POINT DESC:	1EMF49H WASTE LIQUID DISC HI RANGE
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQUID
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	approx. correlation factor 1.0E-03 uCi/cpm-ml
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	1700000000
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Dn Stream Waste Monitor Tank Pump
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	None
point xref:	30.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC1
DATA FEEDER:	U1 OAC
NRC ERDS PARAMETER:	SG BD RAD
POINT ID:	M1E0153
PLANT SPEC POINT DESC:	1EMF34H S/G LIQUID RAD MON HI RANGE
GENERIC/COND DESC:	STM GEN BLOWDOWN RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	approx. correlation factor 1.0E-03 uCi/cpm-ml
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	17000000000
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	Shielded, Nominal Reading = 1E1 - 1E7
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Outlet Stm Gen Blow Down Line
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	Stm Gen Blowdown Rad level is found through continuous blowdown of each steam gen. (A-D). Upon high radiation, EMF34 will control isolation valves and shutdown.
point xref:	32.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	PRZR LEVEL
POINT ID:	M2A1124
PLANT SPEC POINT DESC:	U2 PZR LEVEL I
GENERIC/COND DESC:	PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 5.22"
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	Bottom
REFERENCE POINT NOTES:	0%=46.75" above tank bottom.Htr top=12.7%.
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Pressurizer Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	WET
UNIQUE SYSTEM DESC.:	Reverse acting D. P. transmitter supplies pressurizer level signals.
point xref:	6.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	PRZR LEVEL
POINT ID:	M2A0976
PLANT SPEC POINT DESC:	U2 PZR LEVEL III
GENERIC/COND DESC:	PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 5.22"
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	Bottom
REFERENCE POINT NOTES:	0%=46.75" above tank bottom. Htr top=12.7%.
PROC OR SIGNALS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Pressurizer Vessel
Current Process ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	WET
UNIQUE SYSTEM DESC.:	Reverse acting D. P. transmitter supplies pressurizer level signals.
point xref:	6.3

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	M2P0180
PLANT SPEC POINT DESC:	RVLIS TRAIN A VESSEL LEVEL
GENERIC/COND DESC:	REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	120
ZERO POINT REFERENCE:	TAF
REFERENCE POINT NOTES:	64%=Top of Core, 66.5% = Centerline of Hot leg
PROC OR SENS:	S
NUMBER OF SENSORS:	7
HOW PROCESSED:	Using RVLIS
SENSOR LOCATIONS:	Reactor Vessel (Incore & Excore)
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	Reactor Vessel Level is derived from (RVLIS) Reactor Vessel leveling system, which interacts with numerous sensors (level, pressure, temperature) to process a lower range level (0-70%) and an upper range level (60-120%). This point is the best of the lower or upper range. 64%=Top of Core. 66.5%=Centerline of Hot Leg This is a Train A sensor.
point xref:	8.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	M2P0181
PLANT SPEC POINT DESC:	RVLIS TRAIN B VESSEL LEVEL
GENERIC/COND DESC:	REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	N/A
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	120
ZERO POINT REFERENCE:	TAF
REFERENCE POINT NOTES:	64%=Top of Core, 66.5% = Centerline of Hot leg
PROC OR SENS:	S
NUMBER OF SENSORS:	7
HOW PROCESSED:	Using RVLIS
SENSOR LOCATIONS:	Reactor Vessel (Incore & Excore)
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	Reactor Vessel Level is derived from (RVLIS) Reactor Vessel leveling system, which interacts with numerous sensors (level, pressure, temperature) to process a lower range level (0-70%) and an upper range level (60-120%). 64%=Top of Core. 66.5%=Centerline of Hot leg. This point is the best of the lower or upper range. This is a Train A sensor.
point xref:	9.2

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	SG LEVEL 1/A
POINT ID:	M2A1004
PLANT SPEC POINT DESC:	2A S/G WIDE RANGE LEVEL
GENERIC/COND DESC:	STEAM GENERATOR A WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 6 inches of H ₂ O
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	TUBSHT
REFERENCE POINT NOTES:	0% is 9" above tube sheet, 69.4%=top of tube bundle
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Stm Gen A Vessel
Current Prodc ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	Wet
UNIQUE SYSTEM DESC.:	Steam Generator level is sent to OAC via the process control cabinet. Level is Cold Calibrated.
point xref:	14.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	SG LEVEL 2/B
POINT ID:	M2A1005
PLANT SPEC POINT DESC:	2B S/G WIDE RANGE LEVEL
GENERIC/COND DESC:	STEAM GENERATOR B WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 6 inches of H2O
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	TUBSHT
REFERENCE POINT NOTES:	0% is 9" above tube sheet, 69.4%=top of tube bundle
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Strm Gen B Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	Wet
UNIQUE SYSTEM DESC.:	Steam Generator level is sent to OAC via the process control cabinet. Level is Cold Calibrated.
point xref:	14.2

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	SG LEVEL 3/C
POINT ID:	M2A0970
PLANT SPEC POINT DESC:	2C S/G WIDE RANGE LEVEL
GENERIC/COND DESC:	STEAM GENERATOR C WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 6 inches of H2O
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	TU3SHT
REFERENCE POINT NOTES:	0% is 9" above tube sheet, 69.4%=top of tube bundle
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Strm Gen C Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	Wet
UNIQUE SYSTEM DESC.:	Steam Generator level is sent to OAC via the process control cabinet. Level is Cold Calibrated.
point xref:	4.3

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	SG LEVEL 4/D
POINT ID:	M2A0988
PLANT SPEC POINT DESC:	2D S/G WIDE RANGE LEVEL
GENERIC/COND DESC:	STEAM GENERATOR D WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	1% = 6 inches of H2O
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	100
ZERO POINT REFERENCE:	TUBSHT
REFERENCE POINT NOTES:	0% is 9" above tube sheet, 69.4%=top of tube bundle
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Strm Gen D Vessel
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	N
REF_LEG:	Wet
UNIQUE SYSTEM DESC.:	Steam Generator level is sent to OAC via the process control cabinet. Level is Cold Calibrated.
point xref:	14.4

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	EFF GAS RAD
POINT ID:	M2E0174
PLANT SPEC POINT DESC:	2EMF36(H) UNIT VENT GAS (HI RANGE)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED GAS
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	approx. correlation factor 2.0E-04 uCi/cpm-ml
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	1700000000
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Unit 1 Vent Stack
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	None
point xref:	29.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	EFF LIQ RAD
POINT ID:	M2E0307D1
PLANT SPEC POINT DESC:	1EMF49H WASTE LIQUID DISC (HI RANGE)
GENERIC/COND DESC:	RADIOACTIVITY OF RELEASED LIQUID
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	approx. correlation factor 1.0E-03 uCi/cpm-ml
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	1700000000
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Dn Stream Waste Monitor Tank Pump
Cu. Inlet Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	Data datalogged from Unit 1 computer
point xref:	30.1

McGuire Nuclear Station
Emergency Response Data System (ERDS) Implementation
PWR DATA POINT REFERENCE FILE

DATE:	2/11/98
REACTOR UNIT:	MC2
DATA FEEDER:	U2 OAC
NRC ERDS PARAMETER:	SG BD RAD
POINT ID:	M2E0153
PLANT SPEC POINT DESC:	2EMF34(H) S/G SAMPLE (HI RANGE)
GENERIC/COND DESC:	STM GEN BLOWDOWN RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPM
ENGR UNITS CONVERSION:	approx. correlation factor 1.0E-03 uCi/cpm-ml
MINIMUM INSTR RANGE:	0
MAXIMUM INSTR RANGE:	1700000000
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	Shielded, Nominal Reading = 1E1 - 1E7
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	Direct
SENSOR LOCATIONS:	Outlet Stm Gen Blow Dwon Line
Current Prodac ALARM/TRIP SETPOINTS:	Hi: - Lo: -
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL:	N/A
NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:	N/A
INSTRUMENT FAILURE MODE:	LOW
TEMPERATURE COMPENSATION FOR DP	-
REF_LEG:	N/A
UNIQUE SYSTEM DESC.:	Stm Gen Blowdown Rad level is found through continuous blowdown of each steam gen. (A-D). Upon high radiation, EMF34 will control isolation valves and shutdown.
point xref:	32.1