

The Light company

Houston Lighting & Power

South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

March 05, 1992

ST-HL-AE-4028

File No.: G03.15,
G03.17

10 CFR 50

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20545

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
ERDS Implementation - Data Point
Library/Plant Attribute Library Submittal

The Emergency Response Data System (ERDS) implementation plan for South Texas Project (STP) Units 1 and 2 was submitted in ST-HL-AE-4001, dated October 28, 1991. Activity number ST-06 of that plan provides that STP is to complete the Data Point Library (DPL) and Plant Attribute Library (PAL) and send them to the NRC by March 6, 1992. The attachments are provided as a result of that activity.

The attached ERDS DPLs, Revision A, for STP Unit 1 (ST1) and Unit 2 (ST2) were written to conform to NUREG-1394, Rev. 1, Section 3.4. As prescribed in 10 CFR Part 50, Appendix E, VI.3.a., any hardware or software changes that affect the transmitted data points identified in the ERDS DPL are to be submitted to the NRC within 30 days after the changes are completed. The ERDS DPLs have been established as engineering design documents at STP and as such are configurationally controlled by engineering change procedures.

The attached ERDS Communications Description and Survey Questionnaire, also known as the Plant Attribute Library (PAL) for ST1 and ST2, is submitted to conform to NUREG-1394, Rev. 1, Section 3.3. As prescribed in 10 CFR Part 50, Appendix E, VI.3.b., hardware and software changes, with the exception of data point modifications, that could affect the transmission format and computer communication protocol to the ERDS will be provided to the NRC as soon as practicable and at least 30 days prior to the modification. The design information contained in the PAL is incorporated into STP's engineering design documents which are configurationally controlled by engineering change procedures.

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It should be noted that the DPLs (ST1 and ST2) currently differ. The Human Engineering Deficiency (HED) modifications to resolve differences between data displayed on ERFDADS and QDPS have been completed for Unit 2. This corresponding Unit 1 HED modifications have not been implemented yet, but are currently scheduled for implementation during the next Unit 1 refueling outage (1RE04). Any forthcoming DPL/PAL changes for ST1 resulting from these Unit 1 HED modifications will be submitted as described in the previous paragraphs.

If you should have any questions on this matter, please contact A. W. Harrison at (512) 972-7298.


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DDT/amp

Attachments: 1. STP ERDS DPL for Data Feeder ST1
2. STP ERDS DPL for Data Feeder ST2
3. STP ERDS PAL for Data Feeder ST1
4. STP ERDS PAL for Data Feeder ST2

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Revised 10/11/91

L4,NRC/

STP ERDS DPL FOR DATA FEEDER ST 1

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 03/04/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : AX FD FL C

Point ID : AFPE7523

Plant pec Point Desc : AFWP 13 FLOW TO SG 1C

Generic/Cond Desc : STM GEN C AUXILIARY FW FLOW

Analog/Digital : A

Engr Units/Dig States : GPM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : ISOL.VLV.CUBCLE.ON VENTURI UPSTRM OF FCV

Alarm/Trip Set Points : HIGH FLOW AT 675/LOW FLOW AT 550 GPM

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc : THERE ARE THREE MOTOR-DRIVEN AND ONE STEAM DRIVEN AFW PUMPS RATED AT 600 GPM EACH. EACH PUMP IS NORMALLY LINED UP TO SUPPLY ONE STEAM GENERATOR BUT EACH PUMP IS CAPABLE OF SUPPLYING WATER TO ALL FOUR SGs. THE THREE MOTOR DRIVEN ARE POWERED FROM SEPARATE ESF BUSES. EACH BUSS HAS A DIESEL GENERATOR AS A BACKUP SOURCE. THE TURBINE DRIVEN PUMP GETS STEAM SUPPLY FROM SG D ONLY. QDPS AUTOMATICALLY RESTRICTS MIN FLOW TO 550 GPM AND MAX FLOW TO 675 GPM BY A FCV DOWNSTREAM OF THE AFW PUMP DISCHARGE.

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : AX FD FL B

Point ID : AFPE7524

Plant Spec Point Desc : AFWP 12 FLOW TO SG 1B

Generic/Cond Desc : STM GEN B AUXILIARY FW FLOW

Analog/Digital : A

Engr Units/Dig States : GPM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : ISOL.VLV.CUBCLE.ON VENTURI UPSTRM OF FCV

Alarm/Trip Set Points : HIGH FLOW AT 675/LOW FLOW AT 550 GPM

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : AX FD FL A

Point ID : AFFE7525

Plant Spec Point Desc : AFWP 11 FLOW TO SG 1A

Generic/Cond Desc : STM GEN A AUXILIARY FW FLOW

Analog/Digital : A

Engr Units/Dig States : GPM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : ISOL.VLV.CUBCLE.ON VENTURI UPSTRM OF FCV

Alarm/Trip Set Points : HIGH FLOW AT 675/LOW FLOW AT 550 GPM

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : AX FD FL D
Point ID : APFE7526
Plant Spec Point Desc : AFWP 14 FLOW TO SG 1D
Generic/Cond Desc : STM GEN D AUXILIARY FW FLOW
Analog/Digital : A
Engr Units/Dig States : GPM
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 700
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations : ISOL.VLV.CUBCLE.ON VENTURI UPSTRM OF FCV
Alarm/Trip Set Points : HIGH FLOW AT 675/LOW FLOW AT 550 GPM
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : H2 CONC

Point ID : CMAU4102

Plant Spec Point Desc : CNTMT H2 AVG CONC

Generic/Cond Desc : CNTMT HYDROGEN CONCENTRATION

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 10

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : ERFDADS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH CONC AT 3.2/LOW CONC AT 0.1 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-off Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : INSTRUMENTATION IS NOT ENERGIZED UNTIL REACTOR TRIP. WILL
INDICATE -2.5 PRCT AND LO ALARM UNTIL OPERATOR ENERGIZES.

Date : 02/28/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : CTLU7716A

Plant Spec Point Desc : AFWST AVG LVL

Generic/Cond Desc : AUX.FEEDWATER STORAGE TANK LEVEL

Analog/Digital : A

Engr Units/Dig States : KGAL

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 529

Zero Point Reference : LO TAP

Reference Point Notes : 0=LWR.INST.TAP(6.17 KGAL UNUSABLE BELOW)

PROC or SENS : P

Number of Sensors : 3

How Processed : ERFDADS RSA

Sensor Locations : A1-CT-LT7716, C1-CT-LT7717, B1-CT-LT7748

Alarm/Trip Set Points : LO=512.199 / HI=524.5

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : DRY

Unique System Desc : INDICATES AFWST IN KGAL ABOVE LOWER INSTRUMENT TAP. LOWER
INSTRUMENT TAP IS ZERO REFERENCE. HOWEVER, THERE IS AN
UNUSABLE VOLUME (6.17 KGAL) CONTAINED BELOW THIS TAP AS
MEASURED FROM THE BOTTOM OF THE TANK THAT IS NOT
INDICATED.

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

| | | |
|---|---|--|
| Date | : | 02/27/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | RCS CHG/MU |
| Point ID | : | CVFE0205 |
| Plant Spec Point Desc | : | RCS CHARGING SYS FLOW |
| Generic/Cond Desc | : | PRIM SYS CHARGING OR MAKEUP FLOW |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 500 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | PUMP DISCHARGE, COMBINED CHARGING HEADER |
| Alarm/Trip Set Points | : | HIGH FLOW AT 300/LOW FLOW AT 30 GPM |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 03/04/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : CTMNT SMP NR

Point ID : EDLE7839

Plant Spec Point Desc : CNTMT NORMAL SUMP LVL

Generic/Cond Desc : CNTMT SUMP NARROW RANGE LEVEL

Analog/Digital : A

Engr Units/Dig States : INCH

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instl Range : 78

Zero Point Reference : EL-207

Reference Point Notes : 0 EXTENDS FROM SUMP BOTTOM TO 12" SENSOR

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : IN 6'X 6'X 6' CNTMT NOrMAL SUMP

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : WATER LEVEL IN CONTAINMENT NORMAL SUMP (6'X 6'X 6') WILL
BE DISPLAYED AS HEIGHT IN INCHES ABOVE SUMP BOTTOM,
ELEV. (-207 INCHES). THE DISPLAY RANGE IS 0 TO 78 INCHES
TO MEASURE LEVEL DURING NORMAL OPERATION. TWELVE SENSOR
HEADS ARE MOUNTED AT VARIOUS ELEVATIONS TO SENSE WATER
LEVEL IN SUMP. INSTRUMENT SIGNAL CURRENT IS A FUNCTION
OF THE NUMBER OF WETTED SENSORS.

Date : 03, 24/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : EMSN0001

Plant Spec Point Desc : PRI LOWER WIND SPEED AVG

Generic/Cond Desc : WIND SPEED AT 10M REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : MPH

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 50

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : MET TOWER AT 10 METERS

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR.

| | | |
|---|---|---|
| Date | : | 03/04/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | EMSN0008 |
| Plant Spec Point Desc | : | PRI UPPER WIND SPEED AVG |
| Generic/Cond Desc | : | WIND SPEED AT 60M REACTOR SITE |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | MPH |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 100 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | MET TOWER AT 60 METERS |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES ON THE QUARTER HOUR. |

Date : 03/04/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : LMSN0009

Plant Spec Point Desc : PRI UPPER WIND DIR AVG

Generic/Cond Desc : WIND DIR AT 60M REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : DEG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 540

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : MET TOWER AT 60 METERS

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR. WIND DIRECTION USES "FROM"
CONVENTION.

Date : 03/04/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : EMTN0004

Plant Spec Point Desc : PRI DELTA TEMP AVG

Generic/Cond Desc : AIR STABILITY AT REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : -6

Maximum Instr Range : +6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed :

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR. ONE TEMPERATURE SENSOR AT EACH
ELEVATION. THE 10 METER TEMPERATURE VALUE IS SUBTRACTED
FROM THE 60 METER TEMPERATURE VALUE IN THE MET COMPUTER.
THE RAW DELTA TEMPERATURE CALCULATION IS BASED UPON DEGF
PER 50 METER ELEVATION DIFFERENCE.

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 03/04/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : EMXN0002

Plant Spec Point Desc : PRI LOWER WIND DIR AVG

Generic/Cond Desc : WIND DIR AT 10M REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : DEG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 540

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : MET TOWER AT 10 METERS

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR. WIND DIRECTION USES "FROM"
CONVENTION.

| | | |
|---|---|---------------------------------|
| Date | : | 02/27/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | MN FD FL A |
| Point ID | : | FWFU0510 |
| Plant Spec Point Desc | : | FW TO SG 1A AVG FLOW |
| Generic/Cond Desc | : | STM GEN A MAIN FEEDWATER FLOW |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | MLB/HR |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 5 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | ERFDADS RSA |
| Sensor Locations | : | ON VENTURI JUST UPSTREAM OF FCV |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : MN FD FL B

Point ID : FWFU0520

Plant Spec Point Desc : FW TO SG 1B AVG FLOW

Generic/Cond Desc : STM GEN B MAIN FEEDWATER FLOW

Analog/Digital : A

Engr Units/Dig States : MLB/HR

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 5

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 3

How Processed : ERFDADS RSA

Sensor Locations : ON VENTURI JUST UPSTREAM OF FCV

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : MN 7 FL C
Point ID : FWFU0530
Plant Spec Point Desc : FW TO SG 1C AVG FLOW
Generic/Cond Desc : STM GEN C MAIN FEEDWATER FLOW
Analog/Digital : A
Engr Units/Dig States : MLB/HR
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 5
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 3
How Processed : ERFDADS RSA
Sensor Locations : ON VENTURI JUST UPSTREAM OF PCV
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

| | | |
|---|---|---------------------------------|
| Date | : | 02/27/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | MN FD FL D |
| Point ID | : | FWFU0540 |
| Plant Spec Point Desc | : | FW TO SG 1D AVG FLOW |
| Generic/Cond Desc | : | STM GEN D MAIN FEEDWATER FLOW |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | MLB/HR |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 5 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | ERFDADS RSA |
| Sensor Locations | : | ON VENTURI JUST UPSTREAM OF FCV |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG LEVEL A

Point ID : FWLE0501

Plant Spec Point Desc : SG 1A LEVEL W/R

Generic/Cond Desc : STEAM GENERATOR A WATER LEVEL

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference :

Reference Point Notes : 0 = NEAR TUBE SHEET (EMPTY)

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH LVL AT 90/LOW LVL AT 60 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : WET

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG LEVEL B

Point ID : FWLE0502

Plant Spec Point Desc : SG 1B LEVEL W/R

Generic/Cond Desc : STEAM GENERATOR B WATER LEVEL

Analog/Digital : A

Engr Units/Dig State : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference :

Reference Point Notes : 0 = NEAR TUBE SHEET (EMPTY)

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH LVL AT 90/LOW LVL AT 60 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Cor sation
For DP Transmi s : N

Level Reference Leg : WET

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG LEVEL C

Point ID : FWLE0503

Plant Spec Point Desc : SG 1C LEVEL W/R

Generic/Cond Desc : STEAM GENERATOR C WATER LEVEL

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference :

Reference Point Notes : 0 = NEAR TUBE SHEET (EMPTY)

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH LVL AT 90/LOW LVL AT 60 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : WET

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG LEVEL D

Point ID : FWLE0504

Plant Spec Point Desc : SG 1D LEVEL W/R

Generic/Cond Desc : STEAM GENERATOR D WATER LEVEL

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference :

Reference Point Notes : 0 = NEAR TUBE SHEET (EMPTY)

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH LVL AT 90/LOW LVL AT 60 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : WET

Unique System Desc :

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : FWLU0517
Plant Spec Point Desc : SG 1A AVG LEVEL N/R
Generic/Cond Desc : COMPENSATED SG LVL N/R SG A
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SEVS : P
Number of Sensors : 4
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : LO=33.0 / HI=87.5
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : Y
Level Reference Leg : WET
Unique System Desc :

| | | |
|---|---|-----------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | FWLU0527 |
| Plant Spec Point Desc | : | SG 1B AVG LEVEL N/R |
| Generic/Cond Desc | : | COMPENSATED SG LVL N/R SG B |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | PRCT |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 100 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 4 |
| How Processed | : | ERFDADS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | LO=33.0 / HI=87.5 |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | Y |
| Level Reference Leg | : | WET |
| Unique System Desc | : | |

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : FWLU0537
Plant Spec Point Desc : SG 1C AVG LEVEL N/R
Generic/Cond Desc : COMPENSATED SG LVL N/R SG C
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 4
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : LO=33.0 / HI=87.5
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument failure Mode :
Temperature Compensation
For DP Transmitters : Y
Level Reference Leg : WET
Unique System Desc :

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : FWLU0547
Plant Spec Point Desc : SG 1D AVG LEVEL N/R
Generic/Cond Desc : COMPENSATED SG LVL N/R SG D
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 4
How Processed : ERFDAOS RSA
Sensor Locations :
Alarm/Trip Set Points : LO=33.0 / HI=87.5
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : Y
Level Reference Leg : WET
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : HCPU0934
Plant Spec Point Desc : CNTMT PRESS SER RNG
Generic/Cond Desc : CONTAINMENT PRESSURE NARROW RNG
Analog/Digital : A
Engr Units/Dig States : PSIG
Engr Units Conversion : N/A
Minimum Instr Range : -5.0
Maximum Instr Range : 65.0
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 4
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : HI=22.0
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : CTMNT PRESS
Point ID : HCPU9759
Plant Spec Point Desc : CNTMT AVG PRESS
Generic/Cond Desc : CONTAINMENT PRESSURE
Analog/Digital : A
Engr Units/Dig States : PSIG
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 180
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 2
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : HIGH PRESS AT 30/LOW PRESS AT 0.1 PSIG
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : CTMNT TEMP
Point ID : HCTU9661
Plant Spec Point Desc : RCFC AVG INL AIR TEMP
Generic/Cond Desc : CONTAINMENT TEMPERATURE
Analog/Digital : A
Engr Units/Dig States : DEGF
Engr Units Conversion : N/A
Minimum Instr Range : 50
Maximum Instr Range : 200
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 3
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 03/05/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : HMFA9308

Plant Spec Point Desc : PLANT EXH DUCT FLOW

Generic/Cond Desc : FLOW OF RELEASED GASSES

Analog/Digital : A

Engr Units/Dig States : CFM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 290,000

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc : THIS POINT IS NEEDED BY ERDS TO ARRIVE AT A RELEASE RATE
SINCE RARU8010J IS A CONCENTRATION (IS A DISCRETE POINT).

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC EKDS Parameter : NOT LISTED
Point ID : IILU0001
Plant Spec Point Desc : RVWL PLENUM AVG LVL
Generic/Cond Desc : REACTOR VESSEL PLENUM WATER LVL
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : TUCP
Reference Point Notes : 0 = TOP OF UPPER CORE PLATE (TUCP)
PROC or SENS : P
Number of Sensors : 2
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : LOW LEVEL AT 20 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : IILU0001A

Plant Spec Point Desc : RVWL UPPER HEAD AVE LVL

Generic/Cond Desc : REACTOR VESSEL HEAD WATER LEVEL

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference : TUSP

Reference Point Notes : 0 = TOP OF UPPER SUPPORT PLATE

PROC or SENS : P

Number of Sensors : 2

How Processed : ERFDADS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH LVL AT 100.2/LOW LVL AT 99.1 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : TEMP CORE EX
Point ID : IITU0001
Plant Spec Point Desc : RX CORE MAX QUAD T/C AVE
Generic/Cond Desc : HIGHEST TEMP AT THE CORE EXIT
Analog/Digital : A
Engr Units/Dig States : DEGF
Engr Units Conversion : N/A
Minimum Instr Range : 100
Maximum Instr Range : 2200
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 50
How Processed : ERFDADS AUCTIONEERED HIGH MAX TEMP
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 03/04/92

Reactor Unit : ST1

Data Feeder : 1

NPC ERDS Parameter : SUB MARGIN

Point ID : IITU0001A

Plant Spec Point Desc : RCS SUBCOOLING TEMP

Generic/Cond Desc : SATURATION TEMP-HIGHEST CET

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : -200

Maximum Instr Range : 50

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : USE AVG RCS PRESS & MAX C.E.T. QUAD TEMP

Sensor Locations :

Alarm/Trip Set Points : HIGH TEMP AT 49.9 / LOW AT -200.0 DEGF

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : COMPUTED IN ERFDADS USING AVG RCS PRESS AND MAX C.E.T.
QUAD TEMP. -DEG = SUBCOOLED, +DEG = SUPERHEAT.

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG PRESS \

Point ID : MSPU0514

Plant Spec Point Desc : STM LINE AVG PRESS SG 1A

Generic/Cond Desc : STEAM GENERATOR A PRESSURE

Analog/Digital : A

Engr Units/Dig States : PSIG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 1400

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 4

How Processed : ERFDADS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH PRESS AT 1400/LOW AT 100 PSIG

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG PRESS B

Point ID : MSPU0524

Plant Spec Point Desc : STM LINE AVG PRESS SG 1B

Generic/Cond Desc : STEAM GENERATOR B PRESSURE

Analog/Digital : A

Engr Units/Dig States : PSIG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 1400

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 4

How Processed : ERFDADS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH PRESS AT 1400/LOW AT 100 PSIG

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG PRESS C

Point ID : MSPU0534

Plant Spec Point Desc : STM LINE AVG PRESS SG 1C

Generic/Cond Desc : STEAM GENERATOR C PRESSURE

Analog/Digital : A

Engr Units/Dig States : PSIG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 1400

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 4

How Processed : ERFDADS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH PRESS AT 1400/LOW AT 100 PSIG

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : SG PRESS D
Point ID : MSPU0544
Plant Spec Point Desc : STM LINE AVG PRESS SG 1D
Generic/Cond Desc : STEAM GENERATOR D PRESSURE
Analog/Digital : A
Engr Units/Dig States : PSIG
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 1400
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 4
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : HIGH PRESS AT 1400/LOW AT 100 PSIG
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Log : N/A
Unique System Desc :

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NI SOURC RNG
Point ID : NINU0031K
Plant Spec Point Desc : NUTRN FLX SR
Generic/Cond Desc : NUCLEAR INSTRUMENTS, SOURCE RANGE
Analog/Digital : A
Engr Units/Dig States : CPS
Engr Units Conversion : N/A
Minimum Instr Range : 1E0
Maximum Instr Range : 1E6
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 2
How Processed : ERFDADS AVERAGE WITH QUALITY CHECK
Sensor Locations :
Alarm/Trip Set Points : HIGH AT 1E+5 CPS
NI Detector Power Supply
Cut-off Power Level : 1E-10 AMPS
NI Detector Power Supply
Turn-on Power Level : 1E-10 AMPS
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NI INTER RNG

Point ID : NINU003SK

Plant Spec Point Desc : NUTRN FLX IR

Generic/Cond Desc : NUCLEAR INSTRUMENTS, INTER RANGE

Analog/Digital : A

Engr Units/Dig States : AMP

Engr Units Conversion : N/A

Minimum Instr Range : 1E-11

Maximum Instr Range : 1E-3

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : ERFDADS AVERAGE WITH QUALITY CHECK

Sensor Locations :

Alarm/Trip Set Points : HIGH AT 7.99 E-5 AMP

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NI POWER RNG

Point ID : NINU0045

Plant Spec Point Desc : AVG NUTRN FLX UPPR RNG

Generic/Cond Desc : NUCLEAR INSTRUMENTS, POWER RANGE

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 1E-8

Maximum Instr Range : 200

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : ERFDADS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH AT 5 PRCT/LOW AT 100

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : NINU0045A
Plant Spec Point Desc : AVG NUTRN FLX LOWR RNG
Generic/Cond Desc : NI E/R NUC FLUX LOWER RANGE
Analog/Digital : A
Engr Units/Dig States : CPS
Engr Units Conversion : N/A
Minimum Instr Range : 1E-1
Maximum Instr Range : 1E+5
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 2
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : LO=.11 / HI=90,000
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : NINU0045B
Plant Spec Point Desc : NIS AVG NUTRN FLX SUR
Generic/Cond Desc : NI E/R NUC FLUX STARTUP RATE
Analog/Digital : A
Engr Units/Dig States : DPM
Engr Units Conversion : N/A
Minimum Instr Range : -1.0
Maximum Instr Range : 7.0
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 2
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : LO=-.499 / HI=1.9
NI Detector Power Supply
Cut-off Power Level : 1E-10 AMPS
NI Detector Power Supply
Turn-on Power Level : 1E-10 AMPS
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG BD RAD A

Point ID : RARE8022

Plant Spec Point Desc : SG 1A BLWDN RAD TRN C

Generic/Cond Desc : STM GEN A BLOWDOWN RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-4

Maximum Instr Range : 1E+4

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 4.3E-3 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : SG BD RAD B
Point ID : RARE802J
Plant Spec Point Desc : SG 1B BLWDN RAD TRN A
Generic/Cond Desc : STM GEN B BLOWDOWN RAD LEVEL
Analog/Digital : A
Engr Units/Dig States : UCI/CC
Engr Units Conversion : N/A
Minimum Instr Range : 1E-4
Maximum Instr Range : 1E+4
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : HIGH RAD AT 4.3E-3 UCI/CC
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : SG BD RAD C

Point ID : RARE8024

Plant Spec Point Desc : SG 1C BLWDN RAD TRN C

Generic/Cond Desc : STM GEN C BLOWDOWN RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-4

Maximum Instr Range : 1E+4

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 4.3E-3 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : SG BD RAD D
Point ID : RARE8025
Plant Spec Point Desc : SG 1D BLWDN RAD TRN A
Generic/Cond Desc : STM GEN D BLOWDOWN RAD LEVEL
Analog/Digital : A
Engr Units/Dig States : UCI/CC
Engr Units Conversion : N/A
Minimum Instr Range : 1E-4
Maximum Instr Range : 1E+4
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : HIGH RAD AT 4.3E-3 UCI/CC
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : MAIN SL A

Point ID : RARE8046

Plant Spec Point Desc : MS LINE A RAD TRN A

Generic/Cond Desc : STM GEN A STEAM LINE RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-2

Maximum Instr Range : 1E+6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 0.23 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : MAIN SL B

Point ID : RARE8047

Plant Spec Point Desc : MS LINE B RAD TRN C

Generic/Cond Desc : STM GEN B STEAM LINE RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-2

Maximum Instr Range : 1E+6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 0.23 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : MAIN SL C

Point ID : RARE8043

Plant Spec Point Desc : MS LINE C RAD TRN A

Generic/Cond Desc : STM GEN C STEAM LINE RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-2

Maximum Instr Range : 1E+6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 0.23 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : MAIN SL D

Point ID : RARE8049

Plant Spec Point Desc : MS LINE D RAD TRN C

Generic/Cond Desc : STM GEN D STEAM LINE RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-2

Maximum Instr Range : 1E+6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 0.23 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : EFF LIQ RAD
Point ID : RARM8038
Plant Spec Point Desc : LWPS MONITOR #1
Generic/Cond Desc : RADIOACTIVITY OF RELEASED LIQUID
Analog/Digital : A
Engr Units/Dig States : UCI/CC
Engr Units Conversion : N/A
Minimum Instr Range : 1E-8
Maximum Instr Range : 1E-2
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : HIGH RAD AT 8.4000E-06 UCI/CC
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

| | | |
|---|---|--|
| Date | : | 02/27/92 |
| Reactor Unit | : | 9T1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | EFF GAS RAD |
| Point ID | : | KARU8010J |
| Plant Spec Point Desc | : | UNIT VENT NOBLE GAS |
| Generic/Cond Desc | : | RADIOACTIVITY OF RELEASED GASSES |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | UCI/CC |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 1E-7 |
| Maximum Instr Range | : | 1E+5 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | ERFDACS MAXIMUM OF GOOD QUALITY INPUTS |
| Sensor Locations | : | |
| Alarm/Trip Set Poi | : | HIGH RAD AT 4.0000-04 UCI/CC |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Lev | : | N/A |
| Unique System Desc | : | |

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : COND A/E RAD

Point ID : RARU8027J

Plant Spec Point Desc : CVP RADIATION

Generic/Cond Desc : CONDENSER AIR EJECTOR RAD

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-7

Maximum Instr Range : 1E+5

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 3

How Processed : ERFDATA'S MAXIMUM OF GOOD QUALITY INPUTS

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 6.4000E-04 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

| | | |
|---|---|---|
| Date | : | 02/27/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | CNTMNT RAD |
| Point ID | : | RARUB000 |
| Plant Spec Point Desc | : | RSA CNTMT HI RNG RAD |
| Generic/Cond Desc | : | RADIATION LVL IN THE CONTAINMENT |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | R/HR |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 1E0 |
| Maximum Instr Range | : | 1E8 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 2 |
| How Processed | : | ERFDADS RSA |
| Sensor Location | : | 6 FEET ABOVE OPERATING DECK |
| Alarm/Trip Set Points | : | HIGH RAD AT 2000/LOW AT -5.000E-03 R/HR |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : RCFU0417
Plant Spec Point Desc : RCS AVG FLOW LOOP 1
Generic/Cond Desc : REACTOR COOLANT FLOW LOOP A
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 120
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 3
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : LOW FLOW AT 90 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

| | | |
|---|---|-----------------------------|
| Date | : | 02/27/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | RCFU0427 |
| Plant Spec Point Desc | : | RCS AVG FLOW LOOP 2 |
| Generic/Cond Desc | : | REACTOR COOLANT FLOW LOOP B |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | PRCT |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 120 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | LRFDADS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | LOW FLOW AT 90 PRCT |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

| | | |
|---|---|-----------------------------|
| Date | : | 02/27/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | RCFU0437 |
| Plant Spec Point Desc | : | RCS AVG FLOW LOOP 3 |
| Generic/Cond Desc | : | REACTOR COOLANT FLOW LOOP C |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | PRCT |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 120 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | ERFDADS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | LOW FLOW AT 90 PRCT |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

| | | |
|---|---|-----------------------------|
| Date | : | 02/27/92 |
| Reactor Unit | : | ST1 |
| Data Feed: | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | RCFU0447 |
| Plant Spec Point Desc | : | RCS AVG FLOW LOOP 4 |
| Generic/Cond Desc | : | REACTOR COOLANT FLOW LOOP B |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | PRCT |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 120 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | ERFDADS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | LOW FLOW AT 90 PRCT |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NKC ERDS Parameter : PRZR LEVEL
Point ID : RCLU0465
Plant Spec Point Desc : PRZR AVG LVL
Generic/Cond Desc : PRIMARY SYSTEM PRESSURIZER LVL
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : N/A
Reference Point Notes : 0 = 7" ABOVE BOTTOM HEAD WELD
PROC or SENS : P
Number of Sensors : 4
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : HIGH LVL AT 80/LOW LVL AT 20 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : WET
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

| | | |
|---|---|------------------------------------|
| Date | : | 02/27/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | RCS PRESSURE |
| Point ID | : | RCPU0405 |
| Plant Spec Point Desc | : | RCS AVG PRESS |
| Generic/Cond Desc | : | REACTOR COOLANT SYSTEM PRESSURE |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | PSIG |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 3000 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | ERFDADS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | HIGH PRESS AT 2500/LOW AT 0.1 PSIG |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : HL TEMP A

Point ID : RCTE0413

Plant Spec Point Desc : RCS TEMP TH LP 1 W/R

Generic/Cond Desc : STM GEN A INLET TEMPERATURE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH TEMP AT 650/LOW TEMP AT 400 DEGF

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : CL TEMP A
Point ID : RCTE0414
Plant Spec Point Desc : RCS TEMP TC LP 1 W/R
Generic/Cond Desc : STM GEN A OUTLET TEMPERATURE
Analog/Digital : A
Engr Units/Dig States : DEGF
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 700
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : HIGH TEMP AT 650/LOW TEMP AT 400 DEGF
NI Detector Power Supply
Cut-off Power Level : N/A
NJ Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : HL TEMP B

Point ID : RCTE0423

Plant Spec Point Desc : RCS TEMP TH LP 2 W/R

Generic/Cond Desc : STM GEN B INLET TEMPERATURE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH TEMP AT 650/LOW TEMP AT 400 DEGF

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : CL TEMP B

Point ID : RCTE0424

Plant Spec Point Desc : RCS TEMP TC LP 2 W/R

Generic/Cond Desc : STM GEN B OUTLET TEMPERATURE

Analog/Digital : A

Engr Units/Dig States : DECF

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH TEMP AT 650/LOW TEMP AT 400 DEGF

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : HL TEMP C
Inst ID : RCTE0433
Plant Desc Point Desc : RCS TEMP TH LP 3 W/R
Generic/Cond Desc : STM GEN C INLET TEMPERATURE
Analog/Digital : A
Engr Units/Dig States : DEGF
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 700
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : HIGH TEMP AT 650/LOW TEMP AT 400 DEGF
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : CL TEMP C

Point ID : RCTE0434

Plant Spec Point Desc : RCS TEMP TC LP 3 W/R

Generic/Cond Desc : STM GEN C OUTLET TEMPERATURE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH TEMP AT 650/LOW TEMP AT 400 DEGF

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : HL TEMP D

Point ID : RCTE0443

Plant Spec Point Desc : RCS TEMP TH LP 4 W/R

Generic/Cond Desc : STM GEN D INLET TEMPERATURE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH TEMP AT 650/LOW TEMP AT 400 DEGF

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : CL TEMP D

Point ID : RCTE0444

Plant Spec Point Desc : RCS TEMP TC LP 4 W/R

Generic/Cond Desc : STM GEN D OUTLET TEMPERATURE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH TEMP AT 650/LOW TEMP AT 400 DEGF

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : SIFA0851

Plant Spec Point Desc : RHR/SI TC INJ FLOW TRN A

Generic/Cond Desc : LOW PRESS SAFETY INJ FLOW TRN A

Analog/Digital : A

Engr Units/Dig States : GPM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 5000

Zero Point Reference : N/A

Reference Point Notes : N/A

PRCC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : UPSTREAM OF SPLIT TO HOT/COLD PATHS

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : SIFA0852
Plant Spec Point Desc : RHR/SI TC INJ FLOW TRN B
Generic/Cond Desc : LOW PRESS SAFETY INJ FLOW TRN B
Analog/Digital : A
Engr Units/Dig States : GPM
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 5000
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations : UPSTREAM OF SPLIT TO HOT/COLD PATHS
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : N/A
Unique System Desc :

| | | |
|---|---|-------------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST1 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | SIFA0853 |
| Plant Spec Point Desc | : | PHR/SI TC INJ FLOW TRN C |
| Generic/Cond Desc | : | LOW PRESS SAFETY INJ FLOW TRN C |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 5000 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | UPSTREAM OF SPLIT TO HOT/COLD PATHS |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : SIFA0901
Plant Spec Point Desc : HHSI PMP 1A TC INJ FLOW
Generic/Cond Desc : HIGH PRESS SAFETY INJ FLOW TRN A
Analog/Digital : A
Engr Units/Dig States : GPM
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 2000
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92
Reactor Unit : ST1
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : SIFA0902
Plant Spec Point Desc : HHSI PMP 1B TC INJ FLOW
Generic/Cond Desc : HIGH PRESS SAFETY INJ FLOW TRN B
Analog/Digital : A
Engr Units/Dig States : GPM
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 2000
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : SIFA0903

Plant Spec Point Desc : HHSI PMP 1C TC INJ FLOW

Generic/Cond Desc : HIGH PRESS SAFETY INJ FLOW TRN C

Analog/Digital : A

Engr Units/Dig States : GPM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 2000

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : BWST LEVEL

Point ID : SILU0931A

Plant Spec Point Desc : RWST LEVEL

Generic/Cond Desc : BORATED WATER STORAGE TANK LEVEL

Analog/Digital : A

Engr Units/Dig States : KGAL

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 550

Zero Point Reference : LO TAP

Reference Point Notes : 0=LWR.INST.TAP(16.24KGAL UNUSABLE BELOW)

PROC or SENS : P

Number of Sensors : 3

How Processed : ERFDADS RSA

Sensor Locations :

Alarm/Trip Set Points : LO= 15.9

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : DRY

Unique System Desc : INDICATES RWST LEVEL IN KGAL ABOVE LOWER INSTRUMENT TAP.
LOWER INSTRUMENT TAP IS ZERO REFERENCE. HOWEVER, THERE
IS AN UNUSABLE VOLUME CONTAINED BELOW THIS TAP AS
MEASURED FROM THE BOTTOM OF THE TANK THAT IS NOT
INDICATED.

SOUTH TEXAS PROJECT - UNIT 1
DATA POINT LIBRARY REFERENCE FILE

Date : 02/27/92

Reactor Unit : ST1

Data Feeder : 1

NRC ERDS Parameter : CTMNT SMP WR

Point ID : SILU3925

Plant Spec Point Desc : CNTMT WTR LVL AUCT HI

Generic/Cond Desc : CONTAINMENT SUMP WIDE RANGE LVL

Analog/Digital : A

Engr Units/Dig States : INCH

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 87

Zero Point Reference : N/A

Reference Point Notes : 0 = 12" ABOVE FLOOR OF CONTAINMENT

PROC or SENS : P

Number of Sensors : 3

How Processed : ERFDADS AUCTIONEER HIGH

Sensor Locations :

Alarm/Trip Set Points : HIGH LEVEL AT 20 INCHES

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

STP ERDS DPL FOR DATA FEEDER ST 2

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : AX FD FL C

Point ID : AFPE7523

Plant Spec Poin+ Desc : AFW FLOW TO SG 2C

Generic/Cond Desc : STM GEN C AUXILIARY FW FLOW

Analog/Digital : A

Engr Units/Dig States : GPM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : ISOL.VLV.CUBCLE.ON VENTURI UPSTRM OF FCV

Alarm/Trip Set Points : HIGH FLOW AT 690 GPM

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc : THERE ARE THREE MOTOR-DRIVEN AND ONE STEAM DRIVEN AFW PUMPS RATED AT 600 GPM EACH. EACH PUMP IS NORMALLY LINED UP TO SUPPLY ONE STEAM GENERATOR BUT EACH PUMP IS CAPABLE OF SUPPLYING WATER TO ALL FOUR SGs. THE THREE MOTOR DRIVEN ARE POWERED FROM SEPARATE ESF BUSES. EACH BUSS HAS A DIESEL GENERATOR AS A BACKUP SOURCE. THE TURBINE DRIVEN PUMP GETS STEAM SUPPLY FROM SGD ONLY. QDPS AUTOMATICALLY RESTRICTS MIN FLOW TO 550 GPM AND MAX FLOW TO 675 GPM BY A FCV DOWNSTREAM OF THE AFW PUMP DISCHARGE.

| | | |
|---|---|--|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | AX FD FL B |
| Point ID | : | APFE7524 |
| Plant Spec Point Desc | : | AFW FLOW TO SG 2B |
| Generic/Cond Desc | : | STM GEN B AUXILIARY FW FLOW |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 700 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | ISOL.VLV.CUBCLE.ON VENTURI UPSTRM OF FCV |
| Alarm/Trip Set Points | : | HIGH FLOW AT 690 GPM |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : AX FD FL A
Point ID : APFE7525
Plant Spec Point Desc : AFW FLOW TO SG 2A
Generic/Cond Desc : STM GEN A AUXILIARY FW FLOW
Analog/Digital : A
Engr Units/Dig States : GPM
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 700
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations : ISOL VLV.CUBCLE.ON VENTURI UPSTRM OF FCV
Alarm/Trip Set Points : HIGH FLOW AT 690 GPM
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : AX FD FL D

Point ID : AFFE7526

Plant Spec Point Desc : AFW FLOW TO SG 2D

Generic/Cond Desc : STM GEN D AUXILIARY FW FLOW

Analog/Digital : A

Engr Units/Dig States : GPM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : ISOL.VLV.CUBCLE.ON VENTURI UPSTRM OF FCV

Alarm/Trip Set Points : HIGH FLOW AT 690 GPM

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : H2 CONC

Point ID : CMAQ4102

Plant Spec Point Desc : CNTMT H2 CONC

Generic/Cond Desc : CNTMT HYDROGEN CONCENTRATION

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 10

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH CONCENTRATION AT 6 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : CTLQ7716

Plant Spec Point Desc : AFWST LVL

Generic/Cond Desc : AUX.FEEDWATER STORAGE TANK LEVEL

Analog/Digital : A

Engr Units/Dig States : KGAL

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 535

Zero Point Reference : BOT

Reference Point Notes : 0 = BOTTOM OF TANK

PROC or SENS : P

Number of Sensors : 3

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : LO= 55.5

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : DRY

Unique System Desc : INDICATES AFWST LEVEL IN KGAL OF CONTAINED VOLUME FROM
THE BOTTOM OF THE TANK.

| | | |
|---|---|--|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | RCS CHG/MU |
| Point ID | : | CVFE0205 |
| Plant Spec Point Desc | : | CHARGING FLOW |
| Generic/Cond Desc | : | PRIM SYS CHARGING OR MAKEUP FLOW |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 500 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | PUMP DISCHARGE, COMBINED CHARGING HEADER |
| Alarm/Trip Set Points | : | HIGH FLOW AT 300 GPM/LOW FLOW AT 50 GPM |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : CTMNT SMP NR

Point ID : EDLE7839

Plant Spec Point Desc : CNTMT NORMAL SUMP LVL

Generic/Cond Desc : CNTMT SUMP NARROW RANGE LEVEL

Analog/Digital : A

Engr Units/Dig States : INCH

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 78

Zero Point Reference : EL-207

Reference Point Notes : 0 EXTENDS FROM SUMP BOTTOM TO 12" SENSOR

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : IN 6'X 6'X 6' CNTMT NORMAL SUMP

Alarm/Trip Set Points : HIGH LEVEL AT 60 INCHES

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : WATER LEVEL IN THE CONTAINMENT NORMAL SUMP (6'X 6'X 6')
WILL BE DISPLAYED AS HEIGHT IN INCHES WITH RESPECT TO
SUMP BOTTOM, ELEVATION (-207 INCHES). THE DISPLAY RANGE
IS 0 TO 78 INCHES TO MEASURE LEVEL DURING NORMAL
OPERATION. TWELVE SENSOR HEADS ARE MOUNTED AT VARIOUS
ELEVATIONS TO SENSE WATER LEVEL IN THE SUMP. INSTRUMENT
SIGNAL CURRENT IS A FUNCTION OF THE NUMBER OF WETTED
SENSORS.

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : EMSN0001

Plant Spec Point Desc : PRI LOWER WIND SPEED AVG

Generic/Cond Desc : WIND SPEED AT 10M REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : MPH

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 50

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : MET TOWER AT 10 METERS

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR.

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : EMSN0008

Plant Spec Point Desc : PRI UPPER WIND SPEED AVC

Generic/Cond Desc : WIND SPEED AT 60M REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : MPH

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : MET TOWER AT 60 METERS

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR.

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

WRC ERDS Parameter : NOT LISTED

Point ID : EMSN0009

Plant Spec Point Desc : PRI UPPER WIND DIR AVG

Generic/Cond Desc : WIND DIR AT 60M REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : DEG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 540

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : MET TOWER AT 60 METERS

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR. WIND DIRECTION USES "FROM"
CONVENTION.

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : EMTN0004

Plant Spec Point Desc : PRI DELTA TEMP AVG

Generic/Cond Desc : AIR STABILITY AT REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : -6

Maximum Instr Range : +6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed :

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. LRFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR. ONE TEMPERATURE SENSOR AT EACH
ELEVATION. THE 10 METER TEMPERATURE VALUE IS SUBTRACTED
FROM THE 60 METER TEMPERATURE VALUE IN THE MET COMPUTER.
THE RAW DELTA TEMPERATURE CALCULATION IS BASED UPON DEGF
PER 50 METER ELEVATION DIFFERENCE.

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : EMXN0002

Plant Spec Point Desc : PRI LOWER WIND DIR AVG

Generic/Cond Desc : WIND DIR AT 10M REACTOR SITE

Analog/Digital : A

Engr Units/Dig States : DEG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 540

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations : MET TOWER AT 10 METERS

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : USES 15 MINUTE AVERAGES. ERFDADS UPDATES EVERY 15 MINUTES
ON THE QUARTER HOUR. WIND DIRECTION USES "FROM"
CONVENTION.

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : MN FD FL A
Point ID : FWFQ0510
Plant Spec Point Desc : SG 2A FW FLOW
Generic/Cond Desc : STM GEN A MAIN FEEDWATER FLOW
Analog/Digital : A
Engr Units/Dig States : MLB/HR
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 5
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 3
How Processed : QDPS RSA
Sensor Locations : ON VENTURI JUST UPSTREAM OF FCV
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : MN FD FL B

Point ID : FWFQ0520

Plant Spec Point Desc : SG 2B FW FLOW

Generic/Cond Desc : STM GEN B MAIN FEEDWATER FLOW

Analog/Digital : A

Engr Units/Dig States : MLB/HR

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 5

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 3

How Processed : QDPS RSA

Sensor Locations : ON VENTURI JUST UPSTREAM OF PCV

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : MN FD FL C

Point ID : FWFQ0530

Plant Spec Point Desc : SG 2C FW FLOW

Generic/Cond Desc : STM GEN C MAIN FEEDWATER FLOW

Analog/Digital : A

Engr Units/Dig States : MLB/HR

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 5

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 3

How Processed : QDPS RSA

Sensor Locations : ON VENTURI JUST UPSTREAM OF FCV

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc :

| | | |
|---|---|---------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | MN FD FL D |
| Point ID | : | FWFQ0540 |
| Plant Spec Point Desc | : | SG 2D FW FLOW |
| Generic/Cond Desc | : | STM GEN D MAIN FEEDWATER FLOW |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | MLB/HR |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 5 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | QDPS RSA |
| Sensor Locations | : | ON VENTURI JUST UPSTREAM OF FCV |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : SG LEVEL A
Point ID : FWLE0501
Plant Spec Point Desc : SG 2A LEVEL W/R
Generic/Cond Desc : STEAM GENERATOR A WATER LEVEL
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference :
Reference Point Notes : 0 = NEAR TUBE SHEET (EMPTY)
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : LOW LEVEL AT 9 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : WET
Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : SG LEVEL B
Point ID : FWLE0502
Plant Spec Point Desc : SG 2B LEVEL W/R
Generic/Cond Desc : STEAM GENERATOR B WATER LEVEL
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference :
Reference Point Notes : 0 = NEAR TUBE SHEET (EMPTY)
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : LOW LEVEL AT 9 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : WET
Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : SG LEVEL C

Point ID : FWLE0503

Plant Spec Point Desc : SG 2C LEVEL W/R

Generic/Cond Desc : STEAM GENERATOR C WATER LEVEL

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference :

Reference Point Notes : 0 = NEAR TUBE SHEET (EMPTY)

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : LOW LEVEL AT 9 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : WET

Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC FRDS Parameter : SG LEVEL D
Point ID : FWLE0504
Plant Spec Point Desc : SG 2D LEVEL W/R
Generic/Cond Desc : STEAM GENERATOR D WATER LEVEL
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference :
Reference Point Notes : 0 = NEAR TUBE SHEET (EMPTY)
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : LOW LEVEL AT 9 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : WET
Uniqu- System Desc :

Date : 02/28/92
Reactor Unit : ET4
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : FWLQ0517
Plant Spec Point Desc : SG 2A LVL N/R (CMP)
Generic/Cond Desc : COMPENSATED SG LVL N/A SG A
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : C
Maximum Instr Range : 100
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 4
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : LO=33.0 / HI=87.5
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : Y
Level Reference Leg : WET
Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : FWLQ0527
Plant Spec Point Desc : SG 2B LVL N/R (CMP)
Generic/Cond Desc : COMPENSATED SG LVL N/R SG B
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 4
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : LO=33.0 / HI=87.5
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : Y
Level Reference Leg : WET
Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : FWLQ0537

Plant Spec Point Desc : SG 2C LVL N/R (CMP)

Generic/Cond Desc : COMPENSATED SG LVL N/R SG C

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 4

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : LO=33.0 / HI=87.5

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : Y

Level Reference Leg : WET

Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : FWLQ0547
Plant Spec Point Desc : SG 2D LVL N/R (CMP,
Generic/Cond Desc : COMPENSATED SG LVL N/R SG D
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 4
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : LO=33.0 / HI=87.5
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : Y
Level Reference Leg : WET
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : HCPQ0934

Plant Spec Point Desc : CNTMT PRESS

Generic/Cond Desc : CONTAINMENT PRESSURE NARROW RNG

Analog/Digital : A

Engr Units/Dig States : PSIG

Engr Units Conversion : N/A

Minimum Instr Range : -5.0

Maximum Instr Range : 65.0

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 4

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : HI= 3.50

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : CTMNT PRESS
Point ID : HCPQ9759
Plant Spec Point Desc : CNTMT PRESS EXTD RNG
Generic/Cond Desc : CONTAINMENT PRESSURE
Analog/Digital : A
Engr Units/Dig States : PSIG
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 180
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 2
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : CTMNT TEMP
Point ID : HCTU9661
Plant Spec Point Desc : RCFC AVG INL AIR TEMP
Generic/Cond Desc : CONTAINMENT TEMPERATURE
Analog/Digital : A
Engr Units/Dig States : DEGF
Engr Units Conversion : N/A
Minimum Instr Range : 50
Maximum Instr Range : 200
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 3
How Processed : ERFDADS RSA
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : HMFA9308

Plant Spec Point Desc : PLANT EXH DUCT FLOW

Generic/Cond Desc : FLOW OF RELEASED GASSES

Analog/Digital : A

Engr Units/Dig States : CFM

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 290,000

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : N/A

Unique System Desc : THIS POINT IS NEEDED BY ERDS TO ARRIVE AT A RELEASE RATE
SINCE R4F08010J IS A CONCENTRATION (IS A DISCRETE POINT).

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : IILQ0001

Plant Spec Point Desc : RVWL PLENUM

Generic/Cond Desc : REACTOR VESSEL PLENUM WATER LVL

Analog/Digital : A

Engr Units/Dig States : PRCT

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 100

Zero Point Reference : TUCP

Reference Point Notes : 0=TOP OF UPPER CORE PLATE (TUC)

PROC or SENS : P

Number of Sensors : 2

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : LOW LEVEL AT 93 PRCT

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : INDICATES PLENUM WATER LEVEL ONLY. SIX SENSORS IN EACH
OF TWO REDUNDANT SENSOR PROBES. SENSORS ARE HEATED
JUNCTION THERMOCOUPLE TYPE.

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : IILQ0001A
Plant Spec Point Desc : RVWL UPPER HEAD
Generic/Cond Desc : REACTOR VESSEL HEAD WATER LEVEL
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : TUSP
Reference Point Notes : 0= TOP OF UPPER SUPPORT PLATE (TUSP)
PROC or SENS : P
Number of Sensors : 3
How Processed : QDPS RSA
Sensor Locations : #1 IS 107.75" & #2 IS 37.25" ABOVE TUSP
Alarm/Trip Set Points : LOW LEVEL AT 83 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc : INDICATES UPPER HEAD LEVEL ONLY. TWO SENSORS IN EACH OF
TWO REDUNDANT SENSOR PROBES. SENSORS ARE HEATED JUNCTION
THERMOCOUPLE TYPE.

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : SUB MARGIN

Point ID : IITQ0001A

Plant Spec Point Desc : RCS SUBCOOLING

Generic/Cond Desc : SATURATION TEMP-HIGHEST CET

Analog/Digital : A

Engr Units/Dig States : DECF

Engr Units Conversion : N/A

Minimum Instr Range : -200

Maximum Instr Range : 50

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : USE AVG RCS PRESS & MAX C.E.T. QUAD TEMP

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc : COMPUTED USING CORE EXIT MAX QUAD T/C AND RCS PRESS. IN
QDPS.

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : TEMP CORE EX

Point ID : IIIQ0001B

Plant Spec Point Desc : MAX QUAD T/C AVG

Generic/Cond Desc : HIGHEST TEMP AT THE CORE EXIT

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : 100

Maximum Instr Range : 2200

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 50

How Processed : QDPS AUCTIONEERED HIGH TEMP

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For TP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : SG PRESS A

Point ID : MSPQ0514

Plant Spec Point Desc : SG 2A PRESS

Generic/Cond Desc : STEAM GENERATOR A PRESSURE

Analog/Digital : A

Engr Units/Dig States : PSIG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 1400

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 4

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH PRESS AT 1325/LOW AT 735 PSIG

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : SG PRESS B

Point ID : MSPQ0524

Plant Spec Point Desc : SG 2B PRESS

Generic/Cond Desc : STEAM GENERATOR B PRESSURE

Analog/Digital : A

Engr Units/Dig States : PSIG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 1400

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 4

How Processed : WDPS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH PRESS AT 1325/LOW AT 735 PSIG

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : SG PRESS C

Point ID : MSPQ0534

Plant Spec Point Desc : SG 2C PRESS

Generic/Cond Desc : STEAM GENERATOR C PRESSURE

Analog/Digital : A

Engr Units/Dig States : PSIG

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 1400

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 4

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : HIGH PRESS AT 1325/LOW AT 735 PSIG

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

| | | |
|---|---|------------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC FRDS Parameter | : | SG PRESS D |
| Point ID | : | MSPQ0544 |
| Plant Spec Point Desc | : | SG 2D PRESS |
| Generic/Cond Desc | : | STEAM GENERATOR D PRESSURE |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | PSIG |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 1400 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 4 |
| How Processed | : | QDPS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | HIGH PRESS AT 1325/LOW AT 735 PSIG |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

| | | |
|---|---|----------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NI POWER RNG |
| Point ID | : | NINQ0045 |
| Plant Spec Point Desc | : | NUTRN FLX E/R UPR |
| Generic/Cond Desc | : | NUCLEAR INSTRUMENTS, POWER RANGE |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | TRCT |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 1E-8 |
| Maximum Instr Range | : | 200 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 2 |
| How Processed | : | QDPS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Lag | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NOT LISTED

Point ID : NINQ0045A

Plant Spec Point Desc : NUTRN FLUX E/R LOWER

Generic/Cond Desc : NI E/R NUC FLX LOWER RANGE

Analog/Digital : A

Engr Units/Dig States : CPS

Engr Units Conversion : N/A

Minimum Instr Range : 1E-1

Maximum Instr Range : 1E+5

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 03/05/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : NINQ0045B
Plant Spec Point Desc : NUTRN FLUX E/R SUR
Generic/Cond Desc : NI E/R NUC FLUX STARTUP RATE
Analog/Digital : A
Engr Units/Dig States : DPM
Engr Units Conversion : N/A
Minimum Instr Range : -1.0
Maximum Instr Range : 7.0
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 2
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : 1E-10 AMPS
NI Detector Power Supply
Turn-on Power Level : 1E-10 AMPS
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : NI SOURC RNG

Point ID : NINU0031K

Plant Spec Point Desc : NUTRN FLX SR

Generic/Cond Desc : NUCLEAR INSTRUMENTS, SOURCE RANGE

Analog/Digital : A

Engr Units/Dig States : CPS

Engr Units Conversion : N/A

Minimum Instr Range : 1E0

Maximum Instl Range : 1E6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : ERFDADS AVERAGE WITH QUALITY CHECK

Sensor Locations :

Alarm/Trip Set Points : HIGH AT 1E+5 CPS

NI Detector Power Supply
Cut-off Power Level : 1E-10 AMPS

NI Detector Power Supply
Turn-on Power Level : 1E-10 AMPS

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : NI INTER RNG
Point ID : NINU0035K
Plant Spec Point Desc : NUTRN FLX IR
Generic/Cond Desc : NUCLEAR INSTRUMENTS, INTER RANGE
Analog/Digital : A
Engr Units/Dig States : AMP
Engr Units Conversion : N/A
Minimum Instr Range : 1E-11
Maximum Instr Range : 1E-3
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 2
How Processed : ERFDAVS AVERAGE WITH QUALITY CHECK
Sensor Locations :
Alarm/Trip Set Points : HIGH AT 9.15 E-5 AMP
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : SG BD RAD A

Point ID : RARE8022

Plant Spec Point Desc : SG 2A 1 IN RAD TRN C

Generic/Cond Desc : STM GEN A BLOWDOWN RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-4

Maximum Instr Range : 1E+4

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 4.38E-3 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : SG BD RAD B
Point ID : RARE8023
Plant Spec Point Desc : SG 2B BLWDN PAD TRN A
Generic/Cond Desc : STM GEN B BLOWDOWN RAD LEVEL
Analog/Digital : A
Engr Units/Dig States : UCI/CC
Engr Units Conversion : N/A
Minimum Instr Range : 1E-4
Maximum Instr Range : 1E+4
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : HIGH RAD AT 4.38E-3 UCI/CC
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : SG BD RAD C

Point ID : RARE8024

Plant Spec Point Desc : SG 2C BLWDN RAD TRN C

Generic/Cond Desc : STM GEN C BLOWDOWN RAD LEVEL

Analog/Digital : A

Engr Units/Dig Status : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-4

Maximum Instr Range : 1E+4

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 4.38E-3 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

| | | |
|---|---|------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | SG BD RAD D |
| Point ID | : | RARE8025 |
| Plant Spec Point Desc | : | SG 2D BLWDN RAD TRN A |
| Generic/Cond Desc | : | STM GEN D BLOWDOWN RAD LEVEL |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | UCI/CC |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 1E-4 |
| Maximum Instr Range | : | 1E+4 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | HIGH RAD AT 4.38E-3 UCI/CC |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : MAIN SL A

Point ID : RARE8046

Plant Spec Point Desc : MS LINE A RAD TRN A

Generic/Cond Desc : STM GEN A STEAM LINE RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-2

Maximum Instr Range : 1E+6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 0.23 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : MAIN SL B

Point ID : RARE8047

Plant Spec Point Desc : MS LINE B RAD TRN C

Generic/Cond Desc : STM GEN B STEAM LINE RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-2

Maximum Instr Range : 1E+6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 0.23 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : MAIN SL C

Point ID : RARE8048

Plant Spec Point Desc : MS LINE C RAD TRN A

Generic/Cond Desc : STM CEN C STEAM LINE RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-2

Maximum Instr Range : 1E+6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 0.23 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : MAIN SL D

Point ID : RARE8049

Plant Spec Point Desc : MS LINE D RAD TRN C

Generic/Cond Desc : STM GLN D STEAM LINE RAD LEVEL

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-2

Maximum Instr Range : 1E+6

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 0.23 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

| | | |
|---|---|----------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | EFF LIQ RAD |
| Point ID | : | RARM8038 |
| Plant Spec Point Desc | : | LWPS MONITOR #1 RAD |
| Generic/Cond Desc | : | RADIOACTIVITY OF RELEASED LIQUID |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | UCI/CC |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | E-8 |
| Maximum Instr Range | : | E-2 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : CNTMNT RAD

Point ID : RARQ8050

Plant Spec Point Desc : CNTMT HI RNG RAD

Generic/Cond Desc : RADIATION LVL IN THE CONTAINMENT

Analog/Digital : A

Engr Units/Dig States : R/HR

Engr Units Conversion : N/A

Minimum Instr Range : 1E0

Maximum Instr Range : 1E8

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 2

How Processed : QDPS RSA

Sensor Locations : 6 FEET ABOVE OPERATING DECK

Alarm/Trip Set Points : HIGH RAD AT 5 R/HR

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : EFF GAS RAD

Point ID : RARU8010J

Plant Spec Point Desc : UNIT VENT NG RAD

Generic/Cond Desc : RADIOACTIVITY OF RELEASED GASSES

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-7

Maximum Instr Range : 1E+5

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 3

How Processed : ERFDADS - MAXIMUM OF GOOD QUALITY INPUTS

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 4.0000E-04 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : COND A/E RAD

Point ID : RARU8027J

Plant Spec Point Desc : CVP RAD

Generic/Cond Desc : CONDENSER AIR EJECTOR RAD

Analog/Digital : A

Engr Units/Dig States : UCI/CC

Engr Units Conversion : N/A

Minimum Instr Range : 1E-7

Maximum Instr Range : 1E+5

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : P

Number of Sensors : 1

How Processed : ERFDADS - MAXIMUM OF GOOD QUALITY INPUTS

Sensor Locations :

Alarm/Trip Set Points : HIGH RAD AT 6.4000E-04 UCI/CC

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

| | | |
|---|---|-----------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | RCFQ0417 |
| Plant Spec Point Desc | : | RCS FLOW LOOP A |
| Generic/Cond Desc | : | REACTOR COOLANT FLOW LOOP A |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | PRCT |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 120 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| How Processed | : | QDPS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | LOW FLOW AT 91.8 PRCT |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

| | | |
|---|---|-----------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | RCFQ0427 |
| Plant Spec Point Desc | : | RCS FLOW LOOP B |
| Generic/Cond Desc | : | REACTOR COOLANT FLOW LOOP B |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | PRCT |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 120 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | P |
| Number of Sensors | : | 3 |
| H/w Processed | : | QDPS RSA |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | LOW FLOW AT 91.8 PRCT |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : RCFQ0437
Plant Spec Point Desc : RCS FLOW LOOP C
Generic/Cond Desc : REACTOR COOLANT FLOW LOOP C
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 120
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 3
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : LOW FLOW AT 91.8 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : RCFQ0447
Plant Spec Point Desc : RCS FLOW LOOP D
Generic/Cond Desc : REACTOR COOLANT FLOW LOOP D
Analog/Digital : A
Units/Dig States : PRCT
Units Conversion : 0
Minimum Instr Range : 120
Maximum Instr Range :
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 3
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : LOW FLOW AT 91.8 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : PRZR LEVEL
Point ID : RCLQ0465
Plant Spec Point Desc : PRZR LEVEL
Generic/Cond Desc : PRIMARY SYSTEM PRESSURIZER LVL
Analog/Digital : A
Engr Units/Dig States : PRCT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 100
Zero Point Reference : N/A
Reference Point Notes : 0 = 7" ABOVE BOTTOM HEAD WELD
PPOC or SENS : P
Number of Sensors : 4
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : HIGH LEVEL AT 92 PRCT
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : WET
Unique System Desc :

Date : 02/28/92
Repoint Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : RCS PRESSURE
Point ID : RCPQ0405
Plant Spec Point Desc : RCS PRESS
Generic/Cond Desc : REACTOR COOLANT SYSTEM PRESSURE
Analog/Digital : A
Engr Units/Dig States : PSIG
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 3000
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : P
Number of Sensors : 3
How Processed : QDPS RSA
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : HL TEMP A
Point ID : KCTE0413
Plant Spec Point Desc : RCS T-HOT W/R LP A
Generic/Cond Desc : STM GEN A INLET TEMPERATURE
Analog/Digital : A
Engr Units/Dig States : DEGF
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 700
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : CL TEMP A

Point ID : RCTE0414

Plant Spec Point Desc : RCS T-COLD W/R LP A

Generic/Cond Desc : STM GEN A OUTLET TEMPERATURE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

| | | |
|---|---|-----------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | HL TEMP B |
| Point ID | : | RCTE0423 |
| Plant Spec Point Desc | : | RCS T-HOT W/R LP B |
| Generic/Cond Desc | : | STM GEN B INLET TEMPERATURE |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | DEGF |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 700 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

| | | |
|---|---|------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | CL TEMP B |
| Point ID | : | RCTE0424 |
| Plant Spec Point Desc | : | RCS T-COLD W/R LP B |
| Generic/Cond Desc | : | STM GEN B OUTLET TEMPERATURE |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | DEGF |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 700 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : HL TEMP C
Point ID : RCTE0433
Plant Spec Point Desc : RCS T-HOT W/R LP C
Generic/Cond Desc : STM GEN C INLET TEMPERATURE
Analog/Digital : A
Engr Units/Dig States : DEGT
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 700
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations :
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

| | | |
|---|---|------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | CL TEMP C |
| Point ID | : | RCTE0434 |
| Plant Spec Point Desc | : | RCS T-COLD W/R LP C |
| Generic/Cond Desc | : | STM GEN C OUTLET TEMPERATURE |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | DEGF |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 700 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 02/28/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : HL TEMP D

Point ID : RCTE0443

Plant Spec Point Desc : RCS T-HOT W/R LP D

Generic/Cond Desc : STM GLN D INLET TEMPERATURE

Analog/Digital : A

Engr Units/Dig States : DEGF

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 700

Zero Point Reference : N/A

Reference Point Notes : N/A

PROC or SENS : S

Number of Sensors : 1

How Processed : N/A

Sensor Locations :

Alarm/Trip Set Points : N/A

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : *

Level Reference Leg : N/A

Unique System Desc :

| | | |
|---|---|------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | CL TEMP D |
| Point ID | : | RCTE0444 |
| Plant Spec Point Desc | : | RCS T-COLD W/R LP D |
| Generic/Cond Desc | : | STM GEN D OUTLET TEMPERATURE |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | DEGF |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 700 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | * |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : NOT LISTED
Point ID : SIFAC851
Plant Spec Point Desc : RHR/SI TC INJ FLOW TRN A
Generic/Cond Desc : LOW PRESS SAFETY INJ FLOW TRN A
Analog/Digital : A
Engr Units/Dig States : GPM
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 5000
Zero Point Reference : N/A
Reference Point Notes : N/A
PROC or SENS : S
Number of Sensors : 1
How Processed : N/A
Sensor Locations : UPSTREAM OF SPLIT TO HOT/COLD PATHS
Alarm/Trip Set Points : N/A
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : N
Level Reference Leg : N/A
Unique System Desc :

| | | |
|---|---|-------------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | SIFA0852 |
| Plant Spec Point Desc | : | RHR/SI TC INJ FLOW TRN B |
| Generic/Cond Desc | : | LOW PRESS SAFETY INJ FLOW TRN B |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 5000 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | UPSTREAM OF SPLIT TO HOT/COLD PATHS |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

| | | |
|---|---|-------------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | SIFA0853 |
| Plant Spec Point Desc | : | RHR/SI TC INJ FLOW TRN C |
| Generic/Cond Desc | : | LOW PRESS SAFETY INJ FLOW TRN C |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 5000 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | UPSTREAM OF SPLIT TO HOT/COLD PATHS |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

| | | |
|---|---|----------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | SIFA0901 |
| Plant Spec Point Desc | : | HHSI PMP 2A TC INJ FLOW |
| Generic/Cond Desc | : | HIGH PRESS SAFETY INJ FLOW TRN A |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 2000 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

| | | |
|---|---|----------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | SIFA0902 |
| Plant Spec Point Desc | : | HHSI PMP 2B TC INJ FLOW |
| Generic/Cond Desc | : | HIGH PRESS SAFETY INJ FLOW TRN P |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 2000 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

| | | |
|---|---|----------------------------------|
| Date | : | 02/28/92 |
| Reactor Unit | : | ST2 |
| Data Feeder | : | 1 |
| NRC ERDS Parameter | : | NOT LISTED |
| Point ID | : | SIFA0903 |
| Plant Spec Point Desc | : | HHSI PMP 2C TC INJ FLOW |
| Generic/Cond Desc | : | HIGH PRESS SAFETY INJ FLOW TRN C |
| Analog/Digital | : | A |
| Engr Units/Dig States | : | GPM |
| Engr Units Conversion | : | N/A |
| Minimum Instr Range | : | 0 |
| Maximum Instr Range | : | 2000 |
| Zero Point Reference | : | N/A |
| Reference Point Notes | : | N/A |
| PROC or SENS | : | S |
| Number of Sensors | : | 1 |
| How Processed | : | N/A |
| Sensor Locations | : | |
| Alarm/Trip Set Points | : | N/A |
| NI Detector Power Supply Cut-off Power Level | : | N/A |
| NI Detector Power Supply Turn-on Power Level | : | N/A |
| Instrument Failure Mode | : | |
| Temperature Compensation For DP Transmitters | : | N |
| Level Reference Leg | : | N/A |
| Unique System Desc | : | |

SOUTH TEXAS PROJECT - UNIT 2
DATA POINT LIBRARY REFERENCE FILE

Date : 03/05/92

Reactor Unit : ST2

Data Feeder : 1

NRC ERDS Parameter : BWST LEVEL

Point ID : SILQ0931

Plant Spec Point Desc : RWST LEVEL

Generic/Cond Desc : BORATED WATER STORAGE TANK LEVEL

Analog/Digital : A

Engr Units/Dig States : KGAL

Engr Units Conversion : N/A

Minimum Instr Range : 0

Maximum Instr Range : 550

Zero Point Reference : BOT

Reference Point Notes : 0=BOTTOM OF TANK (BOT)

PROC or SENS : P

Number of Sensors : 3

How Processed : QDPS RSA

Sensor Locations :

Alarm/Trip Set Points : LOW LEVEL AT 74.6 KGAL

NI Detector Power Supply
Cut-off Power Level : N/A

NI Detector Power Supply
Turn-on Power Level : N/A

Instrument Failure Mode :

Temperature Compensation
For DP Transmitters : N

Level Reference Leg : DRY

Unique System Desc : INDICATES RWST LEVEL IN KGAL OF CONTAINED VOLUME FROM
THE BOTTOM OF THE TANK.

Date : 02/28/92
Reactor Unit : ST2
Data Feeder : 1
NRC ERDS Parameter : CTMNT SMP WR
Point ID : SILQ3925
Plant Spec Point Desc : CNTMT WTR LVL W/R AUCTION HI
Generic/Cond Desc : CONTAINMENT SUMP WIDE RANGE LVL
Analog/Digital : A
Engr Units/Dig States : INCH
Engr Units Conversion : N/A
Minimum Instr Range : 0
Maximum Instr Range : 87
Zero Point Reference : EL-135
Reference Point Notes : 0 EXTENDS FROM RCB FLOOR TO 10" SENSOR
PROC or SENS : P
Number of Sensors : 3
How Processed : QDPS AUCTIONEER HIGH
Sensor Locations :
Alarm/Trip Set Points : HIGH LEVEL AT 9 INCHES
NI Detector Power Supply
Cut-off Power Level : N/A
NI Detector Power Supply
Turn-on Power Level : N/A
Instrument Failure Mode :
Temperature Compensation
For DP Transmitters : *
Level Reference Leg : N/A
Unique System Desc :

Attachment 3
ST-HL-AE-4028

STP ERDS PAL FOR DATA FEEDER ST1
PLANT ATTRIBUTES LIBRARY

APPENDIX B

ERDS COMMUNICATIONS DESCRIPTION
AND SURVEY QUESTIONNAIRE

APPENDIX B

ERDS COMMUNICATIONS DESCRIPTION AND SURVEY QUESTIONNAIRE

The following is a questionnaire pertaining to the Nuclear Regulatory Commission's (NRC) Emergency Response Data System (ERDS). It consists of a series of questions concerning plant I/O points, software protocols, data formats, transmission frequencies, and other plant computer specific information to be used in the ERDS computer database files. Also, included here are descriptions and examples of data streams that the NRC is expecting to see transmitted over the communication line.

The purpose of collecting the data is to develop a plant-specific database that will be retrieved into the ERDS once the system is activated by a utility. It will also be used to design and implement ERDS software that can receive the utility's data transmission. In essence, this information will provide the basis for building a profile of the plant in the ERDS database.

In some cases, the I/O point data may be distributed over several computers. The ERDS considers this situation a multi-feeder site and Section IV must be filled out for each feeder.

For plants that utilize the PC based interface described in Appendix J, item 15, Section IV must be filled out for the ERDS interface PC as well as each computer which feeds data to the interface PC.

This request is covered by Office of Management and Budget Clearance Number 3150-0150 which expires March 31, 1992. The estimated average burden hours is 32 person hours per licensee response, including staff and management review and preparation of the requested response. These estimated average burden hours pertain only to those identified response-related matters and do not include the time for any follow on implementation. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Records and Reports Management Branch, Division of Information Support Services, Office of Information Resources Management, U.S. Nuclear Regulatory Commission, Washington, DC 20555; and to the Paperwork Reduction Project (3150-0150), Office of Management and Budget, Washington, DC 20503.

I. Contracts

Note: Please provide name, title, mailing address, and phone number.

- A. Survey Coordinator (i.e., contact for later clarification of questionnaire answers):

Ronald H. Falstreau
Consulting Engineer - Design Engineering Dept.
Houston Lighting & Power Co.
South Texas Project Electric Generating Station
P.O. Box 289
Wadsworth, TX 77483 Phone (512) 972-7179

- B. Computer Hardware Specialist(s):

Robert W. Smith
Supervising Engineer - Plant Engineering Dept.
Houston Lighting & Power Co.
South Texas Project Electric Generating Station
P. O. Box 289
Wadsworth, TX 77483 Phone (512) 972-7815

- C. Systems Software Specialist(s):

Nancy L. Ellis
Consulting Engineer - Plant Engineering Dept.
Houston Lighting & Power Co.
South Texas Project Electric Generation Station
P.O. Box 289
Wadsworth, TX 77483 Phone (512) 972-8037

- D. Application-level Software Specialist(s):

Nancy L. Ellis
Consulting Engineer - Plant Engineering Dept.
Houston Lighting & Power Co.
South Texas Project Electric Generation Station
P.O. Box 289
Wadsworth, TX 77483 Phone (512) 972-8037

- E. Telephone Systems Specialist(s):

G. L. Plummer
Supervisor Communications Maintenance
Information Resources Dept.
Houston Lighting & Power Co.
South Texas Project Electric Generating Station
P.O. Box 289
Wadsworth, TX 77483 Phone (512) 972-7885

II. ERDS Communication Description

A. Hardware

The following hardware will be supplied:

- for a single-feeder site:

Codex 2235 modem or equivalent - V.22 2400 bps.
asynchronous,
auto-dialing,
auto-answer,
error-correcting, using
the AT command set

- for a multiple-feeder site:

Codex 6015 multiplexer

Codex 2264 modem or equivalent - V.32 9600 bps.
asynchronous,
auto-dialing,
auto-answer,
error-correcting, using
the AT command set

(for an alternate approach see Appendix A, Item 7)

The modems are intended to be operated in the auto-reliable link mode (referred to as MNP in the modem manuals). There are several modem parameters that affect MNP operation. These are discussed in the sections of the modem manuals pertaining to MNP. The single feeder modems at the NRC Operations Center are configured to auto-reliable link mode, local terminal flow control, and default break handling.

B. Software

1. Data Transmission

All transmissions, from both the site and the ERDS, will be terminated with a carriage return (<CR>).

- a. Site will initiate a link request in ASCII using:

- the three-character site designator.
- the work LINK.
- local site time and date in format MM/DD/YY/HH:MM:SS, and
- a <CR>.

If the site does not receive a response from the ERDS within one minute, it should send another link request message and continue sending them at one-minute intervals. If more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line.

b. ERDS will respond in ASCII with:

- the three-character site designator.
- the word ACCEPTED or DENIED, and
- a <CR>.

If the ERDS responds with the denied message, the site should wait one minute and then send a link request message and continue sending them at one-minute intervals. If more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line.

c. When the ERDS is ready to receive data, it will send an initiate message in ASCII using:

- the three-character site designator.
- the word INITIATE, and
- a <CR>.

If the ERDS does not send an initiate message within one minute of the accept message, the site should send the link reconnect message (described in Section II.B.1.f).

d. Upon receipt of the initiate message, the plant begins transmission of data at a 15-second rate. The data string consists of:

- a header containing the three-character site designator and date and time in the format MM/DD/YY/HH:MM:SS,
- the data package sequenced with point identifier, value, and quality tag,
- a trailer containing the checksum value of the data packet, and a <CR>.

e. When the site or ERDS wishes to terminate the connection, an ASCII message will be sent containing:

- the three-character site designator,
- the word TERMINATE, and
- a <CR>.

- f. If a site is advertently terminated (due to loss of communications or receipt of terminate message) and the incident is still underway, the site should reconnect with the ERDS by redialing and using the link reconnect message. The link reconnect message should be used any time the phone line is lost after the receipt of an Accept Message (described in Section II.B.1.b). This message is in ASCII and will contain:

- the three-character site designator,
- the word RECONNECT,
- local site time and date in the format MM/DD/YY/HH:MM:SS, and
- a <CR>.

Upon receipt of this message, the ERDS will respond with the accept and initiate messages as described in Sections II.B.1.b and II.B.1.c. If the ERDS responds with a link deny message (described in Section II.B.1.b), the site should stop trying to reconnect and send a link request message (described in Section II.B.1.a). If the ERDS does not respond to the site's reconnect request within one minute, the site should send another reconnect request and continue sending reconnect requests once a minute. If more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line. It is the responsibility of the site to monitor the outgoing line for loss of communications.

Once a physical connection has been established with the NRC, the site should not disconnect the phone line until a TERMINATE message (described in section II.b.1.e) has been transmitted. If problems are encountered in the link request sequence, do not hang up the line up proceed with the steps outlined above.

- g. If the site will transmit in EBCDIC rather than ASCII, the following applies:
- (1) The link request message (defined in II.B.1.a) and the reconnect message (defined in II.B.1.f) must be in ASCII.
 - (2) All replies sent by the ERDS to the site will be ASCII.
 - (3) The terminate message sent by the site may be EBCDIC or ASCII.
 - (4) All updates sets sent by the site must be in EBCDIC.

2. Data Format

The following three delimiters have been identified:

- (1) field delimiter (*),
- (2) data set delimiter (\), and
- (3) carriage return (<CR>).

Note: The length of the messages sent by the ERDS (e.g., ACCEPTED, DENIED, INITIATE, TERMINATE) are variable and it is recommended that the site software use the data set delimiter as the messages delimiter for messages received from the ERDS.

- a. Link requests will be in ASCII as described in II.B.1.a. with each field separated by a field delimiter and the request terminated with a data set delimiter. For example, PA1*LINK*01/12/89/11:48:50\<CR>.
- b. The ERDS response will be in ASCII as described in II.B.1.b. with each field separated by a field delimiter and the response terminated with a data set delimiter. For example, PA1*ACCEPTED\<CR>.
- c. When the ERDS is ready to receive data it will respond in ASCII as described in II.B.1.c with each field separated by a field delimiter and the response terminated with a data set delimiter. For example, PA1*INITIATE\<CR>.
- d. Data streams will be in ASCII and will consist of three parts (header, data, and trailer) as described in II.B.1.d. with each field separated by a field delimiter and each of the three parts separated by a data set delimiter. For example,

Header: PA1*01/12/89/11:50:30\

Data: B21CP004*-0.1234E+00*3*...(for each parameter)\

Trailer: 0000056000\<CR>

- e. The point identifier may be up to 12 characters in length.
- f. The value may be up to 20 characters in length.

- g. The following quality tags will be accepted by the ERDS:

| | | |
|------------------|-----|--|
| Good | = 0 | Value is within range tolerance for discreet points or input points are within tolerance for composed points. |
| Off-scan | = 1 | Point is currently out-of-service. |
| Suspect | = 2 | Value is not bad yet should not be considered good. This quality will occur primarily on composed values when enough good inputs are present to allow the calculation to be made yet a bad quality on other inputs may make the result questionable. |
| Bad | = 3 | Value is not within tolerance for discreet points or calculation of a composed point may not be made due to the qualities of its inputs. |
| Unknown | = 4 | No quality indicator available. |
| Operator Entered | = 5 | Value has been manually entered, overriding the discreet or composed value. |
| High Alarm | = 6 | Value is in high alarm. |
| Low Alarm | = 7 | Value is in low alarm. |

- h. The checksum which accompanies each update set will be an integer value calculated by summing each of the bytes of the transmission, up to and including the dataset delimiter following the body of the update set (the body of the update set being the portion containing the parameter, value, and quality indications). This integer checksum value will then be encoded into the update set as a 10-digit value, left-padded with zeros as required to fill the 10-digit field. The checksum is the sum of the transmitted bytes.

- i. The reconnect link request message will be in ASCII as described in Section II.B.1.f with each field separated by a field delimiter and the request terminated with a data set delimiter. For example, PA1*RECONNECT*01/12/89/11:48:50\<CR>.

3. Protocol

- a. ERDS will use XON/XOFF to stop, resume, or suspend data transmission for the site.
- b. Communication parameters:
 - eight data bits
 - 1 stop bit
 - parity = none

4. Exceptions

Please note any exceptions which must be taken to Section II and explain why.

NO EXCEPTIONS

III. Section Of Data Feeders

A. How many data feeders are there (six maximum)?

1

B. Identify the selected data feeders and provide the following for each:

- (1) a short description of the categories of data points will provide (e.g., met, rad, or plant data points, by unit) and QDPS, MET, RAD, and plant data points for its own unit
- (2) the rational for selecting it if another system can also provide its categories of data points.

No other system can provide all categories.

C. Which data feeder is the site time determining feeder? This should be the feeder which is providing the majority of the data points.

ERFDAL'S

IV. Data Feeder Information

Note: A new Section IV must be filled out for each feeder system selected.

General Questions

1. Identification of Data Feeder

- a. What is the name in local parlance given to this data feeder (e.g., Emergency Response Information System)? Please give both the acronym and the words forming it.

Emergency Response Facilities Data Acquisition and Display System (ERFDADS)

- b. Is this the site time determining feeder?

Yes

- c. How often will this feeder transmit ... update set to the ERDS (in seconds)?

Every 15 seconds

2. Hardware/Software Environment

- a. Identify the manufacturer and model number of the data feeder hardware.

MODCOMP Classic II Model 7870

- b. Identify the operating system

MODCOMP MAX IV Operating System

- c. What method of timekeeping is implemented on this feeder system (Daylight Savings, Standard, Greenwich)?

Daylight Savings

- d. In what time zone is this feeder located?

Central Time Zone

3. Data Communication Details

- a. Can this data feeder provide asynchronous serial data communications (RS-232-C) with full-modem control?

YES

- b. Will this feeder transmit in ASCII or EBCDIC?

ASCII

- c. Can this feeder at a serial baud rate of 2400 bps? If not, at what baud rate can it transmit?

YES

- d. Does the operating system support XON/XOFF flow control?

YES

1. Are any problems foreseen with the NRC using XON/XOFF to control the transmission of data?

NO

- e. If it is not feasible to reconfigure serial port for the ERDS linkup (i.e., change the baud rate, parity, etc.), please explain why.

N/A

- f. Do any ports currently exist for the ERDS linkup?

YES

1. If not, is it possible to add additional ports?

N/A

2. If yes, will the port be used solely by the ERDS or shared with other non-emergency-time users? Give details.

Used solely by ERDS

4. Data Feeder Physical Environment and Management

- a. Where is the data feeder located in terms of the TSC, EOF, and control room?

Located above the control room, on the same level and adjacent to the TSC.

- b. Is the data feeder protected from loss of supply of electricity?

YES, same supply as host

- c. Is there a human operator for this data feeder?

128

1. If so, how many hours a day is the feeder attended?

8

Attachment 4
ST-HL-AE-4028

STP ERDS PAL FOR DATA FEEDER ST2
PLANT ATTRIBUTES LIBRARY

APPENDIX B

ERDS COMMUNICATIONS DESCRIPTION
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Note: Please provide name, title, mailing address, and phone number.

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Houston Lighting & Power Co.
South Texas Project Electric Generating Station
P.O. Box 289
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B. Computer Hardware Specialist(s):

Robert W. Smith
Supervising Engineer - Plant Engineering Dept.
Houston Lighting & Power Co.
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P. O. Box 289
Wadsworth, TX 77483 Phone (512) 972-7815

C. Systems Software Specialist(s):

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Consulting Engineer - Plant Engineering Dept.
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South Texas Project Electric Generation Station
P.O. Box 289
Wadsworth, TX 77483 Phone (512) 972-8037

D. Application-level Software Specialist(s):

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South Texas Project Electric Generation Station
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Wadsworth, TX 77483 Phone (512) 972-8037

E. Telephone Systems Specialist(s):

G. L. Plummer
Supervisor Communications Maintenance
Information Resources Dept.
Houston Lighting & Power Co.
South Texas Project Electric Generating Station
P.O. Box 289
Wadsworth, TX 77483 Phone (512) 972-7885

II. ERDS Communication Description

A. Hardware

The following hardware will be supplied:

- for a single-feeder site:

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asynchronous,
auto-dialing,
auto-answer,
error-correcting, using
the AT command set

- for a multiple-feeder site:

Codex 6015 multiplexer

Codex 2264 modem or equivalent - V.32 9600 bps.
asynchronous,
auto-dialing,
auto-answer,
error-correcting, using
the AT command set

(for an alternate approach see Appendix A, Item 7)

The modems are intended to be operated in the auto-reliable link mode (referred to as MNP in the modem manuals). There are several modem parameters that affect MNP operation. These are discussed in the sections of the modem manuals pertaining to MNP. The single feeder modems at the NRC Operations Center are configured to auto-reliable link mode, local terminal flow control, and default break handling.

B. Software

1. Data Transmission

All transmissions, from both the site and the ERDS, will be terminated with a carriage return (<CR>).

- a. Site will initiate a link request in ASCII using:

- the three-character site designator.
- the work LINK.
- local site time and date in format MM/DD/YY/HH:MM:SS, and
- a <CR>.

If the site does not receive a response from the ERDS within one minute, it should send another link request message and continue sending them at one-minute intervals. If more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line.

b. ERDS will respond in ASCII with:

- the three-character site designator.
- the word ACCEPTED or DENIED, and
- a <CR>.

If the ERDS responds with the denied message, the site should wait one minute and then send a link request message and continue sending them at one-minute intervals. If more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line.

c. When the ERDS is ready to receive data, it will send an initiate message in ASCII using:

- the three-character site designator.
- the word INITIATE, and
- a <CR>.

If the ERDS does not send an initiate message within one minute of the accept message, the site should send the link reconnect message (described in Section II.B.1.f).

d. Upon receipt of the initiate message, the plant begins transmission of data at a 15-second rate. The data string consists of:

- a header containing the three-character site designator and date and time in the format MM/DD/YY/HH:MM:SS,
- the data package sequenced with point identifier, value, and quality tag,
- a trailer containing the checksum value of the data packet, and a <CR>.

e. When the site or ERDS wishes to terminate the connection, an ASCII message will be sent containing:

- the three-character site designator,
- the word TERMINATE, and
- a <CR>.

- f. If a site is advertently terminated (due to loss of communications or receipt of terminate message) and the incident is still underway, the site should reconnect with the ERDS by redialing and using the link reconnect message. The link reconnect message should be used any time the phone line is lost after the receipt of an Accept Message (described in Section II.B.1.b). This message is in ASCII and will contain:

- the three-character site designator,
- the word RECONNECT,
- local site time and date in the format MM/DD/YY/HH:MM:SS, and
- a <CR>.

Upon receipt of this message, the ERDS will respond with the accept and initiate messages as described in Sections II.B.1.b and II.B.1.c. If the ERDS responds with a link deny message (described in Section II.B.1.b), the site should stop trying to reconnect and send a link request message (described in Section II.B.1.a). If the ERDS does not respond to the site's reconnect request within one minute, the site should send another reconnect request and continue sending reconnect requests once a minute. If more than five minutes elapses without a response, site personnel should notify the NRC before disconnecting the line. It is the responsibility of the site to monitor the outgoing line for loss of communications.

Once a physical connection has been established with the NRC, the site should not disconnect the phone line until a TERMINATE message (described in section II.b.1.e) has been transmitted. If problems are encountered in the link request sequence, do not hang up the line up proceed with the steps outlined above.

- g. If the site will transmit in EBCDIC rather than ASCII, the following applies:
- (1) The link request message (defined in II.B.1.a) and the reconnect message (defined in II.B.1.f) must be in ASCII.
 - (2) All replies sent by the ERDS to the site will be ASCII.
 - (3) The terminate message sent by the site may be EBCDIC or ASCII.
 - (4) All updates sets sent by the site must be in EBCDIC.

2. Data Format

The following three delimiters have been identified:

- (1) field delimiter (*),
- (2) data set delimiter (\), and
- (3) carriage return (<CR>).

Note: The length of the messages sent by the ERDS (e.g., ACCEPTED, DENIED, INITIATE, TERMINATE) are variable and it is recommended that the site software use the data set delimiter as the messages delimiter for messages received from the ERDS.

- a. Link requests will be in ASCII as described in II.B.1.a. with each field separated by a field delimiter and the request terminated with a data set delimiter. For example, PA1*LINK*01/12/89/11:48:50\<CR>.
- b. The ERDS response will be in ASCII as described in II.B.1.b. with each field separated by a field delimiter and the response terminated with a data set delimiter. For example, PA1*ACCEPTED\<CR>.
- c. When the ERDS is ready to receive data it will respond in ASCII as described in II.B.1.c with each field separated by a field delimiter and the response terminated with a data set delimiter. For example, PA1*INITIATE\<CR>.
- d. Data streams will be in ASCII and will consist of three parts (header, data, and trailer) as described in II.B.1.d. with each field separated by a field delimiter and each of the three parts separated by a data set delimiter. For example,

Header: PA1*01/12/89/11:50:30\

Data: B21CP004*-0.1234E+00*3*...(for each parameter)\

Trailer: 0000056000\<CR>

- e. The point identifier may be up to 12 characters in length.
- f. The value may be up to 20 characters in length.

- g. The following quality tags will be accepted by the ERDS:

| | | |
|------------------|-----|--|
| Good | = 0 | Value is within range tolerance for discreet points or input points are within tolerance for composed points. |
| Off-scan | = 1 | Point is currently out-of-service. |
| Suspect | = 2 | Value is not bad yet should not be considered good. This quality will occur primarily on composed values when enough good inputs are present to allow the calculation to be made yet a bad quality on other inputs may make the result questionable. |
| Bad | = 3 | Value is not within tolerance for discreet points or calculation of a composed point may not be made due to the qualities of its inputs. |
| Unknown | = 4 | No quality indicator available. |
| Operator Entered | = 5 | Value has been manually entered, overriding the discreet or composed value. |
| High Alarm | = 6 | Value is in high alarm. |
| Low Alarm | = 7 | Value is in low alarm. |

- h. The checksum which accompanies each update set will be an integer value calculated by summing each of the bytes of the transmission, up to and including the dataset delimiter following the body of the update set (the body of the update set being the portion containing the parameter, value, and quality indications). This integer checksum value will then be encoded into the update set as a 10-digit value, left-padded with zeros as required to fill the 10-digit field. The checksum is the sum of the transmitted bytes.

- i. The reconnect link request message will be in ASCII as described in Section II.B.1.f with each field separated by a field delimiter and the request terminated with a data set delimiter. For example, PA1*RECONNECT*01/12/89/11:48:50\<CR>.

3. Protocol

- a. ERDS will use XON/XOFF to stop, resume, or suspend data transmission for the site.
- b. Communication parameters:
 - eight data bits
 - 1 stop bit
 - parity = none

4. Exceptions

Please note any exceptions which must be taken to Section II and explain why.

NO EXCEPTIONS

III. Section Of Data Feeders

A. How many data feeders are there (six maximum)?

1

B. Identify the selected data feeders and provide the following for each:

(1) a short description of the categories of data points will provide (e.g., met, rad, or plant data points, by unit) and

QDPS, MET, RAD, and plant data points for its own unit

(2) the rationale for selecting it if another system can also provide its categories of data points.

No other system can provide all categories.

C. Which data feeder is the site time determining feeder? This should be the feeder which is providing the majority of the data points.

ERFDADE

IV. Data Feeder Information

Note: A new Section IV must be filled out for each feeder system selected.

General Questions

1. Identification of Data Feeder

- a. What is the name in local parlance given to this data feeder (e.g., Emergency Response Information System)? Please give both the acronym and the words forming it.

Emergency Response Facilities Data Acquisition and Display System (ERFDADS)

- b. Is this the site time determining feeder?

Yes

- c. How often will this feeder transmit an update set to the ERDS (in seconds)?

Every 15 seconds

2. Hardware/Software Environment

- a. Identify the manufacturer and model number of the data feeder hardware.

MODCOMP Classic II Model 7070

- b. Identify the operating system

MODCOMP MAX IV Operating System

- c. What method of timekeeping is implemented on this feeder system (Daylight Savings, Standard, Greenwich)?

Daylight Savings

- d. In what time zone is this feeder located?

Central Time Zone

3. Data Communication Details

- a. Can this data feeder provide asynchronous serial data communications (RS-232-C) with full-modem control?

YES

- b. Will this feeder transmit in ASCII or EBCDIC?

ASCII

- c. Can this feeder at a serial baud rate of 2400 bps? If not, at what baud rate can it transmit?

YES

- d. Does the operating system support XON/XOFF flow control?

YES

1. Are any problems foreseen with the NRC using XON/XOFF to control the transmission of data?

NO

- e. If it is not feasible to reconfigure serial port for the ERDS linkup (i.e., change the baud rate, parity, etc.), please explain why.

N/A

- f. Do any ports currently exist for the ERDS linkup?

YES

1. If not, is it possible to add additional ports?

N/A

2. If yes, will the port be used solely by the ERDS or shared with other non-emergency-time users? Give details.

Used solely by ERDS

4. Data Feeder Physical Environment and Management

- a. Where is the data feeder located in terms of the TSC, EOF, and control room?

Located above the control room, on the same level and adjacent to the TSC.

- b. Is the data feeder protected from loss of supply of electricity?

YES, same supply as host

- c. Is there a human operator for this data feeder?

YES

1. If so, how many hours a day is the feeder attended?

8