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PSEG
Nuclear LLC

JAN 0 4 2002

LRN-02-0006

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. 1
DOCKET NO. 50-272

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 1 ERDS Data Point Library (DPL). These changes affect the following ERDS data points U1FT0510S, U1FT0520S, U1FT0530S, and U1FT0540S. Since the ERDS DPL has been completely reformatted, an entire copy of the Unit 1 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,

G. Salamon
Nuclear Safety and Licensing Manager

Enclosure

A026

JAN 0 4 2002

C Mr. Hubert J. Miller, Administrator - Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

U. S. Nuclear Regulatory Commission
ATTN: Mr. Robert Fretz, Licensing Project Manager - Salem
Mail Stop 08B2
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USNRC Senior Resident Inspector – Salem (X24)

Mr. K. Tosch, Manager, IV
Bureau of Nuclear Engineering
P.O. Box 415
Trenton, NJ 08625

Ms. E. Falone
Delaware Emergency Management Agency
P. O. Box 527
Delaware City, DE 19706

DATE 02/03/1993 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: NI POWER RNG POINT ID: U1NM0041FS

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: HIGH: 103

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
AND LOWER FLUX AVG. LOW1 SETPOINT (9)
INTERLOCKED WITH P-10. LOW2 SETPOINT
(11) INTERLOCKED WITH P-7.HIGH1 SETPOINT
(36) INTERLOCKED WITH P-8. HIGH2
SETPOINT (50) INTERLOCKED WITH P-9.
ALARM SETPOINT (103) IS FROM SPDS.

Design Input: CALC S-C-NIS-CEE-0702, CBD DE-CB.RCP-0032

RECORD NUMBER: 01

DATE: 01/02/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: NI INTER RNG POINT ID: U1NM0035BB

PLANT POINT DESCRIPTION: INTERM RNG NEUTRON LVL CH I

ERDS DESC: NUCLEAR INSTRUMENTS-INTERMD RNGE 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.
LOW1 SETPOINT IS 6E-11.
LOW2 SETPOINT IS 1E-10.
DCP 1EO2654 K503

Design Input: CALC S-C-NIS-CEE-0702

RECORD NUMBER: 02

DATE: 01/02/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: NI SOURC RNG POINT ID: U1NM0031FA

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.

Design Input: CALC S-C-NIS-CEE-0702

RECORD NUMBER: 03

DATE 11/17/1992 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: REAC VES LEV POINT ID: U1LT1311S

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 839-1A, 839-1B

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 TMTR'S, 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
REPRESENTS BOTTOM OF VESSEL. ZERO REF PT TAP AT SEAL TABLE REPRESENT
BOTTOM OF VESSEL.120% LEVEL EQUALS TOP OF HEAD.
AT 0% VOID FRACTION, 50% LEVEL EQUALS 3.5 FT ABOVE
TOP OF ACTIVE FUEL. 0 TO 120% : 0 TO 495.25 IN.

Design Input: CALC S-C-RVL-CEE-0698

RECORD NUMBER: 04

DATE: 02/03/1993 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: TEMP CORE EX POINT ID: U1TC-HOTTEST

PLANT POINT DESCRIPTION: HOTTEST INCORE THERMOCOUPLE

ERDS DESC: HIGHEST TEMP 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.
DCP 1EO-2654 CD K503

Design Input: VTD 313509

RECORD NUMBER: 05

DATE: 02/03/1993 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SUB MARGIN POINT ID: U1ASUBCOOLMR

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.
DCP 1EO-2654 CD K503

Design Input: VTD 313509

RECORD NUMBER: 06

DATE: 01/02/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG LEVEL 1 POINT ID: U1LT0501S

PLANT POINT DESCRIPTION: #11 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: 0 TO 559 IN H2O

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 448 IN CNTMNT EL. 100

ALARM/TRIP SETPOINT INFO: HIHI:67.0, LOLO:8.5, LO:25.0

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 67 INC, 16 DEC. LOWER INSTRU-
MENT TAP 4 INCHES ABOVE TUBE SHEET.
ELEV. OF TOP OF TUBE BUNDLE IS 135'0".
DCP 1EE-0367 CD K501

Design Input: DCP 1EC-3099, DWG 613109

RECORD NUMBER: 07

DATE: 01/02/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG LEVEL 2 POINT ID: U1LT0502S

PLANT POINT DESCRIPTION: #12 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: 0 TO 559 IN H2O

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 448 IN CNTMNT EL. 100

ALARM/TRIP SETPOINT INFO: HIHI:67.0, LOLO:8.5, LO:25.0

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
67 INC, 16 DEC. LOWER INSTRUMENT TAP
4 INCHES ABOVE TUBE SHEET.
ELEV. OF TOP OF TUBE BUNDLE IS 135'0".
DCP 1EE-0367 CD K501

Design Input: DWG 613110

RECORD NUMBER: 08

DATE: 01/02/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG LEVEL 3 POINT ID: U1LT0503S

PLANT POINT DESCRIPTION: #13 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: 0 TO 559 IN H2O

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 448 IN CNTMNT EL. 100

ALARM/TRIP SETPOINT INFO: HIHI:67.0, LOLO:8.5, LO:25.0

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
67 INC, 16 DEC. LOWER INSTRUMENT TAP
4 INCHES ABOVE TUBE SHEET.
ELEV. OF TOP OF TUBE BUNDLE IS 135'0".
DCP 1EE-0367 CD K501

Design Input: DCP 1EC-3099, DWG 613111

RECORD NUMBER: 09

DATE 01/02/2001 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG LEVEL 4 POINT ID: U1LT0504S

PLANT POINT DESCRIPTION: #14 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: 0 TO 559 IN H2O

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 448 IN CNTMNT EL. 100

ALARM/TRIP SETPOINT INFO: HIHI:67.0, LOLO:8.5, LO:25.0

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
67 INC, 16 DEC. LOWER INSTRUMENT TAP
4 INCHES ABOVE TUBE SHEET.
ELEV. OF TOP OF TUBE BUNDLE IS 135'0".
DCP 1EE-0367 CD K501

Design Input: DWG 613112

RECORD NUMBER: 10

DATE: 02/03/1993 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG PRESS 1 POINT ID: U1PT0514AS

PLANT POINT DESCRIPTION: #11 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 616547, CALC SC-CN002-01

RECORD NUMBER: 11

DATE: 02/03/1993 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG PRESS 2 POINT ID: U1PT0524AS

PLANT POINT DESCRIPTION: #12 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 616550, CALC SC-CN-002-01

RECORD NUMBER: 12

DATE: 02/03/1993 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG PRESS 3 POINT ID: U1PT0534AS

PLANT POINT DESCRIPTION: #13 SG STEAM OUT PRESS CHAN I

ERDS DESC: STEAM GENERATION 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 616553, CALC SC-CN002-01

RECORD NUMBER: 13

DATE: 02/03/1993 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: SG PRESS 4 POINT ID: U1PT0544AS

PLANT POINT DESCRIPTION: #14 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 CONJUCTION WITH
OTHER SG PRESSURE CHANNELS.

Design Input: DWG 616556, CALC SC-CN002-01

RECORD NUMBER: 14

DATE 12/27/2002 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MN FD FL 1 POINT ID: U1FT0510S

PLANT POINT DESCRIPTION: #11 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 = 14512.44 X THERMAL EXPANSION
FACTOR X SQRT(SPECIFIC WT) X FLOW IN PERCENT / 2.87031
FOR EXPANSION FACTOR AND SQRT SPECIFIC
WEIGHT, REFER TO EXHIBIT 1 OF PROCEDURE
SC.RE-ST.ZZ-0001(Q)

Design Input: DWG 613093

RECORD NUMBER: 15

DATE: 12/27/2002 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MN FD FL 2 POINT ID: U1FT0520S

PLANT POINT DESCRIPTION: #12 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 = 14497.54 X
THERMAL EXPANSION FACTOR X
SQRT(SPECIFIC WT) X FLOW IN PERCENT / 2.74112
FOR EXPANSION FACTOR AND SQRT SPECIFIC
WEIGHT, REFER TO EXHIBIT 1 OF PROCEDURE
SC.RE-ST.ZZ-0001 (Q).

Design Input: DWG 613095

RECORD NUMBER: 16

DATE: 12/27/2002 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MN FD FL 3 POINT ID: U1FT0530S

PLANT POINT DESCRIPTION: #13 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 = 14506.32 X
THERMAL EXPANSION FACTOR X SQRT(SPECIFIC WT) X FLOW IN PERCENT
/ 2.83724
FOR EXPANSION FACTOR AND SQRT SPECIFIC
WEIGHT, REFER TO EXHIBIT 1 OF PROCEDURE
SC.RE-ST.ZZ-0001 (Q).

Design Input: DWG 613097

RECORD NUMBER: 17

DATE 12/27/2002 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MN FD FL 4 POINT ID: U1FT0540S

PLANT POINT DESCRIPTION: #14 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 = 14504.06 X
THERMAL EXPANSION FACTOR X
SQRT(SPECIFIC WT) X FLOW IN PERCENT / 2.90090
FOR EXPANSION FACTOR AND SQRT SPECIFIC
WEIGHT, REFER TO EXHIBIT 1 OF PROCEDURE SC.RE-ST.ZZ-0001 (Q).

Design Input: DWG 613099

RECORD NUMBER: 18

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: AX FD FL 1 POINT ID: U1FA1087S

PLANT POINT DESCRIPTION: #11 SG AFW FLOW

ERDS DESC: STEAM GENERATOR AUX FW FLOW ANALOG/DIGITAL: A

ENG UNITS: LB/HR ENG UNITS CONV: SQRT OF DP * CONST

MIN INSTR RANGE: 25,000 MAX INSTR RANGE: 250,000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NONE

SENSOR LOCATION: BETWEEN AUX FD PUMP & SG FD LINE

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: FEED FLOW < 25,000 LB/HR CLAMPED
TO ZERO.

Design Input: PROC S1.IC-SC.AF-0216(Q)

RECORD NUMBER: 19

DATE 10/20/1992 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: AX FD FL 2 POINT ID: U1FA1091S

PLANT POINT DESCRIPTION: #12 SG AFW FLOW

ERDS DESC: STEAM GENERATOR AUX FW FLOW ANALOG/DIGITAL A

ENG UNITS: LB/HR ENG UNITS CONV: SQRT OF DP * CONST

MIN INSTR RANGE: 25,000 MAX INSTR RANGE: 250,000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NONE

SENSOR LOCATION: BETWEEN AUX FD PUMP & SG FD LINE

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 FEED FLOW < 25,000 LB/HR CLAMPED
TO ZERO.

Design Input: PROC S1.IC-SC.AF-0217Q

RECORD NUMBER: 20

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: AX FD FL 3 POINT ID: U1FA1095S

PLANT POINT DESCRIPTION: #13 SG AFW FLOW

ERDS DESC: STEAM GENERATOR AUX FW FLOW ANALOG/DIGITAL: A

ENG UNITS: LB/HR ENG UNITS CONV: SQRT OF DP * CONST

MIN INSTR RANGE: 25,000 MAX INSTR RANGE: 250,000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NONE

SENSOR LOCATION: BETWEEN AUX FD PUMP & SG FEED LINE

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: FEED FLOW < 25,000 LB/HR CLAMPED
TO ZERO.

Design Input: DWG 621425, 233035, 205336

RECORD NUMBER: 21

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: AX FD FL 4 POINT ID: U1FA1097S

PLANT POINT DESCRIPTION: #14 SG AFW FLOW

ERDS DESC: STEAM GENERATOR AUX FW FLOW ANALOG/DIGITAL: A

ENG UNITS: LB/HR ENG UNITS CONV: SQRT OF DP * CONST

MIN INSTR RANGE: 25,000 MAX INSTR RANGE: 250,000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NONE

SENSOR LOCATION: BETWEEN AUX FD PUMP & SG FEED LINE

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: FEED FLOW < 25,000 LB/HR CLAMPED
TO ZERO.

Design Input: PROC S1.IC-SC.AF-0219Q

RECORD NUMBER: 22

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HL TEMP 1 POINT ID: U1TE0413AS

PLANT POINT DESCRIPTION: #11 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: CBD DE-CB.RCP-0038Q

RECORD NUMBER: 23

DATE 10/20/1992 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HL TEMP 2 POINT ID: U1TE0423AS

PLANT POINT DESCRIPTION: #12 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: CBD DE-CB.RCP-0038Q

RECORD NUMBER: 24

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HL TEMP 3 POINT ID: U1TE0433AS

PLANT POINT DESCRIPTION: #13 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: CBD DE-CB.RCP-0038Q

RECORD NUMBER: 25

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HL TEMP 4 POINT ID: U1TE0443AS

PLANT POINT DESCRIPTION: #14 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: CBD DE-CB.RCP-0038Q

RECORD NUMBER: 26

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CL TEMP 1 POINT ID: U1TE0413BS

PLANT POINT DESCRIPTION: #11 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: CBD DE-CB.RCP-0038Q

RECORD NUMBER: 27

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CL TEMP 2 POINT ID: U1TE0423BS

PLANT POINT DESCRIPTION: #12 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: CBD DE-CB.RCP-0038Q

RECORD NUMBER: 28

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CL TEMP 3 POINT ID: U1TE0433BS

PLANT POINT DESCRIPTION: #13 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: CBD DE-CB.RCP-0038Q

RECORD NUMBER: 29

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CL TEMP 4 POINT ID: U1TE0443BS

PLANT POINT DESCRIPTION: #14 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 SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: RCS PRESSURE POINT ID: U1PT0405S

PLANT POINT DESCRIPTION: RC WIDE RANGE PRESS

ERDS DESC: REACTOR COOLANT SYSTEM ANALOG/DIGITAL A

ENG UNITS: PSIG ENG UNITS CONV: NA

MIN INSTR RANGE: 6 MAX INSTR RANGE: 3006 ZERO REF: 6

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NONE

SENSOR LOCATION: PANEL 797, CNTMNT EL. 78

ALARM/TRIP SETPOINT INFO: LOW: 1865, HIGH: 2385

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 INPUT TO SMM, PROVIDES PRESSURE
OF RCS IN GENERAL.

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

RECORD NUMBER: 31

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: PRZR LEVEL POINT ID: U1LT0459S

PLANT POINT DESCRIPTION: PRESSURIZER LEVEL CHAN I

ERDS DESC: PRIMARY SYSTEM PRESSURIZER LEVEL ANALOG/DIGITAL: A

ENG UNITS: % ENG UNITS CONV: NA

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

REF POINT NOTES: 106 TO 366 IN H2O

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 335, CNTMNT EL. 100

ALARM/TRIP SETPOINT INFO: LO:17.0, HI:70.0, HIHI:92.0

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: 100% EQUALS RANGE OF 106 TO 366 INH20
LOWER INSTRUMENT TAP AT TOP OF PZR HTRS

Design Input: UFSAR SECTION 5.1

RECORD NUMBER: 32

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: RCS CHG/MU POINT ID: U1FT0128S

PLANT POINT DESCRIPTION: CHARGING FLOW

ERDS DESC: PRIMARY SYSTEM CHARGING FLOW ANALOG/DIGITAL: A

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

MIN INSTR RANGE: 20 MAX INSTR RANGE: 200 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: #13 PUMP OUTLET, EL.84

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 EQ TO 0-237 H20; CHARGING FLOW
< 20GPM CLAMPED TO ZERO.

Design Input: PROC S1.IC-2.9.017

RECORD NUMBER: 33

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HP SI FLOW POINT ID: U1FT0922S

PLANT POINT DESCRIPTION: #11 SAFETY INJ PUMP DISCH FLOW

ERDS DESC: HIGH PRESS SFTY INJECTION FLOW ANALOG/DIGITAL: A

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

MIN INSTR RANGE: 80 MAX INSTR RANGE: 800 ZERO REF: NA

REF POINT NOTES: CORRECTED FOR 1000PSI STATIC SHIFT

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: AUX BLDG EL.84

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 EQUIVALENT TO 0 TO 799 INH20 DP.
FLOW < 80GPM CLAMPED TO ZERO.

Design Input: PROC S1IC-2.9.174

RECORD NUMBER: 34

DATE: 02/03/1993 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CTMNT SMP WR POINT ID: U1LT0938S

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: CNTNMNT EL. 78

ALARM/TRIP SETPOINT INFO: HI:76

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 CNTNMNT VOLUME IN GALLONS.

Design Input: CALC S-C-A900-MDC-0082

RECORD NUMBER: 35

DATE: 01/02/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: EFF GAS RAD POINT ID: U1NGRR

PLANT POINT DESCRIPTION: NOBLE GAS RELEASE RATE

ERDS DESC: RADIOACTIVITY OF RELEASED GASES ANALOG/DIGITAL: A

ENG UNITS: UCI/S ENG UNITS CONV: UCI/CC * FLOW RATE * CONSTANT

MIN INSTR RANGE: 0 MAX INSTR RANGE: 1E12 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: P NUMBER SENSORS: 004

HOW PROCESSED: NA

SENSOR LOCATION: ON PLANT VENT LINE

ALARM/TRIP SETPOINT INFO: 1.0E4UCI/SEC WARN, 2E4 UCI/SEC ALARM

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
COMPUTED BY SPDS.
PROVIDES INDICATION OF RADIOACTIVITY
RELEASE RATE IN PLANT STACK EFFLUENT.

SEE SETPOINT CALC SC-RM004-01 FOR CALC DATA
DCP 1EC-3244 CD K542

Design Input:

RECORD NUMBER: 36

DATE 05/21/2001 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CNTMNT RAD POINT ID: U1R0044AS

PLANT POINT DESCRIPTION: R44A CNTMT POST LOCA RAD MON

ERDS DESC: RADIATION LEVEL IN CONTAINMENT ANALOG/DIGITAL A

ENG UNITS: R/HR ENG UNITS CONV: LOG

MIN INSTR RANGE: 1E0 MAX INSTR RANGE: 1E7 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: IN CNTMNT

ALARM/TRIP SETPOINT INFO: HI:100, HIHI: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 GENERAL RADIATION
LEVEL INSIDE CONTAINMENT.
DCP 1EC-3669 CD K505

Design Input: R.G. 1.97 SUBMITTAL, VTD 315733

RECORD NUMBER: 37

DATE: 05/21/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MAIN SL 2 POINT ID: U1R0046AS

PLANT POINT DESCRIPTION: MAIN STEAM RAD MON R46A

ERDS DESC: STM GEN2 STM LINE RAD LEVEL ANALOG/DIGITAL: A

ENG UNITS: MR/HR ENG UNITS CONV: LOG SCALE

MIN INSTR RANGE: 0.1 MAX INSTR RANGE: 10000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: BLDG 04, EL. 100

ALARM/TRIP SETPOINT INFO: HI:5.0, HIHI:6.5

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: ENG. RANGE EQUIVALENT TO 0.1 TO
5000 uCi/cc XE-133. PROVIDES INDICATION
OF RADIOACTIVITY WITHIN MAIN STEAM LINE.
DCP 1EC-3669 CD K505

Design Input: R.G. 1.97 SUBMITTAL, VTD 315733

RECORD NUMBER: 38

DATE: 05/21/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MAIN SL 4 POINT ID: U1R0046BS

PLANT POINT DESCRIPTION: MAIN STEAM RAD MON R46B

ERDS DESC: STM GEN4 STM LINE RAD LEVEL ANALOG/DIGITAL: A

ENG UNITS: MR/HR ENG UNITS CONV: LOG SCALE

MIN INSTR RANGE: 0.1 MAX INSTR RANGE: 10,000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: BLDG 04, EL. 100

ALARM/TRIP SETPOINT INFO: HI:5.0, HIHI:6.5

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:
ENG. RANGE EQUIVALENT TO 0.1 TO
5000 uCi/CC XE-133. PROVIDES INDICATION
OF RADIOACTIVITY WITHIN MAIN STEAM LINE.
DCP 1EC-3669 CD K505

Design Input: VTD 315733

RECORD NUMBER: 39

DATE: 05/21/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MAIN SL 1 POINT ID: U1R0046CS

PLANT POINT DESCRIPTION: MAIN STEAM RAD MON R46C

ERDS DESC: STM GEN1 STM LINE RAD LEVEL ANALOG/DIGITAL: A

ENG UNITS: MR/HR ENG UNITS CONV: LOG SCALE

MIN INSTR RANGE: 0.1 MAX INSTR RANGE: 10,000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: BLDG 04, EL. 100

ALARM/TRIP SETPOINT INFO: HI:5.0, HIHI:6.5

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:
ENG RANGE EQUIVALENT TO 0.1 TO
5000 uCi/cc XE-133. PROVIDES INDICATION
OF RADIOACTIVITY WITHIN MAIN STEAM LINE.
DCP 1EC-3669 CD K505

Design Input: VTD 315733

RECORD NUMBER: 40

DATE: 05/25/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: MAIN SL 3 POINT ID: U1R0046DS

PLANT POINT DESCRIPTION: MAIN STEAM RAD MON R46D

ERDS DESC: STM GEN3 STM LINE RAD LEVEL ANALOG/DIGITAL: A

ENG UNITS: MR/HR ENG UNITS CONV: LOG SCALE

MIN INSTR RANGE: 0.1 MAX INSTR RANGE: 10,000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: BLDG 04, EL. 100

ALARM/TRIP SETPOINT INFO: HI:5.0, HIHI:6.5

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: ENG RANGE EQUIVALENT TO 0.1 TO
5000 uCi/cc XE-133 PROVIDES INDICATION
OF RADIOACTIVITY WITHIN MAIN STEAM LINE.
DCP 1EC-3669 CD K505

Design Input: VTD 315733

RECORD NUMBER: 41

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CTMNT PRESS POINT ID: U1PT0948DS

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 CNTMNT

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 S1.IC-CC.RCP-0069Q

RECORD NUMBER: 42

DATE 01/02/2001 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: CTMNT TEMP POINT ID: U1AVG-CNT-T

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.
DCP 1EO-2654 CD K503

Design Input:

RECORD NUMBER: 43

DATE: 02/03/1993 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: H2 CONC POINT ID: U1XA3361S

PLANT POINT DESCRIPTION: CNTMNT HYDROGEN LVL #11

ERDS DESC: CNTMNT HYDROGEN CONCENTRATION ANALOG/DIGITAL: A

ENG UNITS: % ENG UNITS CONV: NA

MIN INSTR RANGE: 0 MAX INSTR RANGE: 10 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: INSIDE CNTMNT

ALARM/TRIP SETPOINT INFO: HI:2, HIHI:4

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 H2 IN CNTMNT.

Design Input: DWG 614719

RECORD NUMBER: 44

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND SPEED POINT ID: U1XA8496S

PLANT POINT DESCRIPTION: WIND SPEED 30 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: 45

DATE 10/20/1992 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND DIR POINT ID: U1XA8499S

PLANT POINT DESCRIPTION: WIND DIRECTION 30 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:

RECORD NUMBER: 46

DATE: 10/20/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: LP SI FLOW POINT ID: U1FT0946S

PLANT POINT DESCRIPTION: #11 RHRHX OUTLET FLOW

ERDS DESC: LOW PRESSURE SAFETY INJ FLOW ANALOG/DIGITAL: A

ENG UNITS: GPM ENG UNITS CONV: NA

MIN INSTR RANGE: 500 MAX INSTR RANGE: 5,000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 104 AUX BLDG EL. 45 RHR PP RM

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: RANGE EQUAL TO 0-64 PSID; FLOW
< 500GPM CLAMPED TO ZERO.

Design Input: CALC SC-RHR002-01, DWG 610906

RECORD NUMBER: 47

DATE: 01/02/2001 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: BWST LEVEL POINT ID: U1LT0920S

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:15.2, LOLO:1.0

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: DRY

NOTES: PROVIDES INDICATION OF WATER LEVEL IN RWST: FULL TANK EQUALS 400,000 GAL. LO OF 15.2 FT IS APPROXIMATELY 150,153 GALLONS. LOLO OF 1.0 FT IS APPROX 29,641 GAL. HI OF 41.9 FT IS APPROX 376,654 GAL. REMAINING. ZERO PT REFERENCE IS INSTRUMENT TAP, 2.5 FT ABOVE TANK BOTTOM. (TNKBTM) DCP 1EC-3473 CD K501

Design Input: CALC S-C-VAR-CDC-0095, CBD DE-CB.SI-0040Q

RECORD NUMBER: 48

DATE: 11/17/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: HP SI FLOW POINT ID: U1FT0918S

PLANT POINT DESCRIPTION: #12 SAFETY INJ PUMP DISCH FLOW

ERDS DESC: HIGH PRESS SFTY INJECTION FLOW ANALOG/DIGITAL: A

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

MIN INSTR RANGE: 80 MAX INSTR RANGE: 800 ZERO REF: NA

REF POINT NOTES: CORRECTED FOR 1000PSI STATIC SHIFT

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: AUX BLDG, EL.84

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 EQUIVALENT TO 0 TO 799 INH20 DP.
FLOW < 80GPM CLAMPED TO ZERO.

Design Input:

RECORD NUMBER: 49

DATE: 11/17/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: LP SI FLOW POINT ID: U1FT0947S

PLANT POINT DESCRIPTION: #12 RHRHX OUTLET FLOW

ERDS DESC: LOW PRESSURE SAFETY INJ FLOW ANALOG/DIGITAL: A

ENG UNITS: GPM ENG UNITS CONV: NA

MIN INSTR RANGE: 500 MAX INSTR RANGE: 5000 ZERO REF: NA

REF POINT NOTES: NA

PROC OR SENSOR: S NUMBER SENSORS: 001

HOW PROCESSED: NA

SENSOR LOCATION: PANEL 104 AUX BLDG EL. 45 RHR PP RM

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: RANGE EQUAL TO 0-64 PSID; FLOW
< 500 GPM CLAMPED TO ZERO.

Design Input:

RECORD NUMBER: 50

DATE: 11/17/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND SPEED POINT ID: U1XA8497S

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: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND SPEED POINT ID: U1XA8498S

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:

RECORD NUMBER: 52

DATE: 11/17/1992 REACTOR: SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND DIR POINT ID: U1XA8500S

PLANT POINT DESCRIPTION: WIND DIRECTION 150 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:

RECORD NUMBER: 53

DATE 11/17/1992 REACTOR SA1

DATA FEEDER: SPDS

NRC ERDS PARAMETER: WIND DIR POINT ID: U1XA8501S

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:

RECORD NUMBER: 54