TU ELECTRIC

Log # TXX-92363
File # 10035
GL-89-15
Ref: # 10CFR50, APP. E

August 3, 1992

William J. Cahill, Jr.
Group Vice President

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
DOCKET NO. 50-446
EMERGENCY RESPONSE DATA SYSTEM (ERDS)

REF: 1) TU Electric Letter logged TXX-90328 from W. J. Cahill Jr. to Mr. John R. Jolicouer NRC dated September 20, 1990.
2) TU Electric Letter logged TXX-91383 from W. J. Cahill Jr. to Mr. John R. Jolicouer NRC dated October 28, 1991.

Gentlemen:

By reference 1, TU Electric originally transmitted to the NRC the CPSES Data Point Library (DPL). In reference 2, TU Electric committed to reverifying the contents of and informing the NRC of any changes to the DPL resulting from the installation and test of the Unit 2 computer. In preparation for acceptance testing of the Unit 2 ERDS, TU Electric transmits a copy of the latest DPL.

If you have any questions contact Mr. Jose' D. Rodriguez at (214) 812-8674.

Sincerely,
William J. Cahill, Jr.
William J. Cahill, Jr.

By: Roger D. Walker
Roger D. Walker
Manager of Regulatory
Affairs for NEO

JDR/grp
Attachment

c - Mr. J. L. Milhoan, Region IV clo
Resident Inspectors, CPSES (2) clo
Mr. T. A. Bergman, NRR clo
Mr. B. E. Holian, NRR clo
Mr. Tony P. LaRosa, NUS

A026
1/1

Data Point
Library

Attachment
to
TXX-92363

114 pages

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	TEMP CORE EX
POINT ID:	ACTHICET
PLANT SPEC POINT DESC.:	AUCT HI CORE EXIT TEMP
GENERIC/COND DESC.:	HIGHEST TEMP AT THE CORE EXIT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	2300.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	50
HOW PROCESSED:	HIGHEST OF TRAIN A/B TC INPUTS
SENSOR LOCATIONS:	ABOVE UPPER CORE PLATE
ALARM/TRIP SET POINTS:	ORANGE 750, RED 1200
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: WHITTAKER (PREVIOUSLY EXOSENSOR) CORE COOLING MONITOR SYSTEM HAS 50 CORE EXIT THERMOCOUPLES (25 TRAIN A AND 25 TRAIN B) LOCATED JUST ABOVE THE UPPER CORE PLATE). CORE COOLING STATUS TREE BECOMES "ORANGE" IF CET IS ABOVE 750 DEG AND BECOMES "RED" IF CET IS ABOVE 1200 DEG.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	AX FD FL 1/A
POINT ID:	AFWFLOW1
PLANT SPEC POINT DESC.:	SG 1 AFW FLOW
GENERIC/COND DESC.:	SG 1 (OR A) AUXILIARY FW FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	550.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SG BLDG 852'6" DWNSTREAM AFW ISOL VALVES
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	0 GPM LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS ORIFICE PLATE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	AX FD FL 2/B
POINT ID:	AFWFLOW2
PLANT SPEC POINT DESC.:	SG 2 AFW FLOW
GENERIC/COND DESC.:	SG 2 (OR B) AUXILIARY FW FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	550.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SG BLDG 852'6" DWNSTREAM AFW ISOL VALVES
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	0 GPM LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS ORIFICE PLATE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	AX FD FL 3/C
POINT ID:	AFWFLOW3
PLANT SPEC POINT DESC.:	SG 3 AFW FLOW
GENERIC/COND DESC.:	SG 3 (OR C) AUXILIARY FW FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	550.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SG BLDG 852'6" DWN STREAM AFW ISOL VALVES
ALARM/TRIP SET POINTS:	
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	0 GPM LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS ORIFICE PLATE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CPZ
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	AX FD FL 4/D
POINT ID:	AFWFLOW4
PLANT SPEC POINT DESC.:	SG 4 AFW FLOW
GENERIC/COND DESC.:	SG 4 (OR D) AUXILIARY FW FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	550.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SG BLDG 852'6" DWNSTREAM AFW ISOL VALVES
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	0 GPM LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS ORIFICE PLATE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SGBDRAD
POINT ID:	BLDNRAD
PLANT SPEC POINT DESC.:	SG BLDN RADIATION
GENERIC/COND DESC.:	STEAM GENERATOR BLOWDOWN RAD
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	uCI/ML
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	5.0E-08
MAXIMUM INSTR RANGE:	5.0E-02
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	CALCULATED FROM SAMPLE FLOW AND ACTIVITY
SENSOR LOCATIONS:	OFFLINE, DNSTRM OF CLEANUP SYS DEMINS
ALARM/TRIP SET POINTS:	HIGH= 0.5E-03
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: NaI SCINTILLATION DETECTOR, SENSITIVE TO GROSS GAMMA ACTIVITY AT CO(60) ENERGY. THE CHAMBER MEASURES THE ACTIVITY OF THE SAMPLE VOLUME AND CALCULATES THE RADIOACTIVITY CONTENT.

SPECIAL REMARK:

DATE: 02/27/92

REACTOR UNIT: CP2

DATA FEEDER: PCS

NRC ERDS PARAMETER: COND A/E RAD

POINT ID: CNDSRRAD

PLANT SPEC POINT DESC.: CNDSR OFF GAS RADIATION

GENERIC/COND DESC.: CNDSR AIR EJECTOR RADIOACTIVITY

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: uCI/ML

ENGR UNITS CONVERSION: NONE

MINIMUM INSTR RANGE: 10E-05

MAXIMUM INSTR RANGE: 10E-01

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: P

NUMBER OF SENSORS: 1

HOW PROCESSED: CALCULATED FROM SAMPLE FLOW AND ACTIVITY

SENSOR LOCATIONS: DISCH. OF COND. VACUUM PUMP EXH HEADER

ALARM/TRIP SET POINTS: HIGH= 1.0E-1

NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A

NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A

INSTRUMENT FAILURE MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: OFFLINE MONITOR HAS DRYER IN LINE TO REMOVE MOISTURE. PLASTIC SCINTILLATION DETECTOR SENSITIVE TO GROSS BETA ACTIVITY WITH Xe 133 ENERGY. THE DETECTOR MEASURES THE ACTIVITY OF THE SAMPLE AND CALCULATES THE RADIOACTIVE CONTENT.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	H2 CONC
POINT ID:	CNTMTH2
PLANT SPEC POINT DESC.:	CNTMT H2 CONC
GENERIC/COND DESC.:	CNTMNT HYDROGEN CONCENTRATION
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	10.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	HIGHEST
SENSOR LOCATIONS:	RB VARIOUS ELEVATIONS WALL MOUNTED
ALARM/TRIP SET POINTS:	03.0% HIGH
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: EXOSENSOR 2 CHANNELS, 2 DETECTORS PER CHANNEL

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	CTMNT SMP WR
POINT ID:	CNTMTLVL
PLANT SPEC POINT DESC.:	CNTMT RECIRC SUMP LEVEL
GENERIC/COND DESC.:	CNTMT SUMP W DE RANGE LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	FTDEC
ENGR UNITS CONVEPSION:	808' = 0 GALS ; 816' APPROX 629,000 GALS
MINIMUM INSTR RANGE:	808.0'
MAXIMUM INSTR RANGE:	817.5'
ZERO POINT REFERENCE:	CNTFLR
REFERENCE POINT NOTES:	MIN DETECTABLE IS 3" ABOVE CNTFLR
PROC OR SENS:	P
NUMBER OF SENSORS:	22
HOW PROCESSED:	COMPLX SEE SYSTEM DESCRIPTION
SENSOR LOCATIONS:	REAC BLDG 808'0" COLUMN MOUNTED
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	DECREASING SIGNAL LEVEL

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: TWO LEVEL PROBE ASSEMBLIES EACH CONSISTING OF 11 SENSORS SPACED AT ONE VERTICLE FOOT INTERVALS. THE SENSORS ARE HEATED RTD DEVICES. WHEN RISING WATER LEVEL COVERS A SENSOR THE THERMAL CONDUCTIVITY CHANGES. TH SIGNAL CONDITIONING CIRCUITS GENERATE A 4 TO 20 ma SIGNAL WHICH IS PROPORTIONAL TO THE NUMBER OF WET SENSORS. THE FIRST SENSOR IS LOCATED THREE INCHES ABOVE THE ELEVATION 808' FLOOR OF THE CONTAINMENT. THE TOP SENSOR IS AT ELEVATION 817' 5". THE QUANTITY OF WATER IN THE CONTAINMENT AT VARIOUS ELEVATIONS IS CALCULATED IN THE CONTAINMENT FLOODING CALCULATIONS (SEE BELOW) AND IS APPROXIMATELY 629,000 GALLONS AT ELEVATION 816'.

SEE CALCULATIONS 2323-525, 16345-NU(B)-057, AND 2323-232-5.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	CTMNT PRESS
POINT ID:	CNTMTPRW
PLANT SPEC POINT DESC.:	CNTMT PRESS (WR)
GENERIC/COND DESC.:	CONTAINMENT PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	150.0
ZERO POIN' REFERENC.:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SG BLDG 832'6" MOUNTED ON RB WALL
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	0 PSI LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ITT BARTON CAPILLARY FILLED SYSTEM.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	CNTMT RAD
POINT ID:	CNTMTRAD
PLANT SPEC POINT DESC.:	CNTMT RAD (HI RANGE)
GENERIC/COND DESC.:	RADIATION LEVEL IN CONTAINMENT
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MR/HR
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	1.0
MAXIMUM INSTR RANGE:	0.1 E+09
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	COMPLX
SENSOR LOCATIONS:	REACTOR CONTAINMENT BLDG 905'
ALARM/TRIP SET POINTS:	HIGH= 1.0E4
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDELY SEPARATED REDUNDANT CLASS 1E MONITORS
LOCATED ON 905' REACTOR CONTAINMENT BUILDING.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	CTMNT TEMP
POINT ID:	CNTMTTMP
PLANT SPEC POINT DESC.:	CNTMT AVE TEMP
GENERIC/COND DESC.:	CONTAINMENT TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	360.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	REAC BLDG VARIOUS ELE. WALL AND COLUMN
ALARM/TRIP SET POINTS:	HIGH 112 DEG F
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: CONAX RTD'S EXPOSED TO REACTOR BLDG. ATMOSPHERE WITH NO THERMOWELLS.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	RCS CHG/MU
POINT ID:	F6138A
PLANT SPEC POINT DESC.:	CHRG FLO
GENERIC/COND DESC.:	PRI SYS CHARGING OR MAKEUP FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	200.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	AUX BLDG 810'6" CHARGING PUMP DISCHARGE
ALARM/TRIP SET POINTS:	LOW 55 GPM
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: RC..MOUNT DP TRANSMIT(ER ACROSS ORIFICE PLATE.

SPECIAL REMARK:

DATE: 02/27/92

REACTOR UNIT: CP2

DATA FEEDER: PCS

NRC ERDS PARAMETER: NL

POINT ID: F6918A

PLANT SPEC POINT DESC.: SIP 1 DISCH FLOW

GENERIC/COND DESC.: SI PUMPS DISCHG FLOW TRAIN A

ANALOG/DIGITAL: A

ENGR UNITS/DIG STAT): GPM

ENGR UNITS CONVERSION: NONE

MINIMUM INSTR RANGE: 0.0

MAXIMUM INSTR RANGE: 800.0

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATIONS: SG BLDG 773'0" SI PMP#1 DISCHARGE

ALARM/TRIP SET POINTS: NONE

NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A

NI DETECTOR POWER SUPPLY TURN-ON P[illegible] LEVEL: N/A

INSTRUMENT FAILURE MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS ORIFICE PLATE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	NL
POINT ID:	F6922A
PLANT SPEC POINT DESC.:	SIP 2 DISCH FLOW
GENERIC/COND DESC.:	SI PUMPS DISCHG FLOW TRAIN B
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	L^M
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	800.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	SG BLDG 773'0" SI PMP#2 DISCHARGE
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS ORIFICE PLATE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	NI INTER RNG
POINT ID:	IRPOWER
PLANT SPEC POINT DESC.:	IR CURRENT
GENERIC/COND DESC.:	NUCLEAR INSTR INTERMEDIATE RANGE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	AMPS
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.1E-10
MAXIMUM INSTR RANGE:	0.1E-02
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	HIGHEST
SENSOR LOCATIONS:	RB 810-832' EXT TO VESSEL, VARIOUS QUADS
ALARM/TRIP SET POINTS:	<= 25% RTP
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	NONE
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	NONE
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WESTINGHOUSE. INTERMEDIATE RANGE CHANNELS GENERATE NUMEROUS REACTOR POWER CONTROL INTERLOCKS AND PERMISSIVE SIGNALS.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	RCS PRESSURE
POINT ID:	LOOPPRES
PLANT SPEC POINT DESC.:	LOOP PRESSURE (WR)
GENERIC/COND DESC.:	REACTOR COOLANT SYSTEM PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	3000.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	RB 827(3616) RB 837'(404,43')
ALARM/TRIP SET POINTS:	364, 700 RHR ISOLATION
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATUR' "OKPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT TRANSMITTER WITH SINGLE TAP. PT-0403 AND PT-0437 IMPULSE TAPS ARE ON THE LOOP 1 AND 4 HOT LEG SIS PUMP SUPPLY LINE. PT-3616 IMPULSE TAP IS ON THE J-10 THIMBLE. 364 PSI SETPOINT PREVENTS OPENING RHR ISOLATION VALVES 700 PSI SETPOINT CLOSES RHR ISOLATION VALVES. (U-1 SETPOINTS GIVEN, U-2 NOT YET AVAILABLE).

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	MN FD FL 1/A
POINT ID:	MFWFLOW1
PLANT SPEC POINT DESC.:	SG 1 FW FLOW
GENERIC/COND DESC.:	SG 1 (OR A) MAIN FEEDWATER FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MLB/HR
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	5.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	SG BLDG 832'6" UPSTREAM FW CONTROL VALV
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS VENTURI TUBE.

SPECIAL REMARK:

DATE: 02/27/92

REACTOR UNIT: CP2

DATA FEEDER: PCS

NRC ERDS PARAMETER: MN FD FL 2/B

POINT ID: MFWFLOW2

PLANT SPEC POINT DESC.: SG 2 FW FLOW

GENERIC/COND DESC.: SG 2 (OR B) MAIN FEEDWATER FLOW

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: MLB/HR

ENGR UNITS CONVERSION: NONE

MINIMUM INSTR RANGE: 0.0

MAXIMUM INSTR RANGE: 5.0

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATIONS: SG BLDG 832'6" UPSTREAM FW CONTROL VALV

ALARM/TRIP SET POINTS: NONE

NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A

NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A

INSTRUMENT FAILURE MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS VENTURI TUBE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	MN FD FL 3/C
POINT ID:	MFWFLOW3
PLANT SPEC POINT DESC.:	SG 3 FW FLOW
GENERIC/COND DESC.:	SG 3 (OR C) MAIN FEEDWATER FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MLB/HR
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	5.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	SG BLDG 832'6" UPSTREAM FW CONTROL VALVE
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS VENTURI TUBE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC FRDS PARAMETER:	MN FD FL 4/D
POINT ID:	MFWFLOW4
PLANT SPEC POINT DESC.:	SG 4 FW FLOW
GENERIC/COND DESC.:	SG 4 (OR D) MAIN FEEDWATER FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MLB/HR
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	5.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	SG BLDG 832'6" UPSTREAM FW CONTROL VALVE
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS VENTURI TUBE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SG PRESS 1/A
POINT ID:	MSLPRES1
PLANT SPEC POINT DESC.:	MSL 1 PRESSURE
GENERIC/COND DESC.:	STEAM GEN 1 (OR A) PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	1300.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SAFEGUARD BLDG 852'6" UPSTREAM OF MSIV'S
ALARM/TRIP SET POINTS:	LOW= 605 PSI
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH SINGLE TAP.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SG PRESS 2/B
POINT ID:	MSLPRES2
PLANT SPEC POINT DESC.:	MSL 2 PRESSURE
GENERIC/COND DESC.:	STEAM GEN 2 (OR B) PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	1300.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SAFEGUARD BLDG 852 6" UPSTREAM OF MSIV'S
ALARM/TRIP SET POINTS:	LOW 605
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE CFG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH SINGLE TAP.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SG PRESS 3/C
POINT ID:	MSLPRES3
PLANT SPEC POINT DESC.:	MSL 3 PRESSURE
GENERIC/COND DESC.:	STEAM GEN 3 (OR C) PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	1300.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SAFEGUARD BLDG 852'6" UPSTREAM OF MSIV'S
ALARM/TRIP SET POINTS:	605 LOW
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH SINGLE TAP.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SG PRESS 4/D
POINT ID:	MSLPRES4
PLANT SPEC POINT DESC.:	MSL 4 PRESSURE
GENERIC/COND DESC.:	STEAM GEN 4 (OR D) PRESSURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	PSIG
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	1300.0
ZERO POINT REFERENCE:	NONE
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	SAFEGUARD BLDG 852'6" UPSTREAM OF MSIV'S
ALARM/TRIP SET POINTS:	605 LOW
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH SINGLE TAP.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	MAIN SL 1/A
POINT ID:	MSLRAD1
PLANT SPEC POINT DESC.:	MSL 1 RAD
GENERIC/COND DESC.:	SG 1 (OR A) STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	uCI/ML
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	1.0E-03
MAXIMUM INSTR RANGE:	1.0E+03
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	CMPLX
SENSOR LOCATIONS:	ADJACENT TO MSL1, DOWNSTREAM OF PORV
ALARM/TRIP SET POINTS:	HIGH= 50.00
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: SHIELDED DETECTOR IS LOCATED ADJACENT TO MSL WHICH IS SENSITIVE TO GAMMA ACTIVITY. GENERAL ATOMICS CALCULATIONS INDICATE 10E-1 TO 10E3 uCi/ML RADIOACTIVITY IN STEAM IS TYPICALLY EQUIVALENT TO 10E1 TO 10E5 mR/HOUR ADJACENT TO STEAM LINE.
-CP-04B-35 PAGE 1-1

RANGE IS 10E-3 TO 10E3 uCi/ML OF $Xe(133)$. THE 10E-3 TO 10E-1 RANGE IS BEYOND THE 95% CONFIDENCE LEVEL REQUIRED BY ANSI N13.10.
-DBD-EE-23 TABLE 5.2-1

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	MAIN SL 2/B
POINT ID:	MSLRAD2
PLANT SPEC POINT DESC.:	MSL 2 RAD
GENERIC/COND DESC.:	SG 2 (OR B) STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	uCI/ML
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	1.0E-03
MAXIMUM INSTR RANGE:	1.0E+03
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	COMPLX
SENSOR LOCATIONS:	ADJACENT TO MSL2, DOWNSTREAM OF PORV
ALARM/TRIP SET POINTS:	HIGH= 50.00
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: SHIELDED DETECTOR IS LOCATED ADJACENT TO MSL WHICH IS SENSITIVE TO GAMMA ACTIVITY. GENERAL ATOMICS CALCULATIONS INDICATE 10E-1 TO 10E3 uCi/ML RADIOACTIVITY IN STEAM LINE IS TYPICALLY EQUIVALENT TO 10E1 TO 10E5 mR/HOUR ADJACENT TO STEAM LINE.
CP-048-35 PAGE 1-1

RANGE IS 10E-3 TO 10E3 uCi/ML OF Xe(133). THE 10E-3 TO 10E-1 RANGE IS BEYOND THE 95% CONFIDENCE LEVEL REQUIRED BY ANSI N13.10.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	MAIN SL 3/C
POINT ID:	MSLRAD3
PLANT SPEC POINT DE.. .	MSL 3 R/D
GENERIC/COND DESC.:	SG 3 (OR C) STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	uCI/ML
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	1.0E-03
MAXIMUM INSTR RANGE:	1.0E+03
ZERO POINT REFERENCE:	N/A
REFERENCE PO'NT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	CMPLX
SENSOR LOCATIONS:	ADJACENT TO MSL3, DOWNSTREAM OF PORV
ALARM/TRIP SET POINTS:	HIGH= 50.00
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: SHIELDED GM TUBE IS LOCATED ADJACENT TO MSL WHICH IS SENSITIVE TO GAMMA ACTIVITY. GENERAL ATOMICS CALCULATIONS INDICATE 10E-1 TO 10E3 uC./ML RADIOACTIVITY IN STEAM IS TYPICALLY EQUIVALENT TO 10E1 TO 10E5 mR/HOUR ADJACENT TO STEAM LINE.
CP-048-35 PAGE 1-1

RANGE IS 10E-3 TO 10E3 uCi/ML OF Xe(133). THE 10E-3 TO 10E-1 RANGE IS BEYOND THE 95% CONFIDENCE LEVEL REQUIRED BY ANSI N13.10.
DBD-EE-23 TABLE 5.2-1

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	MAIN SL 4/D
POINT ID:	MSLRAD4
PLANT SPEC POINT DESC.:	MSL 4 RAD
GENERIC/COND DESC.:	SG 4 (OR D) STEAM LINE RAD LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	uCI/ML
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	1.0E-03
MAXIMUM INSTR RANGE:	1.0E+03
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	ADJACENT TO MSL4, DOWNSTREAM OF PORV
ALARM/TRIP SET POINTS:	HIGH= 50.00
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: SHIELDED GM TUBE LOCATED ADJACENT TO MSL IS SENSITIVE TO GAMMA ACTIVITY. GENERAL ATOMIC CALCULATIONS INDICATE 10E-1 TO 10E3 uCi/ML RADIOACTIVITY IN STEAM IS TYPICALLY EQUIVALENT TO 10E1 TO 10E5 mR/HOUR ADJACENT TO STEAM LINE.
CP-048-35 PAGE 1-1

RANGE IS 10E-3 TO 10E3 uCi/ML OF Xe(133). THE 10E-3 TO 10E-1 RANGE IS BEYOND THE 95% CONFIDENCE LEVEL REQUIRED BY ANSI N13.10.
DBD-EE-23 TABLE 5.2-1

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CPZ
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	NI POWER RNG
POINT ID:	PRPOWER
PLANT SPEC POINT DESC.:	POWER RANGE POWER
GENERIC/COND DESC.:	NUCLEAR INSTR POWER RANGE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	120.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	HIGHEST
SENSOR LOCATIONS:	RB 810-832' EXT TO VESSEL, VARIOUS QUADS
ALARM/TRIP SET POINTS:	109% FULL POWER
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	NONE
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	NONE
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WESTINGHOUSE REACTOR TRIP, LOW RANGE AT 25% RTP,
HIGH RANGE AT 109% RTP & HIGH RATE +/- 5% RTP.
UNIT 1 INFORMATION SHOWN, U-2 SETPOINT INFORMATION
NOT YET AVAILABLE. M1-2700 CP-1

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	PRZR LEVEL
POINT ID:	PRZRLVL
PLANT SPEC POINT DESC.:	PRZR LEVEL
GENERIC/COND DESC.:	PRIMARY SYSTEM PRESSURIZER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	0%=636 GAL = 858'-11" ; 100% = 13104 GAL = 902'-2"
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	EL. 858'-11"
REFERENCE POINT NOTES:	ZERO POINT IS = 73" BELOW TOP OF HEATERS
PROC OR SENS:	P
NUMBER OF SENSORS:	3
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	REAC BLDG 832'6" OUTSIDE PZR COMPARTMENT
ALARM/TRIP SET POINTS:	LOW LVL ALARM = 17%; HI LVL RX TRIP =92%
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: WET

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH CONDENSATE RESERVOIR AND DOUBLE ISOLATION. GEOGRAPHIC ELEVATIONS FROM 1-SC-8800-L. VOLUMES FROM CALCULATIONS NSF-SA-CP1/0-005 REV. 0 AND NSF-SA-CP1/0-017 REV. 1. THE PRESSURIZER WATER LEVEL PROVIDES NO TRIP FUNCTIONS FOLLOWING AN ACCIDENT WHICH RESULTS IN AN ADVERSE ENVIRONMENT INSIDE THE CONTAINMENT. FSAR SECTION R032.103, PARA. 3B.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	RCS LTDN RAD
POINT ID:	R7677A
PLANT SPEC POINT DESC.:	REACTOR COOLANT RAD-FAILED FUEL MONITOR
GENERIC/COND DESC.:	RCS RAD - FAILED FUEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	uCI/ML
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	1.0
MAXIMUM INSTR RANGE:	1.0E+05
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	1
HOW PROCESSED:	CALCULATED FROM SAMPLE ACTIVITY
SENSOR LOCATIONS:	RCS LETDOWN LINE, OFF-LINE
ALARM/TRIP SET POINTS:	1.0E1
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: A SAMPLE VOLUME OF PRIMARY COOLANT IS EXPOSED TO A GM DETECTOR. THE DETECTOR IS SENSITIVE TO GAMMA ACTIVITY WITH CO(60) ENERGY.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	RVLEVELA
PLANT SPEC POINT DESC.:	RVLIS LEVEL TRAIN A
GENERIC/COND DESC.:	REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	INCHES
ENGR UNITS CONVERSION:	ANALOG CONVERSION OF 8 POSSIBLE DIGITALS
MINIMUM INSTR RANGE:	823'-11"
MAXIMUM INSTR RANGE:	838'-2"
ZERO POINT REFERENCE:	EL. 823'-11"
REFERENCE POINT NOTES:	ZERO POINT = UPPER CORE PLATE + 11"
PROC OR SENS:	P
NUMBER OF SENSORS:	8
HOW PROCESSED:	HIGHEST OF DIGITALS INDICATING COOLANT
SENSOR LOCATIONS:	ABOVE UPPER CORE PLATE
ALARM/TRIP SET POINTS:	BELOW 11" ABOVE CORE PLATE, LOW
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: A8" COMBUSTION ENGINEERING HEATED JUNCTION THERMOCOUPLE SYSTEM WITH DUAL PROBES. EACH PROBE HAS SIX SENSORS LOCATED IN THE UPPER PLENUM REGION AND TWO SENSORS IN THE UPPER HEAD REGION OF THE REACTOR VESSEL

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	REAC VES LEV
POINT ID:	RVLEVELB
PLANT SPEC POINT DESC.:	RVLIS LEVEL TRAIN B
GENERIC/COND DESC.:	REACTOR VESSEL WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	INCHES
ENGR UNITS CONVERSION:	ANALOG CONVERSION OF 8 POSSIBLE DIGITALS
MINIMUM INSTR RANGE:	823'-11"
MAXIMUM INSTR RANGE:	838'-2"
ZERO POINT REFERENCE:	EL. 823'-11"
REFERENCE POINT NOTES:	ZERO POINT = UPPER CORE PLATE + 11"
PROC OR SENS:	P
NUMBER OF SENSORS:	8
HOW PROCESSED:	HIGHEST OF DIGITALS INDICATING COOLANT
SENSOR LOCATIONS:	ABOVE UPPER CORE PLATE
ALARM/TRIP SET POINTS:	BELOW 11 ABOVE CORE PLATE, LOW
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: ABB COMBUSTION ENGINEERING HEATED JUNCTION THERMOCOUPLE SYSTEM WITH DUAL PROBES. EACH PROBE HAS SIX SENSORS LOCATED IN THE UPPER PLENUM REGION AND TWO SENSORS IN THE UPPER HEAD REGION OF THE REACTOR VESSEL.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	BWST LEVEL
POINT ID:	RWSTLVL
PLANT SPEC POINT DESC.:	REFUELING WATER STORAGE TANK LEVEL
GENERIC/COND DESC.:	BORATED WATER STORAGE TANK LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	0% = 0" = 0 GALS; 100% = 513" = 507357 GALS
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	COMPLX
REFERENCE POINT NOTES:	ZERO POINT IS 2.2" BELOW PUMP SUCTION
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	RWST ROOM 810'6" MOUNTED ON TANK WALL
ALARM/TRIP SET POINTS:	LO-LO ALM =40%; LO ALM =93%; HI ALM =98%
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTERS WITH SINGLE TAP. THE RANGE OF LEVEL INSTRUMENTS IS 513 INCHES, WITH A MARGIN OF +/- 13 INCHES. THE AVERAGE CAPACITY OF THE RWST IS 989 GAL/IN. THE MEASURED AND INDICATED VOLUME IS 507,357 GAL.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	S6017A
PLANT SPEC POIN' DESC.:	WIND SPEED PRIMARY 60M
GENERIC/COND DESC.:	WIND SPEED-REACTOR SITE 200 FEET
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	PRIMARY MET TOWER, 60M
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC:

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	WIND SPEED
POINT ID:	S6018A
PLANT SPEC POINT DESC.:	WIND SPEED PRIMARY 10M
GENERIC/COND DESC.:	WIND SPEED-REACTOR SITE 30 FEET
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	MPH
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	PRIMARY MET TOWER, 10M
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC:

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATa FEEDER:	PCS
NRC ERDS PARAMETER:	SG LEVEL 1/A
POINT ID:	SGLVLNR1
PLANt SPEC POINT DESC.:	SG 1 LVL (NR)
GENERIC/COND DESC.:	STEAM GEN 1 (OR A) WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	0% = EL. 863'-4 1/4"; 100% = EL. 882'-9 3/4"
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	COMPLX
REFERENCE POINT NOTES:	ZERO POINT IS 4.5" BELOW TOP OF U TUBE
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	REAC BLDG 860'0" OUTSIDE S/G COMPARTMENT
ALARM/TRIP SET POINTS:	LO = RX TRIP; HI = TURB TRIP
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: WET

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH UPPER AND LOWER TAP. NARROW RANGE LEVEL SYSTEM. THE CONDENSING CHAMBER IS LOCATED 186" ABOVE THE TOP OF THE U-TUBES AT ELEVATION 882'9". THE LOWER TAP IS LOCATED 4.5" BELOW THE TOP OF THE U-TUBES AT ELEVATION 863'4".

SPECIAL REMARK: CONVERSION TO GALLONS IS NOT AVAILABLE DUE TO THE S.G. IRREGULAR INTERNALS.

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SG LEVEL 2/B
PLANT ID:	SGLVLNR2
PLANT SPEC POINT DESC.:	SG 2 LVL (NR)
GENERIC/COND DESC.:	STEAM GEN 2 (OR B) WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	0% = EL. 863'-4 3/8"; 100% = EL. 882'-9/16"
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	COMPLX
REFERENCE POINT NOTES:	ZERO POINT IS 4.5" BELOW TOP OF U TUBES
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	REAC BLDG 860'0" OUTSIDE S/G COMPARTMENT
ALARM/TRIP SET POINTS:	LO = 28% RX TRIP; HI = 82.4% TURB TRIP
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: WET

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH UPPER AND LOWER TAPS. NARROW RANGE LEVEL SYSTEM. THE CONDENSING CHAMBER IS LOCATED 186" ABOVE THE TOP OF THE U-TUBES AT ELEVATION 882'10". THE LOWER TAP IS LOCATED 4.5" BELOW THE TOP OF THE U-TUBES AT ELEVAT ON 863'5".

SEE DWGS - BRP-MS-D2-RB-24 SH. 1
1512E59 SH. 1,2
1106J62 SH. 1,2
1182J16 SH. 1

SPECIAL REMARK: CONVERSION TO GALLONS IS NOT AVAILABLE DUE TO THE S.G. IRREGULAR INTERNALS.

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SG LEVEL 3/C
POINT ID:	$GLVLNR3
PLANT SPEC POINT DESC.:	SG 3 LVL (NR)
GENERIC/COND DESC.:	STEAM GEN 3 (OR C) WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	0% = EL. 863'-4 1/4"; 100% = EL. 882' -9"
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	COMPLX
REFERENCE POINT NOTES:	ZERO POINT IS 4.5" BELOW TOP OF U-TUBES
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	REAC BLDG 860'0" OUTSIDE S/G COMPARTMENT
ALARM/TRIP SET POINTS:	LO = 28% RX TRIP; HI = 82.4% TURB TRIP
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: WET

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH UPPER AND LOWER TAPS. NARROW RANGE SYSTEM. THE CONDENSING CHAMBER IS LOCATED 186" ABOVE THE TOP OF THE U-TUBES AT ELEVATION 882'10". THE LOWER TAP IS LOCATED 4.5 INCHES BELOW THE TOP OF THE U-TUBES AT ELEVATION 863'5".

SPECIAL REMARK: CONVERSION TO GALLONS IS NOT AVAILABLE DUE TO THE S.G. IRREGULAR INTERNALS.

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SG LEVEL 4/D
POINT ID:	SGLVLNR4
PLANT SPEC POINT DESC.:	SG 4 LVL (NR)
GENERIC/COND DESC.:	STEAM GEN 4 (OR D) WATER LEVEL
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	%
ENGR UNITS CONVERSION:	0% = EL. 863'-4 3/16"; 100% = EL. 882'-8 3/4"
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	100.0
ZERO POINT REFERENCE:	COMPLX
REFERENCE POINT NOTES:	ZERO POINT IS 4.5" BELOW TOP OF U-TUBES
PROC OR SENS:	P
NUMBER OF SENSORS:	4
HOW PROCESSED:	AVERAGE
SENSOR LOCATIONS:	REAC BLDG 860'0" OUTSIDE S/G COMPARTMENT
ALARM/TRIP SET POINTS:	LO = 28% RX TRIP; HI = 82.4% TURB TRIP
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N

LEVEL REFERENCE LEG: WET

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER WITH UPPER AND LOWER TAPS. NARROW RANGE LEVEL SYSTEM. THE CONDENSING CHAMBER IS LOCATED 186" ABOVE THE TOP OF THE U-TUBES AT ELEVATION 882'9". THE LOWER TAP IS LOCATED 4.5" BELOW THE TOP OF THE U-TUBES AT ELEVATION 863'4".

SPECIAL REMARK: CONVERSION TO GALLONS IS NOT AVAILABLE DUE TO THE S.G. IRREGULAR INTERNALS.

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	SCS
NRC ERDS PARAMETER:	NI SOURC RNG
POINT ID:	SRPOWER
PLANT SPEC POINT DESC.:	SOURCE RANGE COUNT RATE
GENERIC/COND DESC.:	NUCLEAR INSTR SOURCE RANGE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	CPS
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	10E-1
MAXIMUM INSTR RANGE:	.1E+07
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PRI OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	HIGHEST
SENSOR LOCATIONS:	RB 810-832' EXT TO VESSEL, VARIOUS QUADS
ALARM/TRIP SET POINTS:	<=1DE5 CPS
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	10E-10 AMP
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	5E-11 AMP
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WESTINGHOUSE SOURCE RANGE HIGH VOLTAGE IS SHUT OFF BY INTERMEDIATE RANGE P6 SIGNAL AT 10E-10 AMP. HIGH VOLTAGE PERMISSIVE IS RESET AT 5E-11 AMP. SR HIGH VOLTAGE IS AUTO TRIPPED BY POWER RANGE P10 SIGNAL AT 10% OR RATED FULL POWER, AS A BACKUP FOR THE P6 TRIP.

SPECIAL REMARK:

DATE: 02/27/92

REACTOR UNIT: CP2

DATA FEEDER: PCS

NRC ERDS PARAMETER: EFF GAS RAD

POINT ID: STACKRAD

PLANT SPEC POINT DESC.: TOTAL STACK RADIATION

GENERIC/COMP DESC.: RADIOACTIVITY OF RELEASED GASSES

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: uCI/CC

ENGR UNITS CONVERSION: NONE

MINIMUM INSTR RANGE: 10E-6

MAXIMUM INSTR RANGE: 10E5

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: P

NUMBER OF SENSORS: 2

HOW PROCESSED: SUM

SENSOR LOCATIONS: MIDPOINT OF VENT STACK

ALARM/TRIP SET POINTS: .1.9E4

NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A

NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A

INSTRUMENT FAILURE MODE: LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: GA TECHNOLOGIES WIDE RANGE GAS MONITOR SAMPLES VENT STACK. THREE DETECTORS PROVIDE INPUT TO MICROPROCESSOR WHICH CALCULATES THE NOBLE GAS RELEASE RATE.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	SUB MARGIN
POINT ID:	SUBCOOL
PLANT SPEC POINT DESC.:	RCS SAT MARGIN
GENERIC/COND DESC.:	SATURATION TEMP - HIGHEST CET
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	-300.0
MAXIMUM INSTR RANGE:	300.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	62
HOW PROCESSED:	HIGHES OF TRAIN A/B SAT MARGINS
SENSOR LOCATIONS:	HOT LEG, COLD LEG,PZR PRESS, CORE EXIT
ALARM/TRIP SET POINTS:	< 5 DEG. SUB COOLING MARGIN
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: SATURATION MARGIN IS CALCULATED BY THE CCM MICROPROCESSOR (WHITTAKER). THE HIGHEST VALID RCS TEMPERATURE AND LOWEST VALID RCS PRESSURE ARE UTILIZED. THE CORE COOLING STATUS TREE IS NOT "GREEN" IF THE SUBCOOLING MARGIN IS LESS THAN 25 DEGREE F.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	ATM STAB
POINT ID:	T6019A
PLANT SPEC POINT DESC.:	ATMOS STAB PRIMARY DELTA - A
GENERIC/COND DESC.:	DIFFERENTIAL TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	-5.00
MAXIMUM INSTR RANGE:	15.00
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	dt=T(60)-t(10)
SENSOR LOCATIONS:	PRIMARY MET TOWER, 60M AND 10M
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ATMOSPHERIC STABILITY IS CALCULATED BY TAKING THE TEMPERATURE DIFFERENCE BETWEEN THE 60m AND 10m VALUES.

SPECIAL REMARK:

DATE: 02/27/92

REACTOR UNIT: CP2

DATA FEEDER: PCS

NRC ERDS PARAMETER: ATM STAB

POINT ID: T6020A

PLANT SPEC POINT DESC.: ATMOS STAB PRIMARY DELTA - B

GENERIC/COND DESC.: DIFFERENTIAL TEMPERATURE

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: NONE

MINIMUM INSTR RANGE: -5.00

MAXIMUM INSTR RANGE: 15.00

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: P

NUMBER OF SENSORS: 2

HOW PROCESSED: dt=T(60)-T(10)

SENSOR LOCATIONS: PRIMARY MET TOWER, 60M - 10M

ALARM/TRIP SET POINTS: NONE

NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A

NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A

INSTRUMENT FAILURE MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ATMOSPHERIC STABILITY IS CALCULATED BY TAKING THE DIFFERENCE BETWEEN THE 60m AND THE 10m TEMPERATURES.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	CL TEMP 1/A
POINT ID:	TCLOOP1
PLANT SPEC POINT DESC.:	CL 1 TEMP
GENERIC/COND DESC.:	SG 1 (OR A) OUTLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	RB 808'0" OUTLET OF RCP
ALARM/TRIP SET POINTS:	LOW= 350
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDE RANGE TEMPERATURE. COLD OVER PRESSURE PROTECTION SYSTEM LOW TEMPERATURE SETPOINT.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	CL TEMP 2/B
POINT ID:	TCLOOP2
PLANT SPEC POINT DESC.:	CL 2 TEMP
GENERIC/COND DESC.:	SG 2 (OR B) OUTLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	RB 808'0" OUTLET OF RCP
ALARM/TRIP SET POINTS:	LOW= 350
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDE RANGE TEMPERATURE. COLD OVER PRESSURE PROTECTION SYSTEM LOW TEMPERATURE SETPOINT.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	CL TEMP 3/C
POINT ID:	TCLOOP3
PLANT SPEC POINT DESC.:	CL 3 TEMP
GENERIC/COND DESC.:	SG 3 (OR C) OUTLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	RB 808'0" OUTLET OF RCTR CLNT PMP
ALARM/TRIP SET POINTS:	LOW= 350
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDE RANGE TEMPERATURE. COLD OVER PRESSURE PROTECTION LOW TEMPERATURE SETPOINT.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	CL TEMP 4/D
POINT ID:	TCLOOP4
PLANT SPEC POINT DESC.:	CL 4 TEMP
GENERIC/COND DESC.:	SG 4 (OR D) OUTLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	RB 808'0" OUTLET OF RCTR CLNT PMP
ALARM/TRIP SET POINTS:	LOW= 350
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDE RANGE TEMPERATURE. COLD OVER PRESSURE PROTECTION SYSTEM LOW TEMPERATURE SETPOINT.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	HL TEMP 1/A
POINT ID:	THLOOP1
PLANT SPEC POINT DESC.:	HL 1 TEMP
GENERIC/COND DESC.:	SG 1 (OR A) INLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	RB 808'0" UPSTREAM S/G INLET
ALARM/TRIP SET POINTS:	LOW= 350
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDE RANGE TEMPERATURE. COLD OVER PRESSURE PROTECTION SYSTEM LOW TEMPERATURE SETPOINT.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	HL TEMP 2/B
POINT ID:	THLOOP2
PLANT SPEC POINT DESC.:	HL 2 TEMP
GENERIC/COND DESC.:	SG 2 (OR B) INLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	RB 808'0" UPSTREAM S/G INLET
ALARM/TRIP SET POINTS:	LOW= 350
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDE RANGE TEMPERATURE. COLD OVER PRESSURE PROTECTION SYSTEM LOW TEMPERATURE SETPOINT.

SPECIAL REMARK:

DATE:	02/[illegible]
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	HL TEMP 3/C
POINT ID:	CHLOOP3
PLANT SPEC POINT DESC.:	HL 3 TEMP
GENERIC/COND DESC.:	SG 3 (OR C) INLET TEMPERATURE
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGF
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	700.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
HOW PROCESSED:	N/A
SENSOR LOCATIONS:	RB 808'0" UPSTREAM S/G INLET
ALARM/TRIP SET POINTS:	LOW= 350
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDE RANGE TEMPERATURE. COLD OVER PRESSURE PROTECTION SYSTEM LOW TEMPERATURE SETPOINT.

SPECIAL REMARK:

DATE: 02/27/92

REACTOR UNIT: CP2

DATA FEEDER: PCS

NRC ERDS PARAMETER: HL TEMP 4/D

POINT ID: THLOOP4

PLANT SPEC POINT DESC.: HL 4 TEMP

GENERIC/COND DESC.: SG 4 (OR D) INLET TEMPERATURE

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGF

ENGR UNITS CONVERSION: NONE

MINIMUM INSTR RANGE: 0.0

MAXIMUM INSTR RANGE: 700.0

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATIONS: RB 808'0" UPSTREAM S/G INLET

ALARM/TRIP SET POINTS: LOW= 350

NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: N/A

NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL: N/A

INSTRUMENT FAILURE MODE: HIGH

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIDE RANGE TEMPERATURE, COLD OVER PRESSURE PROTECTION SYSTEM LOW TEMPERATURE SETPOINT.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	LP SI FLOW
POINT ID:	TOTRHRFL
PLANT SPEC POINT DESC.:	RHR FLOW TOTAL
GENERIC/COND DESC.:	LOW PRESS SAFETY INJECTION FLOW
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	GPM
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	11000.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	P
NUMBER OF SENSORS:	2
HOW PROCESSED:	SUM
SENSOR LOCATIONS:	SG BLDG 773'0" DOWNSTREAM OF RHR X
ALARM/TRIP SET POINTS:	CONTROL:3,950, LOW:3,000
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	LOW

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: ROSEMOUNT DP TRANSMITTER ACROSS ORIFICE PLATE.
EACH CHANNEL HAS A RANGE OF 0 TO 5500 GPM.

SPECIAL REMARK:

DATE: 02/27/92

REACTOR UNIT: CP2

DATA FEEDER: PCS

NRC ERDS PARAMETER: WIND DIR

POINT ID: Y6015A

PLANT SPEC POINT DESC.: WIND DIRECTION PRIMARY 60M

GENERIC/COND DESC.: WIND DIRECTION-RX SITE 200 FEET

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: DEGFR

ENGR UNITS CONVERSION: NONE

MINIMUM INSTR RANGE: 0.0

MAXIMUM INSTR RANGE: 540.0

ZERO POINT REFERENCE: N/A

REFERENCE POINT NOTES: N/A

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATIONS: PRIMARY MET TOWER, 60M

ALARM/TRIP SET POINTS: NONE

[illegible] POWER
[illegible] OFF POWER
[illegible] N/A

[illegible] DETECTOR POWER
[illegible] SUPPLY TURN-ON POWER
[illegible] N/A

[illegible] INSTRUMENT FAILURE
[illegible] MID 360

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIND DIRECTION DISPLAY IS SCALED FROM 0 DEGREES TO 540 DEGREES WITH A 180 DEGREE OFFSET INTRODUCED WHEN THE WIND VANE SWINGS PAST 360 DEGREES AND SUBTRACTED AS THE WIND VANE SWINGS PAST 180 DEGREES.

SPECIAL REMARK:

DATE:	02/27/92
REACTOR UNIT:	CP2
DATA FEEDER:	PCS
NRC ERDS PARAMETER:	WIND DIR
POINT ID:	Y6016A
PLANT SPEC POINT DESC.:	WIND DIRECTION PRIMARY 10M
GENERIC/COND DESC.:	WIND DIRECTION-RX SITE 30 FEET
ANALOG/DIGITAL:	A
ENGR UNITS/DIG STATES:	DEGFR
ENGR UNITS CONVERSION:	NONE
MINIMUM INSTR RANGE:	0.0
MAXIMUM INSTR RANGE:	540.0
ZERO POINT REFERENCE:	N/A
REFERENCE POINT NOTES:	N/A
PROC OR SENS:	S
NUMBER OF SENSORS:	1
NO. PROCESSED:	N/A
SENSOR LOCATIONS:	PRIMARY MET TOWER, 10M
ALARM/TRIP SET POINTS:	NONE
NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL	N/A
NI DETECTOR POWER SUPPLY TURN-ON POWER LEVEL	N/A
INSTRUMENT FAILURE MODE:	MID 360

TEMPERATURE COMPENSATION
FOR DP TRANSMITTERS: N/A

LEVEL REFERENCE LEG: N/A

UNIQUE SYSTEM DESC: WIND DIRECTION DISPLAY IS SCALED FROM 0 DEGREES TO 540 DEGREES WITH A 180 DEGREE OFFSET INTRODUCED WHEN THE WIND VANE SWINGS PAST 360 DEGREES AND SUBTRACTED AS THE WIND VANE SWINGS PAST 180 DEGREES.

SPECIAL REMARK: