



**DUKE POWER**

February 20, 1997

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

Subject: Catawba Nuclear Station - Unit 2  
Docket No. 50-414  
Emergency Response Data System (ERDS) Modifications

Pursuant to the requirements of 10CFR50 Appendix E, Section VI, parts 3.a and 3.b, the following is a notification of modifications to be implemented on the Emergency Response Data System (ERDS) for Duke Power Company's Catawba Nuclear Station Unit 2 (CNS 2), Facility Operating License NPF-35, ERDS designator CT2.

1. Duke is continuing its Operator Aid Computer (OAC) systems replacement process. The vendor, Science Applications International Corp., (SAIC) is providing the replacement systems. The ERDS application will be integral to the new OAC versus the current separate stand-alone system. For CNS 1, this replacement occurred last year. From approximately 03/22/97 to 04/06/97, the existing Catawba Unit 2 OAC will be removed and replaced. Post-modification testing will then commence and continue through the end of April. During the removal/replacement time frame, ERDS will be completely unavailable for CNS 2. ERDS data will be gathered manually and distributed by facsimile during the ERDS outage if needed. During the testing phase, ERDS may be available, but not be operable. In this case, data may be used from this system as necessary.
2. The Catawba 1 ERDS will remain in service, unaffected by the Catawba 2 outage as it is a completely separate system.

9702270455 970220  
PDR ADOCK 05000414  
F PDR

A026 1/1

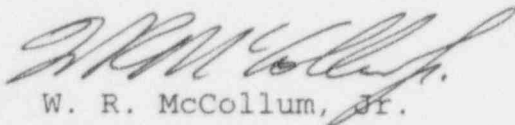
3. The Duke version of the SAIC ERDS application is essentially the same as the standard SAIC product which is already in service at several other nuclear plants. It is proposed that the detailed testing that was performed during initial ERDS installation with Halliburton NUS Corporation not be performed again. The regular quarterly ERDS test schedule will be used to demonstrate ERDS operability as defined by NUREG 1394, part 3.7.
4. The Plant Attribute Library (PAL) information for CNS 2 will not require revision. All communication protocols, messages, and quality codes and formats are unaffected by this modification.
5. The Data Point Library (DPL) information for CNS 2 should be revised per the attached sheets. Revision bars on the right margin indicate changes. The following are some comments concerning these revisions:
  - a. The computer point identification format is changed from five-characters to seven-characters (site and unit have been added).
  - b. Points which indicate the status of each of the eight Safety Parameters Display System (SPDS) Critical Safety Function trees have been added. Each point will transmit an integer having a value of zero to fifteen. The value corresponds to a CSF color per the table below. Flashing colors indicate an unacknowledged change of state.

|             |                   |                  |
|-------------|-------------------|------------------|
| 0 = INVALID | 6 = INVALID       | 12 = FLASH GREEN |
| 1 = RED     | 7 = INVALID       | 13 = FLASH       |
| MAGENTA     |                   |                  |
| 2 = ORANGE  | 8 = INVALID       | 14 = INVALID     |
| 3 = YELLOW  | 9 = FLASH RED     | 15 = INVALID     |
| 4 = GREEN   | 10 = FLASH ORANGE |                  |
| 5 = MAGENTA | 11 = FLASH YELLOW |                  |

- c. The four reactor vessel level indication system (RVLIS) points (train A-lower range, train A-upper range, train B-lower range, and train B-upper range) formerly used as ERDS points will be replaced by two consolidated points (train A and train B). Old points, P0162, P0163, P0164, and P0165, will be deleted. New points, C2P0180 and C2P0181, will be added.
6. The changes to the DPL should be implemented by the NRC on their ERDS computer during the time frame associated with the CNS 2 ERDS unavailability (03/22/97 - 04/06/96). The NRC is requested to send to Duke a printout or electronic copy of the revised DPL for CNS 2 following revision for our record. Duke will notify the NRC by phone if these projected dates change. Duke will also notify the NRC at the actual beginning and end of the unavailability period.

It is requested that the NRC review the above information for acceptability. Should there be any questions or should additional information be required, please contact Rainer Blessing at (803) 831-3857. An electronic copy of the DPL (in Microsoft Access) is available on request.

Sincerely,



W. R. McCollum, Jr.

/RGB

cc: L. A. Reyes, Regional Administrator

P. S. Tam, Project Manager

R. J. Freudenburger, Senior Resident Inspector

REVISED DATA POINT LIBRARY  
CATAWBA NUCLEAR STATION  
UNIT 2



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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | RCS PRESSURE  |
| POINT ID:                                     | C2P0151   |
| PLANT SPEC POINT DESC:                        | U2 NC SYSTEM PRESSURE, BEST   |
| 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 SENSOR:                             | 3   |
| HOW PROCESSED:                                | LOGIC   |
| SENSOR LOCATIONS:                             | HOTLEG OF RCS   |
| ALARM/TRIP SETPOINTS:                         | HIGH-2385 PSIG LOW-9145 PSIG  |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | VALUE IS EITHER THE AVERAGE OF TWO NARROW RANGE RCS PRESSURES (0 - 800 PSIG), IF ONSCALE, OR THE WIDE RANGE RCS PRESSURE (0 - 3000 PSIG). |

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

|   |                                    |
|---|------------------------------------|
| DATE:   | 02/21/97                           |
| REACTOR UNIT:                                 | CT2                                |
| DATA FEEDER:                                  | N/A                                |
| NRC ERDS PARAMETER:                           | HL TEMP 1/A                        |
| POINT ID:                                     | C2A0668                            |
| PLANT SPEC POINT DESC:                        | NC LOOP 2A WIDE RANGE HOT LEG TEMP |
| 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 SENSOR:                             | 1                                  |
| HOW PROCESSED:                                | N/A                                |
| SENSOR LOCATIONS:                             | WELL OF HOT LEG LOOP               |
| ALARM/TRIP SETPOINTS:                         | N/A                                |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                |
| INSTRUMENT FAILURE MODE:                      | LOW                                |
| TEMPERATURE COMPENSATION FOR DP               | Y                                  |
| REF_LEG:                                      | N/A                                |
| UNIQUE SYSTEM DESC.:                          | N/A                                |

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

|  |                                    |
|--|------------------------------------|
| DATE:  | 02/21/97                           |
| REACTOR UNIT:                                    | CT2                                |
| DATA FEEDER:                                     | N/A                                |
| NRC ERDS PARAMETER:                              | HL TEMP 2/B                        |
| POINT ID:  | C2A0669                            |
| PLANT SPEC POINT DESC:                           | NC LOOP 2B WIDE RANGE HOT LEG TEMP |
| 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 SENSOR:                                | 1                                  |
| HOW PROCESSED:                                   | N/A                                |
| SENSOR LOCATIONS:                                | WELL OF HOT LEG LOOP               |
| ALARM/TRIP SETPOINTS:                            | N/A                                |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                                |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                                |
| INSTRUMENT FAILURE MODE:                         | LOW                                |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y                                  |
| REF_LEG:   | N/A                                |
| UNIQUE SYSTEM DESC.:                             | N/A                                |

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

|   |                                    |
|---|------------------------------------|
| DATE:   | 02/21/97                           |
| REACTOR UNIT:                                 | CT2                                |
| DATA FEEDER:                                  | N/A                                |
| NRC ERDS PARAMETER:                           | HL TEMP 3/C                        |
| POINT ID:                                     | C2A0670                            |
| PLANT SPEC POINT DESC:                        | NC LOOP 2C WIDE RANGE HOT LEG TEMP |
| 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 SENSOR:                             | 1                                  |
| HOW PROCESSED:                                | N/A                                |
| SENSOR LOCATIONS:                             | WELL OF HOT LEG LOOP               |
| ALARM/TRIP SETPOINTS:                         | N/A                                |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                |
| INSTRUMENT FAILURE MODE:                      | LOW                                |
| TEMPERATURE COMPENSATION FOR DP               | Y                                  |
| REF_LEG:                                      | N/A                                |
| UNIQUE SYSTEM DESC.:                          | N/A                                |

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

|   |                                    |
|---|------------------------------------|
| DATE:   | 02/21/97                           |
| REACTOR UNIT:                                 | CT2                                |
| DATA FEEDER:                                  | N/A                                |
| NRC ERDS PARAMETER:                           | HL TEMP 4/D                        |
| POINT ID:                                     | C2A0671                            |
| PLANT SPEC POINT DESC:                        | NC LOOP 2D WIDE RANGE HOT LEG TEMP |
| 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 SENSOR:                             | 1                                  |
| HOW PROCESSED:                                | N/A                                |
| SENSOR LOCATIONS:                             | WELL OF HOT LEG LOOP               |
| ALARM/TRIP SETPOINTS:                         | N/A                                |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                |
| INSTRUMENT FAILURE MODE:                      | LOW                                |
| TEMPERATURE COMPENSATION FOR DP               | Y                                  |
| REF_LEG:                                      | N/A                                |
| UNIQUE SYSTEM DESC.:                          | N/A                                |

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

|  |                                     |
|--|-------------------------------------|
| DATE:  | 02/21/97                            |
| REACTOR UNIT:                                    | CT2                                 |
| DATA FEEDER:                                     | N/A                                 |
| NRC ERDS PARAMETER:                              | CL TEMP 1/A                         |
| POINT ID:  | C2A0700                             |
| PLANT SPEC POINT DESC:                           | NC LOOP 2A WIDE RANGE COLD LEG TEMP |
| 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 SENSOR:                                | 1                                   |
| HOW PROCESSED:                                   | N/A                                 |
| SENSOR LOCATIONS:                                | WELL OF COLD LEG LOOP               |
| ALARM/TRIP SETPOINTS:                            | N/A                                 |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                                 |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                                 |
| INSTRUMENT FAILURE MODE:                         | LOW                                 |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y                                   |
| REF_LEG:   | N/A                                 |
| UNIQUE SYSTEM DESC.:                             | N/A                                 |

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

|  |                                     |
|--|-------------------------------------|
| DATE:  | 02/21/97                            |
| REACTOR UNIT:                                    | CT2                                 |
| DATA FEEDER:                                     | N/A                                 |
| NRC ERDS PARAMETER:                              | CL TEMP 2/B                         |
| POINT ID:  | C2A0706                             |
| PLANT SPEC POINT DESC:                           | NC LOOP 2B WIDE RANGE COLD LEG TEMP |
| 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 SENSOR:                                | 1                                   |
| HOW PROCESSED:                                   | N/A                                 |
| SENSOR LOCATIONS:                                | WELL OF COLD LEG LOOP               |
| ALARM/TRIP SETPOINTS:                            | N/A                                 |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                                 |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                                 |
| INSTRUMENT FAILURE MODE:                         | LOW                                 |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y                                   |
| REF_LEG:   | N/A                                 |
| UNIQUE SYSTEM DESC.:                             | N/A                                 |



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

|   |                                     |
|---|-------------------------------------|
| DATE:   | 02/21/97                            |
| REACTOR UNIT:                                 | CT2                                 |
| DATA FEEDER:                                  | N/A                                 |
| NRC ERDS PARAMETER:                           | CL TEMP 3/C                         |
| POINT ID:                                     | C2A0712                             |
| PLANT SPEC POINT DESC:                        | NC LOOP 2C WIDE RANGE COLD LEG TEMP |
| 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 SENSOR:                             | 1                                   |
| HOW PROCESSED:                                | N/A                                 |
| SENSOR LOCATIONS:                             | WELL OF COLD LEG LOOP               |
| ALARM/TRIP SETPOINTS:                         | N/A                                 |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                 |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                 |
| INSTRUMENT FAILURE MODE:                      | LOW                                 |
| TEMPERATURE COMPENSATION FOR DP:              | Y                                   |
| REF_LEG:                                      | N/A                                 |
| UNIQUE SYSTEM DESC.:                          | N/A                                 |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| DATE:                    | 02/21/97                            |
| REACTOR UNIT:            | CT2                                 |
| DATA FEEDER:             | N/A                                 |
| NRC ERDS PARAMETER:      | CL TEMP 4/D                         |
| POINT ID:                | C2A0718                             |
| PLANT SPEC POINT DESC:   | NC LOOP 2D WIDE RANGE COLD LEG TEMP |
| 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 SENSOR:        | 1                                   |
| HOW PROCESSED:           | N/A                                 |
| SENSOR LOCATIONS:        | WELL OF COLD LEG LOOP               |
| ALARM/TRIP SETPOINTS:    | N/A                                 |
| NI DETECTOR POWER SUPPLY | N/A                                 |
| CUT-OFF POWER LEVEL:     |                                     |
| NI DETECTOR POWER SUPPLY | N/A                                 |
| TURNON POWER LEVEL:      |                                     |
| INSTRUMENT FAILURE MODE: | LOW                                 |
| TEMPERATURE              | Y                                   |
| COMPENSATION FOR DP      |                                     |
| REF_LEG:                 | N/A                                 |
| UNIQUE SYSTEM DESC.:     | N/A                                 |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | TEMP CORE EX  |
| POINT ID:                                     | C2P0828   |
| PLANT SPEC POINT DESC:                        | U2 5 HIGHEST SAFETY RELATED INCORE T/C TEMP   |
| GENERIC/COND DESC:                            | HIGHEST TEMP AT CORE EXIT   |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | DEGF  |
| ENGR UNITS CONVERSION:                        |   |
| MINIMUM INSTR RANGE:                          | 0   |
| MAXIMUM INSTR RANGE:                          | 2300  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             | 40  |
| HOW PROCESSED:                                | AVG OF 5 HIGHEST T/C'S FROM ICCM  |
| SENSOR LOCATIONS:                             | ON TOP OF CORE EXIT   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | THE VALUE IS BASED ON AN AVERAGE OF THE 5 HIGHEST SAFETY-RELATED (ICCM) INCORE T/C'S THAT PASS A VALIDATION TEST. THE TEST EXCLUDES ALL BAD QUALITY INPUTS AND ANY VALUES THAT ARE MORE THAN 50 DEG F FROM THE 5 HIGHEST AVERAGE. |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | SUB MARGIN  |
| POINT ID:  | C2A1345   |
| PLANT SPEC POINT DESC:                           | U2 NC SYSTEM SUBCOOLING-TRAIN 2A  |
| GENERIC/COND DESC:                               | SAT TEMP-HIGHEST CORE EXIT T/C  |
| ANALOG/DIGITAL:                                  | A   |
| ENGR UNITS/DIG STATES:                           | DEGF  |
| ENGR UNITS CONVERSION:                           | POSITIVE = SUBCOOLING   |
| MINIMUM INSTR RANGE:                             | -35.00  |
| MAXIMUM INSTR RANGE:                             | 200   |
| ZERO POINT REFERENCE:                            | N/A   |
| REFERENCE POINT NOTES:                           | N/A   |
| PROC OR SENS:                                    | P   |
| NUMBER OF SENSOR:                                | 20  |
| HOW PROCESSED:                                   | AVG OF 5 HIGHEST TRN A CORE EXIT T/C  |
| SENSOR LOCATIONS:                                | TOP OF CORE EXIT  |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | LOW   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | N/A   |
| UNIQUE SYSTEM DESC.:                             | THIS VALUE IS DERIVED BY WESTINGHOUSE INADEQUATE CORE COOLING<br>MONITOR<br>(ICCM). |

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

|                          |  |
|--------------------------|--|
| DATE:                    | 02/21/97   |
| REACTOR UNIT:            | CT2  |
| DATA FEEDER:             | N/A  |
| NRC ERDS PARAMETER:      | SUB MARGIN   |
| POINT ID:                | C2A1351  |
| PLANT SPEC POINT DESC:   | U2 NC SYSTEM SUBCOOLING-TRAIN 2B                                 |
| GENERIC/COND DESC:       | SAT TEMP-HIGHEST CORE EXIT T/C                                   |
| ANALOG/DIGITAL:          | A  |
| ENGR UNITS/DIG STATES:   | DEGF   |
| ENGR UNITS CONVERSION:   | POSITIVE = SUBCOOLING  |
| MINIMUM INSTR RANGE:     | -35.00   |
| MAXIMUM INSTR RANGE:     | -200   |
| ZERO POINT REFERENCE:    | N/A  |
| REFERENCE POINT NOTES:   | N/A  |
| PROC OR SENS:            | P  |
| NUMBER OF SENSOR:        | 20   |
| HOW PROCESSED:           | AVG OF 5 HIGHEST TRN B CORE EXIT T/C                             |
| SENSOR LOCATIONS:        | TOP OF CORE EXIT   |
| ALARM/TRIP SETPOINTS:    | N/A  |
| NI DETECTOR POWER SUPPLY | N/A  |
| CUT-OFF POWER LEVEL:     |  |
| NI DETECTOR POWER SUPPLY | N/A  |
| TURNON POWER LEVEL:      |  |
| INSTRUMENT FAILURE MODE: | LOW  |
| TEMPERATURE              | Y  |
| COMPENSATION FOR DP      |  |
| REF_LEG:                 | N/A  |
| UNIQUE SYSTEM DESC.:     | THIS VALUE IS DERIVED BY WESTINGHOUSE INADEQUATE MONITOR (ICCM). |

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

|                          |   |
|--------------------------|---|
| DATE:                    | 02/21/97                                    |
| REACTOR UNIT:            | CT2   |
| DATA FEEDER:             | N/A   |
| NRC ERDS PARAMETER:      | PRZR LEVEL                                  |
| POINT ID:                | C2P0300                                     |
| PLANT SPEC POINT DESC:   | U2 PRESSURIZER LEVEL, BEST                  |
| GENERIC/COND DESC:       | PRIMARY SYSTEM PRESSURIZER LEVEL            |
| ANALOG/DIGITAL:          | A   |
| ENGR UNITS/DIG STATES:   | %   |
| ENGR UNITS CONVERSION:   | 1% = 125 GALLONS= 5.2 IN.                   |
| MINIMUM INSTR RANGE:     | 0   |
| MAXIMUM INSTR RANGE:     | 100   |
| ZERO POINT REFERENCE:    | TNKBOT                                      |
| REFERENCE POINT NOTES:   | 0% = 80 CUBIC FEET RESIDUAL VOLUME          |
| PROC OR SENS:            | P   |
| NUMBER OF SENSOR:        | 3   |
| HOW PROCESSED:           | AVG   |
| SENSOR LOCATIONS:        | LEVEL IN CYLINDERICAL PORTION OF PRZR       |
| ALARM/TRIP SETPOINTS:    | 92% = HIGH ; 17% = LOW                      |
| NI DETECTOR POWER SUPPLY | N/A   |
| CUT-OFF POWER LEVEL:     |   |
| NI DETECTOR POWER SUPPLY | N/A   |
| TURNON POWER LEVEL:      |   |
| INSTRUMENT FAILURE MODE: | LOW   |
| TEMPERATURE              | N   |
| COMPENSATION FOR DP      |   |
| REF_LEG:                 | WET   |
| UNIQUE SYSTEM DESC.:     | THIS POINT WAS P1470. 13% = TOP OF HEATERS. |

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

|   |  |
|---|--|
| DATE:   | 02/21/97   |
| REACTOR UNIT:                                 | CT2  |
| DATA FEEDER:                                  | N/A  |
| NRC ERDS PARAMETER:                           | RCS CHG/MU   |
| POINT ID:                                     | C2P0966  |
| PLANT SPEC POINT DESC:                        | U2 CHARGING FLOW, ONE MINUTE AVERAGE   |
| GENERIC/COND DESC:                            | PRIMARY SYSTEM CHARGING FLOW   |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | GFM  |
| ENGR UNITS CONVERSION:                        | N/A  |
| MINIMUM INSTR RANGE:                          | 0  |
| MAXIMUM INSTR RANGE:                          | 200  |
| ZERO POINT REFERENCE:                         | N/A  |
| REFERENCE POINT NOTES:                        | N/A  |
| PROC OR SENS:                                 | P  |
| NUMBER OF SENSOR:                             | 1  |
| HOW PROCESSED:                                | AVG  |
| SENSOR LOCATIONS:                             | BEFORE CHARGING/SEAL FLOW SPLIT  |
| ALARM/TRIP SETPOINTS:                         | N/A  |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A  |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A  |
| INSTRUMENT FAILURE MODE:                      | LOW  |
| TEMPERATURE COMPENSATION FOR DP               | Y  |
| REF_LEG:                                      | N/A  |
| UNIQUE SYSTEM DESC.:                          | FLOW INCLUDES BOTH NORMAL RCS CHARGING & RCP SEAL WATER FLOW.<br>PUMP MINIFLOW NOT INCLUDED. |



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

|   |  |
|---|--|
| DATE:   | 02/21/97   |
| REACTOR UNIT:                                 | CT2  |
| DATA FEEDER:                                  | N/A  |
| NRC ERDS PARAMETER:                           | REA VES LEV  |
| POINT ID:                                     | C2P0180  |
| PLANT SPEC POINT DESC:                        | RVLS TRAIN 2A VESSEL LEVEL                                       |
| GENERIC/COND DESC:                            | REACTOR VESSEL WATER LEVEL                                       |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | %  |
| ENGR UNITS CONVERSION:                        | 1% = 5 IN.   |
| MINIMUM INSTR RANGE:                          | 0  |
| MAXIMUM INSTR RANGE:                          | 120  |
| ZERO POINT REFERENCE:                         | TNKBOT   |
| REFERENCE POINT NOTES:                        | 54% = TOP OF FUEL = 22 FEET                                      |
| PROC OR SENS:                                 | P  |
| NUMBER OF SENSOR:                             | 2  |
| HOW PROCESSED:                                | VALUE SET TO -9999 IF ANY RCP'S ON                               |
| SENSOR LOCATIONS:                             | BOT & TOP OF VESSEL & HOT LEG LOOP A                             |
| ALARM/TRIP SETPOINTS:                         | N/A  |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A  |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A  |
| INSTRUMENT FAILURE MODE:                      | N/A  |
| TEMPERATURE COMPENSATION FOR DP               | Y  |
| REF_LEG:                                      | WET  |
| UNIQUE SYSTEM DESC.:                          | WAS P0162 & P0164. NEW POINT USES UPPER AND LOWER RANGE SENSORS. |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | REA VES LEV   |
| POINT ID:  | C2P0181   |
| PLANT SPEC POINT DESC:                           | RVLS TRAIN 2B VESSEL LEVEL                                      |
| GENERIC/COND DESC:                               | REACTOR VESSEL WATER LEVEL                                      |
| ANALOG/DIGITAL:                                  | A   |
| ENGR UNITS/DIG STATES:                           | %   |
| ENGR UNITS CONVERSION:                           | 1% = 5 IN.  |
| MINIMUM INSTR RANGE:                             | 0   |
| MAXIMUM INSTR RANGE:                             | 120   |
| ZERO POINT REFERENCE:                            | TNKBOT  |
| REFERENCE POINT NOTES:                           | 54% = TOP OF FUEL = 22 FEET                                     |
| PROC OR SENS:                                    | P   |
| NUMBER OF SENSOR:                                | 2   |
| HOW PROCESSED:                                   | VALUE SET TO -9999 IF ANY RCP'S ON                              |
| SENSOR LOCATIONS:                                | BOT & TOP OF VESSEL & HOT LEG LOOP C                            |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | N/A   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | WET   |
| UNIQUE SYSTEM DESC.:                             | WAS P0163 & P0165. NEW POINT USES UPPER AND LOWER RANGE SENSORS |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | CORE FLOW   |
| POINT ID:  | C2P1420   |
| PLANT SPEC POINT DESC:                           | NC LOOP 2A COOLANT FLOW, BEST   |
| GENERIC/COND DESC:                               | TOTAL REACTOR COOLANT FLOW  |
| ANALOG/DIGITAL:                                  | P   |
| ENGR UNITS/DIG STATES:                           | MLB/HR  |
| ENGR UNITS CONVERSION:                           | 36 MLB/HR = FULL FLOW   |
| MINIMUM INSTR RANGE:                             | RNGE VARIS  |
| MAXIMUM INSTR RANGE:                             | W/EACH DEV  |
| ZERO POINT REFERENCE:                            | N/A   |
| REFERENCE POINT NOTES:                           | N/A   |
| PROC OR SENS:                                    | P   |
| NUMBER OF SENSOR:                                | 3   |
| HOW PROCESSED:                                   | AVG   |
| SENSOR LOCATIONS:                                | ELBOW TAPS ON RCS   |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | LOW   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | N/A   |
| UNIQUE SYSTEM DESC.:                             | AVERAGES THE 3 ELBOW TAPS AND CONVERTS TO MASS FLOW USING RCS<br>PRESSURE AND<br>TEMPERATURE. |

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

|                          |   |
|--------------------------|---|
| DATE:                    | 02/21/97  |
| REACTOR UNIT:            | CT2   |
| DATA FEEDER:             | N/A   |
| NRC ERDS PARAMETER:      | CORE FLOW   |
| POINT ID:                | C2P1421   |
| PLANT SPEC POINT DESC:   | NC LOOP 2B COOLANT FLOW, BEST   |
| GENERIC/COND DESC:       | TOTAL REACTOR COOLANT FLOW  |
| ANALOG/DIGITAL:          | A   |
| ENGR UNITS/DIG STATES:   | MLB/HR  |
| ENGR UNITS CONVERSION:   | 36 MLB/HR = FULL FLOW   |
| MINIMUM INSTR RANGE:     | RNGE VARIS  |
| MAXIMUM INSTR RANGE:     | W/EACH DEV  |
| ZERO POINT REFERENCE:    | N/A   |
| REFERENCE POINT NOTES:   | N/A   |
| PROC OR SENS:            | P   |
| NUMBER OF SENSOR:        | 3   |
| HOW PROCESSED:           | AVG   |
| SENSOR LOCATIONS:        | ELBOW TAPS ON RCS   |
| ALARM/TRIP SETPOINTS:    | N/A   |
| NI DETECTOR POWER SUPPLY | N/A   |
| CUT-OFF POWER LEVEL:     |   |
| NI DETECTOR POWER SUPPLY | N/A   |
| TURNON POWER LEVEL:      |   |
| INSTRUMENT FAILURE MODE: | LOW   |
| TEMPERATURE              | Y   |
| COMPENSATION FOR DP      |   |
| REF_LEG:                 | N/A   |
| UNIQUE SYSTEM DESC.:     | AVERAGES THE 3 ELBOW TAPS AND CONVERTS TO MASS FLOW USING RCS<br>PRESSURE AND<br>TEMPERATURE. |

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

|                          |   |
|--------------------------|---|
| DATE:                    | 02/21/97  |
| REACTOR UNIT:            | CT2   |
| DATA FEEDER:             | N/A   |
| NRC ERDS PARAMETER:      | CORE FLOW   |
| POINT ID:                | C2P1422   |
| PLANT SPEC POINT DESC:   | NC LOOP 2C COOLANT FLOW, BEST   |
| GENERIC/COND DESC:       | TOTAL REACTOR COOLANT FLOW  |
| ANALOG/DIGITAL:          | A   |
| ENGR UNITS/DIG STATES:   | MLB/HR  |
| ENGR UNITS CONVERSION:   | 36 MLB/HR = FULL FLOW   |
| MINIMUM INSTR RANGE:     | RNGE VARIS  |
| MAXIMUM INSTR RANGE:     | W/EACH DEV  |
| ZERO POINT REFERENCE:    | N/A   |
| REFERENCE POINT NOTES:   | N/A   |
| PROC OR SENS:            | P   |
| NUMBER OF SENSOR:        | 3   |
| HOW PROCESSED:           | AVG   |
| SENSOR LOCATIONS:        | ELBOW TAPS ON RCS   |
| ALARM/TRIP SETPOINTS:    | N/A   |
| NI DETECTOR POWER SUPPLY | N/A   |
| CUT-OFF POWER LEVEL:     |   |
| NI DETECTOR POWER SUPPLY | N/A   |
| TURNON POWER LEVEL:      |   |
| INSTRUMENT FAILURE MODE: | LOW   |
| TEMPERATURE              | Y   |
| COMPENSATION FOR DP      |   |
| REF_LEG:                 | N/A   |
| UNIQUE SYSTEM DESC.:     | AVERAGES THE 3 ELBOW TAPS AND CONVERTS TO MASS FLOW USING RCS<br>PRESSURE AND<br>TEMPERATURE. |

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

|                          |   |
|--------------------------|---|
| DATE:                    | 02/21/97  |
| REACTOR UNIT:            | CT2   |
| DATA FEEDER:             | N/A   |
| NRC ERDS PARAMETER:      | CORE FLOW   |
| POINT ID:                | C2P1423   |
| PLANT SPEC POINT DESC:   | NC LOOP 2D COOLANT FLOW, BEST   |
| GENERIC/COND DESC:       | TOTAL REACTOR COOLANT FLOW  |
| ANALOG/DIGITAL:          | A   |
| ENGR UNITS/DIG STATES:   | MLB/HR  |
| ENGR UNITS CONVERSION:   | 36 MLB/HR = FULL FLOW   |
| MINIMUM INSTR RANGE:     | RNGE VARIS  |
| MAXIMUM INSTR RANGE:     | W/EACH DEV  |
| ZERO POINT REFERENCE:    | N/A   |
| REFERENCE POINT NOTES:   | N/A   |
| PROC OR SENS:            | P   |
| NUMBER OF SENSOR:        | 3   |
| HOW PROCESSED:           | AVG   |
| SENSOR LOCATIONS:        | ELBOW TAPS ON RCS   |
| ALARM/TRIP SETPOINTS:    | N/A   |
| NI DETECTOR POWER SUPPLY | N/A   |
| CUT-OFF POWER LEVEL:     |   |
| NI DETECTOR POWER SUPPLY | N/A   |
| TURNON POWER LEVEL:      |   |
| INSTRUMENT FAILURE MODE: | LOW   |
| TEMPERATURE              | Y   |
| COMPENSATION FOR DP      |   |
| REF_LEG:                 | N/A   |
| UNIQUE SYSTEM DESC.:     | AVERAGES THE 3 ELBOW TAPS AND CONVERTS TO MASS FLOW USING RCS<br>PRESSURE AND<br>TEMPERATURE. |

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

|  |                                  |
|--|----------------------------------|
| DATE:  | 02/21/97                         |
| REACTOR UNIT:                                    | CT2                              |
| DATA FEEDER:                                     | N/A                              |
| NRC ERDS PARAMETER:                              | NI SOURC RNG                     |
| POINT ID:  | C2A1500                          |
| PLANT SPEC POINT DESC:                           | U2 SOURCE RANGE LEVEL CHANNEL 1  |
| GENERIC/COND DESC:                               | NUCLEAR INSTRUMENTS SOURCE RANGE |
| ANALOG/DIGITAL:                                  | A                                |
| ENGR UNITS/DIG STATES:                           | CPS                              |
| ENGR UNITS CONVERSION:                           | N/A                              |
| MINIMUM INSTR RANGE:                             | 1.0                              |
| MAXIMUM INSTR RANGE:                             | 1E6                              |
| ZERO POINT REFERENCE:                            | N/A                              |
| REFERENCE POINT NOTES:                           | N/A                              |
| PROC OR SENS:                                    | S                                |
| NUMBER OF SENSOR:                                | 1                                |
| HOW PROCESSED:                                   | N/A                              |
| SENSOR LOCATIONS:                                | CORE BASKET AT 0 DEG             |
| ALARM/TRIP SETPOINTS:                            | 1E5 - HIGH                       |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | 1E-10 AMPS                       |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | 1E-10 AMPS                       |
| INSTRUMENT FAILURE MODE:                         | LOW                              |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y                                |
| REF_LEG:   | N/A                              |
| UNIQUE SYSTEM DESC.:                             | N/A                              |



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

|  |                                  |
|--|----------------------------------|
| DATE:  | 02/21/97                         |
| REACTOR UNIT:                                    | CT2                              |
| DATA FEEDER:                                     | N/A                              |
| NRC ERDS PARAMETER:                              | NI SOURC RNG                     |
| POINT ID:  | C2A1506                          |
| PLANT SPEC POINT DESC:                           | U2 SOURCE RANGE LEVEL CHANNEL 2  |
| GENERIC/COND DESC:                               | NUCLEAR INSTRUMENTS SOURCE RANGE |
| ANALOG/DIGITAL:                                  | A                                |
| ENGR UNITS/DIG STATES:                           | CPS                              |
| ENGR UNITS CONVERSION:                           | N/A                              |
| MINIMUM INSTR RANGE:                             | 1.0                              |
| MAXIMUM INSTR RANGE:                             | 1E6                              |
| ZERO POINT REFERENCE:                            | N/A                              |
| REFERENCE POINT NOTES:                           | N/A                              |
| PROC OR SENS:                                    | S                                |
| NUMBER OF SENSOR:                                | 1                                |
| HOW PROCESSED:                                   | N/A                              |
| SENSOR LOCATIONS:                                | CORE BASKET AT 180 DEG           |
| ALARM/TRIP SETPOINTS:                            | 1E5 - HIGH                       |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | 1E-10 AMPS                       |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | 1E-10 AMPS                       |
| INSTRUMENT FAILURE MODE:                         | LOW                              |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y                                |
| REF_LEG:   | N/A                              |
| UNIQUE SYSTEM DESC.:                             | N/A                              |

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

|                          |                                  |
|--------------------------|----------------------------------|
| DATE:                    | 02/21/97                         |
| REACTOR UNIT:            | CT2                              |
| DATA FEEDER:             | N/A                              |
| NRC ERDS PARAMETER:      | NI INTER RNG                     |
| POINT ID:                | C2A0766                          |
| PLANT SPEC POINT DESC:   | U2 N-35 INTERMEDIATE RANGE LEVEL |
| GENERIC/COND DESC:       | NUCLEAR INSTRUMENTS, INTER RANGE |
| ANALOG/DIGITAL:          | A                                |
| ENGR UNITS/DIG STATES:   | AMPS                             |
| ENGR UNITS CONVERSION:   | 25% = 1E-4 AMPS                  |
| MINIMUM INSTR RANGE:     | 1E-11                            |
| MAXIMUM INSTR RANGE:     | 1E-3                             |
| ZERO POINT REFERENCE:    | N/A                              |
| REFERENCE POINT NOTES:   | N/A                              |
| PROC OR SENS:            | S                                |
| NUMBER OF SENSOR:        | 1                                |
| HOW PROCESSED:           | N/A                              |
| SENSOR LOCATIONS:        | CORE BASKET AT 0 DEG             |
| ALARM/TRIP SETPOINTS:    | 25% - HIGH                       |
| NI DETECTOR POWER SUPPLY | N/A                              |
| CUT-OFF POWER LEVEL:     |                                  |
| NI DETECTOR POWER SUPPLY | N/A                              |
| TURNON POWER LEVEL:      |                                  |
| INSTRUMENT FAILURE MODE: | LOW                              |
| TEMPERATURE              | Y                                |
| COMPENSATION FOR DP      |                                  |
| REF_LEG:                 | N/A                              |
| UNIQUE SYSTEM DESC.:     | N/A                              |

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

|  |                                  |
|--|----------------------------------|
| DATE:  | 02/21/97                         |
| REACTOR UNIT:                                    | CT2                              |
| DATA FEEDER:                                     | N/A                              |
| NRC ERDS PARAMETER:                              | NI INTER RNG                     |
| POINT ID:  | C2A0767                          |
| PLANT SPEC POINT DESC:                           | U2 N-36 INTERMEDIATE RANGE LEVEL |
| GENERIC/COND DESC:                               | NUCLEAR INSTRUMENTS, INTER RANGE |
| ANALOG/DIGITAL:                                  | A                                |
| ENGR UNITS/DIG STATES:                           | AMPS                             |
| ENGR UNITS CONVERSION:                           | 25% = 1E-4 AMPS                  |
| MINIMUM INSTR RANGE:                             | 1E-11                            |
| MAXIMUM INSTR RANGE:                             | 1E-3                             |
| ZERO POINT REFERENCE:                            | N/A                              |
| REFERENCE POINT NOTES:                           | N/A                              |
| PROC OR SENS:                                    | S                                |
| NUMBER OF SENSOR:                                | 1                                |
| HOW PROCESSED:                                   | N/A                              |
| SENSOR LOCATIONS:                                | CORE BASKET AT 180 DEG           |
| ALARM/TRIP SETPOINTS:                            | 25% - HIGH                       |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                              |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                              |
| INSTRUMENT FAILURE MODE:                         | LOW                              |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y                                |
| REF_LEG:   | N/A                              |
| UNIQUE SYSTEM DESC.:                             | N/A                              |

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

|   |                                    |
|---|------------------------------------|
| DATE:   | 02/21/97                           |
| REACTOR UNIT:                                 | CT2                                |
| DATA FEEDER:                                  | N/A                                |
| NRC ERDS PARAMETER:                           | NI POWER RNG                       |
| POINT ID:                                     | C2P0738                            |
| PLANT SPEC POINT DESC:                        | U2 POWER RANGE AVG LEVEL AVG       |
| GENERIC/COND DESC:                            | NUCLEAR INSTRUMENTS/POWER RANGE    |
| ANALOG/DIGITAL:                               | A                                  |
| ENGR UNITS/DIG STATES:                        | %                                  |
| 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 SENSOR:                             | 4                                  |
| HOW PROCESSED:                                | AVG OF ALL P/R CHANNELS            |
| SENSOR LOCATIONS:                             | CORE BASKET 45, 135, 225, 315 DEGS |
| ALARM/TRIP SETPOINTS:                         | 109% - HIGH                        |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                |
| INSTRUMENT FAILURE MODE:                      | LOW                                |
| TEMPERATURE COMPENSATION FOR DP               | Y                                  |
| REF_LEG:                                      | N/A                                |
| UNIQUE SYSTEM DESC.:                          | N/A                                |

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

|   |                             |
|---|-----------------------------|
| DATE:   | 02/21/97                    |
| REACTOR UNIT:                                 | CT2                         |
| DATA FEEDER:                                  | N/A                         |
| NRC ERDS PARAMETER:                           | SG PRESS 1/A                |
| POINT ID:                                     | C2P1478                     |
| PLANT SPEC POINT DESC:                        | MAIN STEAM PRESSURE 2A      |
| GENERIC/COND DESC:                            | STEAM GENERATOR A PRESSURE  |
| ANALOG/DIGITAL:                               | A                           |
| ENGR UNITS/DIG STATES:                        | PSIA                        |
| ENGR UNITS CONVERSION:                        | N/A                         |
| MINIMUM INSTR RANGE:                          | 15                          |
| MAXIMUM INSTR RANGE:                          | 1315                        |
| ZERO POINT REFERENCE:                         | N/A                         |
| REFERENCE POINT NOTES:                        | N/A                         |
| PROC OR SENS:                                 | P                           |
| NUMBER OF SENSOR:                             | 3                           |
| HOW PROCESSED:                                | AVG                         |
| SENSOR LOCATIONS:                             | OUTLET OF STEAM GENERATOR A |
| ALARM/TRIP SETPOINTS:                         | 775 PSIG - LOW              |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                         |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                         |
| INSTRUMENT FAILURE MODE:                      | LOW                         |
| TEMPERATURE COMPENSATION FOR DP               | Y                           |
| REF_LEG:                                      | N/A                         |
| UNIQUE SYSTEM DESC.:                          | N/A                         |

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

|                          |                             |
|--------------------------|-----------------------------|
| DATE:                    | 02/21/97                    |
| REACTOR UNIT:            | CT2                         |
| DATA FEEDER:             | N/A                         |
| NRC ERDS PARAMETER:      | SG PRESS 2/B                |
| POINT ID:                | C2P1479                     |
| PLANT SPEC POINT DESC:   | MAIN STEAM PRESSURE 2B      |
| GENERIC/COND DESC:       | STEAM GENERATOR B PRESSURE  |
| ANALOG/DIGITAL:          | A                           |
| ENGR UNITS/DIG STATES:   | PSIA                        |
| ENGR UNITS CONVERSION:   | N/A                         |
| MINIMUM INSTR RANGE:     | 15                          |
| MAXIMUM INSTR RANGE:     | 1315                        |
| ZERO POINT REFERENCE:    | N/A                         |
| REFERENCE POINT NOTES:   | N/A                         |
| PROC OR SENS:            | P                           |
| NUMBER OF SENSOR:        | 3                           |
| HOW PROCESSED:           | AVG                         |
| SENSOR LOCATIONS:        | OUTLET OF STEAM GENERATOR B |
| ALARM/TRIP SETPOINTS:    | 775 PSIG - LOW              |
| NI DETECTOR POWER SUPPLY | N/A                         |
| CUT-OFF POWER LEVEL:     |                             |
| NI DETECTOR POWER SUPPLY | N/A                         |
| TURNON POWER LEVEL:      |                             |
| INSTRUMENT FAILURE MODE: | LOW                         |
| TEMPERATURE              | Y                           |
| COMPENSATION FOR DP      |                             |
| REF_LEG:                 | N/A                         |
| UNIQUE SYSTEM DESC.:     | N/A                         |

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

|   |                             |
|---|-----------------------------|
| DATE:   | 02/21/97                    |
| REACTOR UNIT:                                 | CT2                         |
| DATA FEEDER:                                  | N/A                         |
| NRC ERDS PARAMETER:                           | SG PRESS 3/C                |
| POINT ID:                                     | C2P1480                     |
| PLANT SPEC POINT DESC:                        | MAIN STEAM PRESSURE 2C      |
| GENERIC/COND DESC:                            | STEAM GENERATOR C PRESSURE  |
| ANALOG/DIGITAL:                               | A                           |
| ENGR UNITS/DIG STATES:                        | PSIA                        |
| ENGR UNITS CONVERSION:                        | N/A                         |
| MINIMUM INSTR RANGE:                          | 15                          |
| MAXIMUM INSTR RANGE:                          | 1315                        |
| ZERO POINT REFERENCE:                         | N/A                         |
| REFERENCE POINT NOTES:                        | N/A                         |
| PROC OR SENS:                                 | P                           |
| NUMBER OF SENSOR:                             | 3                           |
| HOW PROCESSED:                                | AVG                         |
| SENSOR LOCATIONS:                             | OUTLET OF STEAM GENERATOR C |
| ALARM/TRIP SETPOINTS:                         | 775 PSIG - LOW              |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                         |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                         |
| INSTRUMENT FAILURE MODE:                      | LOW                         |
| TEMPERATURE COMPENSATION FOR DP               | Y                           |
| REF_LEG:                                      | N/A                         |
| UNIQUE SYSTEM DESC.:                          | N/A                         |



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

|                          |                             |
|--------------------------|-----------------------------|
| DATE:                    | 02/21/97                    |
| REACTOR UNIT:            | CT2                         |
| DATA FEEDER:             | N/A                         |
| NRC ERDS PARAMETER:      | SG PRESS 4/D                |
| POINT ID:                | C2P1481                     |
| PLANT SPEC POINT DESC:   | MAIN STEAM PRESSURE 2D      |
| GENERIC/COND DESC:       | STEAM GENERATOR D PRESSURE  |
| ANALOG/DIGITAL:          | A                           |
| ENGR UNITS/DIG STATES:   | PSIA                        |
| ENGR UNITS CONVERSION:   | N/A                         |
| MINIMUM INSTR RANGE:     | 15                          |
| MAXIMUM INSTR RANGE:     | 1315                        |
| ZERO POINT REFERENCE:    | N/A                         |
| REFERENCE POINT NOTES:   | N/A                         |
| PROC OR SENS:            | P                           |
| NUMBER OF SENSOR:        | 3                           |
| HOW PROCESSED:           | AVG                         |
| SENSOR LOCATIONS:        | OUTLET OF STEAM GENERATOR D |
| ALARM/TRIP SETPOINTS:    | 775 PSIG - LOW              |
| NI DETECTOR POWER SUPPLY | N/A                         |
| CUT-OFF POWER LEVEL:     |                             |
| NI DETECTOR POWER SUPPLY | N/A                         |
| TURNON POWER LEVEL:      |                             |
| INSTRUMENT FAILURE MODE: | LOW                         |
| TEMPERATURE              | Y                           |
| COMPENSATION FOR DP      |                             |
| REF_LEG:                 | N/A                         |
| UNIQUE SYSTEM DESC.:     | N/A                         |

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

|  |                                     |
|--|-------------------------------------|
| DATE:  | 02/21/97                            |
| REACTOR UNIT:                                    | CT2                                 |
| DATA FEEDER:                                     | N/A                                 |
| NRC ERDS PARAMETER:                              | SG LEVEL 1/A                        |
| POINT ID:  | C2A0674                             |
| PLANT SPEC POINT DESC:                           | S/G 2A WIDE RANGE LEVEL             |
| GENERIC/COND DESC:                               | STEAM GENERATOR A WATER LEVEL       |
| ANALOG/DIGITAL:                                  | A                                   |
| ENGR UNITS/DIG STATES:                           | %                                   |
| ENGR UNITS CONVERSION:                           | 100% = 566.4 INCHES ABOVE TUBESHEET |
| MINIMUM INSTR RANGE:                             | 0                                   |
| MAXIMUM INSTR RANGE:                             | 100                                 |
| ZERO POINT REFERENCE:                            | TUBSHT                              |
| REFERENCE POINT NOTES:                           | 0% = 6.9 INCHES ABOVE TUBESHEET     |
| PROC OR SENS:                                    | S                                   |
| NUMBER OF SENSOR:                                | 1                                   |
| HOW PROCESSED:                                   | N/A                                 |
| SENSOR LOCATION(S):                              | TUBESHEET                           |
| ALARM/TRIP SETPOINTS:                            | N/A                                 |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                                 |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                                 |
| INSTRUMENT FAILURE MODE:                         | LOW                                 |
| TEMPERATURE<br>COMPENSATION FOR DP               | N                                   |
| REF_LEG:   | WET                                 |
| UNIQUE SYSTEM DESC.:                             | 59% = TOP OF S/G U-TUBES            |

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

|   |                                     |
|---|-------------------------------------|
| DATE:   | 02/21/97                            |
| REACTOR UNIT:                                 | CT2                                 |
| DATA FEEDER:                                  | N/A                                 |
| NRC ERDS PARAMETER:                           | SG LEVEL 2/B                        |
| POINT ID:                                     | C2A0680                             |
| PLANT SPEC POINT DESC:                        | S/G 2B WIDE RANGE LEVEL             |
| GENERIC/COND DESC:                            | STEAM GENERATOR B WATER LEVEL       |
| ANALOG/DIGITAL:                               | A                                   |
| ENGR UNITS/DIG STATES:                        | %                                   |
| ENGR UNITS CONVERSION:                        | 100% = 566.4 INCHES ABOVE TUBESHEET |
| MINIMUM INSTR RANGE:                          | 0                                   |
| MAXIMUM INSTR RANGE:                          | 100                                 |
| ZERO POINT REFERENCE:                         | TUBSHT                              |
| REFERENCE POINT NOTES:                        | 0% = 6.9 INCHES ABOVE TUBESHEET     |
| PROC OR SENS:                                 | S                                   |
| NUMBER OF SENSOR:                             | 1                                   |
| HOW PROCESSED:                                | N/A                                 |
| SENSOR LOCATIONS:                             | TUBESHEET                           |
| ALARM/TRIP SETPOINTS:                         | N/A                                 |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                 |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                 |
| INSTRUMENT FAILURE MODE:                      | LOW                                 |
| TEMPERATURE COMPENSATION FOR DP:              | N                                   |
| REF_LEG:                                      | WET                                 |
| UNIQUE SYSTEM DESC.:                          | 59% = TOP OF S/G U-TUBES            |

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

|  |                                     |
|--|-------------------------------------|
| DATE:  | 02/21/97                            |
| REACTOR UNIT:                                    | CT2                                 |
| DATA FEEDER:                                     | N/A                                 |
| NRC ERDS PARAMETER:                              | SG LEVEL 3/C                        |
| POINT ID:  | C2A0686                             |
| PLANT SPEC POINT DESC:                           | S/G 2C WIDE RANGE LEVEL             |
| GENERIC/COND DESC:                               | STEAM GENERATOR C WATER LEVEL       |
| ANALOG/DIGITAL:                                  | A                                   |
| ENGR UNITS/DIG STATES:                           | %                                   |
| ENGR UNITS CONVERSION:                           | 100% = 566.4 INCHES ABOVE TUBESHEET |
| MINIMUM INSTR RANGE:                             | 0                                   |
| MAXIMUM INSTR RANGE:                             | 100                                 |
| ZERO POINT REFERENCE:                            | TUBSHT                              |
| REFERENCE POINT NOTES:                           | 0% = 6.9 INCHES ABOVE TUBESHEET     |
| PROC OR SENS:                                    | S                                   |
| NUMBER OF SENSOR:                                | 1                                   |
| HOW PROCESSED:                                   | N/A                                 |
| SENSOR LOCATIONS:                                | TUBESHEET                           |
| ALARM/TRIP SETPOINTS:                            | N/A                                 |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                                 |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                                 |
| INSTRUMENT FAILURE MODE:                         | LOW                                 |
| TEMPERATURE<br>COMPENSATION FOR DP               | N                                   |
| REF_LEG:   | WET                                 |
| UNIQUE SYSTEM DESC.:                             | 59% = TOP OF S/G U-TUBES.           |

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

|   |                                     |
|---|-------------------------------------|
| DATE:   | 02/21/97                            |
| REACTOR UNIT:                                 | CT2                                 |
| DATA FEEDER:                                  | N/A                                 |
| NRC ERDS PARAMETER:                           | SG LEVEL 4/D                        |
| POINT ID:                                     | C2A0692                             |
| PLANT SPEC POINT DESC:                        | S/G 2D WIDE RANGE LEVEL             |
| GENERIC/COND DESC:                            | STEAM GENERATOR D WATER LEVEL       |
| ANALOG/DIGITAL:                               | A                                   |
| ENGR UNITS/DIG STATES:                        | %                                   |
| ENGR UNITS CONVERSION:                        | 100% = 566.4 INCHES ABOVE TUBESHEET |
| MINIMUM INSTR RANGE:                          | 0                                   |
| MAXIMUM INSTR RANGE:                          | 100                                 |
| ZERO POINT REFERENCE:                         | TUBSHT                              |
| REFERENCE POINT NOTES:                        | 0% = 6.9 INCHES ABOVE TUBESHEET     |
| PROC OR SENS:                                 | S                                   |
| NUMBER OF SENSOR:                             | 1                                   |
| HOW PROCESSED:                                | N/A                                 |
| SENSOR LOCATIONS:                             | TUBESHEET                           |
| ALARM/TRIP SETPOINTS:                         | N/A                                 |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                 |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                 |
| INSTRUMENT FAILURE MODE:                      | LOW                                 |
| TEMPERATURE COMPENSATION FOR DP               | N                                   |
| REF_LEG:                                      | WET                                 |
| UNIQUE SYSTEM DESC.:                          | 59% = TOP OF S/G U-TUBES            |

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

|   |                               |
|---|-------------------------------|
| DATE:   | 02/21/97                      |
| REACTOR UNIT:                                 | CT2                           |
| DATA FEEDER:                                  | N/A                           |
| NRC ERDS PARAMETER:                           | MN FD FL 1/A                  |
| POINT ID:                                     | C2P0154                       |
| PLANT SPEC POINT DESC:                        | S/G 2A FEEDWATER FLOW CH1     |
| 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:                          | 4.564                         |
| ZERO POINT REFERENCE:                         | N/A                           |
| REFERENCE POINT NOTES:                        | N/A                           |
| PROC OR SENS:                                 | P                             |
| NUMBER OF SENSOR:                             | 3                             |
| HOW PROCESSED:                                | FLOW CALC USING D/P, P, AND T |
| SENSOR LOCATIONS:                             | VENTURI ON FEEDWATER LINE     |
| ALARM/TRIP SETPOINTS:                         | N/A                           |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                           |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                           |
| INSTRUMENT FAILURE MODE:                      | LOW                           |
| TEMPERATURE COMPENSATION FOR DP               | Y                             |
| REF_LEG:                                      | N/A                           |
| UNIQUE SYSTEM DESC.:                          | N/A                           |

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

|                          |                               |
|--------------------------|-------------------------------|
| DATE:                    | 02/21/97                      |
| REACTOR UNIT:            | CT2                           |
| DATA FEEDER:             | N/A                           |
| NRC ERDS PARAMETER:      | MN FD FL 2/B                  |
| POINT ID:                | C2P0156                       |
| PLANT SPEC POINT DESC:   | S/G 2B FEEDWATER FLOW CH1     |
| 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:     | 4.564                         |
| ZERO POINT REFERENCE:    | N/A                           |
| REFERENCE POINT NOTES:   | N/A                           |
| PROC OR SENS:            | P                             |
| NUMBER OF SENSOR:        | 3                             |
| HOW PROCESSED:           | FLOW CALC USING D/P,T,AND P   |
| SENSOR LOCATIONS:        | VENTURI ON FEEDWATER LINE     |
| ALARM/TRIP SETPOINTS:    | N/A                           |
| NI DETECTOR POWER SUPPLY | N/A                           |
| CUT-OFF POWER LEVEL:     |                               |
| NI DETECTOR POWER SUPPLY | N/A                           |
| TURNON POWER LEVEL:      |                               |
| INSTRUMENT FAILURE MODE: | LOW                           |
| TEMPERATURE              | Y                             |
| COMPENSATION FOR DP      |                               |
| REF_LEG:                 | N/A                           |
| UNIQUE SYSTEM DESC.:     | N/A                           |



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

|   |                               |
|---|-------------------------------|
| DATE:   | 02/21/97                      |
| REACTOR UNIT:                                 | CT2                           |
| DATA FEEDER:                                  | N/A                           |
| NRC ERDS PARAMETER:                           | MN FD FL 3/C                  |
| POINT ID:                                     | C2P0158                       |
| PLANT SPEC POINT DESC:                        | S/G 2C FEEDWATER FLOW CH 1    |
| GENERIC/COND DESC:                            | STM GEN C MAIN FEEDWATER FLOW |
| ANALOG/DIGITAL:                               | A                             |
| ENGR UNITS/DIG STATUS:                        | MLB/HR                        |
| ENGR UNITS CONVERSION:                        | N/A                           |
| MINIMUM INSTR RANGE:                          | 0                             |
| MAXIMUM INSTR RANGE:                          | 4.564                         |
| ZERO POINT REFERENCE:                         | N/A                           |
| REFERENCE POINT NOTES:                        | N/A                           |
| PROC OR SENS:                                 | P                             |
| NUMBER OF SENSOR:                             | 3                             |
| HOW PROCESSED:                                | FLOW CALC USING D/P, P, AND T |
| SENSOR LOCATIONS:                             | VENTURI ON FEEDWATER LINE     |
| ALARM/TRIP SETPOINTS:                         | N/A                           |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                           |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                           |
| INSTRUMENT FAILURE MODE:                      | LOW                           |
| TEMPERATURE COMPENSATION FOR DP               | Y                             |
| REF_LEG:                                      | N/A                           |
| UNIQUE SYSTEM DESC.:                          | N/A                           |

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

|   |                               |
|---|-------------------------------|
| DATE:   | 02/21/97                      |
| REACTOR UNIT:                                 | CT2                           |
| DATA FEEDER:                                  | N/A                           |
| NRC ERDS PARAMETER:                           | MN FD FL 4/D                  |
| POINT ID:                                     | C2P0160                       |
| PLANT SPEC POINT DESC:                        | S/G 2D FEEDWATER FLOW CH1     |
| 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:                          | 4.564                         |
| ZERO POINT REFERENCE:                         | N/A                           |
| REFERENCE POINT NOTES:                        | N/A                           |
| PROC OR SENS:                                 | P                             |
| NUMBER OF SENSOR:                             | 3                             |
| HOW PROCESSED:                                | FLOW CALC USING D/P, P, AND T |
| SENSOR LOCATIONS:                             | VENTURI ON FEEDWATER LINE     |
| ALARM/TRIP SETPOINTS:                         | N/A                           |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                           |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                           |
| INSTRUMENT FAILURE MODE:                      | LOW                           |
| TEMPERATURE COMPENSATION FOR DP               | Y                             |
| REF_LEG:                                      | N/A                           |
| UNIQUE SYSTEM DESC.:                          | N/A                           |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | AX FD FL 1/A  |
| POINT ID:                                     | C2P0450   |
| PLANT SPEC POINT DESC:                        | S/G 2A NOZZLE FLOW, BEST                                    |
| 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:                          | 1450  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             | 2   |
| HOW PROCESSED:                                | SELECT FROM W/R & N/R INST.                                 |
| SENSOR LOCATIONS:                             | STEAM GENERATOR UPPER NOZZLE                                |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | SELECTS N/R INST. IF IN RANGE, OTHERWISE, SELECTS W/R INST. |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | AX FD FL 2/B  |
| POINT ID:                                     | C2P0451   |
| PLANT SPEC POINT DESC:                        | S/G 2B CA NOZZLE FLOW, BEST                                 |
| 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:                          | 1450  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             | 2   |
| HOW PROCESSED:                                | SELECT FROM W/R & N/R INST.                                 |
| SENSOR LOCATIONS:                             | STEAM GENERATOR UPPER NOZZLE                                |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | SELECTS N/R INST. IF IN RANGE, OTHERWISE, SELECTS W/R INST. |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | AX FD FL 3/C  |
| POINT ID:                                     | C2P0452   |
| PLANT SPEC POINT DESC:                        | S/G 2C CA NOZZLE FLOW, BEST                                 |
| 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:                          | 1450  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             | 2   |
| HOW PROCESSED:                                | SELECT FROM W/R & N/R INST.                                 |
| SENSOR LOCATIONS:                             | STEAM GENERATOR UPPER NOZZLE                                |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | SELECTS N/R INST. IF IN RANGE, OTHERWISE, SELECTS W/R INST. |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | AX FD FL 4/D  |
| POINT ID:  | C2P0453   |
| PLANT SPEC POINT DESC:                           | S/G 2D CA NOZZLE FLOW, BEST                                 |
| 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:                             | 1450  |
| ZERO POINT REFERENCE:                            | N/A   |
| REFERENCE POINT NOTES:                           | N/A   |
| PROC OR SENS:                                    | P   |
| NUMBER OF SENSOR:                                | 2   |
| HOW PROCESSED:                                   | SELECT FROM W/R & N/R INST.                                 |
| SENSOR LOCATIONS:                                | STEAM GENERATOR UPPER NOZZLE                                |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | LOW   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | N/A   |
| UNIQUE SYSTEM DESC.:                             | SELECTS N/R INST. IF IN RANGE, OTHERWISE, SELECTS W/R INST. |

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

|   |  |
|---|--|
| DATE:   | 02/21/97                                 |
| REACTOR UNIT:                                 | CT2                                      |
| DATA FEEDER:                                  | N/A                                      |
| NRC ERDS PARAMETER:                           | HP SI FLOW                               |
| POINT ID:                                     | C2P0968                                  |
| PLANT SPEC POINT DESC:                        | U2 CCP SI FLOW ONE MINUTE AVG            |
| GENERIC/COND DESC:                            | HIGH PRESS SAFETY INJECTION FLOW         |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | GPM                                      |
| ENGR UNITS CONVERSION:                        | N/A                                      |
| MINIMUM INSTR RANGE:                          | 0  |
| MAXIMUM INSTR RANGE:                          | 200.0                                    |
| ZERO POINT REFERENCE:                         | N/A                                      |
| REFERENCE POINT NOTES:                        | N/A                                      |
| PROC OR SENS:                                 | P  |
| NUMBER OF SENSOR:                             | 1  |
| HOW PROCESSED:                                | 1 MIN AVG                                |
| SENSOR LOCATIONS:                             | SI LINE TO COLD LEG FROM CENT CHARG PUMP |
| ALARM/TRIP SETPOINTS:                         | N/A                                      |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                      |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                      |
| INSTRUMENT FAILURE MODE:                      | LOW                                      |
| TEMPERATURE COMPENSATION FOR DP               | Y  |
| REF_LEG:                                      | N/A                                      |
| UNIQUE SYSTEM DESC.:                          | N/A                                      |



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

|                          |                                   |
|--------------------------|-----------------------------------|
| DATE:                    | 02/21/97                          |
| REACTOR UNIT:            | CT2                               |
| DATA FEEDER:             | N/A                               |
| NRC ERDS PARAMETER:      | INT SI FLOW                       |
| POINT ID:                | C2A1512                           |
| PLANT SPEC POINT DESC:   | NI PUMP 2A INJECTION FLOW         |
| GENERIC/COND DESC:       | INTERMDIATE PRES SAFETY INJ FLOW  |
| ANALOG/DIGITAL:          | A                                 |
| ENGR UNITS/DIG STATES:   | GPM                               |
| ENGR UNITS CONVERSION:   | N/A                               |
| MINIMUM INSTR RANGE:     | 0                                 |
| MAXIMUM INSTR RANGE:     | 800                               |
| ZERO POINT REFERENCE:    | N/A                               |
| REFERENCE POINT NOTES:   | N/A                               |
| PROC OR SENS:            | S                                 |
| NUMBER OF SENSOR:        | 1                                 |
| HOW PROCESSED:           | N/A                               |
| SENSOR LOCATIONS:        | DISCHARGE OF PUMP A AFTER RECIRC. |
| ALARM/TRIP SETPOINTS:    | N/A                               |
| NI DETECTOR POWER SUPPLY | N/A                               |
| CUT-OFF POWER LEVEL:     |                                   |
| NI DETECTOR POWER SUPPLY | N/A                               |
| TURNON POWER LEVEL:      |                                   |
| INSTRUMENT FAILURE MODE: | LOW                               |
| TEMPERATURE              | Y                                 |
| COMPENSATION FOR DP      |                                   |
| REF_LEG:                 | N/A                               |
| UNIQUE SYSTEM DESC.:     | N/A                               |

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

|  |                                   |
|--|-----------------------------------|
| DATE:  | 02/21/97                          |
| REACTOR UNIT:                                    | CT2                               |
| DATA FEEDER:                                     | N/A                               |
| NRC ERDS PARAMETER:                              | INT SI FLOW                       |
| POINT ID:  | C2A1518                           |
| PLANT SPEC POINT DESC:                           | NI PUMP 2B INJECTION FLOW         |
| GENERIC/COND DESC:                               | INTREMDIATE PRES SAFETY INJ FLOW  |
| ANALOG/DIGITAL:                                  | A                                 |
| ENGR UNITS/DIG STATES:                           | GPM                               |
| ENGR UNITS CONVERSION:                           | N/A                               |
| MINIMUM INSTR RANGE:                             | 0                                 |
| MAXIMUM INSTR RANGE:                             | 800                               |
| ZERO POINT REFERENCE:                            | N/A                               |
| REFERENCE POINT NOTES:                           | N/A                               |
| PROC OR SENS:                                    | S                                 |
| NUMBER OF SENSOR:                                | 1                                 |
| HOW PROCESSED:                                   | N/A                               |
| SENSOR LOCATIONS:                                | DISCHARGE OF PUMP B AFTER RECIRC. |
| ALARM/TRIP SETPOINTS:                            | N/A                               |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                               |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                               |
| INSTRUMENT FAILURE MODE:                         | LOW                               |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y                                 |
| REF_LEG:   | N/A                               |
| UNIQUE SYSTEM DESC.:                             | N/A                               |

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

|   |  |
|---|--|
| DATE:   | 02/21/97                                   |
| REACTOR UNIT:                                 | CT2  |
| DATA FEEDER:                                  | N/A  |
| NRC ERDS PARAMETER:                           | LP SI FLOW                                 |
| POINT ID:                                     | C2A0902                                    |
| PLANT SPEC POINT DESC:                        | ND TRAIN 2A INJ FLOW TO NC C & D COLD LEGS |
| GENERIC/COND DESC:                            | LOW PRESSURE SAFETY INJ FLOW               |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | GPM  |
| ENGR UNITS CONVERSION:                        | N/A  |
| MINIMUM INSTR RANGE:                          | 0  |
| MAXIMUM INSTR RANGE:                          | 4500                                       |
| ZERO POINT REFERENCE:                         | N/A  |
| REFERENCE POINT NOTES:                        | N/A  |
| PROC OR SENS:                                 | S  |
| NUMBER OF SENSOR:                             | 1  |
| HOW PROCESSED:                                | N/A  |
| SENSOR LOCATIONS:                             | COMMON LINE TO RCS LOOP C & D COLD LEGS    |
| ALARM/TRIP SETPOINTS:                         | LOW - 500 GPM                              |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A  |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A  |
| INSTRUMENT FAILURE MODE:                      | LOW  |
| TEMPERATURE COMPENSATION FOR DP               | Y  |
| REF_LEG:                                      | N/A  |
| UNIQUE SYSTEM DESC.:                          | N/A  |

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

|   |  |
|---|--|
| DATE:   | 02/21/97                                   |
| REACTOR UNIT:                                 | CT2  |
| DATA FEEDER:                                  | N/A  |
| NRC ERDS PARAMETER:                           | LP SI FLOW                                 |
| POINT ID:                                     | C2A0908                                    |
| PLANT SPEC POINT DESC:                        | ND TRAIN 2B INJ FLOW TO NC A & B COLD LEGS |
| GENERIC/COND DESC:                            | LOW PRESSURE SAFETY INJ FLOW               |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | GPM  |
| ENGR UNITS CONVERSION:                        | N/A  |
| MINIMUM INSTR RANGE:                          | 0  |
| MAXIMUM INSTR RANGE:                          | 4500                                       |
| ZERO POINT REFERENCE:                         | N/A  |
| REFERENCE POINT NOTES:                        | N/A  |
| PROC OR SENS:                                 | S  |
| NUMBER OF SENSOR:                             | 1  |
| HOW PROCESSED:                                | N/A  |
| SENSOR LOCATIONS:                             | COMMON LINE TO RCS LOOP A & B COLD LEGS    |
| ALARM/TRIP SETPOINTS:                         | LOW - 500 GPM                              |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A  |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A  |
| INSTRUMENT FAILURE MODE:                      | LOW  |
| TEMPERATURE COMPENSATION FOR DP               | Y  |
| REF_LEG:                                      | N/A  |
| UNIQUE SYSTEM DESC.:                          | N/A  |

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

|  |  |
|--|--|
| DATE:  | 02/21/97   |
| REACTOR UNIT:                                    | CT2  |
| DATA FEEDER:                                     | N/A  |
| NRC ERDS PARAMETER:                              | BWST LEVEL   |
| POINT ID:  | C2P1912  |
| PLANT SPEC POINT DESC:                           | U2 AVERAGE FWST LEVEL  |
| GENERIC/COND DESC:                               | BORATED WATER STORAGE TANK LEVEL                                 |
| ANALOG/DIGITAL:                                  | A  |
| ENGR UNITS/DIG STATES:                           | %  |
| ENGR UNITS CONVERSION:                           | 3770 GALLONS / %   |
| MINIMUM INSTR RANGE:                             | 0  |
| MAXIMUM INSTR RANGE:                             | 100  |
| ZERO POINT REFERENCE:                            | TNKBOT   |
| REFERENCE POINT NOTES:                           | 0% = 20 INCHES = 15,500 GALLONS                                  |
| PROC OR SENS:                                    | P  |
| NUMBER OF SENSOR:                                | 4  |
| HOW PROCESSED:                                   | AVG  |
| SENSOR LOCATIONS:                                | FROM 20" ABOVE BOTTOM TO TOP OF TANK                             |
| ALARM/TRIP SETPOINTS:                            | 11% - LOW  |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A  |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A  |
| INSTRUMENT FAILURE MODE:                         | LOW  |
| TEMPERATURE<br>COMPENSATION FOR DP               | N  |
| REF_LEG:   | WET  |
| UNIQUE SYSTEM DESC.:                             | REPLACES A1250. AVERAGES C1A1262, C1A1268, C1A1250, AND C1A1256. |

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

|   |                                       |
|---|---------------------------------------|
| DATE:   | 02/21/97                              |
| REACTOR UNIT:                                 | CT2                                   |
| DATA FEEDER:                                  | N/A                                   |
| NRC ERDS PARAMETER:                           | CTMNT PRESS                           |
| POINT ID:                                     | C2A1499                               |
| PLANT SPEC POINT DESC:                        | CONT W/R PRESS TRN 2A (-5 TO 60 PSIG) |
| GENERIC/COND DESC:                            | CONTAINMENT PRESSURE                  |
| ANALOG/DIGITAL:                               | A                                     |
| ENGR UNITS/DIG STATES:                        | PSIG                                  |
| ENGR UNITS CONVERSION:                        | N/A                                   |
| MINIMUM INSTR RANGE:                          | -5                                    |
| MAXIMUM INSTR RANGE:                          | 60                                    |
| ZERO POINT REFERENCE:                         | N/A                                   |
| REFERENCE POINT NOTES:                        | N/A                                   |
| PROC OR SENS:                                 | S                                     |
| NUMBER OF SENSOR:                             | 1                                     |
| HOW PROCESSED:                                | N/A                                   |
| SENSOR LOCATIONS:                             | LOWER REGION OF ICE CONDENSER CONT    |
| ALARM/TRIP SETPOINTS:                         | 1.2 PSIG - HIGH                       |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                   |
| INSTRUMENT FAILURE MODE:                      | LOW                                   |
| TEMPERATURE COMPENSATION FOR DP               | Y                                     |
| REF_LEG:                                      | N/A                                   |
| UNIQUE SYSTEM DESC.:                          | N/A                                   |

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

|   |  |
|---|--|
| DATE:   | 02/21/97                                 |
| REACTOR UNIT:                                 | CT2                                      |
| DATA FEEDER:                                  | N/A                                      |
| NRC ERDS PARAMETER:                           | CTMNT PRESS                              |
| POINT ID:                                     | C2A1515                                  |
| PLANT SPEC POINT DESC:                        | CONT W/R PRESSURE TRN 2B (-5 TO 60 PSIG) |
| GENERIC/COND DESC:                            | CONTAINMENT PRESSURE                     |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | PSIG                                     |
| ENGR UNITS CONVERSION:                        | N/A                                      |
| MINIMUM INSTR RANGE:                          | -5                                       |
| MAXIMUM INSTR RANGE:                          | 60                                       |
| ZERO POINT REFERENCE:                         | N/A                                      |
| REFERENCE POINT NOTES:                        | N/A                                      |
| PROC OR SENS:                                 | S  |
| NUMBER OF SENSOR:                             | 1  |
| HOW PROCESSED:                                | N/A                                      |
| SENSOR LOCATIONS:                             | LOWER REGION OF ICE CONDENSER CONT       |
| ALARM/TRIP SETPOINTS:                         | 1.2 PSIG - HIGH                          |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                      |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                      |
| INSTRUMENT FAILURE MODE:                      | LOW                                      |
| TEMPERATURE COMPENSATION FOR DP               | Y  |
| REF_LEG:                                      | N/A                                      |
| UNIQUE SYSTEM DESC.:                          | N/A                                      |



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

|  |   |
|--|---|
| DATE:  | 02/21/97                                |
| REACTOR UNIT:                                    | CT2                                     |
| DATA FEEDER:                                     | N/A                                     |
| NRC ERDS PARAMETER:                              | CTMNT TEMP                              |
| POINT ID:  | C2P1500                                 |
| PLANT SPEC POINT DESC:                           | U2 UPPER CONT AVG TEMP-OPERATING UNITS  |
| GENERIC/COND DESC:                               | CONTAINMENT TEMPERATURE                 |
| ANALOG/DIGITAL:                                  | A                                       |
| ENGR UNITS/DIG STATES:                           | DEGF                                    |
| ENGR UNITS CONVERSION:                           | N/A                                     |
| MINIMUM INSTR RANGE:                             | 0                                       |
| MAXIMUM INSTR RANGE:                             | 200                                     |
| ZERO POINT REFERENCE:                            | N/A                                     |
| REFERENCE POINT NOTES:                           | N/A                                     |
| PROC OR SENS:                                    | P                                       |
| NUMBER OF SENSOR:                                | 8                                       |
| HOW PROCESSED:                                   | AVG OF UP TO 4 TEMPS IF VENT UNIT IS ON |
| SENSOR LOCATIONS:                                | INLET TO UPPER CONTAINMENT VENT UNIT    |
| ALARM/TRIP SETPOINTS:                            | N/A                                     |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                                     |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                                     |
| INSTRUMENT FAILURE MODE:                         | N/A                                     |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y                                       |
| REF_LEG:   | N/A                                     |
| UNIQUE SYSTEM DESC.:                             | N/A                                     |

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

|   |   |
|---|---|
| DATE:   | 02/21/97                                |
| REACTOR UNIT:                                 | CT2                                     |
| DATA FEEDER:                                  | N/A                                     |
| NRC ERDS PARAMETER:                           | CTMNT TEMP                              |
| POINT ID:                                     | C2P1501                                 |
| PLANT SPEC POINT DESC:                        | U2 LOWER CONT AVG TEMP-OPERATING UNITS  |
| GENERIC/COND DESC:                            | CONTAINMENT TEMPERATURE                 |
| ANALOG/DIGITAL:                               | A                                       |
| ENGR UNITS/DIG STATES:                        | DEGF                                    |
| ENGR UNITS CONVERSION:                        | N/A                                     |
| MINIMUM INSTR RANGE:                          | 0                                       |
| MAXIMUM INSTR RANGE:                          | 200                                     |
| ZERO POINT REFERENCE:                         | N/A                                     |
| REFERENCE POINT NOTES:                        | N/A                                     |
| PROC OR SENS:                                 | P                                       |
| NUMBER OF SENSOR:                             | 8                                       |
| HOW PROCESSED:                                | AVG OF UP TO 4 TEMPS IF VENT UNIT IS ON |
| SENSOR LOCATIONS:                             | INLET TO LOWER CONTAINMENT VENT UNIT    |
| ALARM/TRIP SETPOINTS:                         | N/A                                     |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                     |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                     |
| INSTRUMENT FAILURE MODE:                      | N/A                                     |
| TEMPERATURE COMPENSATION FOR DP               | Y                                       |
| REF_LEG:                                      | N/A                                     |
| UNIQUE SYSTEM DESC.:                          | N/A                                     |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | H2 CONC   |
| POINT ID:  | C2A0939   |
| PLANT SPEC POINT DESC:                           | CONTAIN. HYDROGEN CONC. TRN 2A (0 TO 30%)   |
| GENERIC/COND DESC:                               | CONT HYDROGEN CONCENTRATION   |
| ANALOG/DIGITAL:                                  | A   |
| ENGR UNITS/DIG STATES:                           | %   |
| ENGR UNITS CONVERSION:                           | DRY CONCENTRATION   |
| MINIMUM INSTR RANGE:                             | C   |
| MAXIMUM INSTR RANGE:                             | 30  |
| ZERO POINT REFERENCE:                            | N/A   |
| REFERENCE POINT NOTES:                           | N/A   |
| PROC OR SENS:                                    | S   |
| NUMBER OF SENSOR:                                | 1   |
| HOW PROCESSED:                                   | N/A   |
| SENSOR LOCATIONS:                                | A TRAIN HYDROGEN ANALYZER   |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | LOW   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | N/A   |
| UNIQUE SYSTEM DESC.:                             | IT CAN SAMPLE FROM ANY ONE OR ALL OF THE FOLLOWING LOCATIONS:<br>1) UPPER CONTAINMENT<br>2) S/G B CAVITY<br>3) OPERATIONAL<br>LEVEL |

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

|                          |   |
|--------------------------|---|
| DATE:                    | 02/21/97  |
| REACTOR UNIT:            | CT2   |
| DATA FEEDER:             | N/A   |
| NRC ERDS PARAMETER:      | H2 CONC   |
| POINT ID:                | C2A0945   |
| PLANT SPEC POINT DESC:   | CONTAIN. HYDROGEN CONC. TRN 2B (0 TO 30%)   |
| GENERIC/COND DESC:       | CONT HYDROGEN CONCENTRATION   |
| ANALOG/DIGITAL:          | A   |
| ENGR UNITS/DIG STATES:   | %   |
| ENGR UNITS CONVERSION:   | DRY CONCENTRATION   |
| MINIMUM INSTR RANGE:     | 0   |
| MAXIMUM INSTR RANGE:     | 30  |
| ZERO POINT REFERENCE:    | N/A   |
| REFERENCE POINT NOTES:   | N/A   |
| PROC OR SENS:            | S   |
| NUMBER OF SENSOR:        | 1   |
| HOW PROCESSED:           | N/A   |
| SENSOR LOCATIONS:        | B TRAIN HYDROGEN ANALYZER   |
| ALARM/TRIP SETPOINTS:    | N/A   |
| NI DETECTOR POWER SUPPLY | N/A   |
| CUT-OFF POWER LEVEL:     |   |
| NI DETECTOR POWER SUPPLY | N/A   |
| TURNON POWER LEVEL:      |   |
| INSTRUMENT FAILURE MODE: | LOW   |
| TEMPERATURE              | Y   |
| COMPENSATION FOR DP      |   |
| REF_LEG:                 | N/A   |
| UNIQUE SYSTEM DESC.:     | IT CAN SAMPLE FROM ANY ONE OR ALL OF THE FOLLOWING LOCATIONS:<br>1) UPPER CONTAINMENT<br>2) S/G B CAVITY<br>3) OPERATIONAL<br>LEVEL |

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

|   |  |
|---|--|
| DATE:   | 02/21/97                                 |
| REACTOR UNIT:                                 | CT2                                      |
| DATA FEEDER:                                  | N/A                                      |
| NRC ERDS PARAMETER:                           | CTMNT SMP WR                             |
| POINT ID:                                     | C2A1418                                  |
| PLANT SPEC POINT DESC:                        | U2 CONT SUMP LEVEL A (0.5 TO 20.5 FT)    |
| GENER. COND DESC:                             | CONTAINMENT SUMP WIDE RNG LEVEL          |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | FT                                       |
| ENGR UNITS CONVERSION:                        | N/A                                      |
| MINIMUM INSTR RANGE:                          | 0.5                                      |
| MAXIMUM INSTR RANGE:                          | 20.5                                     |
| ZERO POINT REFERENCE:                         | CNTFLR                                   |
| REFERENCE POINT NOTES:                        | 50,000 GALLONS/FT; 0 FT = 40,000 GALLONS |
| PROC OR SENS:                                 | S  |
| NUMBER OF SENSOR:                             | 1  |
| HOW PROCESSED:                                | N/A                                      |
| SENSOR LOCATIONS:                             | SUMP IN BOTTOM OF CONTAINMENT            |
| ALARM/TRIP SETPOINTS:                         | N/A                                      |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                      |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                      |
| INSTRUMENT FAILURE MODE:                      | LOW                                      |
| TEMPERATURE COMPENSATION FOR DP               | N  |
| REF_LEG:                                      | N/A                                      |
| UNIQUE SYSTEM DESC.:                          | N/A                                      |

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

|  |  |
|--|--|
| DATE:  | 02/21/97                                 |
| REACTOR UNIT:                                    | CT2                                      |
| DATA FEEDER:                                     | N/A                                      |
| NRC ERDS PARAMETER:                              | CTMNT SMP WR                             |
| POINT ID:  | C2A1424                                  |
| PLANT SPEC POINT DESC:                           | U2 CONT SUMP LEVEL B (0.5 TO 20.5 FT)    |
| GENERIC/COND DESC:                               | CINTAINMENT SUMP WIDE RNG LEVEL          |
| ANALOG/DIGITAL:                                  | A  |
| ENGR UNITS/DIG STATES:                           | FT                                       |
| ENGR UNITS CONVERSION:                           | N/A                                      |
| MINIMUM INSTR RANGE:                             | 0.5                                      |
| MAXIMUM INSTR RANGE:                             | 20.5                                     |
| ZERO POINT REFERENCE:                            | CNTFLR                                   |
| REFERENCE POINT NOTES:                           | 50,000 GALLONS/FT; 0 FT = 40,000 GALLONS |
| PROC OR SENS:                                    | S  |
| NUMBER OF SENSOR:                                | 1  |
| HOW PROCESSED:                                   | N/A                                      |
| SENSOR LOCATIONS:                                | SUMP IN BOTTOM OF CONTAINMENT            |
| ALARM/TRIP SETPOINTS:                            | N/A                                      |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                                      |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                                      |
| INSTRUMENT FAILURE MODE:                         | LOW                                      |
| TEMPERATURE<br>COMPENSATION FOR DP               | N  |
| REF_LEG:   | N/A                                      |
| UNIQUE SYSTEM DESC.:                             | N/A                                      |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | RCS LTDN RAD                                    |
| POINT ID:                                     | C2P0128   |
| PLANT SPEC POINT DESC:                        | 2EMF-48 REACTOR COOLANT MONITOR                 |
| GENERIC/COND DESC:                            | RAD LEVEL OF THE RCS LETDWN LINE                |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | MR/HR   |
| ENGR UNITS CONVERSION:                        | ISOLATES ON ST (PHASE A) SIGNAL                 |
| MINIMUM INSTR RANGE:                          | -1  |
| MAXIMUM INSTR RANGE:                          | 1E7   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             | 4   |
| HOW PROCESSED:                                | SET INVALID IF CONTAINMENT ISOLATED             |
| SENSOR LOCATIONS:                             | RCS LOOP A & C HOTLEG                           |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | DATA FROM RADIATION MONITORING SYSTEM INTERFACE |



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

|   |  |
|---|--|
| DATE:   | 02/21/97                                 |
| REACTOR UNIT:                                 | CT2                                      |
| DATA FEEDER:                                  | N/A                                      |
| NRC ERDS PARAMETER:                           | CNTMNT RAD                               |
| POINT ID:                                     | C2A1308                                  |
| PLANT SPEC POINT DESC:                        | 2EMF-53A CONT HIGH RANGE MON TRN A       |
| GENERIC/COND DESC:                            | RADIATION LEVEL IN THE CONT              |
| 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:                                 | S  |
| NUMBER OF SENSOR:                             | 1  |
| HOW PROCESSED:                                | N/A                                      |
| SENSOR LOCATIONS:                             | LOWER CONTAINMENT NEAR RCS LOOP C HOTLEG |
| ALARM/TRIP SETPOINTS:                         | N/A                                      |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                      |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                      |
| INSTRUMENT FAILURE MODE:                      | LOW                                      |
| TEMPERATURE COMPENSATION FOR DP               | Y  |
| REF_LEG:                                      | N/A                                      |
| UNIQUE SYSTEM DESC.:                          | N/A                                      |

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

|   |  |
|---|--|
| DATE:   | 02/21/97                                 |
| REACTOR UNIT:                                 | CT2                                      |
| DATA FEEDER:                                  | N/A                                      |
| NRC ERDS PARAMETER:                           | CNTMNT RAD                               |
| POINT ID:                                     | C2A1314                                  |
| PLANT SPEC POINT DESC:                        | 2EMF-53B CONT HIGH RANGE MON TRAIN B     |
| GENERIC/COND DESC:                            | RADIATION LEVEL IN THE CONT              |
| 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:                                 | S  |
| NUMBER OF SENSOR:                             | 1  |
| HOW PROCESSED:                                | N/A                                      |
| SENSOR LOCATIONS:                             | LOWER CONTAINMENT NEAR RCS LOOP D HOTLEG |
| ALARM/TRIP SETPOINTS:                         | N/A                                      |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A                                      |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A                                      |
| INSTRUMENT FAILURE MODE:                      | LOW                                      |
| TEMPERATURE COMPENSATION FOR DP               | Y  |
| REF_LEG:                                      | N/A                                      |
| UNIQUE SYSTEM DESC.:                          | N/A                                      |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | COND A/E RAD  |
| POINT ID:                                     | C2E0111   |
| PLANT SPEC POINT DESC:                        | 2EMF-33 COND AIR EJECTOR EXHAUST                                  |
| GENERIC/COND DESC:                            | COND AIR EJECTOR RADIOACTIVITY                                    |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | CPM   |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 1E1   |
| MAXIMUM INSTR RANGE:                          | 1E7   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | S   |
| NUMBER OF SENSOR:                             | 1   |
| HOW PROCESSED:                                | N/A   |
| SENSOR LOCATIONS:                             | MEASURES EXHAUST OF 3 COND AIR EJECTORS                           |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | REPLACED A1410<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | EFF GAS RAD   |
| POINT ID:  | C2E0135   |
| PLANT SPEC POINT DESC:                           | 2EMF-36L UNIT VENT GAS MONITOR LOW                              |
| GENERIC/COND DESC:                               | RADIOACTIVITY OF RELEASED GAS                                   |
| ANALOG/DIGITAL:                                  | A   |
| ENGR UNITS/DIG STATES:                           | CPM   |
| ENGR UNITS CONVERSION:                           | XE133 CORREL FACTOR = 2.7E7 CPM/uCi/mL                          |
| MINIMUM INSTR RANGE:                             | 1E1   |
| MAXIMUM INSTR RANGE:                             | 1E7   |
| ZERO POINT REFERENCE:                            | N/A   |
| REFERENCE POINT NOTES:                           | N/A   |
| PROC OR SENS:                                    | S   |
| NUMBER OF SENSOR:                                | 1   |
| HOW PROCESSED:                                   | N/A   |
| SENSOR LOCATIONS:                                | UNIT VENT   |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | LOW   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | N/A   |
| UNIQUE SYSTEM DESC.:                             | REPLACES A0013. DATA FROM RADIATION MONITORING SYSTEM INTERFACE |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | EFF GAS RAD   |
| POINT ID:  | C2E0131   |
| PLANT SPEC POINT DESC:                           | 2EMF-36H UNIT VENT GAS MONITOR HIGH                               |
| GENERIC/COND DESC:                               | RADIOACTIVITY OF RELEASED GAS                                     |
| ANALOG/DIGITAL:                                  | A   |
| ENGR UNITS/DIG STATES:                           | CPM   |
| ENGR UNITS CONVERSION:                           | APPROX. 2.0E-4 (uCi/CC)/CPM                                       |
| MINIMUM INSTR RANGE:                             | 1E1   |
| MAXIMUM INSTR RANGE:                             | 1E6   |
| ZERO POINT REFERENCE:                            | N/A   |
| REFERENCE POINT NOTES:                           | N/A   |
| PROC OR SENS:                                    | S   |
| NUMBER OF SENSOR:                                | 1   |
| HOW PROCESSED:                                   | N/A   |
| SENSOR LOCATIONS:                                | UNIT VENT   |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | LOW   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | N/A   |
| UNIQUE SYSTEM DESC.:                             | REPLACES A0010<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | EFF LIQ RAD   |
| POINT ID:  | C2E0263D1   |
| PLANT SPEC POINT DESC:                           | EMF49L WASTE LIQUID DISCHARGE                                     |
| GENERIC/COND DESC:                               | RADIOACTIVITY OF RELEASED LIQUID                                  |
| ANALOG/DIGITAL:                                  | A   |
| ENGR UNITS/DIG STATES:                           | CPM   |
| ENGR UNITS CONVERSION:                           | 2.9E-9 (uCi/CC)/CPM   |
| MINIMUM INSTR RANGE:                             | 1E1   |
| MAXIMUM INSTR RANGE:                             | 1E7   |
| ZERO POINT REFERENCE:                            | N/A   |
| REFERENCE POINT NOTES:                           | N/A   |
| PROC OR SENS:                                    | S   |
| NUMBER OF SENSOR:                                | 1   |
| HOW PROCESSED:                                   | N/A   |
| SENSOR LOCATIONS:                                | DISCHARGE LINE FROM LIQUID WASTE SYSTEM                           |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | LOW   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | N/A   |
| UNIQUE SYSTEM DESC.:                             | REPLACES A0036<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | EFF LIQ RAD   |
| POINT ID:                                     | C2E0259D1   |
| PLANT SPEC POINT DESC:                        | EMF49H WASTE LIQUID DISCHARGE   |
| GENERIC/COND DESC:                            | RADIOACTIVITY OF RELEASED LIQUID  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | CPM   |
| ENGR UNITS CONVERSION:                        | 2.9E-4 (uCi/CC)/CPM   |
| MINIMUM INSTR RANGE:                          | 1E1   |
| MAXIMUM INSTR RANGE:                          | 1E7   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | S   |
| NUMBER OF SENSOR:                             | 1   |
| HOW PROCESSED:                                | N/A   |
| SENSOR LOCATIONS:                             | DISCHARGE LINE FROM LIQUID WASTE SYSTEM   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | REPLACES A0042<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE. DATALINKED FROM UNIT 1 |



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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | MAIN SL 1/A   |
| POINT ID:                                     | C2E0321   |
| PLANT SPEC POINT DESC:                        | 2EMF-10 STEAMLINE 2A RAD MONITOR  |
| GENERIC/COND DESC:                            | STM GEN A STEAM LINE RAD LEVEL  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | MR/HR   |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | .1  |
| MAXIMUM INSTR RANGE:                          | 10000   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | S   |
| NUMBER OF SENSOR:                             | 1   |
| HOW PROCESSED:                                | N/A   |
| SENSOR LOCATIONS:                             | STEAMLINE A AFTER EXITING CONT BLDG   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP:              | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | REPLACES A1008<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE. DATALINKED FROM UNIT 1 |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | MAIN SL 2/B   |
| POINT ID:                                     | C2E0037   |
| PLANT SPEC POINT DESC:                        | 2EMF-11 STEAMLINE 2B RADIATION MONITOR                            |
| GENERIC/COND DESC:                            | STM GEN B STEAM LINE RAD LEVEL                                    |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | MR/HR   |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 1   |
| MAXIMUM INSTR RANGE:                          | 10000   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | S   |
| NUMBER OF SENSOR:                             | 1   |
| HOW PROCESSED:                                | N/A   |
| SENSOR LOCATIONS:                             | STEAMLINE B AFTER EXITING CONT BLDG                               |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | REPLACES A1014<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | MAIN SL 3/C   |
| POINT ID:                                     | C2E0042   |
| PLANT SPEC POINT DESC:                        | 2EMF-12 STEAMLINE 2C RADIATION MONITOR                            |
| GENERIC/COND DESC:                            | STM GEN C STEAM LINE RAD LEVEL                                    |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | MR/HR   |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 1   |
| MAXIMUM INSTR RANGE:                          | 10000   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | S   |
| NUMBER OF SENSOR:                             | 1   |
| HOW PROCESSED:                                | N/A   |
| SENSOR LOCATIONS:                             | STEAMLINE C AFTER EXITING CONT BLDG                               |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | REPLACES A1020<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | MAIN SL 4/D   |
| POINT ID:                                     | C2E0047   |
| PLANT SPEC POINT DESC:                        | 2EMF-13 STEAMLINE 2D RADIATION MONITOR                            |
| GENERIC/COND DESC:                            | STM GEN D STEAM LINE RAD LEVEL                                    |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | MR/HR   |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 1   |
| MAXIMUM INSTR RANGE:                          | 10000   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | S   |
| NUMBER OF SENSOR:                             | 1   |
| HOW PROCESSED:                                | N/A   |
| SENSOR LOCATIONS:                             | STEAMLINE D AFTER EXITING CONT BLDG                               |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | REPLACES A1026<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | SG BD RAD   |
| POINT ID:                                     | C2E0115   |
| PLANT SPEC POINT DESC:                        | 2EMF-34H STEAM GENERATOR WATER SAMPLE HIGH                        |
| GENERIC/COND DESC:                            | STM GEN BLOWDOWN RAD LEVEL  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | CPM   |
| ENGR UNITS CONVERSION:                        | 2.9E-4 (uCi/CC)/CPM   |
| MINIMUM INSTR RANGE:                          | 1E1   |
| MAXIMUM INSTR RANGE:                          | 1E6   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | S   |
| NUMBER OF SENSOR:                             | 1   |
| HOW PROCESSED:                                | N/A   |
| SENSOR LOCATIONS:                             | COMMON SAMPLING LINE FROM ALL 4 S/G                               |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | REPLACES A0930<br>DATA FROM RADIATION MONITORING SYSTEM INTERFACE |

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

|  |   |
|--|---|
| DATE:  | 02/21/97  |
| REACTOR UNIT:                                    | CT2   |
| DATA FEEDER:                                     | N/A   |
| NRC ERDS PARAMETER:                              | WIND SPEED  |
| POINT ID:  | C2P0251   |
| PLANT SPEC POINT DESC:                           | UPPER WINDSPEED 15 MIN RUN AVG                          |
| GENERIC/COND DESC:                               | WIND SPEED AT THE REACTOR SITE                          |
| ANALOG/DIGITAL:                                  | A   |
| ENGR UNITS/DIG STATES:                           | MPH   |
| ENGR UNITS CONVERSION:                           | N/A   |
| MINIMUM INSTR RANGE:                             | 0   |
| MAXIMUM INSTR RANGE:                             | 90  |
| ZERO POINT REFERENCE:                            | N/A   |
| REFERENCE POINT NOTES:                           | N/A   |
| PROC OR SENS:                                    | P   |
| NUMBER OF SENSOR:                                | 1   |
| HOW PROCESSED:                                   | 15 MIN RUNNING AVG                                      |
| SENSOR LOCATIONS:                                | METEOROLOGICAL TOWER                                    |
| ALARM/TRIP SETPOINTS:                            | N/A   |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                         | LOW   |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y   |
| REF_LEG:   | N/A   |
| UNIQUE SYSTEM DESC.:                             | REPLACES P0251<br>changed max instr range from 60 to 90 |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           | WIND DIR  |
| POINT ID:                                     | C2P0250   |
| PLANT SPEC POINT DESC:                        | UPPER WIND DIRECTION 15 MIN RUN AVG               |
| GENERIC/COND DESC:                            | WIND DIRECT AT THE REACTOR SITE                   |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | DEG   |
| ENGR UNITS CONVERSION:                        | MEASURED AS WIND "FROM" DIRECTION                 |
| MINIMUM INSTR RANGE:                          | 0   |
| MAXIMUM INSTR RANGE:                          | 540   |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             | 1   |
| HOW PROCESSED:                                | 15 MIN RUNNING AVG                                |
| SENSOR LOCATIONS:                             | METEOROLOGICAL TOWER                              |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | LOW   |
| TEMPERATURE COMPENSATION FOR DP               | Y   |
| REF_LEG:                                      | N/A   |
| UNIQUE SYSTEM DESC.:                          | REPLACES P0250<br>DATALINKED FROM UNIT 2 COMPUTER |



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

|  |  |
|--|--|
| DATE:  | 02/21/97                                 |
| REACTOR UNIT:                                    | CT2                                      |
| DATA FEEDER:                                     | N/A                                      |
| NRC ERDS PARAMETER:                              | STABCLASS                                |
| POINT ID:  | C2P0254                                  |
| PLANT SPEC POINT DESC:                           | AMB AIR D/T ELE 660 & 827 15 MIN RUN AVG |
| GENERIC/COND DESC:                               | AIR STABILITY AT REACTOR SITE            |
| ANALOG/DIGITAL:                                  | A  |
| ENGR UNITS/DIG STATES:                           | DEGC                                     |
| ENGR UNITS CONVERSION:                           | N/A                                      |
| MINIMUM INSTR RANGE:                             | -25                                      |
| MAXIMUM INSTR RANGE:                             | +25                                      |
| ZERO POINT REFERENCE:                            | N/A                                      |
| REFERENCE POINT NOTES:                           | N/A                                      |
| PROC OR SENS:                                    | S  |
| NUMBER OF SENSOR:                                | 1  |
| HOW PROCESSED:                                   | N/A                                      |
| SENSOR LOCATIONS:                                | METEOROLOGICAL TOWER                     |
| ALARM/TRIP SETPOINTS:                            | N/A                                      |
| NI DETECTOR POWER SUPPLY<br>CUT-OFF POWER LEVEL: | N/A                                      |
| NI DETECTOR POWER SUPPLY<br>TURNON POWER LEVEL:  | N/A                                      |
| INSTRUMENT FAILURE MODE:                         | LOW                                      |
| TEMPERATURE<br>COMPENSATION FOR DP               | Y  |
| REF_LEG:   | N/A                                      |
| UNIQUE SYSTEM DESC.:                             | REPLACES P0254                           |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           |   |
| POINT ID:                                     | C2Q4333   |
| PLANT SPEC POINT DESC:                        | U2 SPDS SUBCRITICALITY CSF TREE STATUS  |
| GENERIC/COND DESC:                            | NOT LISTED  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | STATUS  |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 0   |
| MAXIMUM INSTR RANGE:                          | 15  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        |   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             |   |
| HOW PROCESSED:                                | LOGIC   |
| SENSOR LOCATIONS:                             | N/A   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | N/A   |
| TEMPERATURE COMPENSATION FOR DP               | N   |
| REF_LEG:                                      | N   |
| UNIQUE SYSTEM DESC.:                          | MULTI-STATE DIGITAL POINT, INTEGER VALUE 0-15 REPRESENTING STATUS.<br>0 = INVALID 4 = GREEN 8 = INVALID 12 = FLASH GREEN<br>1 = RED 5 = MAGENTA 9 = FLASH-RED 13 = FLASH MAGENTA<br>2 = ORANGE 6 = INVALID 10 = FLASH-ORANGE 14 = INVALID<br>3 = YELLOW 7 = INVALID 11 = FLASH YELLOW 15 = INVALID<br>(FASH MEANS UNACKNOWLEDGED) |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           |   |
| POINT ID:                                     | C2Q4338   |
| PLANT SPEC POINT DESC:                        | U2 SPDS CORE COOLING CSF TREE STATUS  |
| GENERIC/COND DESC:                            | NOT LISTED  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | STATUS  |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 0   |
| MAXIMUM INSTR RANGE:                          | 15  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        |   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             |   |
| HOW PROCESSED:                                | LOGIC   |
| SENSOR LOCATIONS:                             | N/A   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | N/A   |
| TEMPERATURE COMPENSATION FOR DP               | N   |
| REF_LEG:                                      | N   |
| UNIQUE SYSTEM DESC.:                          | MULTI-STATE DIGITAL POINT, INTEGER VALUE 0-15 REPRESENTING STATUS.<br>0 = INVALID 4 = GREEN 8 = INVALID 12 = FLASH GREEN<br>1 = RED 5 = MAGENTA 9 = FLASH-RED 13 = FLASH MAGENTA<br>2 = ORANGE 6 = INVALID 10 = FLASH-ORANGE 14 = INVALID<br>3 = YELLOW 7 = INVALID 11 = FLASH YELLOW 15 = INVALID<br>(FASH MEANS UNACKNOWLEDGED) |

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

|   |  |
|---|--|
| DATE:   | 02/21/97   |
| REACTOR UNIT:                                 | CT2  |
| DATA FEEDER:                                  | N/A  |
| NRC ERDS PARAMETER:                           |  |
| POINT ID:                                     | C2Q4343  |
| PLANT SPEC POINT DESC:                        | U2 SPDS HEAT SINK CSF TREE STATUS  |
| GENERIC/COND DESC:                            | NOT LISTED   |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | STATUS   |
| ENGR UNITS CONVERSION:                        | N/A  |
| MINIMUM INSTR RANGE:                          | 0  |
| MAXIMUM INSTR RANGE:                          | 15   |
| ZERO POINT REFERENCE:                         | N/A  |
| REFERENCE POINT NOTES:                        | N/A  |
| PROC OR SENS:                                 | P  |
| NUMBER OF SENSOR:                             |  |
| HOW PROCESSED:                                | LOGIC  |
| SENSOR LOCATIONS:                             | N/A  |
| ALARM/TRIP SETPOINTS:                         | N/A  |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A  |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A  |
| INSTRUMENT FAILURE MODE:                      | N/A  |
| TEMPERATURE COMPENSATION FOR DP               | N  |
| REF_LEG:                                      | N  |
| UNIQUE SYSTEM DESC.:                          | MULTI-STATE DIGITAL POINT, INTEGER VALUE 0-15 REPRESENTING STATUS.<br>0 = INVALID 4 = GREEN 8 = INVALID 12 = FLASH GREEN<br>1 = RED 5 = MAGENTA 9 = FLASH-RED 13 = FLASH MAGENTA<br>2 = ORANGE 6 = INVALID 10 = FLASH-ORANGE 14 = INVALID<br>3 = YELLOW 7 = INVALID 11 = FLASH YELLOW 15 = INVALID<br>(FLASH MEANS UNACKNOWLEDGED) |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           |   |
| POINT ID:                                     | C2Q4348   |
| PLANT SPEC POINT DESC:                        | U2 SPDS NC INTEGRITY CSF TREE STAT  |
| GENERIC/COND DESC:                            | NOT LISTED  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | STATUS  |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 0   |
| MAXIMUM INSTR RANGE:                          | 15  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             |   |
| HOW PROCESSED:                                | LOGIC   |
| SENSOR LOCATIONS:                             | N/A   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | N/A   |
| TEMPERATURE COMPENSATION FOR DP               | N   |
| REF_LEG:                                      | N   |
| UNIQUE SYSTEM DESC.:                          | MULTI-STATE DIGITAL POINT, INTEGER VALUE 0-15 REPRESENTING STATUS.<br>0 = INVALID 4 = GREEN 8 = INVALID 12 = FLASH GREEN<br>1 = RED 5 = MAGENTA 9 = FLASH-RED 13 = FLASH MAGENTA<br>2 = ORANGE 6 = INVALID 10 = FLASH-ORANGE 14 = INVALID<br>3 = YELLOW 7 = INVALID 11 = FLASH YELLOW 15 = INVALID<br>(FASH MEANS UNACKNOWLEDGED) |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           |   |
| POINT ID:                                     | C2Q4353   |
| PLANT SPEC POINT DESC:                        | U2 SPDS CONT INTEGRITY CSF TREE STATUS  |
| GENERIC/COND DESC:                            | NOT LISTED  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | STATUS  |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 0   |
| MAXIMUM INSTR RANGE:                          | 15  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | A   |
| NUMBER OF SENSOR:                             |   |
| HOW PROCESSED:                                | LOGIC   |
| SENSOR LOCATIONS:                             | N/A   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | N/A   |
| TEMPERATURE COMPENSATION FOR DP               | N   |
| REF_LEG:                                      | N   |
| UNIQUE SYSTEM DESC.:                          | MULTI-STATE DIGITAL POINT, INTEGER VALUE 0-15 REPRESENTING STATUS.<br>0 = INVALID 4 = GREEN 8 = INVALID 12 = FLASH GREEN<br>1 = RED 5 = MAGENTA 9 = FLASH-RED 13 = FLASH MAGENTA<br>2 = ORANGE 6 = INVALID 10 = FLASH-ORANGE 14 = INVALID<br>3 = YELLOW 7 = INVALID 11 = FLASH YELLOW 15 = INVALID<br>(FASH MEANS UNACKNOWLEDGED) |

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

|   |  |
|---|--|
| DATE:   | 02/21/97   |
| REACTOR UNIT:                                 | CT2  |
| DATA FEEDER:                                  | N/A  |
| NRC ERDS PARAMETER:                           |  |
| POINT ID:                                     | C2Q4358  |
| PLANT SPEC POINT DESC:                        | U2 SPDS NC INVENTORY CSF TREE STATUS   |
| GENERIC/COND DESC:                            | NOT LISTED   |
| ANALOG/DIGITAL:                               | A  |
| ENGR UNITS/DIG STATES:                        | STATUS   |
| ENGR UNITS CONVERSION:                        | N/A  |
| MINIMUM INSTR RANGE:                          | 0  |
| MAXIMUM INSTR RANGE:                          | 15   |
| ZERO POINT REFERENCE:                         | N/A  |
| REFERENCE POINT NOTES:                        | N/A  |
| PROC OR SENS:                                 | N  |
| NUMBER OF SENSOR:                             |  |
| HOW PROCESSED:                                | LOGIC  |
| SENSOR LOCATIONS:                             | N/A  |
| ALARM/TRIP SETPOINTS:                         | N/A  |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A  |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A  |
| INSTRUMENT FAILURE MODE:                      | N/A  |
| TEMPERATURE COMPENSATION FOR DP               | N  |
| REF_LEG:                                      | N  |
| UNIQUE SYSTEM DESC.:                          | MULTI-STATE DIGITAL POINT, INTEGER VALUE 0-15 REPRESENTING STATUS<br>0 = INVALID 4 = GREEN 8 = INVALID 12 = FLASH GREEN<br>1 = RED 5 = MAGENTA 9 = FLASH-RED 13 = FLASH MAGENTA<br>2 = ORANGE 6 = INVALID 10 = FLASH-ORANGE 14 = INVALID<br>3 = YELLOW 7 = INVALID 11 = FLASH YELLOW 15 = INVALID<br>(FASH MEANS UNACKNOWLEDGED) |



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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           |   |
| POINT ID:                                     | C2Q4771   |
| PLANT SPEC POINT DESC:                        | U2 SPDS ND FLOW CSF TREE STATUS   |
| GENERIC/COND DESC:                            | NOT LISTED  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | STATUS  |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 0   |
| MAXIMUM INSTR RANGE:                          | 15  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             |   |
| HOW PROCESSED:                                | LOGIC   |
| SENSOR LOCATIONS:                             | N/A   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | N/A   |
| TEMPERATURE COMPENSATION FOR DP:              | N   |
| REF_LEG:                                      | N   |
| UNIQUE SYSTEM DESC.:                          | MULTI-STATE DIGITAL POINT, INTEGER VALUE 0-15 REPRESENTING STATUS.<br>0 = INVALID 4 = GREEN 8 = INVALID 12 = FLASH GREEN<br>1 = RED 5 = MAGENTA 9 = FLASH-RED 13 = FLASH MAGENTA<br>2 = ORANGE 6 = INVALID 10 = FLASH-ORANGE 14 = INVALID<br>3 = YELLOW 7 = INVALID 11 = FLASH YELLOW 15 = INVALID<br>(FASH MEANS UNACKNOWLEDGED) |

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

|   |   |
|---|---|
| DATE:   | 02/21/97  |
| REACTOR UNIT:                                 | CT2   |
| DATA FEEDER:                                  | N/A   |
| NRC ERDS PARAMETER:                           |   |
| POINT ID:                                     | C2Q4776   |
| PLANT SPEC POINT DESC:                        | U2 SPDS RADIATION CSF TREE STATUS   |
| GENERIC/COND DESC:                            | NOT LISTED  |
| ANALOG/DIGITAL:                               | A   |
| ENGR UNITS/DIG STATES:                        | STATUS  |
| ENGR UNITS CONVERSION:                        | N/A   |
| MINIMUM INSTR RANGE:                          | 0   |
| MAXIMUM INSTR RANGE:                          | 15  |
| ZERO POINT REFERENCE:                         | N/A   |
| REFERENCE POINT NOTES:                        | N/A   |
| PROC OR SENS:                                 | P   |
| NUMBER OF SENSOR:                             |   |
| HOW PROCESSED:                                | LOGIC   |
| SENSOR LOCATIONS:                             | N/A   |
| ALARM/TRIP SETPOINTS:                         | N/A   |
| NI DETECTOR POWER SUPPLY CUT-OFF POWER LEVEL: | N/A   |
| NI DETECTOR POWER SUPPLY TURNON POWER LEVEL:  | N/A   |
| INSTRUMENT FAILURE MODE:                      | N/A   |
| TEMPERATURE COMPENSATION FOR DP               | N   |
| REF_LEG:                                      | N   |
| UNIQUE SYSTEM DESC.:                          | MULTI-STATE DIGITAL POINT, INTEGER VALUE 0-15 REPRESENTING STATUS<br>0 = INVALID 4 = GREEN 8 = INVALID 12 = FLASH GREEN<br>1 = RED 5 = MAGENTA 9 = FLASH-RED 13 = FLASH MAGENTA<br>2 = ORANGE 6 = INVALID 10 = FLASH-ORANGE 14 = INVALID<br>3 = YELLOW 7 = INVALID 11 = FLASH YELLOW 15 = INVALID<br>(FASH MEANS UI ACKNOWLEDGED) |

| z pid   | z pci | dbsec | z techs | z plfsys | z desc                                  | z remarks 4 |
|---------|-------|-------|---------|----------|---|-------------|
| C2P0440 | TR    | 3     | SM      |          | S/G 2A MAIN STEAM FLOW CH 1 AVERAGE     |             |
| C2P0441 | TR    | 3     | SM      |          | S/G 2A MAIN STEAM FLOW CH 2 AVERAGE     |             |
| C2P0442 | TR    | 3     | SM      |          | S/G 2B MAIN STEAM FLOW CH 1 AVERAGE     |             |
| C2P0443 | TR    | 3     | SM      |          | S/G 2B MAIN STEAM FLOW CH 2 AVERAGE     |             |
| C2P0444 | TR    | 3     | SM      |          | S/G 2C MAIN STEAM FLOW CH 1 AVERAGE     |             |
| C2P0445 | TR    | 3     | SM      |          | S/G 2C MAIN STEAM FLOW CH 2 AVERAGE     |             |
| C2P0446 | TR    | 3     | SM      |          | S/G 2D MAIN STEAM FLOW CH 1 AVERAGE     |             |
| C2P0447 | TR    | 3     | SM      |          | S/G 2D MAIN STEAM FLOW CH 2 AVERAGE     |             |
| C2P0450 | PA    | 3     | CA      |          | S/G 2A CA NOZZLE FLOW, BEST             |             |
| C2P0451 | PA    | 3     | CA      |          | S/G 2B CA NOZZLE FLOW, BEST             |             |
| C2P0452 | PA    | 3     | CA      |          | S/G 2C CA NOZZLE FLOW, BEST             |             |
| C2P0453 | PA    | 3     | CA      |          | S/G 2D CA NOZZLE FLOW, BEST             |             |
| C2P1064 | XR    | 3R    | ENB     |          | N-31 SOURCE RANGE STARTUP RATE          |             |
| C2P1065 | XR    | 3R    | ENB     |          | N-32 SOURCE RANGE STARTUP RATE          |             |
| C2P1066 | XR    | 3R    | ENB     |          | N-35 INTERMEDIATE RANGE STARTUP RATE    |             |
| C2P1067 | XR    | 3R    | ENB     |          | N-36 INTERMEDIATE RANGE STARTUP RATE    |             |
| C2P1521 | TR    | 3T    | RL      |          | AVG LOW PRESS SERVICE WTR INLET TEMP    |             |
| C2P2376 | XR    | 2     | CORE    |          | ESTIMATED SHIFT AVG PWR AT END OF SHIFT |             |
| C2P4250 | PA    | 0     | RN      |          | RN PMP 2A MOTOR LOWER BRG TEMP RATE     |             |
| C2P4251 | PA    | 0     | RN      |          | RN PMP 2A MOTOR UPPER BRG TEMP RATE     |             |
| C2P4252 | PA    | 0     | RN      |          | RN PMP 2A MOTOR STATOR TEMP RATE        |             |
| C2P4253 | PA    | 0     | RN      |          | RN PMP 2B MOTOR LOWER BRG TEMP RATE     |             |
| C2P4254 | PA    | 0     | RN      |          | RN PMP 2B MOTOR UPPER BRG TEMP RATE     |             |
| C2P4255 | PA    | 0     | RN      |          | RN PMP 2B MOTOR STATOR TEMP RATE        |             |

Welcome to OpenVMS AXP (TM) Operating

Username: CNS

Password:

Duke Power  
Duke Power  
Catawba Unit 1  
DB/CM Server

cns0cm.dukepower

\*\*\*\*\*

Notes:

|           |                       |
|-----------|-----------------------|
| Disks:    | SYSDISK & DISK\$SAIPM |
| Floppy:   | FLOPPY0: .....        |
| CD:       | CD0: .....            |
| Tape:     | TAPE0: .....          |
| Printers: | SYSPRINT .....        |
|           | LP02, LP03, LP04, LPO |
|           | CP02 .....            |
| Software: | TCP/IP, FORTRAN, C++, |

\*\*\*\*\*

Last interactive login on Thursday, 20-FE  
Last non-interactive login on Wednesday,

Welcome to OpenVMS AXP (TM) Operating System, Version V6.2

Username: CNS

Password:

Duke Power  
Duke Power  
Catawba Unit 1  
DB/CM Server

cns0cm.dukepower.com

\*\*\*\*\*

Notes:

|           |   |            |        |
|-----------|---|------------|--------|
| Disks:    | SYSSDISK & DISK\$SAIPMS .....             | RZ28       | 2GB    |
| Floppy:   | FLOPPY0: .....                            | RX26       | 2.88MB |
| CD:       | CD0: .....                                | RRD43      | 600MB  |
| Tape:     | TAPE0: .....                              | TLZ06      | 4GB    |
| Printers: | SYSSPRINT .....                           | LA75+      |        |
|           | LP02, LP03, LP04, LP05 .....              | HP LJ4si   |        |
|           | CP02 .....                                | HP DJ1200c |        |
| Software: | TCP/IP, FORTRAN, C++, C++ class libraries |            |        |

\*\*\*\*\*

Last interactive login on Thursday, 20-FEB-1997 13:09:20.51

Last non-interactive login on Wednesday, 12-FEB-1997 16:23:32.70

No disk in CD0:

No disk in CD0:

PLEASE ENTER YOUR FIRST OR LAST NAME: rgb

DATA0: [SAIPMS.TEST]

20-FEB-1997 13:21:05

OpenVMS User Processes at 20-FEB-1997 13:21:05.06

Total number of users = 1, number of processes =

| Username | Process Name | PID      | Terminal                 |
|----------|--------------|----------|--------------------------|
| CNS      | RGB          | 000003E7 | (subprocess of 000003E6) |

cnsdbcm\$ test

DATA0: [SAIPMS.TEST]

cnsdbcm\$ dir nsrv\*.\*

cnsdbcm\$ dir nsl\*.\*

Directory DATA0:[SAIPMS.TEST]

NSLGMRMN.FOR;1            NSLOGSRR.FOR;1

Total of 2 files.

cnsdbcm\$ dd \*.for /since=15-jan-1997

Directory DATA0:[SAIPMS.TEST]

|                 |     |             |             |             |            |
|-----------------|-----|-------------|-------------|-------------|------------|
| EXQU2RDBZ.FOR;1 | 7   | 21-JAN-1997 | 16:03:48.23 | 21-JAN-1997 | 16:03:48.2 |
| NSLOGSRR.FOR;1  | 223 | 16-JAN-1997 | 16:09:06.61 | 16-JAN-1997 | 16:09:06.5 |

Total of 2 files, 230 blocks.

cnsdbcm\$ execute

DATA0:[SAIPMS.EXECUTE]

cnsdbcm\$ dd \*.for /since=15-jan-1997

No files found

cnsdbcm\$ dd \*.exe /since=15-jan-1997

Directory DATA0:[SAIPMS.EXECUTE]

|                  |      |             |             |             |            |
|------------------|------|-------------|-------------|-------------|------------|
| DBRECDIFFZ.EXE;1 | 10   | 20-JAN-1997 | 18:48:22.10 | 20-JAN-1997 | 18:48:22.2 |
| DSMAINZ.EXE;2    | 2795 | 4-FEB-1997  | 15:40:53.91 | 4-FEB-1997  | 15:40:58.5 |
| NSLOGSMZ.EXE;4   | 1753 | 18-JAN-1997 | 22:50:05.78 | 18-JAN-1997 | 22:50:08.4 |
| NSLOGSZZ.EXE;4   | 726  | 18-JAN-1997 | 22:19:13.29 | 18-JAN-1997 | 22:19:14.4 |
| NSTPWRZZ.EXE;2   | 322  | 6-FEB-1997  | 18:17:57.69 | 6-FEB-1997  | 18:17:58.2 |
| NSVIEWMZ.EXE;5   | 2305 | 19-JAN-1997 | 01:37:49.46 | 19-JAN-1997 | 01:37:52.9 |

Total of 6 files, 7911 blocks.

cnsdbcm\$