



NOV 30 2001

LRN-01-0402

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

**UPDATE OF EMERGENCY RESPONSE DATA SYSTEM (ERDS)
DATA POINT LIBRARY
SALEM GENERATING STATION UNIT NO. 2
DOCKET NO. 50-311**

Ladies and Gentlemen:

In accordance with 10CFR50 Appendix E Section VI.3.a, PSEG Nuclear is notifying the NRC of changes to the Salem Unit 2 ERDS Data Point Library (DPL). These changes affect the following ERDS data points U2FT0510S, U2FT0520S, U2FT0530S, and U2FT0530S. Since the ERDS DPL has been completely reformatted, an entire copy of the Unit 2 DPL is being provided including the changes to the above data points.

If you should have any questions regarding this submittal, please contact Brian Thomas at 856-339-2022.

Sincerely,

A handwritten signature in cursive script, appearing to read "G. Salamon", written over a horizontal line.

G. Salamon
Nuclear Safety and Licensing Manager

Enclosure

A026

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Delaware Emergency Management Agency
P. O. Box 527
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DATE 02/14/1997 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: NI POWER RNG POINT ID: U2NM0041FS

PLANT POINT DESCRIPTION: POWER RNG PERCENT CH I

ERDS DESC: NUCLEAR INSTRUMENTS-POWER RANGE ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: LINEAR

MIN INSTR RANGE: 0 MAX INSTR RANGE: 120 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: REACTOR CAVITY

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: 120% POWER

NI DETECTOR PWR TURN ON LVL: 0% POWER

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

LINEAR OUTPUT: 0 TO 1.2V CHANNEL PROVIDES REACTOR
 POWER PERCENT INDICATION TO THE OPERATOR. ROD
 BLOCK PROVIDED ON OVERPOWER DELTA-T AND ON
 HIGH DEVIATION BETWEEN LOWER FLUX AVG. LOW1
 SETPOINT(9) INTERLOCKED WITH P-10. LOW2 SETPOINT
 (11) INTERLOCKED WITH P-7. HIGH SETPOINT (36)
 INTERLOCKED WITH P-8. HIGH2 SETPOINT (50)
 INTERLOCKED WITH P-9.

Design Input:

RECORD NUMBER: 01

DATE: 02/03/1993 REACTOR: SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: NI INTER RNG

POINT ID: U2NM0035BB

PLANT POINT DESCRIPTION: INTERM RNG NEUTRON LVL CH I

ERDS DESC: NUCLEAR INSTRUMENTS-INTERM RANGE ANALOG/DIGITAL: A

ENG UNITS: AMP ENG UNITS CONV: LINEAR

MIN INSTR RANGE: 1E-11 MAX INSTR RANGE: 1E-03 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: REACTOR CAVITY

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: SUR/IR/PR OVRLP

NI DETECTOR PWR TURN ON LVL: 1E-11 AMPS

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES: CHANNEL PROVIDES INTERMEDIATE RANGE INDICATION OF
 NEUTRON ACTIVITY LEVELS TO THE OPERATOR. PROVIDES
 ROD BLOCK ON HIGH FLUX ALARM. LOW1 SETPOINT
 INTERLOCKED WITH P-6. THE SPDS POINT ID HAS BEEN
 TRUNCATED TO TEN CHARACTERS BECAUSE OF ERDS
 SOFTWARE LIMITATIONS. THE SPDS POINT ID IS
 U2NM0035BBS. LOW2 SETPOINT IS 6E-11. LOW2
 SETPOINT 1E-10

Design Input: CALC S-C-NIS-CEE-0702, PROC S2.IC-CC.NIS-0013Q

RECORD NUMBER: 02

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: NI SOURC RNG

POINT ID: U2NM0031FA

PLANT POINT DESCRIPTION: SOURCE RNG NEUTRON LVL CH I

ERDS DESC: NUCLEAR INSTRUMENTS-SOURCE RANGE ANALOG/DIGITAL A

ENG UNITS: CPS ENG UNITS CONV: NA

MIN INSTR RANGE: 1E0 MAX INSTR RANGE: 1E6 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: REACTOR CAVITY

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: SUR/IR OVERLAP

NI DETECTOR PWR TURN ON LVL: 1E0 CPS

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

CHANNEL PROVIDES INDICATION OF LOW LEVEL NEUTRON ACTIVITY TO THE OPERATOR. PROVIDES REACTOR TRIP ON HIGH FLUX. THE SPDS POINT ID HAS BEEN TRUNCATED TO TEN CHARACTERS BECAUSE OF ERDS APPLICATION SOFTWARE LIMITATIONS. THE SPDS POINT ID IS U2NM0031FAS.

Design Input: PROC S2.IC-GP.NIS-0001Q, S2.IC-CC.NIS-0011Q

RECORD NUMBER: 03

DATE 11/17/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: REAC VES LEV

POINT ID: U2LT1311S

PLANT POINT DESCRIPTION: RV LEVEL FULL RANGE TRAIN A

ERDS DESC: REACTOR VESSEL WATER LEVEL ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 120 ZERO REF: COMPLX

REF POINT NOTES: SEAL TABLE ELEV. 104

PROC OR SENSOR: P NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANELS 839-2A, 839-2B

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: HIGH/LOW

TEMP COMP FOR DP TRANSMITTERS: Y

LEVEL REF LEG: WET

NOTES WESTINGHOUSE RVLIS SYSTEM RECEIVES INPUT
 FROM 3DP TMTRs, REF LEG RTDs, T-HOT RTDs, RCS
 PRESSURE, RCP STATUS, AND ISOLATOR DISPLACEMENT.
 A CHANNEL CAN FAIL HIGH OR LOW DEPENDING
 ON FAILURE TYPE. SYSTEM PROVIDES ERROR MESSAGES.
 "FULL RANGE " TMTRs USED. ONE SENSOR OUTPUT USED
 FOR SPDS. ZERO REF PT TAP AT SEAL TABLE
 REPRESENTS BOTTOM OF VESSEL.
 120% EQUALS TOP OF HEAD.
 AT 0% VOID FRACTION 50% LEVEL EQUALS
 3.5 FT ABOVE TOP OF ACTIVE FUEL. 0 -120%
 0 TO 495.25 INCHES.

Design Input: DWG 627022

RECORD NUMBER: 04

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: TEMP CORE EX POINT ID: U2TC-HOTTE

PLANT POINT DESCRIPTION: HOTTEST INCORE THERMOCOUPLE

ERDS DESC: HIGHEST TEMPERATURE AT CORE EXIT ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 30 MAX INSTR RANGE: 2450 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: P NUMBER SENSORS: 65

HOW PROCESSED: HIGH SELECT

SENSOR LOCATION: INCORE

ALARM/TRIP SETPOINT INFO: NA

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: 0.0

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES
CALCULATED IN SPDS.
SELECTS HIGHEST.
THE SPDS POINT ID HAS BEEN TRUNCATED TO
TEN CHARACTERS BECAUSE OF ERDS
APPLICATION SOFTWARE LIMITATIONS. THE
SPDS POINT ID IS U2TC-HOTTEST.

Design Input:

RECORD NUMBER: 05

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SUB MARGIN

POINT ID: U2ASUBCOOL

PLANT POINT DESCRIPTION: SUBCOOLING MARGIN TRAIN A

ERDS DESC: SATURATION TEMPERATURE T-REP ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 250 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: P NUMBER SENSORS: 032

HOW PROCESSED: T-REP VS RCS PRESS

SENSOR LOCATION: VESSEL + CTMNT

ALARM/TRIP SETPOINT INFO: 10F DEC

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

MARGIN BASED ON CE ALGORITHMS.

AUTOMATIC COMPENSATION DURING ADVERSE

CNTMNT CONDITIONS. 29 CETS SCANNED

PER CHANNEL PLUS RCS PRESS, CNTMNT

PRESS, & CNTMNT RAD. THE SPDS POINT ID

HAS BEEN TRUNCATED TO TEN CHARACTER

BECAUSE OF ERDS APPLICATION SOFTWARE

LIMITATIONS. THE SPDS POINT ID IS

U2ASUBCOOLMR.

Design Input: DCP 2SC-2276

RECORD NUMBER: 06

DATE	02/14/1997	REACTOR	SA2
DATA FEEDER:	SPDS		
NRC ERDS PARAMETER:	SG LEVEL 1	POINT ID:	U2LT0501S
PLANT POINT DESCRIPTION:	#21 SG LEVEL WIDE RANGE		
ERDS DESC:	STEAM GENERATOR LEVEL	ANALOG/DIGITAL	A
ENG UNITS:	%	ENG UNITS CONV:	NA
MIN INSTR RANGE:	0	MAX INSTR RANGE:	100
		ZERO REF:	TUBSHT
REF POINT NOTES:	10 TO 575 IN H2O		
PROC OR SENSOR:	S	NUMBER SENSORS:	001
HOW PROCESSED:	NA		
SENSOR LOCATION:	PANEL 448 IN CNTMNT EL. 100		
ALARM/TRIP SETPOINT INFO:	LOLO:11.0, LO:15.0		
NI DETECTOR PWR CUT OFF LVL:	NA		
NI DETECTOR PWR TURN ON LVL:	NA		
INSTRUMENT FAIL MODE:	LOW		
TEMP COMP FOR DP TRANSMITTERS:	Y		
LEVEL REF LEG:	WET		
NOTES	PROVIDES INDICATION OF WATER LEVEL		
	IN STEAM GENERATOR. TRIP SETPOINTS		
	PROVIDED BY NARROW RANGE CHANNELS		
	NR TRIPS AT 67INC, 16DEC. LOWER INSTRU-		
	MENT TAP 10 INCHES ABOVE TUBE SHEET.		
	ELEV. OF TOP OF TUBE BUNDLE IS 140'3".		
Design Input:	S2.OP-SO.RC-005; DCP 1EC-3099		
RECORD NUMBER:	07		

DATE 02/14/1997 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG LEVEL 2

POINT ID: U2LT0502S

PLANT POINT DESCRIPTION: #22 SG LEVEL WIDE RANGE

ERDS DESC: STEAM GENERATOR LEVEL ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 100 ZERO REF: TUBSHT

REF POINT NOTES: 10 TO 575 IN H2O

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 448 IN CNTMNT EL. 100

ALARM/TRIP SETPOINT INFO: LOLO:11.0, LO:15.0

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS: Y

LEVEL REF LEG: WET

NOTES

PROVIDES INDICATION OF WATER LEVEL
 IN STEAM GENERATOR. TRIP SETPOINTS
 PROVIDED BY NARROW RANGE CHANNELS
 NR TRIPS AT 67INC, 16DEC. LOWER INSTRU-
 MENT TAP 10 INCHES ABOVE TUBE SHEET.
 ELEV. OF TOP OF TUBE BUNDLE IS 140'3".

Design Input: S2.OP-SO.RC-005; PROC S2.IC-SC.MS-0104Q

RECORD NUMBER: 08

DATE 02/14/1997 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG LEVEL 3 POINT ID: U2LT0503S

PLANT POINT DESCRIPTION: #23 SG LEVEL WIDE RANGE

ERDS DESC: STEAM GENERATOR LEVEL ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 100 ZERO REF: TUBSHT

REF POINT NOTES: 10 TO 575 IN H2O

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 448 IN CNTMNT EL. 100

ALARM/TRIP SETPOINT INFO: LOLO:11.0, LO:15.0

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS: Y

LEVEL REF LEG: WET

NOTES

PROVIDES INDICATION OF WATER LEVEL
 IN STEAM GENERATOR. TRIP SETPOINTS
 PROVIDED BY NARROW RANGE CHANNELS
 NR TRIPS AT 67INC, 16DEC. LOWER INSTRU-
 MENT TAP 10 INCHES ABOVE TUBE SHEET.
 ELEV. OF TOP OF TUBE BUNDLE IS 140'3".

Design Input: S2.OP-SO.RC-005; PROC S2.IC-SC.MS-0105Q

RECORD NUMBER: 09

DATE 02/14/1997 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG LEVEL 4

POINT ID: U2LT0504S

PLANT POINT DESCRIPTION: #24 SG LEVEL WIDE RANGE

ERDS DESC: STEAM GENERATOR LEVEL ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 100 ZERO REF: TUBSHT

REF POINT NOTES: 10 TO 575 IN H2O

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 448 IN CNTMNT EL. 100

ALARM/TRIP SETPOINT INFO: LOLO:11.0, LO:15.0

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS: Y

LEVEL REF LEG: WET

NOTES

PROVIDES INDICATION OF WATER LEVEL
 IN STEAM GENERATOR. TRIP SETPOINTS
 PROVIDED BY NARROW RANGE CHANNELS
 NR TRIPS AT 67INC, 16DEC. LOWER INSTRU-
 MENT TAP 10 INCHES ABOVE TUBE SHEET,
 ELEV. OF TOP OF TUBE BUNDLE IS 140'3".

Design Input: S2.OP-SO.RC-005; PROC S2.IC-SC.MS-0106Q

RECORD NUMBER: 10

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG PRESS 1

POINT ID: U2PT0514AS

PLANT POINT DESCRIPTION: #21 SG STEAM OUT PRESS CHAN I

ERDS DESC: STEAM GENERATOR PRESSURE ANALOG/DIGITAL A

ENG UNITS: PSIG ENG UNITS CONV: NA

MIN INSTR RANGE: 4 MAX INSTR RANGE: 1204 ZERO REF: 4

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: NORTH PEN AREA, EL. 100

ALARM/TRIP SETPOINT INFO: LO:600.0

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES PROVIDES INDICATION OF STEAM PRESSURE
 IN STEAM GENERATOR. TRIP SETPOINTS
 BASED ON SG PRESSURE MISMATCH > 100PSI
 AND SG PRESSURE < 600PSIG IN CONJUCTION
 WITH OTHER SG PRESSURE CHANNELS.

Design Input: DWG 626547

RECORD NUMBER: 11

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG PRESS 2

POINT ID: U2PT0524AS

PLANT POINT DESCRIPTION: #22 SG STEAM OUT PRESS CHAN 1

ERDS DESC: STEAM GENERATOR PRESSURE ANALOG/DIGITAL A

ENG UNITS: PSIG ENG UNITS CONV: NA

MIN INSTR RANGE: 4 MAX INSTR RANGE: 1204 ZERO REF: 4

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: SOUTH PEN AREA EL. 100

ALARM/TRIP SETPOINT INFO: LO:600.0

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF STEAM PRESSURE
 IN STEAM GENERATOR. TRIP SETPOINTS
 BASED ON SG PRESSURE MISMATCH > 100PSI
 AND SG PRESSURE < 600PSIG IN CONJUCTION
 WITH OTHER SG PRESSURE CHANNELS.

Design Input: DWG 626550

RECORD NUMBER: 12

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG PRESS 3

POINT ID: U2PT0534AS

PLANT POINT DESCRIPTION: #23 SG STEAM OUT PRESS CHAN I

ERDS DESC: STEAM GENERATOR PRESSURE ANALOG/DIGITAL A

ENG UNITS: PSIG ENG UNITS CONV: NA

MIN INSTR RANGE: 4 MAX INSTR RANGE: 1204 ZERO REF: 4

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: NORTH PEN AREA EL. 100

ALARM/TRIP SETPOINT INFO: LO:600.0

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF STEAM PRESSURE
 IN STEAM GENERATOR. TRIP SETPOINTS
 BASED ON SG PRESSURE MISMATCH > 100PSI
 AND SG PRESSURE < 600PSIG IN CONJUNCTION
 WITH OTHER SG PRESSURE CHANNELS.

Design Input: DWG 626553

RECORD NUMBER: 13

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG PRESS 4

POINT ID: U2PT0544AS

PLANT POINT DESCRIPTION: #24 SG STEAM OUT PRESS CHAN I

ERDS DESC: STEAM GENERATOR PRESSURE ANALOG/DIGITAL A

ENG UNITS: PSIG ENG UNITS CONV: NA

MIN INSTR RANGE: 4 MAX INSTR RANGE: 1204 ZERO REF: 4

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: SOUTH PEN AREA EL. 100

ALARM/TRIP SETPOINT INFO: LO:600.0

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF STEAM PRESSURE
 IN STEAM GENERATOR. TRIP SETPOINTS
 BASED ON SG PRESSURE MISMATCH > 100PSI
 AND SG PRESSURE < 600PSIG IN CONJUNCTION
 WITH OTHER SG PRESSURE CHANNELS.

Design Input: DWG 626556

RECORD NUMBER: 14

DATE 11/26/2001 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MN FD FL 1

POINT ID: U2FT0510S

PLANT POINT DESCRIPTION: #21 SG FEEDWATER IN FLO CHAN I

ERDS DESC: STEAM GENERATOR FEED FLOW ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: SQRT OF DP * CONST

MIN INSTR RANGE: 12 MAX INSTR RANGE: 120 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: BETWEEN FW HEATER & SG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS: Y

LEVEL REF LEG: NA

NOTES

FLOW < 12% NOT MEANINGFUL;
 VALUES CLAMPED.

CONVERT % TO LBM/HR:
 FLOW LBM/HR = 14502.55 X
 THERMAL EXPANSION FACTOR X
 SQRT(SPECIFIC WT) X FLOW IN PERCENT
 / 2.83169
 FOR EXPANSION FACTOR AND SQRT SPECIFIC
 WEIGHT, REFER TO EXHIBIT 1 OF PROCEDURE
 SC.RE-ST.ZZ-0001(Q)

Design Input: SC.RE-ST.ZZ-0001(Q); DWG 623093, DCP 80010288

RECORD NUMBER: 15

DATE 11/26/2001 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MN FD FL 2

POINT ID: U2FT0520S

PLANT POINT DESCRIPTION: #22 SG FEEDWATER IN FLO CHAN I

ERDS DESC: STEAM GENERATOR FEED FLOW ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: SQRT OF DP * CONST

MIN INSTR RANGE: 12 MAX INSTR RANGE: 120 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: BETWEEN FW HEATER & SG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS: Y

LEVEL REF LEG: NA

NOTES

FLOW < 12% NOT MEANINGFUL;
 VALUES CLAMPED.

CONVERT % TO LBM/HR:
 FLOW LBM/HR = 14495.33 X
 THERMAL EXPANSION FACTOR X
 SQRT(SPECIFIC WT) X FLOW IN PERCENT
 / 2.83028

FOR EXPANSION FACTOR AND SQRT SPECIFIC
 WEIGHT, REFER TO EXHIBIT 1 OF PROCEDURE
 SC.RE-ST.ZZ-0001(Q)

Design Input: SC.RE-ST.ZZ-0001(Q); DWG 623095;DCP 80010288

RECORD NUMBER: 16

DATE 11/26/2001 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MN FD FL 3

POINT ID: U2FT0530S

PLANT POINT DESCRIPTION: #23 SG FEEDWATER IN FLO CHAN I

ERDS DESC: STEAM GENERATOR FEED FLOW ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: SQRT OF DP * CONST

MIN INSTR RANGE: 12 MAX INSTR RANGE: 120 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: BETWEEN FW HEATER & SG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS: Y

LEVEL REF LEG: NA

NOTES

FLOW < 12% NOT MEANINGFUL;
 VALUES CLAMPED.

CONVERT % TO LBM/HR:
 FLOW LBM/HR = 14502.19 X
 THERMAL EXPANSION FACTOR X
 SQRT(SPECIFIC WT) X FLOW IN PERCENT
 / 2.83161
 FOR EXPANSION FACTOR AND SQRT SPECIFIC
 WEIGHT, REFER TO EXHIBIT 1 OF PROCEDURE
 SC.RE-ST.ZZ-0001(Q).

Design Input: SC.RE-ST.ZZ-0001(Q); DWG 613097;DCP 80010288

RECORD NUMBER: 17

DATE 11/26/2001 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MN FD FL 4

POINT ID: U2FT0540S

PLANT POINT DESCRIPTION: #24 SG FEEDWATER IN FLO CH I

ERDS DESC: STEAM GENERATOR FEED FLOW ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: SQRT OF DP * CONST

MIN INSTR RANGE: 12 MAX INSTR RANGE: 120 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: BETWEEN FW HEATER & SG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS: Y

LEVEL REF LEG: NA

NOTES FLOW < 12% NOT MEANINGFUL;
VALUES CLAMPED.
CONVERT % TO LBM/HR:
FLOW LBM/HR = 14504.21 X
THERMAL EXPANSION FACTOR X
SQRT(SPECIFIC WT) X FLOW IN PERCENT
/ 2.83201
FOR EXPANSION FACTOR AND SQRT SPECIFIC
WEIGHT, REFER TO EXHIBIT 1 OF PROCEDURE
SC.RE-ST.ZZ-0001(Q).

Design Input: SC.RE-ST.ZZ-0001(Q); DWG 613099;DCP 80010288

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HL TEMP 1

POINT ID: U2TE0413AS

PLANT POINT DESCRIPTION: #21 RC WR HOT LEG TEMP

ERDS DESC: STM GEN1 INLET TEMP ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 30 MAX INSTR RANGE: 700 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT ON HOT LEG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF CORE HOT LEG

TEMPERATURE. PROVIDES INPUT TO T-AVG +

DELTA-T INSTRUMENTATION FOR COMPUTATION/

ALARMS/TRIPS.

Design Input: PROC 2IC-2.10.54

RECORD NUMBER: 23

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HL TEMP 2 POINT ID: U2TE0423AS

PLANT POINT DESCRIPTION: #22 RC WR HOT LEG TEMP

ERDS DESC: STM GEN2 INLET TEMP ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 30 MAX INSTR RANGE: 700 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT ON HOT LEG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF CORE HOT LEG

TEMPERATURE. PROVIDES INPUT TO T-AVG +

DELTA-T INSTRUMENTATION FOR COMPUTATION/

ALARMS/TRIPS.

Design Input: PROC 2IC-2.10.060

RECORD NUMBER: 24

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HL TEMP 3 POINT ID: U2TE0433AS

PLANT POINT DESCRIPTION: #23 RC WR HOT LEG TEMP

ERDS DESC: STM GEN3 INLET TEMP ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 30 MAX INSTR RANGE: 700 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT ON HOT LEG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF CORE HOT LEG

TEMPERATURE. PROVIDES INPUT TO T-AVG +

DELTA-T INSTRUMENTATION FOR COMPUTATION/

ALARMS/TRIPS.

Design Input: PROC 21C-2.10.66

RECORD NUMBER: 25

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HL TEMP 4

POINT ID: U2TE0443AS

PLANT POINT DESCRIPTION: #24 RC WR HOT LEG TEMP

ERDS DESC: STM GEN4 INLET TEMP ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 30 MAX INSTR RANGE: 700 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT ON HOT LEG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF CORE HOT LEG

TEMPERATURE. PROVIDES INPUT TO T-AVG +

DELTA-T INSTRUMENTATION FOR COMPUTATION/

ALARMS/TRIPS.

Design Input: PROC 2IC-2.10.72

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CL TEMP 1 POINT ID: U2TE0413BS

PLANT POINT DESCRIPTION: #21 RC WR COLD LEG TEMP

ERDS DESC: STM GEN1 OUTLET TEMP ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 30 MAX INSTR RANGE: 700 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT ON COLD LEG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF CORE ENTRY

COLD LEG TEMPERATURE. PROVIDES INPUT TO

T-AVG + DELTA-T INSTRUMENTATION FOR

COMPUTATION/ALARMS/TRIPS.

Design Input: PROC 21C-2.10.055

RECORD NUMBER: 27

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CL TEMP 2 POINT ID: U2TE0423BS

PLANT POINT DESCRIPTION: #22 RC WR COLD LEG TEMP

ERDS DESC: STM GEN2 OUTLET TEMP ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 30 MAX INSTR RANGE: 700 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT ON COLD LEG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES PROVIDES INDICATION OF CORE ENTRY
COLD LEG TEMPERATURE. PROVIDES INPUT TO
T-AVG + DELTA-T INSTRUMENTATION FOR
COMPUTATION/ALARMS/TRIPS.

Design Input: PROC 2IC-2.10.61

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CL TEMP 3 POINT ID: U2TE0433BS

PLANT POINT DESCRIPTION: #23 RC WR COLD LEG TEMP

ERDS DESC: STM GEN3 OUTLET TEMP ANALOG/DIGITAL A

ENG UNITS: DEGF ENG UNITS CONV: NA

MIN INSTR RANGE: 30 MAX INSTR RANGE: 700 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT ON COLD LEG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF CORE ENTRY

COLD LEG TEMPERATURE. PROVIDES INPUT TO

T-AVG + DELTA-T INSTRUMENTATION FOR

COMPUTATION/ALARMS/TRIPS.

Design Input: PROC 21C-2.10.067

RECORD NUMBER: 29

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CL TEMP 4

POINT ID: U2TE0443BS

PLANT POINT DESCRIPTION: #24 RC WR COLD LEG TEMP

ERDS DESC: STM GEN4 OUTLET TEMP

ANALOG/DIGITAL A

ENG UNITS: DEGF

ENG UNITS CONV: NA

MIN INSTR RANGE: 30

MAX INSTR RANGE: 700

ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S

NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT ON COLD LEG

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

PROVIDES INDICATION OF CORE ENTRY

COLD LEG TEMPERATURE. PROVIDES INPUT TO

T-AVG + DELTA-T INSTRUMENTATION FOR

COMPUTATION/ALARMS/TRIPS.

Design Input: CBD DE-CB.RCP-0038Q

RECORD NUMBER: 30

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CTMNT SMP WR POINT ID: U2LT0938S

PLANT POINT DESCRIPTION: CONTAINMENT SUMP LEVEL

ERDS DESC: CONTAINMENT SUMP WIDE RANGE LVL ANALOG/DIGITAL A

ENG UNITS: % ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 100 ZERO REF: CNTFLR

REF POINT NOTES: 70.4FT TO 87.8FT CNTMNT ELEVATION

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: CONTAINMENT EL. 78

ALARM/TRIP SETPOINT INFO: HI:78.0

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: WET

NOTES

WIDE RANGE ONLY. LOOP CONSISTS OF

3-STAGE CASCADE TMTR.

REFERENCE S-C-A900-MDC-0082, REV. 1,

FIGURE 1 FOR CNTMNT VOLUME IN GALLONS.

HI ALARM SETPOINT-ADVERSE: 75%

HI ALARM SETPOINT-NORMAL: 78%

Design Input: S-C-A900-MDC-0082, REV. 1; DWG 625016

RECORD NUMBER: 35

DATE 10/20/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CTMNT PRESS POINT ID: U2PT0948DS

PLANT POINT DESCRIPTION: CNTMT PRESSURE CHANNEL I

ERDS DESC: CONTAINMENT PRESSURE ANALOG/DIGITAL A

ENG UNITS: PSIG ENG UNITS CONV: NA

MIN INSTR RANGE: -5 MAX INSTR RANGE: +55 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: INSIDE CONTAINMENT

ALARM/TRIP SETPOINT INFO: HIGH: 4. HIGH-HIGH: 23.5

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES NARROW RANGE CHANNEL.

Design Input: PROC S2.IC-CC.RCP-0069Q

RECORD NUMBER: 42

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CTMNT TEMP

POINT ID: U2AVG-CNT-

PLANT POINT DESCRIPTION: AVERAGE CONTAINMENT TEMP

ERDS DESC: CONTAINMENT TEMPERATURE

ANALOG/DIGITAL A

ENG UNITS: DEGF

ENG UNITS CONV: NA

MIN INSTR RANGE: 0

MAX INSTR RANGE: 700

ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: P

NUMBER SENSORS: 015

HOW PROCESSED: AVERAGE OF ALL SENSORS

SENSOR LOCATION: CNTMNT EL. 78,84,87,106,121,130,& 136

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES

SPDS CALCULATED POINT.

THE SPDS POINT ID HAS BEEN TRUNCATED

TO TEN CHARACTERS BECAUSE OF ERDS

APPLICATION SOFTWARE LIMITATIONS. THE

SPDS POINT ID IS U2AVG-CNT-T

Design Input: TECH SPECS

RECORD NUMBER: 43

DATE 02/03/1993 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: BWST LEVEL POINT ID: U2LT0961S

PLANT POINT DESCRIPTION: RWST LEVEL CH D

ERDS DESC: REFUELING WATER STOR. TK LEVEL ANALOG/DIGITAL A

ENG UNITS: FT ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 48 ZERO REF: TNKBOT

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 378 AT RWST

ALARM/TRIP SETPOINT INFO: HI:41.9, LO:15.25, LOLO:11.5

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: WET

NOTES

PROVIDES INDICATION AND ALARM OF WATER

LEVEL IN THE RWST. FULL TANK EQUALS

400,000 GAL, LO ALARM OF 15.25 FT IS

APPROX 150,000 GAL, LOLO OF 11.5 FT IS

APPROX 115,000 GAL, AND A HI OF 41.9 FT

IS APPROX 375,000 GAL, REMAINING.

Design Input: S2.OP.OP-DD.ZZ-OD-74, CBDs DE-CB.SI-0040Q

RECORD NUMBER: 48

DATE 11/17/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND SPEED

POINT ID: U2XA8497S

PLANT POINT DESCRIPTION: WIND SPEED 150 FT ELEV

ERDS DESC: WIND SPEED AT REACTOR SITE ANALOG/DIGITAL A

ENG UNITS: MPH ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 100 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: MET TOWER

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES INSTANTANEOUS READINGS ONLY.

Design Input:

RECORD NUMBER: 51

DATE 11/17/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND SPEED POINT ID: U2XA8498S

PLANT POINT DESCRIPTION: WIND SPEED 300 FT ELEV

ERDS DESC: WIND SPEED AT REACTOR SITE ANALOG/DIGITAL A

ENG UNITS: MPH ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 100 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: MET TOWER

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: LOW

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES INSTANTANEOUS READINGS ONLY.

Design Input:

DATE 11/17/1992 REACTOR SA2

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND DIR POINT ID: U2XA8501S

PLANT POINT DESCRIPTION: WIND DIRECTION 300 FT ELEV

ERDS DESC: WIND DIRECTION AT REACTOR SITE ANALOG/DIGITAL A

ENG UNITS: DEGFR ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 540 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: MET TOWER

ALARM/TRIP SETPOINT INFO: NONE

NI DETECTOR PWR CUT OFF LVL: NA

NI DETECTOR PWR TURN ON LVL: NA

INSTRUMENT FAIL MODE: AS IS

TEMP COMP FOR DP TRANSMITTERS:

LEVEL REF LEG: NA

NOTES INSTANTANEOUS DIRECTION ONLY.

Design Input: