

Amended 11/4/80 *WEL*

INSPECTION PLAN

IE Inspection Report No. 50-445/80-26; 50-446/80-26

Licensee: Texas Utilities Generating Company

Location: Glen Rose, Texas

Facility: Comanche Peak, Units 1 & 2

Type of Licensee: W, PWR, 1150 MWe

Type of Inspection: Routine, announced

Dates of Inspection: ~~October 20-22 and 23-24, 1980~~ November 5-7 and 13-14, 1980  
*18-20 & 24-25, 1980*

Dates of Previous Inspection: September 6-10, 1980

Inspectors: RCStewart

SCOPE OF INSPECTION

- |        |        |
|--------|--------|
| 30703B | 52054B |
| 92703B | 52056B |
| 49061B | 51053B |
| 49063B | 51054B |
| 50051B | 51055B |
| 50053B | 51056B |
| 50055B | 52051B |
| 50061B |        |
| 52053B |        |
| 52055B |        |

*[Signature]* 10/17/80  
Reactor Inspector Date

*[Signature]* 10/17/80  
Approved Date

8708200346 870819  
PDR ADDCK 05000445  
Q PDR

INSPECTION PROGRAM STATUS

COMANCHE PEAK  
FACILITY

3-3  
H.S. PHILLIPS  
REVIEWER

No. 2  
UNIT

③ see page 10 for example  
recorded for procedure vs  
Rpt. 80-26. 766 VS  
C=COMPLETE RECORDS

OCT 30 1984  
DATE

| MODULE | REPORT                             | LINE ITEM        | % COMPLETE | CORRECT | COMMENTS   |
|--------|------------------------------------|------------------|------------|---------|--|
| 25001B | 77-08                              | *                | 100 C      | *       | *Re CP did not verify.   |
| 25124B | 80-03                              | *                | 50         | *       |  |
|        | 80-08                              | *                | 100 C      | *       |  |
| 25129B | 84-06                              | *                | 100 C      | *       | RPT No. Error  |
| 25528B | 80-07                              | *                | 100 C      | *       |  |
| 25529B | 80-07                              | *                | 10         |         | IEB 79-14  |
| 30051B | 80-25                              |                  | ?          |         | See unit 1 comment   |
| 35020B | -                                  | 0                | 0          | -       |  |
|        | -                                  | 0                | 0          | -       |  |
| 35060B | 84-11                              | ALL              | 100        | YES     |  |
| 35061B | -                                  | 0                | 0          | NO      |  |
| 35065B | -                                  | 0                | 0          | YES     |  |
| 35100B | Required by individual Procedures: |                  |            |         | See procedures.  |
| 35200B | -                                  | -                | 0          | -       |  |
|        | -                                  | -                | -          | -       |  |
| 36100B | 84-07                              | ALL              | 100        | Yes     |  |
|        | 78-07                              | ALL              | 100 C      | Yes     |  |
| 37051  | -                                  | 0                | 0          | Yes     |  |
| 37055B | 81-19                              | No. 022          | 10         | Yes     |  |
| 37996B | 80-04                              | ALL              | 100        | Yes     |  |
| 42051C | 78-13                              | 1a. (2-5)<br>1e. | 10         | Yes     | Quarterly/annual inspection requirements never completed in line item 1 and 2. |
|        | 78-16                              | 1(e) 3           | 10         | Yes     |  |
|        | 79-03                              | 1b. c. d. e. (3) | 20         | Yes     |  |
|        | 79-23                              | 1b (1)<br>1e (3) | *          | Yes     | *No time charged /<br>% complete charged.                                      |
| 45051B | 78-04                              | 1. c, d, e,      | 80         |         |  |
|        | 80-05                              |                  | 80 C       |         |  |
| 45053B |                                    |                  |            |         |  |
| 45055B |                                    |                  |            |         | Process 766  |
| 45061B |                                    |                  |            |         | QA Review completed<br>See Rpt 100.  |

Manche Peak  
ACTIVITY

H. S. Phillip,  
REVIEWER

No. 2  
UNIT

766 vs  
RECORDS  
CORRECT

Oct 30  
DATE

| MODULE | REPORT         | LINE ITEM          | % COMPLETE | CORRECT | COMMENTS  |
|--------|----------------|--------------------|------------|---------|---|
| 45063B | 76-05          | ↑                  | 80         | Yes     | Safe shutdown Imp.  |
|        | 76-06          |                    | 80         | Yes     |   |
|        | 76-08          |                    | 90         | Yes     |   |
|        | 77-01          | ALL                | 90         | Yes     |   |
|        | 77-06          |                    | 90         | Yes     |   |
|        | 77-07          |                    | 100 C      | Yes     | See Rpt 76-06   |
| 45063C | 80-27          | ↓                  | 100 C      |         |   |
| 45065B | 76-05          | ↑                  | 60         | Yes     |   |
|        | 76-06          |                    | 70         | Yes     |   |
|        | 76-08          | ALL                | 80         | Yes     |   |
|        | 77-01          |                    | 90         | Yes     |   |
|        | 77-06          |                    | 90         | Yes     |   |
|        | 77-07          | ↓                  | 100 C      | Yes     |   |
| 46051B | 76-05          | ↑                  |            | No      | See 766 for Rpt 766;<br>Shows 100%<br>766 report does not document<br>work on unit 2. |
| 46053B | 76-05          | ↑                  | 50         | ?       | Unit 2 Safeguards Bld<br>Foundation Pour<br>Why reduce % complete?                    |
|        | 76-06          |                    | 80         | Yes     |   |
|        | 76-08          | ALL                | 60         | ?       |   |
|        | 77-09          |                    | 80         | Yes     |   |
|        | 78-01          |                    | 100 C      | Yes     |   |
| 46053C | 80-27          | ↓                  | 100 C      | No      | See Unit 1  |
| 46055B | 76-05          | ↑                  | 40         | Yes     |   |
|        | 76-08          | ALL                | 50         | Yes     |   |
|        | 78-01          | ↓                  | 100 C      | Yes     |   |
| 47051B | 76-06          |                    | 100 C      | No      | House UNIT #2   |
| 47053B | 76-06<br>77-03 |                    | 100 C      | No      | 766 Data run does not reflect<br>Rpt 76-11 + 766; also 76-06                          |
| 47053C | 78-13          | 2, 5b              | 10         | Yes     |   |
|        | 78-16          | 3, 4               | 20         | Yes     |   |
|        | 78-20          | 1b.                | 30         | Yes     |   |
|        | 79-01          | 2                  | 30         | Yes     |   |
|        | 79-03          | 2; 5a, b, c;<br>1a | 40         | Yes     |   |
|        | 79-06          | 2, 5a, b, c, d     | 40         | Yes     |   |
|        | 79-18          | 1a, b, c; 2; 3     | 80         | Yes     |   |
|        | 79-23          | None               | 90 C       | No      | 79-23 data. 766 reported<br>no work   |

766 Data run does not reflect Rpt 76-11 + 766; also 76-06

Manche Peak  
LOCALITY

H. S. PHILLIPS  
REVIEWER

No. 2  
UNIT

OCT 30  
DATE

| MODULE   | REPORT               | LINE ITEM               | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|----------|----------------------|-------------------------|------------|-----------------|--|
| 47055B   | 76-06<br>76-12       | 1a, b, e, d             | 60         | Yes             | See rpt 76-06/766 date   |
|          | 77-03                | 1a-d                    | 100 C      | Yes             | Item 1 left and 2 not done   |
| 47054B   | 76-06<br>75-13       |                         | 55         |                 | See Rpt 76-06 foundation down  |
|          | 78-09                | 1c, 2d                  | 60         | Yes             |  |
|          | 79-02                | 1, 2                    | 60         | Yes             |  |
|          | 80-05                | None                    | 80 C       |                 | testing of aggregate and<br>line item<br>Note Line item, 3, 4, 5, 6<br>never complete & close<br>out at 80% complete<br>correct. |
| 47056B   | 75-13                |                         | 55         |                 | See 76-06/766 date   |
|          | 76-04                | 1, 2                    | 10         | Yes             | Previously corrected   |
|          | 77-11                | 1b(e)                   | 20         | Yes             |  |
|          | 78-01                | 1a-f                    | 30         | Yes             |  |
|          | 78-09                | 1a                      | 60         | Yes             |  |
|          | 79-08                | 1a-f                    | 20         | No              | Correct %. Also line<br>item No. 3 never<br>done. Also close out.  |
|          | 80-05                | 1a-f                    | 100        |                 |  |
| 47061-66 | Not Applicable       |                         |            |                 | → Plant uses no tendons.   |
| 48051B   | 75-09?               |                         |            |                 | → see Unit 1 comment   |
|          | 77-08?               |                         |            |                 |  |
| 48053B   | 76-01                | 2b, c, d                | 30         | Yes             | liner, Embeds, Pipe restraint  |
|          | 77-01                | 2b, d                   | 40         | Yes             | should close out<br>liner plant installation   |
| 48053C   | 82-03                | No line item, inspected | 100 C      | No              | 766 error nothing reported on<br>unit 2. Not documented in report.   |
|          | 77-03                | 2b                      | ?          | No              | liner installation / Not reported<br>in 766  |
|          | 77-09                | 2b                      | ?          | No              | liner. ditto   |
|          | All work is reported |                         |            |                 | 766 data   |

INSPECTION PROGRAM STATUS

4 of 4

Monche Peak  
ACTIVITY

H. S. PHILLIPS  
REVIEWER

No. 2  
UNIT

Oct 30 -  
DATE

| MODULE                        | REPORT | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|-------------------------------|--------|-----------|------------|-----------------|---|
| 48055 B                       | 76-01  | None?     | 10         | No              |   |
|                               | 77-01  | 1, 2.     | 20         | Yes             |   |
|                               | 78-21  | 2         | 40         | Yes             | Unit 2 Liner plate vining, 12 & 13 reviewed with NDE. |
| STRUCTURAL STEEL AND SUPPORTS |        |           |            |                 |   |
| 48061 B                       | 77-07  | ALL       | 10         | Yes             |   |
|                               | 77-08  | ↓         | 100 C      | Yes             |   |
|                               | 77-13  | ↓         | 100 C      | Yes             |   |
| 48063 B                       | 78-19  | 2b        | 10         | ? OK ✓          | HVAL control room, welding supports.                  |
|                               | 81-08  | None      | 100 C      | No              | Process 766   |
| 48064 B                       | 81-08  | None      | 100 C      | No              | Process 766   |
| 48065 B                       | 78-19  | None      | 10         | No ✓            | Process 766   |
|                               | 81-08  | None      | 100 C      | No              |   |
| 48066 B                       | 81-08  | None      | 100 C      | No              | Process 766   |
| 49051 B                       |        |           |            | No.             | 766 should reflect 100% for unit 2                    |
| 49053 B                       |        |           |            |                 |   |

INSPECTION PROGRAM STATUS 5 of

ACTIVITY

REVIEWER

NO 2  
UNIT

DATE

| MODULE                       | REPORT | LINE ITEM     | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|------------------------------|--------|---------------|------------|-----------------|---|
| 49053 C                      | 79-26  | 1             |            | Yes             | handling, valve                                       |
|                              | 81-09  | 1, 2          | 10         | Yes             | handling, welding, NDE                                |
|                              | 81-11  | 1, 2          | 20         | Yes             | welding, main loop, NDE, personal quals.              |
|                              | 82-02  |               | 20         |                 | - 2 Process 766.<br>Close <del>complete</del>         |
| 49054 B                      | -      |               |            |                 | No inspection done; however<br>Superseded in 03/30/84 |
| 49055 B                      | -      |               |            |                 | d. Ho   |
| 49056 B                      | -      |               |            |                 | d. Ho   |
| <b>SAFETY RELATED PIPING</b> |        |               |            |                 |   |
| 49061 B                      | 77-07  | review status | 10         | Yes             | Could take credit under<br>49051 B.                   |
|                              | 77-08  | *             | 30         | Yes             | * previous verified.                                  |
|                              | 77-09  | *             | 80         | Yes             | * ditto   |
| 49063 B                      | 77-10  | 10            | 10         | Yes             | CVES 7-field welds<br>Avx. Bld.                       |







ACTIVITY

REVIEWER

No 2  
UNIT

PROCESS 766 <sup>to show OPEN ONE ONLY</sup>  
DATE

RECORDS  
CORRECT

COMMENTS

| MODULE                 | REPORT | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|------------------------|--------|-----------|------------|-----------------|--|
| RCPB WELDING<br>55071B | 82-09  | ALL       | 80         | Yes             | Process 766 for 100%   |
| 55073B                 | 82-09  | *         | 100%       | Yes             | * Did not verify all items but looks correct.  |
|                        | 87-03  |           |            |                 | Also so many inspections under "E" program that this area should have been well covered. |
|                        |        |           |            |                 | Processed 764-76-12  |
| 55073C                 | 78-13  | 1,3       | 10         | Yes             |  |
|                        | 80-01  | 1,2       | 10         | Yes             |  |
|                        | 80-03  | 1,2       |            | Yes             |  |
|                        | 80-11  | 2         | 10         | Yes             | NDE X-ray  |
|                        | 80-16  | 1,2,4     | 10         | Yes             |  |
|                        | 80-18  | 1,2,4     | 10         | Yes             |  |
|                        | 80-20  | 1,2,4     | 10         | Yes             | Note RRI did as built review   |
|                        | 80-23  | 2         | 10         | Yes             | NDE X-ray  |
|                        | 80-27  | 1,2,4     | 10         | Yes             |  |
|                        | 81-01  |           | 10         |                 |  |
|                        | 81-02  | 1,2,4     | 10         |                 |  |
|                        | 81-05  | 2         | 10         |                 | NDE X-ray  |
|                        | 81-06  | 2         | 10         |                 | "  |
|                        | 81-09  | 2         | 10         |                 | "  |
|                        | 81-11  | 1,2,4     | 20         |                 |  |
|                        | 81-14  | 2         | 10         |                 |  |
|                        | 81-16  | 2         | 20         |                 |  |
|                        | 81-18  | 2         | 20         |                 | on seeing radiography  |
|                        | 82-01  | 1         | 20         |                 |  |
|                        | 82-02  | 1,2,4     | 20         |                 | not in scope 766 data on PROCESS 766   |

FACILITY  
 No. 2  
 UNIT

REVIEWER  
 DATE

| MODULE  | REPORT | LINE ITEM  | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|---------|--------|------------|------------|-----------------|---|
| 55074 B | 82-09  | 1, 2, 3, 4 | 50         | Yes             | Observation of work ALPT.<br>FSJ. FW 51, 57<br>SJ FW 9, FW 5, FW 6A<br>RC FW 7<br>Welding<br>SW-2-RB-026 FW 3, 4<br>OAT FW 1, 2<br>OF FW 7<br>OF FW 8<br>OF FW 9  |
| 55075 B | 82-11  | 1, 2       | 100        | No              | Process now 50% done<br>FSJ-2-0122-03 Main FW 1, 2, 10, 16, 34<br>SKW 19, 25, 28, 34<br>OF-FS12 43, 52, 61, 70<br>UT-FS1-2-0122-03 - FW 5, 1, 3<br>SJ-2-RB-091 FW 9<br>SJ-2-RB-026 FW 5, 6, 8<br>RC-2 RB-665 FW-7 |
| 55076 B | 83-05  | 1, 2       | 40         | Yes             |   |
|         | 83-09  | 1, 2       | 100        | No              | Line item 3 and 4 not done.   |
|         |        |            |            |                 | Line item 3 requires revision of file must recent NCR's.  |

REVIEWER \_\_\_\_\_

QUALITY \_\_\_\_\_

No. 2  
UNIT \_\_\_\_\_

DATE \_\_\_\_\_

| MODULE                    | REPORT             | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|---------------------------|--------------------|-----------|------------|-----------------|--|
| Reactor Vessel<br>50051 B | 80-26              | None      | 100%       | NO              | Report does not document inspection of vessel but does document inspection of internals. No line items inspected on 50051 B. |
| Inlet<br>50053 B          | 80-26              | None      | 100%       | NO              | Ditto above<br>by correcting for 50053 B   |
| 50053 C                   | 79-09              | None      | 10         | NO              | vessel had not arrived.  |
|                           | 79-06              |           | 30         | Yes             | Vessel received Mar 3, 79  |
| 79-24                     | 79-11              |           |            | NO              | Unit inspected - not reported  |
|                           | 79-28              |           |            | YES             |  |
|                           | 80-08              |           | 20         | NO              |  |
|                           | 80-15              |           | 20         | Yes             |  |
| 80-22                     | 80-16              | 3         | 90         | Yes             |  |
|                           | 81-09              |           | 20         | NO              |  |
|                           | 81-11              | 3         | 50         | Yes             |  |
|                           | 82-02              |           | 20         |                 |  |
|                           | 82-03              |           |            | NO              |  |
| 50055 B                   | 80-26              | None      | 100%       | NO              | Report does not document review of records.  |
|                           |                    |           |            |                 | Process 766<br>File 50055 B  |
| 50061 B                   | INTERIALS<br>81-06 |           |            |                 | Nothing in 766. Should close out at 100%.  |
| 50063 B                   | 81-06<br>82-06     | 1, 2, 3   | 100%       | Yes             | Process 766  |

ILITY

REVIEWER

No. 2  
UNIT

DATE

| MODULE | REPORT | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|--------|--------|-----------|------------|-----------------|--|
| 500636 | 80-16  | 1         | 50         | No              | 766 reported 0% complete.<br>no terminals inspected, not sure<br>if 766 is for unit?<br>Movement observed. |
|        | 80-23  | 1         |            | No              |  |
|        | 81-05  | 1, 2      | 10         |                 |  |
|        | 81-11  | 1         | 50         |                 |  |
|        | 81-18  | 1         | -          |                 |  |
|        | 82-02  | 1         | 20-        |                 |  |
|        | 79-16  | 1         |            | No              | Please 766<br>closed   |
| 500658 | 82-06  | 1, 2, 3   | 100 C      | Yes             |  |
| 50071B | 77-09  | 2a-c      | 50         | Yes             |  |
|        | 78-03  | 1         | 80         | Yes             |  |
|        | 78-04  | 2a-d      | 50         | No              | Should be 80% or more  |
|        | 79-22  | 2a-d      | 80         | Yes             |  |
| 50073B | 80-05  | 2c        | 30         | Yes             | Components not identified in<br>(2c) in class 618 storage  |
|        | 81-18  | None      | 20         | No              | Not inspected.   |

REVIEWER

DATE

CITY

No. 2  
UNIT

| MODULE | REPORT | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|--------|--------|-----------|------------|-----------------|---|
| 50073C | 78-13  | 1 4       | 10         | Yes             | See unit 1 for various components inspected.  |
|        | 79-18  | 1, 3 4    | 10         | Yes             | Containment spray pumps & electric drives.  |
|        | 80-11  | 3         | 20         | No              | Two steam generators and two Rx Cool Dumps installed. Pump motors, valve operated valves, control room panels.                                      |
|        | 80-20  |           |            |                 | - PROCESS 766 closed  |
| 50074B | 80-05  | 2c        | 20         | Yes             | Components inspected not identified in Rpt.   |
|        |        |           |            |                 | - PROCESS 766   |
| 50075B | 80-05  | 1a, b, c  | 10 ?       | ?               | Unit 1 records. D/HO not or. line item check. list does not document such inspection. Unit 1 inspected but unit 2. If inspected was not documented. |
|        | 81-08  | None      | 20         | No              |   |
| 50076B | 80-05  | 1b, c     | 10 ?       | ?               | Process 766<br>Unit 1 records. D/HO comment above a.e. line items not documented.   |
|        |        |           |            |                 |   |
| 50090B | 80-29  | 3d        | 50         | No              | Five pipe hanger supports vs as built. None inspected.  |
|        | 81-15  | None      | 10         | No              |   |
|        |        |           |            |                 | only five of 80 components inspected. as required by line items 3 and 4.  |

REVIEWER

ACTIVITY

UNIT No. 2  
UNIT

DATE

| MODULE        | REPORT | LINE ITEM              | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|---------------|--------|------------------------|------------|-----------------|---|
| PIPE SUPPORTS |        |                        |            |                 | See Unit No. Comment  |
| 50090L        | 80-15  | 3 b.c. 4a. b.          | 10         | Yes             | Cannot determine what hangers were inspected in unit No. 1 and 2. |
|               | 83-01  | not identified in Rpt. | 10         | Yes             | Investigation   |
|               | 79-13  | 1, 2                   |            |                 | Progress 75%  |
|               |        |                        |            |                 | OSP 41  |
| 50095B        | None   | None                   | None       | Yes             | None  |
| CONT. PENT.   |        |                        | 11         |                 |   |
| 53051 B       | 76-06  | None                   | 10         | No              | see unit 1 comment.   |
|               | 76-07  | ALL                    | 100 C      | Yes             |   |
| 53053 B       | 76-07  | ?                      | 10         | Yes             | could not identify component inspected.                           |

REVIEWER \_\_\_\_\_

UNIT No. 2  
 CITY \_\_\_\_\_  
 UNIT \_\_\_\_\_

DATE \_\_\_\_\_

| MODULE | REPORT | LINE ITEM           | % COMPLETE | RECORDS CORRECT                   | COMMENTS  |
|--------|--------|---------------------|------------|-----------------------------------|---|
| 53053C | None   |                     |            |                                   |   |
| 53055B | 78-1X  | 3                   | 20         | Yes                               | Personnel / air lock                                      |
| 55051B | 76-06  | All                 | 100%       |                                   | See comment Unit 7  |
| 55053B | 76-01  | 1, 2, 3, 4          | 30         | Yes                               | 1 2 8 4 5<br>Rx cavity plate                              |
|        | 76-04  | None                | 30         | No                                | None<br>{ only unit 7<br>1 inspector                      |
|        | 76-07  |                     |            | No                                | X   |
|        | 77-01  | 1, 2, 3, 4          | 40         | Yes                               | 9 9 9 9 0<br>Flour liney plate                            |
|        | 77-03  | 1, 2, 3, 4          | 60         | Yes                               | 2 2 2 2 0<br>2 rings                                      |
| 55055B | 76-01  | 1                   | 20         | Yes                               | Line Item<br>1 2 3 4 5 6 7 8 9 10<br>(walks) LINE PLATE → |
|        | 76-03  | 1, 2, 4, 5, 7, 8, 9 | 100%       | No, sig major supplies not added. | 6 → inner →   |
|        | 77-01  | 1-5; 7              | 50         | Yes                               | 4 4 4 4 4 0 4   |
|        | 78-12  | 2, 3, 6, 7          | 60         | Yes                               | 0 3 3 0 0 3 3   |

REVIEWER

NO. 2  
UNIT

DATE

| MODULE           | REPORT                     | LINE ITEM | % COMPLETE | RECORDS CORRECT   | COMMENTS   |
|------------------|----------------------------|-----------|------------|-------------------|--|
| 55061B           | 77-08                      | ALL       | 100%       | Yes               |  |
|                  | 77-13                      | ALL       | 100%       | Yes               |  |
| 55063B           | 78-19                      | None      | (100%)     | Yes <del>NO</del> | IR does not support inspection of lines & structural steel welding. Only unit 1. HVAC support welding.   |
|                  | Probably no more than 70%. |           |            |                   | NOT PER GUIDANCE i.e. SECT II: Large Tanks, suppts for major equipment.  |
| 55063C           | 78-15                      | *         | 50         | Yes               | Did not justify line items or complete IR 78-15 DEALS WITH HVAC. BUT DOES NOT DOCUMENT INSPECTION OF PIPE WELDS AND INSPECTION OF ROD ISS. ALL AT UNITS. NO MORE THAN 60% COMPLETE. IR 81-16 DOES NOT DOC. LINE ITEMS. |
|                  | 81-16                      |           | 20         |                   |  |
| 55064B           |                            |           |            |                   |  |
| 55065B           | 78-19                      | None      | 10         | NO                | IR and notes only document inspection of unit no. 3. Also no welds identified.   |
| 55066B           | 83-09                      | 2         | 10         | Yes               | See comment for unit 1.  |
| STAGE STRUCTURED |                            |           |            |                   |  |
| SW 151           | None                       | None      |            |                   | Probably completed under 55061. Processed the records.   |



REVIEWER

DATE

ACTIVITY  
NO 2  
UNIT

| MODULE                | REPORT        | LINE ITEM                         | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|-----------------------|---------------|-----------------------------------|------------|-----------------|---|
| 55152B                | 82-07         | ALL                               | 100        | Yes             |   |
| 55153B                | 82-07         | ALL for suppt<br>None for Struct. | 100        | No              | Only piping supports insp'd - No welding of structures per the guidance of Inspection Procedures Section III 2.4. steel suppt for mech. equip. Not joining meas. Insp. can close out all. |
| 55154B                | 82-07         | "                                 | 100        | No              |   |
| 55155B                | 82-07         | "                                 | 100        | No              |   |
| 55156B                | 83-09<br>None | None                              | 0          | Yes             |   |
| REACTOR               | COOLANT       | COOL                              |            |                 |   |
| 55171B                | 80-19         |                                   | 80         | Yes             | % based on previous procedures. All line items in all control (1-5) not documented.   |
| 55172B                | 80-19         | 1-5                               | 60         | Yes             | ditto   |
| also changed to 55073 | 82-03         | 6-8                               | 80         | Yes             |   |
|                       | 82-09         | 3-8                               | 90         | Yes             |   |
| 55173B                | 80-17         | 1a-U                              | 20         | Yes             | FW 24 & 31 BRP-RC-2-520-00 Inspection report does not document inspection of all items 1a-U.  |
| also changed to 55073 | 80-19         | 1a-U                              | 40         | Yes             | FW 11A, FW 6, FW 7, FW 10   |
|                       | 82-03         | 1a-U                              | 50         | Yes             | FW 51, 57, FW 9, FW 8, FW 6A; FW 7 various Sys. Insp. done not documented in Term welds   |
| 55175B                | 81-17         | All                               | 40         | Yes             |   |
|                       | 82-09         | 1a-h                              | 50         | Yes             |   |
|                       | 82-11         | 2                                 | 70         | Yes             |   |
|                       | ? 83-05       | 2                                 | 80         | Yes             | NOE in spectral records   |
|                       | 83-09         | ALL                               | 100        | Yes             | 66 welds inspected visually and meas. Insp. Team  |
| 55176B                | 82-09         | ?                                 | 100        | No              | IR 82-09 does not document inspection of HT activities  |
| 55177B                | 80-19         | 1-4                               | 60         | Yes             |   |
|                       | 81-07         | 6a, d                             | 60         | Yes             |   |
|                       | 82-03         | 3                                 | 60         | Yes             |   |
|                       | 82-09         | 3, 4                              | 80         | Yes             |   |
| 55178B                | 82-09         | None                              | 80         | Yes             | Previous inspections procedures previous FW 7-52-2-RB-01.0  |
| 55181B                | 82-09         | None                              | 80         | Yes             |   |
| 55182B                | 80-13         | 6, 7, 8                           | 30         | Yes             |   |
| material control      | 80-14         | 1-8                               | 60         | Yes             |   |
|                       | 82-03         | 6, 7, 8                           | 80         | Yes             |   |
|                       | 82-09         | 3                                 | 90         | Yes             |   |
| 55183B                | 80-13         | 1a-U                              | 30         | Yes             |   |
|                       | 80-14         | "                                 | 40         | Yes             | Main Steam to function FW 1 & FW 2  |

QUALITY

REVIEWER

No. 2

UNIT

DATE

| MODULE          | REPORT | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|-----------------|--------|-----------|------------|-----------------|--|
| 55183B (Cont'd) | 80-17  | 1a-V      | 10         | Yes             | SE-<br>CT<br>AF<br>AW-1-1 PW?  |
|                 | 80-19  | 1a-V      | 60         | Yes             | CCW  |
|                 | 81-07  | 1a-V      | 70         | Yes             | Main Steam<br>CCW  |
|                 | 82-03  | 1a-V      | 70         | Yes             | CS<br>SZ   |
|                 | 82-09  | 1a-V      | 90         | Yes             | SZ<br>Main Steam (ms)  |
| 55185B          | 81-07  | 1, 2      | 20         | Yes             | CT<br>SZ<br>Tide welds   |
|                 | 81-17  | 1         | 40         | Yes             | CT<br>SZ<br>Tan welds  |
|                 | 82-09  | 1         | 50         | Yes             |  |
|                 | 82-11  | 2         | 50         | Yes             |  |
|                 | 83-05  | 2C        | 80         | Yes             |  |
|                 | 83-09  | ALL       | 100C       | Yes             | End. Main Steam<br>46 welds (part of weld<br>safety related)           |
| 55186B          | 81-17  | ALL       | 50         | Yes             |  |
|                 | 82-09  | None      | 70         | NO              | HT - pre heat, post heat<br>stress relief not<br>inspected or done etc |
| 55187B          | 81-07  | ALL       | 60         | Yes             |  |
|                 | 82-03  | 1-4       | 60         | Yes             |  |
|                 | 82-09  | 3-4       | 80         | Yes             |  |
| 55188B          | 81-17  | 1, 2, 3   | 20         | Yes             | Note: could be higher %  |
|                 | 82-09  | 1, 2, 3   | 50         | Yes             |  |
|                 |        |           |            | 11              |  |

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DATE \_\_\_\_\_

MODULE REPORT LINE ITEM % COMPLETE RECORDS CORRECT COMMENTS

| MODULE | REPORT | LINE | ITEM   | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|--------|--------|------|--------|------------|-----------------|--|
| 51051B | 77-13  |      |        | 510        |                 |  |
|        | 79-22  |      | 2abc e | 550        | NO              | Process 766 -<br>Should reflect %<br>Complete for unit 1 |
| 51053B |        |      |        | 0%         |                 |  |
| 51053C | 78-13  |      |        | 0          |                 |  |
|        | 79-18  |      |        | 10         |                 |  |
| 51054B |        |      |        | 0%         |                 |  |
| 51055B |        |      |        | 0%         |                 |  |

*Dennis Kelly  
re-reviewed  
3/12/06*

INSULATION PROGRAM STATUS Page 19

REVIEWER \_\_\_\_\_

NO: 2  
UNIT \_\_\_\_\_

DATE \_\_\_\_\_

| MODULE                             | REPORT LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS                      |
|------------------------------------|------------------|------------|-----------------|-------------------------------|
| 51056B                             |                  | 0          |                 |                               |
| <u>ELECT CABLES / TERMINATIONS</u> |                  |            |                 |                               |
| 51061B                             | 77-3             | 10         |                 |                               |
|                                    | 80-01            | 90         |                 |                               |
| 51063B                             | 80-03            | -          |                 |                               |
|                                    |                  | 11         |                 |                               |
| 51063C                             | 79-18            | 10         |                 |                               |
|                                    | 80-08            | -          |                 |                               |
|                                    | 80-15            | 10         |                 | • cable tray supports         |
|                                    | 80-18            | 10         |                 | • cable tray supports/anchors |
|                                    | 83-01            | 10         |                 | Allegation cable splice       |
|                                    |                  |            |                 | Progress 7/26                 |

REVIEWER

DATE

| MODULE                                      | REPORT LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS |
|---|------------------|------------|-----------------|----------|
|   |                  |            |                 |          |
| 51064B                                      |                  | 0          |                 |          |
| 51065B                                      |                  | 0          |                 |          |
| 51066B                                      |                  | 0          | 11              |          |
| <b>INSTRUMENTATION (COMPONENTS/SYSTEMS)</b> |                  |            |                 |          |
| 52051B                                      | 74-22            | 60         |                 |          |
|   | 91-10            | 90         |                 |          |

REVIEWER \_\_\_\_\_

DATE \_\_\_\_\_

| MODULE                                  | REPORT LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|---|------------------|------------|-----------------|--|
| 52053B                                  |                  | 0          |                 |  |
| 52053C                                  | 83-01            | 10         | NO              | Splice of cable - Allegation only document to Unit inspector |
| 52054B                                  |                  | 0          |                 |  |
| 52054C                                  |                  | 0          |                 |  |
| 52055B                                  |                  | 0          |                 |  |
| 52056B                                  | 81-10            | 20         |                 | RPT DOES NOT DIFFERENT BETWEEN UNITS                         |
| INSTRUMENTATION (CABLES & TERMINATIONS) |                  |            |                 |  |
| 52061B                                  |                  |            |                 | Zero.  |
| 52063B                                  |                  | 11         |                 | Zero.  |
| 52064B                                  |                  |            |                 | Zero.  |
| 52065B                                  |                  |            |                 | Zero.  |
| 52066B                                  |                  |            |                 | Zero.  |

LANCHE PEAK  
UTILITY

H. S. PHILLIPS  
REVIEWER

No. 1  
UNIT

OCT 30-  
DATE

| MODULE                                     | REPORT   | LINE ITEM                    | % COMPLETE | C=COMPLETE RECORDS CORRECT | COMMENTS   |
|--|----------|------------------------------|------------|----------------------------|--|
| 25004B                                     | 77-09    | *                            | 100 C      | *                          | * Pre CP, therefore did not verify.  |
| 25124B                                     | 80-03    | *                            | 50         | *                          |  |
|  | 80-08    | *                            | 100 C      | *                          |  |
| * 25129B                                   | 84-12    | *                            | 100 C      | *                          | RPT No. Error  |
| 25528B                                     | 80-07    | *                            | 100 C      | *                          |  |
| 25529B                                     | 80-07    |                              | 10         | *                          | IEB 79-14 ** See 82-05   |
| Const. Mtg Meeting<br>30051 B              | 80-25    |                              | ?          |                            | Corp Mtg Meeting to Review Construction Required annually after 4/1/80   |
| Audit Applicant's<br>supervisor<br>35020 B | 78-07    | 021-b.1.                     | 50         | No                         | Rpt did not support inspection at 50% complete   |
|  | 84-32    | ALL                          | 100        | Yes                        |  |
| Audit Mtg of QA Function<br>35060 B        | 84-32    | ALL                          | 100        | Yes                        | Review Corp. Mtg ea 18 mos. Annual QA Inspection   |
| 35061 B                                    | 84-22    | ALL                          | 100        | Yes                        |  |
| * 35065 B                                  | -        | 0                            | 0          | Yes                        | Procedure issued 4/1/83 Should have been done 4/1/84   |
| 35100 B                                    | Required | by individual                |            |                            | See procedures.  |
| 35200 B                                    | 78-20    | ALL                          | 10         | Yes                        |  |
|  | 78-23    | ALL                          | 100 C      | Yes                        |  |
| 36100 B                                    | 84-22    | ALL                          | 100        | Yes                        |  |
| - Design<br>37051                          | 78-07    | ALL                          | 100 C      | Yes                        |  |
| 37051                                      | 84-10    | ALL                          | 30         | Yes                        |  |
| * 37055 B                                  | 84-10    | ?                            | 100 C      | No                         | ENTRY IN ERROR. 766 REPORTED NO WORK   |
| * 81-18                                    |          | ?                            | 50         | No                         | This report does not support inspection of line items.   |
|  | 81-19    | NA 022, 023<br>021 (in part) | 50         | Yes                        |  |
| * 37995 B                                  | 82-05    |                              | 100 C      | Yes                        | ** See module 25528/Rpt 82-  |
|  | 82-30    |                              | 100 C      | Yes                        | Followup inspection.   |
| 37996 B                                    | 80-04    | ALL                          | 100 C      | Yes                        |  |
| Fire Protection<br>42051 C                 | 78-13    | 1a(2-5); e                   | 10         | Yes                        | Resident inspection line items quarterly annually not completed  |
|  | 78-16    | 1e(3)                        | 20         | Yes                        |  |
|  | 79-03    | 1b, c, d, e(3)               | 50         | Yes                        |  |
|  | 79-24    | 1b(1); e(3)                  | *          | Yes                        | * No time charged / % complete recorded.   |
| * 45051 B                                  | 78-04    | 1, c, d, e                   | 80         | No                         |  |
| * 45053 B                                  | 78-04    |                              | 80         | No                         | Report does not document observation of work.  |
| ? 45055 B                                  | 78-04    | 5.                           | 0          | No                         | Should show 80% C  |
| * 45061 B                                  |          |                              | 0          | No                         | No 766 entry however, notes indicate procedure revision in Reports 74-03, 74-04, 75-01, 75-06 74-05 and is closed out in Rpt 76-06 |

\* Records (RPTS) vs 766 different

out in Rpt 76-06

INSPECTION PROGRAM STATUS

Comanche Peak  
FACILITY

H.S. Phillips  
REVIEWER

No. 1  
UNIT

766 vs  
RECORDS  
CORRECT

Oct 30  
DATE

| MODULE                   | REPORT            | LINE  | ITEM                      | % COMPLETE | CORRECT | COMMENTS  |
|--------------------------|-------------------|-------|---------------------------|------------|---------|---|
| 45063B                   | 76-05             | ↑     |                           | 80         | Yes     | Safe shutdown imposed   |
|                          | * 76-06           | ↑     |                           | 80         | Yes     | * Note: found data 45051, 53, 55, 46051 etc   |
|                          | 76-08             | ↑     |                           | 90         | Yes     |   |
|                          | 77-01             | ALL   |                           | 90         | Yes     |   |
|                          | 77-06             | ↑     |                           | 90         | Yes     |   |
|                          | 77-07             | ↑     |                           | 100 C      | Yes     |   |
| 45063C                   | 80-27             | ↓     |                           | 100 C      |         |   |
| 45065B                   | 76-05             | ↑     |                           | 60         | Yes     |   |
|                          | 76-06             | ↑     |                           | 70         | Yes     |   |
|                          | 76-08             | ALL   |                           | 80         | Yes     |   |
|                          | 77-01             | ↑     |                           | 90         | Yes     |   |
|                          | 77-06             | ↑     |                           | 90         | Yes     |   |
|                          | 77-07             | ↓     |                           | 100 C      | Yes     |   |
| ⊗ <del>Foundations</del> | <del>46051B</del> |       |                           |            | No      | * See 766 for Rpt 76-06; shows 100% C Bulk mat coring unit 1                                |
|                          | 46053B            | ↑     |                           | 50         |         |   |
|                          | 77-09             | ALL   |                           | 80         | Yes     |   |
|                          | 78-01             | ↓     |                           | 100 C      | Yes     |   |
|                          | 80-27             |       |                           | 100 C      | No      | Rpt documents no inspection - 766 No time to  |
|                          | 46055B            | ↑     |                           | 40         | Yes     |   |
|                          | 76-07             | ALL   |                           | 50         | Yes     |   |
|                          | 78-01             | ↓     |                           | 100 C      | Yes     |   |
| ⊗ <del>Concrete</del>    | <del>47051B</del> |       |                           | 100 C      | No      | Rpt 76-06 shows 100% File says work done in 75-06; See 70-80 - 100% BUT NOT IN 766 DATA RUN |
| ⊗                        | 47053B            |       |                           | 100 C      | No      |   |
|                          | 47053C            | 78-13 | 2, 5b                     | 10         | Yes     |   |
|                          |                   | 78-15 | 1a                        | 20         | Yes     | rebar splice contain. wall  |
|                          |                   | 78-16 | 1b, c; 5a, b, d; e; 9; 3; | 30         | Yes     |   |
|                          |                   | 78-20 | 5a, b, c; 1a              | 80         | Yes     |   |
|                          |                   | 78-22 | 2, 11, 4                  | 90         | Yes     | 766 in file gives no % completed  |
|                          |                   | 79-01 | 2, 5a                     | 100 C      | Yes     | Rpt said unit 1 concrete complete   |
| ⊗                        |                   | 82-03 |                           | 90         | No      | should close IP and.  |



INSPECTION PROGRAM STATUS

Mananche Peak  
FACILITY

H. S. PHILLIPS  
REVIEWER

No. 1  
UNIT

OCT 30  
DATE

| MODULE                      | REPORT            | LINE ITEM   | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|-----------------------------|-------------------|---|------------|-----------------|---|
| ① 47055 B                   | 76-04             | None  | 100 C      | ?               | Core & basement for test  |
| <b>Concrete II</b>          |                   |   |            |                 |   |
| 47054 B                     | 75-13             |   | 10         |                 |   |
|                             | 76-06             | 1, 2  | 10         | Yes             | Note: 76-06 Foundation / dam  |
|                             | 77-03             | 1, 2, 3   | 10         | Yes             |   |
|                             | 77-07             | 1, 2, 3, 4  | 20         | Yes             | wall, Foundation/Dam  |
|                             | 77-09             | 1-6   | 50         | Yes             |   |
|                             | 78-18             | 1, 2, c-f   | 50         | Yes             |   |
|                             | 78-19             | 2, 5, 6   | 50         | Yes             |   |
|                             | 79-02             | 1, 2, 4, 3  | 100 C      | Yes             |   |
| ② 47056 B                   | 75-13             |   | 95 L       |                 |   |
|                             | 76-12             | 1a, b   | 20         | Yes             |   |
|                             | 77-03             | 1a-d  | 30         | Yes             | except line items 1 & 2.  |
|                             | 77-11             | 1b(3)   | 40         | Yes             |   |
|                             | 78-01             | 1a-f  | 50         | Yes             |   |
|                             | 78-19             | 1a-f  | 70         | Yes             | ⊗ Note: Rpt 79-02 documents record review but no 76-06 data i.e. 1b & 1c  |
|                             | 79-04             | None  | 100 C      |                 | Note: Line items 3 or review of nonconformances/deviation, not done.  |
| <b>Post Tension Tendons</b> |                   |   |            |                 |   |
| 47061-66                    | Not Applicable.   |   |            |                 | Plant uses no tendons.  |
| 48051 B                     | Containment Steel |   |            |                 |   |
|                             |                   |   |            |                 | Not in Data Num R.v Oct 1984 but 76-06 Rpts it 100% C.  |
| ③ 44053 B                   | 76-01             | * None  | 30         | NO              | * Report does not support observation of work NDR of liner  |
|                             | 77-03             | 2.c   | 60         |                 |   |
| ④ 77-04                     | 77-09             | 2b.   | 80         |                 | welding of attachment to liner (Polar Crown)  |
|                             | 78-09             | 2.c.  | 80         |                 | Personal hatch emergency air lock (for core work)   |
|                             | 82-11             | 2b. ?   | 100 C      | Yes             | This report documents investigation of allegation Polar crown. Record review does not support line item. No time changed. Should have reported time on unit for at least independent inspection |
| ⑤ 44053 C                   | 81-16             | 2b (Liner)<br>2d pipe<br>support<br>2b structural<br>steel platform | 90 L       | NO              | 3 of 12 line items does not support 90% complete  |

48053 B & C never had line items a, e, f, inspection. documented. Close out B @ 80% + "C" procedures at 40%.

Comanche Peak  
FACILITY

H. S. PHILLIPS  
REVIEWER

No. 1  
UNIT

Oct 30  
DATE

| MODULE                                   | REPORT LINE ITEM | % COMPLETE    | RECORDS CORRECT | COMMENTS  |
|--|------------------|---------------|-----------------|---|
| 4Y055B                                   | 76-01            | 1, 2          | 10              | Yes<br>liner<br>Escape/Thermal Assy   |
|  | 77-03            | 1, 2          | 30              | Yes   |
|  | 77-11            | 1, 2          | 40              | Yes   |
|  | 78-05            | 1             | 50              | Yes   |
|  | 78-09            | 2             | 70              | Yes<br>Steam Gen.   |
|  | 82-11            |               | 100 C           | Yes<br>Blow crane records reviewed as result of investigation of allegation.              |
| STRUCTURAL STEEL AND SUPPORTS            |                  |               |                 |   |
| 48061B                                   | 77-07            | ALL           | 10              | Yes<br>Rpt documented no procedure were established for structural steel.                 |
|  | 77-08            |               | 100 C           | Yes<br>CCP-2.1, CCP-2.1, CCP-2.2<br>CCP-2.4, CCP-2.12, OCI-2.13-1<br>CCP-2.17, OCI-2.17-1 |
|  | 77-13            |               | 100 C           | Yes<br>Should be closed   |
|  | 78-12            |               | 90 L            | No  |
| 4Y063B                                   | 78-12            | 2b            | 10              | Yes<br>RPT documents cable tray structural steel AWS D11                                  |
|  | 78-19            | 2b            | 20              | No<br>NUAC control room, welding supports.  |
|  | 79-19            | None          | 100 C           | No<br>2 of 11 line items completed  |
|  | 81-08            | None          | 100 C           | No<br>Rpts 79-19, 81-08 did not document inspection of struct. steel outside container    |
| 48064B                                   | 81-08            | None          | 100 C           | No  |
|  | 82-15            | 1, 2, 3, 4, 5 | 100 C           | Yes   |
| 48065B                                   | 78-19            | 2b            | 10              | Yes   |
|  | 79-19            | None          | 100 C           | No<br>See Comment for 48063   |
|  | 81-08            | None          | 100 C           | No  |
| 48066B                                   | 81-08            | None          | 100 C           | No  |
|  | 82-15            | 1, 2, 3       | 90              | Yes<br>Line item, for procedure done except review non-conformance reports.               |
|  | 84-10            | 1, 2, 3       | 100 C           | Yes<br>Cable tray supports/HLV  |
| REACTOR COOLANT PRESSURE BOUNDARY PIPING |                  |               |                 |   |
| 49051B                                   | 78-18            | ALL           | 100 C           | Yes<br>Note: 49061 may be covered at some point.  |
| 49053B                                   | 79-04            | 1, 2, 3       | 30              | Yes   |
|  | 79-19            | 1, 2, 3       | 70              | Yes   |
|  | 79-25            | 1, 2          | 90              | Yes   |
|  | 82-11            | 4 (in part)   | 100 C           | No<br>4. As built between two major components not documented                             |

# INSPECTION PROGRAM STATUS 5 of

FACILITY  
No. 1  
UNIT

REVIEWER  
DATE

| MODULE                       | REPORT LINE ITEM      | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|------------------------------|-----------------------|------------|-----------------|--|
| 49053C                       | 78-13 2               | 20         | Yes             | welding - 2 joints RCPB, red w/4s, cm in   |
|                              | 78-15 2               | 10         | Yes             | welding RCPB (main loop)   |
|                              | 78-16 2               | 10         | Yes             | welding RCPB (main loop)   |
|                              | 79-06 2               | 30         | Yes             | welding RCPB (main loop)   |
|                              | 79-16 2               | 50         | Yes             | " " (main Rx loop)   |
|                              | 79-27 1               | 60         | Yes             | handling of valve  |
|                              | 80-01 None            | 60         | Yes             | 766 reported 4 hrs inspection but not documented in rpt. NDE (investigation)           |
|                              | 80-20 1               | 80         | Yes             | Pipe supports inspected  |
|                              | 80-23 None            | 80         | Yes             | welding, welder qual   |
|                              | 81-09 2               | 80         | Yes             | NDE  |
|                              | 81-16 1               | 90         | Yes             | NDE  |
|                              | 81-18 1               | 90         | Yes             | NDE  |
|                              | 82-03 1               |            | Yes             | Not evident that line item 3 completed   |
| 49054B                       | 80-19 1               | 30         | Yes             | 1. leg. 2 syst - 5 air = 10 2. 2 runs 3. NDE - 2 syst 4. 5 - as built                  |
|                              | 82-11                 | 30         | Yes             |  |
| 49055B                       | 79-04 1a-e            | 40         | Yes             | 3 main loop spools   |
|                              | 80-14 1a-e            | 80         | Yes             |  |
|                              | 82-11                 | 100 C      | Yes             |  |
| 49056 B                      | 80-14 1a-e            | 80         | Yes             |  |
|                              | 82-11                 | 100 C      | Yes             |  |
| <b>SAFETY RELATED PIPING</b> |                       |            |                 |  |
| 49061 B                      | 77-07 reviewed status | 10         | Yes             | Should take credit under 49051B  |
|                              | 77-08 *               | 30         | Yes             | Previously verified.   |
|                              | 77-09 *               | 80         | Yes             | 500 lbs. weight handling at 2 ft above deck level.                                     |
|                              | 80-26 2               | 100 C      | Yes             | 7-procedures welding reviewed  |
| 49063 B                      | 77-10 1, 2            | 10         | Yes             | Reg: Obtain 10 activities - 2 activities controlled 3. Two pipe runs 4. Three as built |
|                              | 78-07 1, 2            | 10         | Yes             | Unit 1 and feed pipe spool field fab.  |
|                              | 79-19 1, 2            | 80         | Yes             | 8 of 10 clean for installation of L  |
|                              | 80-26 1, 2            | 100 C      | No              | Plant with thru unit 1, 2 to b stop handling installation. Line items 2 & 4            |
| 49063 C                      | 78-13 1               | 20         | Yes             | welding in SW/ES   |
|                              | 78-16 1               | 20         | Yes             | welding handling -   |
|                              | 78-20 1               | 30         | Yes             | welding, install in 32/CT system   |

FACILITY

REVIEWER

No. 1  
UNIT

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| MODULE                                   | REPORT LINE ITEM    | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|--|---------------------|------------|-----------------|--|
| 49063C                                   | 79-06 1             | 30         | Yes             | 1951.  |
|  | 79-16 1             | 50         | Yes             | 1952 - SJ  |
|  | 79-24 1             |            | Yes             | SJ   |
|  | 80-01 1             | 60         | Yes             | • SJ/RC 60%T welding   |
|  | 80-03 1             | 50         | Yes             | • Many x-rays various syst   |
|  | 80-16 1             | 70         | Yes             | • MS/FW welding  |
|  | 80-23 1             | 90         | Yes             | • NDE - various various syst   |
|  | 81-02 1             | 90         | Yes             | Handling / welds   |
|  | 81-06 1, 2, 3       | 80         | Yes             | Handling   |
|  | 81-16 None          | 90         | Yes             | • Handling   |
|  | 81-18 None          | 90         | No              | • Ask Fred from 1 c 7  |
|  | 81-18 None          | 90         | Yes             | only NDE in report<br>• NDE of FW welds  |
|  | 82-03 1             |            | Yes             | • Handling unit 2 only   |
|  |                     |            | Yes             | • NDE - various syst   |
|  |                     |            | Yes             | • Nothing but welding  |
|  |                     |            | Yes             | • NDE  |
|  |                     |            | Yes             | • Storage handling, installation   |
|  |                     |            | Yes             | • NDE - various (see unit 1)   |
| 49065B                                   | 75-07 1, 2          | 10         | Yes             | 1 spool - wbc (spec. reqs);<br>CMAA, CO de data sheets   |
|  | 79-02 1, 2          | 50         | Yes             | (3) CT&RH syst. - vendor, carts,<br>for pipe & weld out; NDE   |
|  | 79-14 1, 2          | 100 C      | Yes             | CS/AF/CC/CT/AM 1/2 for<br>rec. insp; MIA, weld qual,<br>QC performance; NDE                                  |
| SAFETY RELATED WELDING OF PIPE<br>55081B | 77-09 1, 2, 3       | 40         | Yes             | with item 1 - reviewed when<br>QA page reviewed.   |
|  | 78-12 1, 2          | 100 C      | Yes             | Also reviewed kind, report done<br>with QA section and QA of the job called<br>properly when it should have. |
| 55083B                                   | 77-13 3, 4          | 10         | Yes             |  |
|  | 78-18 1, 2          | 40         | Yes             |  |
|  | 79-02 1             | 50         | Yes             |  |
|  | 79-19 1, 2, 3, 5, 6 | 80         | Yes             |  |
|  | 79-25 3             | 100 C      |                 |  |
| 55083C                                   | 78-13 1             | 10         | Yes             | Procedures time items: (1) weld<br>inspection (2) NDE in progress (3)<br>Post weld heat treatment.           |
|  | 78-15 1             | 10         |                 |  |
|  | 78-16 1, 2*         | 20         |                 | Reviewed x-rays. This really<br>does not fulfill item 2.   |
|  | 78-20 1, 2*         | 30         |                 |  |
|  | 78-22 1, 2*         | 30         |                 |  |
|  | 79-01 1, 2*         | 30         |                 |  |
|  | 79-03 1, 2          | 30         |                 | NDE & LPT  |
|  | 79-06 1             | 30         |                 |  |
|  | 79-13 1, 2*         | 50         |                 |  |
|  | 79-16 1, 2          | 50         |                 | Note: RA, reviewed records of<br>pipe run and inspect<br>first four welds in the run.                        |

Should be both

79-16

INSPECTION PROGRAM STATUS 7 of

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Pocahontas line 10-33-106-2501 R1  
error - should read 10-51-1-000-2501 R1

| MODULE | REPORT | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|--------|--------|-----------|------------|-----------------|--|
| 550836 | 79-17  | None      | 60         | ?               | Report does not document inspecting safety related items |
|        | 79-18  | None      | 60         | ?               | ditto - RCPB on log inside containment                   |
|        | 79-24  | None      | 60         | ?               | ditto - "  |
|        | 79-27  | **        | 60         | **              | did not find report                                      |
|        | 80-01  | 1, 2*     | 60         | Yes             | note 1 line - Com  |
|        | 80-03  | 1, 2*     | 80         | Yes             |  |
|        | 80-08  | 2*        | 80         | Yes             |  |
|        | 80-11  | 1, 2*     | 60         | Yes             |  |
|        | 80-15  | 1, 2*     | 60         | Yes             |  |
|        | 80-16  | 1, 2*     | 70         | Yes             | Note: pipe run inspected                                 |
|        | 80-18  | 1, 2*     | 70         | Yes             |  |
|        | 80-20  | 1, 2*     | 80         | Yes             |  |
|        | 80-23  | 2*        | 90         | Yes             |  |
|        | 80-27  | 1, 2*     | 90         | Yes             |  |
|        | 81-01  | **        | 90         | Yes             | **   |
|        | 81-02  | 1, 2*     | 90         | Yes             |  |
|        | 81-05  | 1, 2*     | 90         | Yes             |  |
|        | 81-06  | 1, 2*     | 80         | Yes             | ? -> 5L-7-RB-099 ?                                       |
|        | 81-09  | 1, 2*     | 80         | Yes             |  |
|        | 81-11  | 1, 2*     | 90         | Yes             |  |
|        | 81-14  | 1, 2*     | 90         | Yes             |  |
|        | 81-18  | 1, 2*     | 90         | Yes             |  |
|        | 82-01  | 1, 2*     | 90         | Yes             |  |
| 55085B | 79-19  | 1-6       | 100 C      |                 |  |
|        | 83-15  | 4         | 100 P      |                 | Independent DOE by NRC                                   |

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| MODULE  | REPORT  | LINE             | ITEM  | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|---------|---------|------------------|-------|------------|-----------------|---|
| REACTOR | COOLANT | PRESS.           | BOUND | WELDING    |                 |   |
| 55071B  | 78-12   |                  | ALL   | 100%       | Yes             |   |
|         | 78-18   |                  |       |            |                 | RC  |
| 55073B  | 78-12   | 3                |       | 10         | Yes             |   |
|         | 78-18   | 3                |       | 10         | Yes             |   |
|         | 79-02   | 2                |       | 20         | Yes             | RCP - Cold leg FWID   |
|         | 79-04   | 1                |       | 20         | Yes             |   |
|         | 79-19   | 1, 2, 3, 4, 7, 8 |       | 70         | Yes             |   |
|         | 79-25   | 4c               |       | 80         | Yes             | NDE   |
|         | 79-31   |                  |       | 80         | Yes             |   |
|         | 80-26   |                  |       | 90         |                 |   |
|         | 80-28   |                  |       | 90         |                 | (ALL)   |
|         | 83-15   |                  |       | 100 C      |                 | NO HT was observed.<br>only 2 rats no PT/MT HT  |
| 55073C  | 78-13   | 1, 3             |       | 10         | Yes             | Req. by Holdtime: (1) observe welds (2) NDE complete welds (3) post weld HT, (4) multi Cx. HT |
|         | 78-14   | 1                |       | 10         | Yes             |   |
|         | 78-20   | 1, 2             |       | 10         | Yes             |   |
|         | 78-22   | 1                |       |            | Yes             |   |
|         | 79-01   | 1, 2, 4          |       | 20         | Yes             | main leg  |
|         | 79-03   | 1, 2             |       | 20         | Yes             | CAD seal weld - RCP leg 2   |
|         | 79-06   | 1, 2             |       | 30         | Yes             | Rx loop<br>NDE CT--513-06-1<br>NDE  |
|         | 79-13   | 2                |       | 40         | Yes             |   |
|         | 79-16   | 1, 2, 4          |       | 50         | Yes             |   |
|         | 79-17   | 1, 2             |       | 40         | Yes             |   |
|         | 79-18   | 1, 2             |       | 50         | Yes             |   |
|         | 79-24   | 2                |       | 60         | Yes             |   |
|         | 79-27   | 1, 2             |       | 60         | Yes             |   |
|         | 79-29   | 1, 2, 4          |       | 60         | Yes             |   |
|         | 80-01   | 1, 2             |       | 60         | Yes             |   |
|         | 80-03   | 1, 2             |       | 50         | Yes             |   |
|         | 80-08   | 1, 2             |       | 60         | Yes             |   |
|         | 80-11   | 1, 2, 4          |       | 80         | Yes             |   |
|         | 80-15   | 1, 2             |       | 70         | Yes             |   |
|         | 80-16   | 1, 2, 4          |       | 70         | Yes             |   |
|         | 80-18   | 1, 2, 4          |       | 70         | Yes             |   |
|         | 80-20   | 1, 2, 4          |       | 80         | Yes             | Note: RRI did as built<br>majority found clean<br>did not check, took at this?                |
|         | 80-27   | 1, 2, 4          |       | 80         |                 |   |

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| MODULE  | REPORT | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|---------|--------|-----------|------------|-----------------|--|
|         | 81-01  | 1, 2, 4   | 80         |                 |  |
|         | 81-02  | 1, 2, 4   | 80         | Yes             |  |
|         | 81-05  | 1, 2, 4   | 90         | Yes             |  |
|         | 81-06  | 1, 2, 4   | 80         | Yes             | KRI work down as AS built review                                     |
|         | 81-09  | 1, 2, 4   | 80         | Yes             |  |
|         | 81-11  | 4         | 90         | Yes             |  |
|         | 81-14  | 2         | 90         | Yes             | NDE x-ray of complete weld   |
|         | 81-16  | 2         | 90         | Yes             | " " "  |
|         | 81-18  | 2         | 90         | Yes             | on going radiography   |
|         | 82-03  | 2         | 90         | Yes             |  |
| 55074 B | 80-13  | 1, 2, 3   | 30         | Yes             | (1) obs. welds & gages (2) 4 post pass-                              |
|         | 80-14  | 1, 2, 3   | 50         | Yes             | (3) pipe fitting gages (4) NDE in program (5) post HT                |
|         | 80-17  | 3         | 60         | Yes             |  |
|         | 80-19  | 3         | 90         | Yes             |  |
| 55075 B | 79-31  | 1, 2      | 80         | Yes             |  |
|         | 80-24  | 3, 4      | 100 C      | No              | * RBNCR req. but only 10. reviewed split between the provided        |
| 55076 B | 80-14  | 1, 2      | 80         | Yes             |  |
|         | 80-24  | 3         | 100 C      | No              | * RBNCR req. = The no. of NCR's reviewed was 4 short of required no. |
|         | 83-15  | 1, 2      | 100 P      | No              |  |
|         |        |           | 11         |                 |  |

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| MODULE | REPORT | LINE ITEM | % COMPLET | RECORDS CORRECT | COMMENTS   |
|--------|--------|-----------|-----------|-----------------|--|
| 50051B | 77-07  | 1, 2a     | 10        | Yes             |  |
|        | 78-09  | 1, 2b     | 50        | Yes             |  |
|        | 80-26  |           | 100 C     | NO              | Does not document inspection of vessel installation procedure Reg. (1) Rec. / Stone (2) Install (3) Prot. after installation             |
| 50053B | 77-07  | 1         | 10        |                 |  |
|        | 78-05  | 1         | 30        |                 |  |
|        | 78-09  | 2         | 50        |                 | Set vessel installation was not observed completely  |
|        | 80-26  |           | 100 C     |                 |  |
| 50053C | 78-13  | None      | 10        | NO              | Reg: (1) Storage (2) Install (3) In place storage  |
|        | 78-16  | ?         | 30        | ?               | only internal inspected by 50063C.   |
|        | 78-20  | 3         | 30        | Yes             |  |
|        | 78-22  | 3         | 30        | Yes             |  |
|        | 79-03  | 3         | 30        | Yes             |  |
|        | 79-06  | 3         | 30        | Yes             |  |
|        | 79-16  | 3         | 50        | Yes             |  |
|        | 79-17  | 3         | 60        | Yes             |  |
|        | 79-24  | 3         | 50        | NO              |  |
|        | 80-08  | 3         | 50        | Yes             |  |
|        | 80-15  | 3         | 90        | Yes             |  |
|        | 80-23  | 3         | 50        | Yes             |  |
|        | 81-11  | 3         | 90        | Yes             |  |
|        | 82-03  | 3         | 90        | Yes             |  |
| 50055B | 78-05  | 1         | 30        | Yes             | 1) Stone 2) Handle 3) In place Store (4) records/work complete (5) Assesst   |
|        | 78-09  | 1, 2      | 50        | Yes             |  |
|        | 78-10  | 2         | 60        | Yes             |  |
|        | 80-26  | None      | 100 C     | NO              | Rpt only documents inspecting internal out vessel. Also Line items 4 and 5 were not completed and/or documented and NO records reviewed. |
| 50061B | 78-09  | 2a        | 30        | Yes             |  |
|        | 80-26  | 2a        | 100 C     | NO              | Insip. Rpt does not document number of procedures for line items 2b, 2c, 2d, 2e  |
| 50063B | 78-09  | 1         | 30        | Yes             | No 766 to document this insip.   |
|        | 82-15  | 1, 2, 3   | 100 C     | Yes             | " " " " " "  |



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| MODULE                           | REPORT | LINE ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|----------------------------------|--------|-----------|------------|-----------------|---|
| 50063 C                          | 78-13  | 1         | 20         | Yes             |   |
|                                  | 78-20  | 1         | 30         | Yes             |   |
|                                  | 78-22  | 1         | 30         | Yes             |   |
|                                  | 79-01  | 1         | 30         | Yes             |   |
|                                  | 79-03  | 1         | 30         | Yes             |   |
|                                  | 79-06  | 1         | 30         | Yes             |   |
|                                  | 79-16  | 1         | 50         | Yes             |   |
|                                  | 79-29  | 1         | 50         | Yes             |   |
|                                  | 80-15  | 1         | 50         | No              | Inspection not documented   |
|                                  | 80-16  | 1         | 50         | No              | Inspection in report not no.  |
|                                  | 80-23  | 2, 3      | 50         | No              |   |
|                                  | 81-09  | 2, 3      | 90         |                 |   |
|                                  | 81-11  | 2, 3      | 90         |                 |   |
|                                  | 81-18  | 3         | 90         |                 |   |
|                                  | 82-03  | 3         | 90         |                 |   |
| 50065 B                          | 78-09  | 1         | 30         | Yes             |   |
|                                  | 79-39  | 1         | 50         | Yes             |   |
|                                  | 82-15  | 1, 2, 3   | 100        | Yes             |   |
| <b>SAFETY RELATED COMPONENTS</b> |        |           |            |                 |   |
| 50071 B                          | 77-09  | 2a - c    | 50         | Yes             |   |
|                                  | 78-03  | 1         | 80         | Yes             | Note: Review of BROC Pgm. NSSC inst. procedures?                                |
|                                  | 78-04  | 2a - d    | 50         | No              | Should not be less than 80%   |
|                                  | 79-23  | 2a - d    | 80         | Yes             | could have closed at 100% after this inspection.                                |
|                                  | 82-11  | None      | 100 C      | No              | Procedures for components in 50071 B were not revised / documented.             |
| 50073 B                          | 78-21  | 2         | 10         | Yes             | HPSE (Motor & Valve) Ring Positive Displacement Pump                            |
|                                  | 79-04  | 2a        | 10         | Yes             |   |
|                                  | 79-08  | 2b        | 15         | Yes             | Pressurizer Safety Valve (in Safety Inj. Check Valve) Four Motor Control valves |
|                                  | 79-31  | 2c        | 30         | Yes             |   |
|                                  | 80-05  | 2c        | 60         | Yes             |   |
|                                  | 80-10  | 2c        | 100 C      | No              | 100% reported but line item 2b, 2a, 2c not inspected or documented in WRC Rpt.  |
|                                  | 81-08  | 2b        | 80         | Yes             | Two per valve one SV also claimed   |
| 766 error                        | 81-18  | None      |            | No              | Not inspected   |
|                                  | 82-11  | None      | 60 C       | No              | Rpt does not describe component inspected / document line items inspected.      |

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No. 1  
UNIT

RECORDS

CORRECT

COMMENTS

| MODULE        | REPORT | LINE                                | ITEM | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|---------------|--------|-------------------------------------|------|------------|-----------------|--|
| 50073 C       | 78-13  | 1,                                  | 4    | 10         | Yes             | 1. Quarterly required inspection accumulated, valve / pump / elect. and mtr's                                    |
|               | 78-16  | 1                                   |      | 20         | Yes             | 2. Aux feed pump, ccw heat x, valve mtr operators  |
|               | 78-20  |                                     | 4    | 20         | Yes             | 1. Aux FW, S2, CCW pumps and motor driven valves provided.   |
|               | 79-01  | 1                                   | 4    | 20         | Yes             | Various components but not identified  |
|               | 79-06  | None                                |      | 50         | No              | Editto previous comment  |
|               | 79-18  | 1, 3                                | 4    | 50         | Yes             | Inspection Rpt does not document components ins.   |
|               | 80-20  | 1                                   | 4    | 80         | Yes             | Specific components inspected not identified.  |
|               | 81-06  | 1                                   | 4    | 80         | Yes             | Specific components inspected not identified.  |
| 50074 B       | 79-31  | 2c.                                 |      | 20         | Yes             | Four mtr valves as under 50073B  |
|               | 80-05  | 2c.                                 |      | 60         | Yes             | Components not identified in rpt.  |
|               | 80-12  | 2c.                                 |      | 100 C      | No              | 100% reported but line items 2a, 2b, 2d not inspected or documented in the report; however, notes indicate done. |
|               | 81-08  | visual of two P&RV & one SRV.<br>2b |      | 80         | Yes             | also only 3 of 4 component inspected.  |
|               | 82-11  | None                                |      | 100 C      | No              |  |
| 50075 B       | 78-21  | 1c.                                 |      | 10         | Yes             | Control room Vent. Fan   |
|               | 79-04  | 1a, 3                               |      | 10         | Yes             | Four mtr control valves  |
|               | 79-31  | 1a                                  |      | 30         | Yes             |  |
|               | 80-05  | 1a, b, c                            |      | 60         | Yes             | Cont. spray, boron, and safety injection pumps   |
|               | 81-08  | 1a, c                               |      | 80         | Yes             | Two Power operated and one safety relief valve & pressuriz.  |
|               | 82-11  | None                                |      | 100 C      | No              |  |
|               | 82-11  | None                                |      | 100 C      | No              | Four motor valves prev. identified.  |
| 50076 B       | 79-31  | 1a.                                 |      | 20         | Yes             |  |
|               | 80-05  | 1b, c                               |      | 50         | Yes             | cont. spray pumps; boron injection and safety injection pumps  |
|               | 81-08  | 1a, c                               |      | 80         | Yes             |  |
|               | 82-11  | None                                |      | 100 C      | No              | Rpt. does not describe P&RV/safety related components inspected.   |
| PIPE SUPPORTS |        | S.C. 1(d) (six tramps)              |      |            |                 |  |
| 50090 B       | 80-29  |                                     |      | 50         | No              | only small part of procedure inspected i.e. 1 of 4 fixed tramps  |
|               | 81-13  | 1, 2, 3a                            | 4    | 60         | Yes             | Unit 1 - three restraints  |
|               | 81-15  | 3b, 12k; 4                          |      | 60         | Yes             | for S2 FEWS system   |
|               | 81-19  | 1, 2, 3d.                           |      | 70         | Yes             | 5 one iso confirmed - 6 support small bore; 3 large bore   |
|               | 82-05  | 1, 3b(alt), 3d                      |      | 70         |                 |  |
|               | 83-19  |                                     | 4    | 100 C      |                 |  |

INSP. RPTS  
80-25 81-13 81-15 81-19 82-05 83-19

| Line Item | NOTES  | 80-25    | 81-13 | 81-15 | 81-19 | 82-05 | 83-19                 |
|-----------|--|----------|-------|-------|-------|-------|-----------------------|
| 3a        | Ten snubbers prior to install                              |          | 10?   |       |       |       |                       |
| 3b        | Ten installed snubbers<br>Ten fixed supports (Spring type) |          | 10?   |       | 6ccw  |       |                       |
| 3c        | Ten fixed support components                               |          |       | 5ccw  |       |       |                       |
| 3d        | Three to 5 as built  | 5ccw     | 5ccw  |       | 5ccw  | 23CT  |                       |
| 4         | Twenty records of dynamic tested<br>dynamic fixed          | 5 (part) | 10    | 5 CT  | 6ccw  | 5 CT  | 653/AF<br>1051<br>272 |

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| MODULE                   | REPORT           | LINE ITEM               | % COMPLETE    | RECORDS CORRECT | COMMENTS   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|--------------------------|------------------|-------------------------|---------------|-----------------|--|------------|----|----|---|---|---|----|---|----|--------|----|----|----|----|----|----|---|---|--|--|--|--|--|--|
|                          |                  |                         |               |                 |  | Line Items |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
| PIPE SUPPORTS            |                  |                         |               |                 |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          |                  |                         |               |                 | <table border="1"> <tr> <td>1</td> <td>2</td> <td>3a</td> <td>b</td> <td>c</td> <td>d</td> <td>4a</td> <td>b</td> </tr> <tr> <td>No</td> <td>requir</td> <td>20</td> <td>20</td> <td>10</td> <td>10</td> <td>15</td> <td>15</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | 1          | 2  | 3a | b | c | d | 4a | b | No | requir | 20 | 20 | 10 | 10 | 15 | 15 | X | X |  |  |  |  |  |  |
| 1                        | 2                | 3a                      | b             | c               | d  | 4a         | b  |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
| No                       | requir           | 20                      | 20            | 10              | 10   | 15         | 15 |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
| X                        | X                |                         |               |                 |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
| 50090C                   | 79-13            | 1, 2                    | 60            | Yes             | Rpt did not document.  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 79-24            | None                    | 40            | No              |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 79-27            |                         | 40            | Yes             |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 80-04            | None                    | 50            | No              | " " " "  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 80-01            | None                    | 30            | No              |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 80-15            | 3b c 4a b               | 40            | Yes             | 3b c 4a b 17 (not identified)  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | <del>80-15</del> |                         | <del>40</del> |                 |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 80-16            | d. Ho                   | 50            | Yes             | d. Ho  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 80-18            | 3 b                     | 50            | Yes             |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 80-20            | 3.c (b)                 | 50            | Yes             | 3c 4   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 80-23            | ?                       | 40            | Yes             | Items inspected not specifically ident. listed in Rpt.   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 80-27            | None                    | 40            | No              | Rpt documented no inspection of supports   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 81-01            |                         | 40            |                 |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 81-02            | 3 a-d 4 a-b             | 50            | Yes             | 8  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 81-06            | 3                       | 50            | Yes             | 2-Large Restraints   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 81-09            | None                    | 60            |                 |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 81-14            | not identified          |               | Yes             | Inspected while performing investigation   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 82-03            | " "                     | 80            |                 | " " "  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
| 50095B                   | 82-09            | 021, 022, 023 (in part) | 60            | Yes             | 021 Proc (all except procurement) 022 Done ~ 023 b not done 023 b, c   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
| CONTAINMENT PENETRATIONS |                  |                         |               |                 |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
| 53051B                   | 76-06            | None                    | 10            | No              | 76 errors i.e. 53051B reported not 53051B  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 76-07            | ALL                     | 100 C         | Yes             |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
| 53053B                   | 76-07            | ALL for Mech. Pen.      | 10            | Yes             | Misc. mech. one elect. mentioned   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 78-09            | 1b, c, e                | 30            | Yes             | Personnel hatch + emerg. airlock   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 78-19            | 1b, c, e                | 40            | Yes             | Main steam penetr.   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 79-02            | 3                       | 50            | Yes             | FW 40 on piping penetr.  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 81-04            | 1a, c, d                | 60            | Yes             | Elect. Penetr. 2E4, 2E44   |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |
|                          | 82-15            | 1c                      | 100 C         | Yes             |  |            |    |    |   |   |   |    |   |    |        |    |    |    |    |    |    |   |   |  |  |  |  |  |  |

REVIEWER \_\_\_\_\_

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 NO. 1  
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DATE \_\_\_\_\_

| MODULE                       | REPORT  | LINE ITEM        | % COMPLETE       | RECORDS CORRECT | COMMENTS  |                                  |
|------------------------------|---------|------------------|------------------|-----------------|---|----------------------------------|
| 53053 C                      | 78-20   | *                | 40               | Yes             | m1-7 & m1-12 main feed water & steam gen. blowdown building. MS 2 & 11-12 |                                  |
|                              | 79-01   | *                | 50               | NO              | Rpt does not document.  |                                  |
|                              | 79-03   | *                | 50               | NO              | " " " "   |                                  |
|                              | 79-06   | *                | 50               | NO              | " " " "   |                                  |
|                              | 79-13   | *                | 50               | Yes             | m1-4 inspected.   |                                  |
|                              | 79-18   | *                | 80               | Yes             | Elect. Penetration 1E-60  |                                  |
|                              | 79-29   | *                | 50               | Yes             | Elect. Penetration, ES-12   |                                  |
|                              | 82-03   | *                | 100              |                 | * Did not determine because difficult to identify line items inspected.   |                                  |
|                              | 53055 B | 78-09            | 1-3              | 20              | Yes   |                                  |
| 82-04                        |         | 1-3              | 70               | Yes             |   |                                  |
| 82-15                        |         | 3d               | 100              | Yes             |   |                                  |
| OUT STRUCTURAL STEEL WELDING |         |                  |                  |                 |   |                                  |
| 55051 B                      | 76-06   | ALL              | 100 C            | No              | 766 error entry i.e. date not keyed in                                    |                                  |
| 55053 B                      | 76-01   | None             | 10               | NO              | line 3 items 1 2 3 4 5  |                                  |
|                              | 76-03   | 1                | 10               | Yes             | liner plate   |                                  |
|                              | 76-04   | 1, 2, 3, 4       | 30               | Yes             | 5 5 5 5 (5 welds on liner plate)  |                                  |
|                              | 76-07   | 1 2 3 4          | 40               | Yes             | (2 liner plate seams only to Penetration)                                 |                                  |
|                              | 76-09   | 1, 2, 3, 4, 5    | 60               | Yes             | (2 seams) (shell ring)  |                                  |
|                              | 77-03   | 2 5              | 80               | NO              | 1   |                                  |
|                              | 77-08   | 2 5              | 80               | Yes             | 2 2 expand liner back-seis to liner                                       |                                  |
|                              | 77-09   | 2 5              | 80               | Yes             | 3 3 ditto   |                                  |
|                              | 78-10   | 1, 2 4           | 90               | Yes             | 2 2 2   |                                  |
|                              | 78-12   | None             | 100 C            | Yes/No          | None  |                                  |
|                              | 78-18   | None             | 100 P            | Yes             | None  |                                  |
|                              | 81-17   | 1, 2 4           | 100 P            | Yes             | No not documented   |                                  |
|                              | 5055 B  | 76-01            | None             | 10              | NO  | line items 1, 2 3 4 5 6 7 8 9 10 |
|                              |         | 76-04            | 1, 2, 3, 4, 5, 6 |                 | NO  |                                  |
| 76-07                        |         | 4 7              | 20               | Yes             | 6 → (six welds liner)   |                                  |
| 76-09                        |         | 1, 2, 3, 4, 5, 6 | 30               | Yes             | x x (multiple)  |                                  |
| 77-03                        |         | 2, 3, 4, 6       | 50               | Yes             | 2 → (two seam welds)  |                                  |
| 78-10                        |         | 4, 6, 7          | 70               | Yes             | 0 2 2 2 2 Air lock Escape Hatch   |                                  |
| 78-12                        |         | 2, 3, 6, 7       | 100 C            | Yes             | 0 0 0 3 0 2 3 Liner Seams   |                                  |
| 78-18                        |         | 1 6, 7           | 100 P            | Yes             | 0 4 4 0 0 9 4 Air lock  |                                  |
| 053 C                        |         | 79-29            |                  | 100 C           | Yes   |                                  |
|                              | 82-03   |                  |                  | <del>Yes</del>  |   |                                  |

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RECORDS  
CORRECT

| MODULE                            | REPORT | LINE ITEM  | % COMPLETE | RECORDS CORRECT | COMMENTS   |
|-----------------------------------|--------|--|------------|-----------------|--|
| SAFETY RELATED STRUCTURES WELDING |        |  |            |                 |  |
| 55061B                            | 77-08  | ALL  | 100 C      | Yes             |  |
|                                   | 77-13  | ALL  | 100 C      | Yes             |  |
| 55063B                            | 77-13  | 2, b, c, d, e, f.                                  | 20         | Yes             | fuel pool liner No. welds?   |
|                                   | 78-19  | 1, 2, 3, 4   | 20         | Yes             | HARC welding No. welds?  |
| X                                 | 79-19  | 5, was not inspected or documented. NONE           | 100 C      | NO              | IR 79-19 reported no inspection of welding SS.   |
| 55063C                            | 78-15  | *  | 50         | Yes             | Did not verify line item, vs. of complete welding was not inspected.   |
|                                   | 81-16  | None   | 60         | NO.             |  |
| 55064B                            | 82-13  | line item 5 was not inspected or docum. 1, 2, 3, 4 | 100 C      | Yes             | nick pipe support welds were inspected.  |
|                                   | 82-15  | ?  | 70         | NO              | weld joints inspected & were not identified. Moment restr.   |
| 55065B                            | 78-19  | 2a, b, c   | 20         | NO              | IR does not document describe welds or no. insp.   |
|                                   | 79-02  | none   | 20         | NO              | IR does not document inspection of S. Steel weld.  |
|                                   | 79-19  | NONE   | 100 C      | NO              | D. Ho above  |
| 55066B                            | 82-13  | 1, 2   | 100 C      | No              | line item 3 and 4 and A. non conformances not done.  |
|                                   | 82-15  | ?  | 90         | NO              | Four steel platforms which appear to be bolted.  |
|                                   | 83-15  | 2 ?  | 100 P      | NO              | All of line item 1 were not inspected and or documented i.e. line items 3 and 4 not inspected. Item 2 is doubtful.   |
|                                   |        |  |            |                 | Note: inspection of 55064B structures require inspection of welding while IR 82-15 documents bolting of steel structures which should be reported under 44063B or 44064. |
|                                   |        |  |            |                 | Note: Should be reported under 50090 B i.e. supports Restraints, ect Also appears that welding done by offsite vendor. Line items 1-5 not done.                          |

End of found  
No Unit 2 3/12/06

REVIEWER

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UNIT STEEL STRUCT.  
55152-55154B

IN 82-07

100%

RECORDS

MODULE REPORT LINE ITEM % COMPLETE

CORRECT

COMMENTS

| MODULE       | REPORT LINE ITEM                              | % COMPLETE | RECORDS CORRECT | COMMENTS                          |
|--------------|---|------------|-----------------|-----------------------------------|
| STEEL STRUCT | VISUAL  |            |                 |                                   |
| 55155B       | NOT APPLICABLE (N/A)                          |            | NA              | NA                                |
|              | REACTOR COOLANT LOOP WELDING PROCEDURE        |            |                 | →                                 |
| 55171B       | NA  |            |                 |                                   |
|              | REACTOR COOLANT LOOP (RCL) WELD MAT'L CONTROL |            |                 | →                                 |
| 55172B       | NA  |            |                 |                                   |
|              | RCP - observe welding                         |            |                 | →                                 |
| 55173B       | NA  |            |                 |                                   |
|              | RCP Visual Exam of welds                      |            |                 | →                                 |
|              | NA  |            |                 | →                                 |
|              | RCP   |            |                 | →                                 |
| 55175B       | NA  |            |                 |                                   |
|              | RCP WELD HEAT TREAT                           |            |                 | →                                 |
| 55176B       | NA  |            |                 |                                   |
|              | RCP WELDER QUAL                               |            |                 |                                   |
| 55177B       | 82-04   | 0          |                 | INSPECTED BUT DONE UNDER OLD PGM. |
| 55151B       | -18XB   | NA         |                 | →                                 |

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UNIT  
MODULE REPORT LINE ITEM % COMPLETE RECORDS CORRECT COMMENTS

← NA →

↓  
55188B

||

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UNIT

| MODULE              | REPORT LINE | ITEM               | % COMPLETE | RECORDS CORRECT   | COMMENTS  |
|---------------------|-------------|--------------------|------------|---|---|
| ELECT. COMP. & SVST |             |                    |            |   |   |
| 51051B              | 77-13       | 1, 2a, 2e          | 10         | Yes   | Reference QA manual review. But 3300 not by 21 Dept. 21 Dept. 51051B and cable tray hangers, etc. |
|                     | 79-04       |                    | 10         | Yes   |   |
|                     | 79-14       | 2c                 | 50         | Yes   |   |
|                     | 79-23       | 2abce              | 80         | Yes   | 13 procedures   |
|                     | 79-28       | 2 (various)        | 90         | Yes   | 20% incorrect. No procedure review documents. This, apparently corrects the previous error.       |
|                     | 80-17       | None               | 20         | No  |   |
|                     | 82-11       | None               | 100%       | Yes   | stone D.G.  |
|                     | 51053B      | 78-07              | 1b         | 20  | Yes   |
| 51053B              | 79-28       | 1b                 | 30         | Yes   | 11 DG Records reviewed for 6.9KV SVST   |
|                     | 80-26       | 2, 3               | 70         | Yes   | Installation of 48V VAC - mce at 6.9 SVST; 20%  |
|                     | 81-07       | None               | 70         | Yes   | No work observed and records reviewed had 100% complete not change of date: CAT Finished          |
|                     | 83-19       | None               | 70         | Yes   | 1. store 2. install 3. mte 4. mte 5. setting/testing  |
| 51053C              | 78-13       | 1b, f of 1a-n      | 10         | Yes   |   |
|                     | 78-16       | 2, f. of 2a-d      | 20         | Yes   |   |
|                     | 79-01       | 1b, f; 2f          | 10         | Yes   |   |
|                     | 79-14       | 1m; 2f             | 10         | Yes   | Handling of shutdown panel. 78. SE Battery rack in place records reviewed                         |
|                     | 80-01       | 2a, f              | 40         | Yes   | Inspection of ac recept in place from acceptance 2f. - in place storage.                          |
|                     | 80-08       | 2f                 | 30         | Yes   | cable pulling in space  |
|                     | 80-18       | 2f, c              | 50         | Yes   | 2c. embed on short built beam structure.  |
|                     | 80-20       | 1a, d, f, e        | 80         | Yes   | Storage of mce, corr. room panels; cable pull-out stored. logup general                           |
|                     | 81-01       | 2a, b, d, f, e     | 80         | Yes   |   |
|                     | 81-18       | 2f                 | 90         | Yes   | Elect. cable pull on by no components in space  |
| 82-01               | None        | 50                 | No         | Instrumentation not complete inspected. line items not inspected. |   |
| 51054B              | 79-04       | 2 (in part)        | 10         | Yes   | 3 motors  |
|                     | 80-26       | None               | 50         | No  | This report only documents inspecting instruments / v.b.  |
|                     | 81-07       | None               | 50         | No  | Diesel Gen + switchgear is 51053B line item. D.G. not loc at DC power syst. elec. motors.         |
|                     | 82-10       | None               | 90         | No  | Components not inspected  |
| 51055B              | 78-07       | 1b (for D.G. only) | 20         | No, D.G. only   | Storage: CI Motor (mtr), 52 m ccw mtr; term. nation rec. Diesel Gen battery                       |
|                     | 79-04       | None               | 20         | No, only instruments  | ccw mtr; RHA mtr, CI mtr 52 mtr; main control panel   |
|                     | 80-07       | None               | 10         | No, only instruments  | No, only instruments in space - not complete  |
|                     | 80-17       | 3a, d, b           | 20         | Yes   | 1480V motor (mce), one 120V inverter; 120 VAC / 48V trans.  |
|                     | 80-26       | None               | 70         | No  | Not documents inspecting instrumentation - not complete   |
|                     | 82-11       | None               | 100%       | No  | Rpt does not document review of records   |



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| MODULE              | REPORT | LINE ITEM                     | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|---------------------|--------|-------------------------------|------------|-----------------|---|
| 5105613             | 79-28  |                               | 20         | Yes             | Only information in inspection - not complete   |
|                     | 80-26  | None                          | 50         | No              | See comments above  |
|                     | 81-13  | None                          | 90         | No              | for 51054B. Rpt does not document.  |
| <sup>2A</sup> ELECT | CABLES | TERMINATIONS                  |            |                 |   |
| 51061B              | 77-13  | 1, 2a, c                      | 10         | Yes             | 10 procedures reviewed + QA manual  |
|                     | 79-04  | 2a, c, d                      | 10         | Yes             |   |
|                     | 79-14  | 2b, c, d                      | 10         | Yes             |   |
|                     | 79-19  | None                          | 20         | No              | Procedures reviewed not documented  |
|                     | 79-25  | 2b, c                         | 40         | Yes             |   |
|                     | 79-28  | 2a, b, c, d<br>e, f, g, h     | 90         | Yes             | 4-cc procedures reviewed<br>4- ins tall procedures<br>6-cc procedures                         |
|                     | 80-01  | 2c                            | 90         | Yes             |   |
|                     | 80-13  | 2b, c, e                      | 90         | Yes             |   |
|                     | 80-21  | ?                             | 90         | Yes             | Rpt did not document procedures reviewed.<br>D.H. above                                       |
|                     | 80-24  | ?                             | 90         | Yes             | D.H. above  |
|                     | 81-03  | ?                             | 90         | Yes             |   |
|                     | 82-15  | 2d(3)<br>h, i                 | 100c       | Yes             | <del>Inspected</del><br>2a. Stor 2b. that control cabinet                                     |
| 51063B              | 77-13  | 2a                            | 10         | Yes             | Inspected cable tray supports   |
|                     | 79-14  | 2c.(6)                        | 10         | Yes             | No. cables not stated nor type.   |
|                     | 79-19  | 2a, b, c(1)                   | 10         | Yes             |   |
|                     | 79-25  | 2c(1)                         | 20         | Yes             | Some cable inspected in installation but documentation.                                       |
|                     | 80-13  | 2c.(8)(6)                     | 20         | Yes             | Class 1C Cable E0000379A, B, C  |
|                     | 80-21  | 2a, b                         | 20         | Yes             | Pull cards + records for 30 cables reviewed.<br>11 cables - type?                             |
|                     | 80-24  | 2c(1)(6)                      | 60         |                 |   |
| 51063C              | 82-09  | 2c.(8)(6)                     | 100        |                 | 8 per } Termination in spec<br>5 control } calibrated tools                                   |
|                     | 79-06  | * Not verified to "c" Pan but | 40         | Yes             | • Cable tray supports records<br>• DR inspection of tray                                      |
|                     | 79-18  | 2c(1)(3X6)                    | 10         | Yes             | • Cable (unspecified type/no observed) present.   |
|                     | 79-24  | 2c(2)(3)                      | 10         | Yes             | • Safety train A cable m/c to m/c   |
|                     | 79-27  | -                             | 10         | Yes             | Reviewed specification E-5-1  |
|                     | 79-29  | -                             | -          |                 |   |
|                     | 80-01  | 2c.(1)(6)                     | 10         | Yes             | DR cable m/c XEB-3 to Ser<br>with intake B/D SA Cable<br>SAOK Room to battery chan            |
|                     | 80-03  | 2c.(1)(6) 2d.                 | 40         | Yes             | Control power cable unspc<br>tools - correct not spec   |
|                     | 80-08  | 2c.(1)(6) 2d                  | 30         | Yes             | d, No   |
|                     | 80-11  | 2c(1)(6)<br>2d(1)             | 40         |                 | Termination in main control cabinet<br>and cabinets in spread room<br>unspecified cables pull |

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| MODULE                                 | REPORT | LINE ITEM             | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|--|--------|-----------------------|------------|-----------------|---|
| 51063C (cont'd)                        | 80-15  | 2c(1)                 | 50         | Yes             | Cable pulls unspecified (rev)<br>Cable tray install   |
| union ?                                | 80-16  | -                     | 60         | Yes             | -   |
|  | 80-18  | 2c(1)                 | 60         | Yes             | Cables unspecified  |
|  | 80-20  | 2c(1)<br>2c(3)        | 80         | Yes →           | Cable pull (unspecified)<br>110V AC Dist. Panels Supp   |
|  | 80-23  | 2c(1)                 | 70         | Yes             | Cable pulls (unspecified) obs<br>0A/AC monitor pull chassis<br>Review 0A/AC equal test  |
|  | 80-27  | none                  | 70         | Yes             | -   |
|  | 81-05  | 2a                    | 80         | Yes             | Electric cable storage  |
|  | 81-09  | 2c(3)                 | 80         | Yes             | Debris in cable trays<br>Protect cable in trays   |
|  | 81-11  | none                  | 90         | Yes             | Cable pull (unspec. flammable<br>"Yellow 77" - 50.55c   |
|  | 82-03  | 2c(1)                 | 90         | Yes             | Cable pulls - observed<br>unspecified   |
|  | 83-03  | 2d                    | 100 P      | Yes             | Cable splice elongation - 2 cable<br>corrected action   |
| 51064 B                                | 80-21  | 2c(1)(3)              | 20         | Yes             | 30 cables pull cards/inspec<br>ion records reviewed cables<br>not identified but reports were<br>27 pur/control total route<br>traced |
| GOOD INSPECTION 100% compliance        | 80-24  | 2c(1)(5)(2)(3)<br>(6) | 60         | Yes             | 8 pur Terminations inspect<br>5 control   |
|  | 82-09  | 2c(8)                 | 100 C      | Yes             | 8 pur Terminations inspect<br>5 control   |
| 51065 B                                | 80-21  | 2a, 2b(3)(4)(5)       | 30         | Yes             | Ten instrument cables and<br>terminations - RPS(9) + SR(1)<br>changes to design & NCR,<br>reviewed.                                   |
| 79-19 2a(2pt)                          | 80-24  | 3.a b c               | 40         | Yes             | 10 cables reviewed inspection<br>rpts & trace way schedule  |
| 80-13 2(A cables)                      | 81-03  | 2.b(3)(4)(5)          | 50         | Yes             | 12 pur } NDB. Aggr/contin<br>9 control } test.  |
|  | 82-15  | 2b(1)(2)              | 70         |                 | 23 pur/control cables   |
|  | 83-19  | 2b(1)(2)(6)           | 90         |                 |   |
|  | 84-10  | *                     | 100 C      | Yes             | Cable Spread Room<br>Inspection   |
| 51066 B                                | 80-21  | *                     | 30         | Yes             | 30 cables: IR, MTR, RIR<br>DCA  |
|  | 80-24  | *                     | 40         | Yes             | DCA, NCR, FDR, IRN  |
|  | 81-03  | *                     | 50         | Yes             | *<br>84-10 satisfied  |
|  | 82-15  | *                     | 70         |                 | Review 12 pur + 9 control cables<br>NDB   |
|  | 83-19  |                       | 90         | Yes             | Reviewed records 16 cables<br>" 6 RC inspection   |
|  | 84-10  | ALL                   | 100 C      | Yes             | Very large no. NCRs; find.  |
| Instrumentation (Components & Systems) |        |                       |            |                 | I   |
| 52051 B                                | 79-23  | 2b                    | 60         | Yes             | a. Exam b. Rec. stor. Hand.<br>c. install d. inspec.  |
|  | 80-07  | 2a, b c, d            | 60         | Yes             | 12 procedures   |
|  | 80-26  | 2 c                   | 100 C      | Yes             | 5 procedures  |
|  | 81-10  | '                     | 100 C      | Yes             | 5 procedures - 2 spec   |

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| MODULE                                  | REPORT | LINE ITEM  | % COMPLETE | RECORDS CORRECT | COMMENTS  |
|---|--------|--|------------|-----------------|---|
| 52053B                                  | 80-07  | 1.a;b;c(1)(A)                                    | 10         | Yes             | 1. RPS 2. ESF 3. Plant Cables<br>4. Record Generation<br>mounted instruments: CCW (8); CTE(1); CUCS (9) |
|   | 80-26  | 1.a;b;c(1)                                       | 50         | Yes             |   |
|   | 81-10  | 1.a;b;c(1)-(6)                                   | 70         | Yes             | Instruments: RWST level; control room pressure; contain temp; flow to chillers; Diesel fuel             |
|   | 83-38  | 1.a;b;c(1)-(A)+*(6)<br>B'-Program C not verified | 100C       | Yes             | Instruments   |
| 52053C                                  | 80-18  | 1C(2)  | 10         | Yes             | Instruments not; deal of protection of insulator  |
|   | 80-20  | 1C(2)  | 20         | Yes             |   |
|   | 81-11  | * Did not review<br>11W 11W vs Rpt               | 90         | Yes             | deal of pipe/instrument line looked nice 130m   |
|   | 83-03  | *  | 80         | Yes             | Allegation cable splice   |
| 52054B                                  | 80-26  | See above  | 20         | Yes             | See 52053B above for  |
|   | 81-10  | See above  | 50         | Yes             | See 52053B for equip.   |
|   | 84-10  | ?  | 90         | ?               | RPT does not document components inspected  |
| 52054C                                  | 80-18  | * Did not review<br>11W 11W vs Rpt               | 10         | NO              | cable pull inspected not components   |
|   | 80-20  | *  | 20         | Yes             | 11EVA4 Dist. distribution panel<br>yellowish not management building<br>See 52053B for component        |
| 52055B                                  | 80-26  | *  | 50         | Yes             | See 52054 for component   |
|   | 81-10  | 1. 2(a), (c)(d)                                  | 50         | Yes             | 10 instruments  |
|   | 83-38  | 1; 2c, d   | 100C       | Yes             |   |
| 52056B                                  | 80-26  | 1; 2c(1)(3)                                      | 20         | Yes             | See 52053B for component  |
|   | 81-10  | 1; 2a, c, d                                      | 50         | Yes             | See 52053B<br>10 instruments to do stress   |
|   | 84-10  | ?  | 90         | ?               |   |
| INSTRUMENTATION (CABLES & TERMINATIONS) |        |  |            |                 | See Electrical  |
| 52061B                                  | 79-04  | *  | 10         | Yes             | * Verified these  |
|   | 79-28  | *  | -          |                 | previously under  |
|   | 80-13  | *  | 90         |                 | 51061B  |
|   | 81-03  | *  | 90         |                 |   |
|   | 82-15  | *  | 100C       |                 |   |
| 52063B                                  | 80-13  | **   | 10         |                 | 1 cable pull<br>6 terminations } credit taken for   |
|   | 83-13  | **   | 60         | Yes             | 76 cables inspected   |
|   | 83-15  |  | 90         | Yes             |   |
|   | 84-10  | **   | 100C       | Yes**           | Thru month long with<br>with winch  |
|   |        |  |            |                 | checked through<br>cables; therefore,<br>did not review the item<br>of other reports                    |

REVIEWER

DATE

| MODULE                       | REPORT | LINE ITEM                  | % COMPLETE | RECORDS CORRECT | COMMENTS                                     |
|------------------------------|--------|----------------------------|------------|-----------------|--|
| 52063C                       | 80-11  | *                          | 10         | Yes             | Cable in only one box NOT identified         |
|                              | 80-18  | *                          | 30         | Yes             |  |
|                              | 80-20  | *                          | 80         | Yes             | Cable mentioned not identified as conditions |
|                              | 81-02  | *                          | 40         | No              | Cable not documented as inspected            |
|                              | 81-06  | *                          | 80         | Yes             | two cables inspected                         |
|                              | 81-09  | *                          | 80         | Yes             | unresolved "with" inspected                  |
| 52064B                       | 83-13  | 1:26(1)(2)(3)<br>(5)(7)(8) | 60         | Yes             | ≈ 75 cables                                  |
|                              | 83-19  | * *                        | 90         | Yes             |  |
|                              | 84-10  | * *                        | 100C       | Yes             | See previous comment under 52053B            |
| 52065B                       | 81-03  | * *                        | 10         | Yes             | 15 cables records                            |
|                              | 83-13  | 1:26.c.d                   | 60         | Yes             | 9 cables                                     |
|                              | 83-19  | 2b(1)(2)c:d                | 90         | Yes             |  |
|                              | 84-10  | * *                        | 100C       | Yes             | See comments above under 84-10 re 52063C     |
| 52066B                       | 83-13  | 1:26.c.d                   | 60         | Yes             | 15 cables (see 52065B)                       |
|                              | 83-19  | 2b(1)(2)c:d                | 90         | Yes             | 9 cables                                     |
|                              | 84-10  | * *                        | 100C       | Yes             | See comment above under 84-10 re 52065B      |
| INST. (COMPONENTS & SYSTEMS) |        |                            |            |                 |  |
| 52153C                       | 80-23  | * Don't verify limits      | 10         | Yes             | inspect impulse tubing                       |
|                              | 80-27  | *                          | 10         | Yes             | revised 0 limits equal to 823                |
|                              | 81-01  | *                          | 40         | Yes             | unresolved item on repair procedure          |
|                              | 81-02  | *                          | 40         | Yes             | Cable not ident. fixed storage at speed      |
|                              | 81-11  | *                          | 50         | Yes             |  |
|                              | 82-03  |                            | 60         | Yes             | Cable pulls observed but not identified      |

FACILITY NAME Comanche Peak, UNIT 1 INSPECTOR(S) RC Stewart PRINCIPAL INSPECTOR WOTay  
LICENSEE/VENDOR Texas Utilities Generating REVIEWER WACrossman

TRANS-ACTION TYPE: 0510100445

DOCKET NUMBER: 0510100445

REPORT NO. (A): 8026

DATE INQ/INVEST/INSP FROM (C): 110580 TO (D): 112580

REGION CONDUCTING ACTIVITY (E): 4

CHECK ONE:  Directly,  Indirectly,  Monthly

INSPECTION PERFORMED BY:  REGIONAL OFFICE STAFF,  RESIDENT INSPECTOR,  PERFORMANCE APPRAISAL TEAM

TYPE OF ACTIVITY CONDUCTED (CHECK ONE BOX ONLY):

|  |   |   |  |  |
|--|---|---|--|--|
| <input checked="" type="checkbox"/> SAFETY | <input type="checkbox"/> MANAGEMENT AUDIT | <input type="checkbox"/> MATL. ACCT.    | <input type="checkbox"/> IMPORT          | <input type="checkbox"/> INQUIRY                     |
| <input type="checkbox"/> INCIDENT          | <input type="checkbox"/> MANAGEMENT VISIT | <input type="checkbox"/> PLANT SEC.     | <input type="checkbox"/> INVESTIGATION   | <input type="checkbox"/> INVEST. ALSO CHECK BLOCK 31 |
| <input type="checkbox"/> ENFORCEMENT       | <input type="checkbox"/> SPECIAL          | <input type="checkbox"/> INVENT. VERIF. | <input type="checkbox"/> SHIPMENT/EXPORT |  |
|  | <input type="checkbox"/> VENDOR           |   |  |  |

INSPECTION OR INVESTIGATION WARNING:  ANNOUNCED,  UNANNOUNCED

INSPECTION SHIFT:  DAY SHIFT,  OFF-SHIFT,  WEEKEND/HOLIDAY

INSPECTION/INVESTIGATION NOTIFICATION (CHECK ONE BOX ONLY):

591,  REGIONAL OFFICE LETTER,  REFERRED TO HQS FOR ACTION,  REGION LETTER & HQS FOR ACTION

INSPECTION/INVESTIGATION FINDINGS (CHECK ONE BOX ONLY):

CLEAR,  NONCOMPLIANCE,  DEVIATION,  NONCOMPLIANCE & DEVIATION

ENFORCEMENT CONFERENCE HELD:  YES

NUMBER OF NONCOMPLIANCE ITEMS IN LETTER TO LICENSEE: 00

NUMBER OF DEVIATION ITEMS IN LETTER TO LICENSEE: 00

NOTE: CHANGE MUST BE SUBMITTED ON 766 WHENEVER PREVIOUSLY CITED ITEM OF NONCOMPLIANCE IS OFFICIALLY DELETED FROM THE RECORD.

NUMBER OF LICENSEE EVENTS: 00

46 INSPECTION FEE:  NON-ROUTINE (No Fee),  ROUTINE (No Fee),  ROUTINE (Fee),  ROUTINE (Fee Reduced)

47 CONTENTS 2.7900 INFORMATION:  YES

REGIONAL OFFICE LETTER OR REPORT TRANSMITTAL DATE FOR INSPECTION OR INVESTIGATION

591 OR LETTER ISSUED TO LICENSEE: 122380

REPORT SENT TO HQS FOR ACTION:           

IMMEDIATE ACTION LETTER DATE:           

SUBJECT OF INVESTIGATION (CHECK ONE BOX ONLY) 68-67

|  |  |  |
|--|--|--|
| <input type="checkbox"/> INTERNAL OVEREXPOSURE   | <input type="checkbox"/> INT. OVEREXPOSURE   | <input type="checkbox"/> CRITICALITY           |
| <input type="checkbox"/> EXTERNAL OVEREXPOSURE   | <input type="checkbox"/> EXT. OVEREXPOSURE   | <input type="checkbox"/> LOSS/THEFT            |
| <input type="checkbox"/> RELEASE TO UNREST. AREA | <input type="checkbox"/> EXCESS RAD. LEVELS  | <input type="checkbox"/> MUF                   |
| <input type="checkbox"/> LOSS OF FACILITY        | <input type="checkbox"/> EXCESS CONC. LEVELS | <input type="checkbox"/> TRANSPORTATION        |
| <input type="checkbox"/> PROPERTY DAMAGE         |  | <input type="checkbox"/> CONTAM/LEAKING SOURCE |
|  |  | <input type="checkbox"/> ENVIRONMENTAL EVENT   |
|  |  | <input type="checkbox"/> EQUIP FAILURE         |
|  |  | <input type="checkbox"/> ALLEGATION/COMPLAINT  |
|  |  | <input type="checkbox"/> PUBLIC INTEREST       |
|  |  | <input type="checkbox"/> SABOTAGE              |
|  |  | <input type="checkbox"/> ABNORMAL OCCUR.       |
|  |  | <input type="checkbox"/> OTHER                 |

HEADQUARTERS ENTRIES

HQS ACTION ON INSP/INVEST REFERRED BY REGION:           

DATE HQS ENFORCEMENT LETTER, NOTICE, ORDER ISSUED:           

CIVIL PENALTY ISSUED:

DATE 766 ENTERED INTO COMPUTER FILE (MO/YR):           

NOTE: BLOCKS K TO N MUST BE VERIFIED BY IE. HQS WHENEVER ENTRIES ARE MADE IN BLOCKS T, U AND V

71-3  
Clear

AIIS REFERENCE:

USNRC - INSPECTION & ENFORCEMENT STATISTICAL DATA

(NOTE: % COMPLETE AND STATUS  
LEAVE BLANK FOR MC 92, 93 & 94  
PROCEDURES AND JO 702, 703 &  
30000)

(NOTE: STATUS CODING,  
BLANK TO REMAIN OPEN  
C CLOSED  
I REOPEN & LEAVE OPEN  
P REOPEN THIS TRANSACTION  
ONLY)

(NOTE: MODULE RECORDING  
FOR FOLLOWUP  
USE ONLY WHEN MODULE  
INSPECTED IS 92 701B)

| UNIT | MODULE TRACKING INFORMATION |        |    |      |       |  |                    |        |      |        | NONCOMPLIANCE |    |       |          |       |          |       |          |       |          |       |  |
|------|-----------------------------|--------|----|------|-------|--|--------------------|--------|------|--------|---------------|----|-------|----------|-------|----------|-------|----------|-------|----------|-------|--|
|      | PHASE                       | MANUAL | NO | PROG | LEVEL | DIRECT INSP EFFORTS MAINTAINED THIS INSP | % COMPLETE TO DATE | STATUS | YEAR | MANUAL | PROG          | NO | LEVEL | N/C CODE | S E V | N/C CODE | S E V | N/C CODE | S E V | N/C CODE | S E V |  |
| 0    | 2                           | 9      | 2  | 7    | 0     | 3  | 8                  | 0      | 0    | 2      | 1             | 0  | 0     |          |       |          |       |          |       |          |       |  |
| 1    | 2                           | 4      | 9  | 0    | 6     | 1  | 8                  | 0      | 0    | 2      | 1             | 0  | 0     |          |       |          |       |          |       |          |       |  |
| 2    | 2                           | 4      | 9  | 0    | 6     | 3  | 8                  | 0      | 0    | 2      | 1             | 0  | 0     |          |       |          |       |          |       |          |       |  |
| 3    | 2                           | 5      | 0  | 0    | 5     | 1  | 8                  | 0      | 0    | 2      | 1             | 0  | 0     |          |       |          |       |          |       |          |       |  |
| 4    | 2                           | 5      | 0  | 0    | 5     | 3  | 8                  | 0      | 0    | 2      | 1             | 0  | 0     |          |       |          |       |          |       |          |       |  |
| 5    | 2                           | 5      | 0  | 0    | 5     | 5  | 8                  | 0      | 0    | 2      | 1             | 0  | 0     |          |       |          |       |          |       |          |       |  |
| 6    | 2                           | 5      | 0  | 0    | 7     | 1  | 8                  | 0      | 0    | 2      | 1             | 0  | 0     |          |       |          |       |          |       |          |       |  |
| 7    | 2                           | 5      | 2  | 0    | 5     | 3  | 8                  | 0      | 1    | 6      | 0             | 5  | 0     |          |       |          |       |          |       |          |       |  |
| 8    | 2                           | 5      | 2  | 0    | 5     | 4  | 8                  | 0      | 0    | 2      | 0             | 2  | 0     |          |       |          |       |          |       |          |       |  |
| 9    | 2                           | 5      | 2  | 0    | 5     | 6  | 8                  | 0      | 0    | 2      | 0             | 2  | 0     |          |       |          |       |          |       |          |       |  |



USNRC - INSPECTION & ENFORCEMENT STATISTICAL DATA

(NOTE: COMPLETE AND STATUS. LEAVE BLANK FOR NRC 92, 93 & 94 PROCEDURES AND 30 702, 30 703 & 30 800)

(NOTE: STATUS CODING. BLANK TO REMAIN OPEN C CLOSED I REOPEN & LEAVE OPEN P REOPEN THIS TRANSACTION ONLY)

(NOTE: MODULE RECEIVING FOLLOWUP. USE ONLY WHEN MODULE IS INSPECTED IS 92 701B)

Comanche Peak, Unit 1 DN 50-445/80-26

| MODULE NO |      | N/A |       | C   |     | I   |     | P    |     | S  |    | E    |      | V     |      | N/A |       | N/A |     | N/A |     | N/A  |     | N/A |    | N/A  |      | N/A   |      |    |       |  |  |  |  |
|-----------|------|-----|-------|-----|-----|-----|-----|------|-----|----|----|------|------|-------|------|-----|-------|-----|-----|-----|-----|------|-----|-----|----|------|------|-------|------|----|-------|--|--|--|--|
| PLASM     | CLAS | NO  | LEVEL | DIR | EFF | MAN | EXP | INSP | COM | PL | TE | DATE | STAT | PLASM | CLAS | NO  | LEVEL | DIR | EFF | MAN | EXP | INSP | COM | PL  | TE | DATE | STAT | PLASM | CLAS | NO | LEVEL |  |  |  |  |
| 01        | 0    | 2   | 5     | 1   | 0   | 5   | 3   | B    | 0   | 0  | 1  | 0    | 7    | 0     |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 01        | 1    | 2   | 5     | 1   | 0   | 5   | 5   | B    | 0   | 0  | 1  | 0    | 7    | 0     |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 01        | 2    | 2   | 5     | 1   | 0   | 5   | 4   | B    | 0   | 0  | 1  | 0    | 5    | 0     |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 01        | 3    | 2   | 5     | 1   | 0   | 5   | 6   | B    | 0   | 0  | 1  | 0    | 5    | 0     |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 01        | 4    | 2   | 5     | 2   | 0   | 5   | 5   | B    | 0   | 0  | 8  | 0    | 5    | 0     |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 01        | 5    | 2   | 5     | 2   | 0   | 5   | 1   | B    | 0   | 0  | 4  | 1    | 0    | 0     | C    |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 01        | 6    | 2   | 3     | 0   | 7   | 0   | 3   | B    | 0   | 0  | 1  |      |      |       |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 0         | 7    |     |       |     |     |     |     |      |     |    |    |      |      |       |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 0         | 8    |     |       |     |     |     |     |      |     |    |    |      |      |       |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 0         | 9    |     |       |     |     |     |     |      |     |    |    |      |      |       |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |
| 1         | 2    | 1   |       |     |     |     |     |      |     |    |    |      |      |       |      |     |       |     |     |     |     |      |     |     |    |      |      |       |      |    |       |  |  |  |  |

FACILITY NAME Comanche Peak, Unit 2 INSPECTOR(S) RC Stewart PRINCIPAL INSPECTOR RGT  
LICENSEE/VENDOR Texas Utilities Gen. Co. REVIEWER WACrossman

TRANS-ACTION TYPE:  AE  
DOCKET NUMBER: 050100446  
REPORT NO.: 80216  
DATES INC/INVEST/INSP FROM: 110580 TO: 112580  
REGION CONDUCTING ACTIVITY: 4

INSPECTION PERFORMED BY:  REGIONAL OFFICE STAFF  RESIDENT INSPECTOR  
 PERFORMANCE APPRAISAL TEAM

TYPE OF ACTIVITY CONDUCTED (CHECK ONE BOX ONLY):  
INSPECTION:  SAFETY,  INCIDENT,  ENFORCEMENT,  MANAGEMENT AUDIT,  MANAGEMENT VISIT,  SPECIAL,  VENDOR,  MATL. ACCT.,  PLANT SEC.,  INVENT. VERIF.,  SHIPMENT/EXPORT,  IMPORT,  INQUIRY,  INVESTIGATION,  IF INVEST. ALSO CHECK BLOCK S1

INSPECTION OR INVESTIGATION WARNING:  ANNOUNCED,  UNANNOUNCED  
INSPECTION SHIFT:  DAY SHIFT,  OFF-SHIFT,  WEEKEND/HOLIDAY

INSPECTION/INVESTIGATION NOTIFICATION (CHECK ONE BOX ONLY):  
 S91,  REGIONAL OFFICE LETTER,  REFERRED TO HQS FOR ACTION,  REGION LETTER & HQS FOR ACTION

INSPECTION/INVESTIGATION FINDINGS (CHECK ONE BOX ONLY):  
 CLEAR,  NONCOMPLIANCE,  DEVIATION,  NONCOMPLIANCE & DEVIATION

ENFORCEMENT CONFERENCE HELD:  YES

NUMBER OF NONCOMPLIANCE ITEMS IN LETTER TO LICENSEE: 00  
NUMBER OF DEVIATION ITEMS IN LETTER TO LICENSEE: 00  
NOTE: CHANGE MUST BE SUBMITTED ON 768 WHENEVER PREVIOUSLY CITED ITEM OF NONCOMPLIANCE IS OFFICIALLY DELETED FROM THE RECORD.

NUMBER OF LICENSEE EVENTS: 00

INSPECTION FEE:  NON-ROUTINE (No Fee),  ROUTINE (No Fee),  ROUTINE (Fee),  ROUTINE (Fee Red. Used)

CONTENTS 2.7900 INFORMATION:  YES

REGIONAL OFFICE LETTER OR REPORT TRANSMITTAL DATE FOR INSPECTION OR INVESTIGATION:  
S91 OR LETTER ISSUED TO LICENSEE: 122380  
REPORT SENT TO HQS FOR ACTION:             
IMMEDIATE ACTION LETTER DATE:           

SUBJECT OF INVESTIGATION (CHECK ONE BOX ONLY) 66-67:  
TYPE A:  INTERNAL OVEREXPOSURE,  EXTERNAL OVEREXPOSURE,  RELEASE TO UNREST AREA,  LOSS OF FACILITY,  PROPERTY DAMAGE  
TYPE B:  INT. OVEREXPOSURE,  EXT. OVEREXPOSURE,  EXCESS RAD. LEVELS,  EXCESS CONC. LEVELS  
MISC.:  CRITICALITY,  LOSS/THEFT,  MUF,  TRANSPORTATION,  CONTAM/LEAKING SOURCE,  ENVIRONMENTAL EVENT,  EQUIP FAILURE,  ALLEGATION/COMPLAINT,  PUBLIC INTEREST,  SABOTAGE,  ABNORMAL OCCUR,  OTHER

HEADQUARTERS ENTRIES:  
HQS ACTION ON INSP/INVEST REFERRED BY REGION:           

DATE HQS ENFORCEMENT LETTER, NOTICE, ORDER ISSUED:           

CIVIL PENALTY ISSUED:

DATE 768 ENTERED INTO COMPUTER FILE (MO/YR):           

NOTE: BLOCKS K TO N MUST BE VERIFIED BY IE: HQS WHENEVER ENTRIES ARE MADE IN BLOCKS T, U AND V.  
AITS REFERENCE:



USNRC - INSPECTION & ENFORCEMENT STATISTICAL DATA

(NOTE: % COMPLETE AND STATUS. LEAVE BLANK FOR MC 97, 93 & 94. PRECEDURES AND 30 702, 30 703 & 30 600)

(NOTE: STATUS CODING. BLANK TO REMAIN OPEN. C CLOSED. L REOPEN & LEAVE OPEN. P REOPEN THIS TRANSACTION ONLY)

(NOTE: MODULE BEHINDING FOR CORREP. USE ENH Y WHEN MODULE INSPECTED IS 92 701B)

| LINE NO | MODULE TRACKING INFORMATION |      |             |                     | NONCOMPLIANCE |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
|---------|-----------------------------|------|-------------|---------------------|---------------|-------|--------|------|------|----|------------|-------|----------|----------|----------|----------|----------|----------|--|
|         | MODULE NO                   | INSP | DIRECT INSP | % COM PLETE TO DATE | STATUS        | PHASE | MANUAL | CHAP | PROJ | NO | MODULE REQ | LEVEL | N/C CODE | N/C CODE | N/C CODE | N/C CODE | N/C CODE | N/C CODE |  |
| 0       | 230703B                     |      | 001         |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 1       | 292703B                     |      | 007         |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 2       | 250051B                     |      | 003         | 100                 | C             |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 3       | 250053B                     |      | 003         | 100                 | C             |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 4       | 250055B                     |      | 004         | 100                 | C             |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 5       |                             |      |             |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 6       |                             |      |             |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 7       |                             |      |             |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 8       |                             |      |             |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 9       |                             |      |             |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 10      |                             |      |             |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 11      |                             |      |             |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |
| 12      |                             |      |             |                     |               |       |        |      |      |    |            |       |          |          |          |          |          |          |  |

*Vessel installed*

*Way*

*Not in Rpt*

MEMORANDUM FOR: D. R. Hunter, Chief  
Reactor Safety Branch

THRU: D. M. Hunnicutt, Chief  
Operations Section

FROM: H. S. Phillips  
Senior Resident Inspector  
Comanche Peak

SUBJECT: REVIEW OF NRC MANUAL CHAPTER 2512 INSPECTION PROGRAM FOR  
COMANCHE PEAK

R. L. Bangart, Region IV Task Force Manager, requester a review of the subject program because required inspections were not listed in the summary of 766 Data which shows inspection progress. The assigned task included a review to determine that each procedure was inspected and inspected against procedural inspection requirements or line items which was in turn documented in inspection reports. Also, the 766 Data Forms were checked against the 766 Data Summary to assure correct input. The purpose of this review was to assure that the NRC inspection program was completed for Unit 1 and to be able to so state this during the hearing process. A secondary purpose was to assess the status of the Unit 2 inspection effort. QA 2511 preconstruction permit

inspection of QA was good. The review of Unit 1 data revealed that NRC Region IV inspections (as required by Manual Chapter 2512) of the applicant's quality assurance (QA) Program was weak or nonexistent after the QA Inspections for the construction Permit were completed in 1974-1975. The corporate office was never audited in depth from 1974 until the task force performed an audit in August 1984. During the NRC corporate audit long standing program violations were identified. In 1978 NRC Vendor Branch Report 9990524/78-01 stated that the applicant's vendor control program appeared to be breaking down and an NRC inspector followed up at site and documented the review of a vendor list and status of vendor QA program. This inspection documented in report 78-09 did not satisfy the NRC inspection requirements of Procedures 35020B "Audit of Applicant's Surveillance of contractor QA/QC Activities." The basis for closing this procedure was not subsequently inspected for unit 1 or 2 vendors. Since a number of NRC special QA review/ inspection such as the Technical Review Team have been performed and credit for these may be applied to satisfy these QA inspection requirements of MC2512 for Unit 1.

NRC QA reviews and inspections of Unit 2 were less effective or adequate than for Unit 1. However, in this case special credit may not apply to Unit 2 because some of the QA inspections were specific to Unit 1. Also the opportunity to inspect Unit 2 to assess the applicants vendor surveillance, QA inspection OP as-builts, procurement and storage/receiving, and current site QA programs still exists. The NRC QA review/inspections of Unit 2 are a high

priority i.e., surveillance QA/QC-35020; in depth QA inspection-35061; procurement receiving/storage-35065; and review of Bahnsen/Westinghouse QA Manuals-35100.

The remainder of the MC 2512 inspection procedures for the various disciplines (civil, mechanical, and electrical) pertaining to Unit 1 and 2 were reviewed and the following was found:

- The inspection effort for Unit 1 was generally found to be acceptable and as required by MC 2512; however, the 766 Data Summary does not demonstrate this. For example, 45061B (Lakes, Dams), 46051B (Foundations), 47051B (Concrete), and Containment (Welding) which require review of the applicants procedures is not documented but I found reports that show inspection was done. All of the MC 2512 Procedures were not completely inspected i.e., most were 90-100% but a few were 20-30%; however, the manual chapter does not require that a certain percentage be completed.
- The inspection effort for unit 2 is not commensurate with the construction status IE Inspection effort is behind. The effort was severely impacted during 1981, 1982, 1983, and 1984 because of inspection emphasis placed on Unit 1. One exception is welding as it has received adequate attention.

It appears that the opportunity to inspect/observe some mechanical work activity in process may be lost. One significant area pertains to the installation of the Unit 2 Vessel which happens to also be a part of

Contention No. 5 in the ASLB hearings. The inspection of this area is weak because the report (80-26) does not document observation of work and review of records. It does not give support or show that the NRC reviewed the installation procedure.

Inspection procedures which need attention are: safety related Components - 50073, Pipe Supports - 50090, HVAC System - 50100, Containment Penetrations - 53053, and Electrical 51053/51063.

The review of the summary of 766 Data (as of October 23, 1984) revealed that there are many errors in the data and missing data. The status of inspection or percentage completed was often not supported by or documented in NRC inspection reports. Details of this review are attached.

H. S. Phillips  
Senior Resident Inspector  
Comanche Peak

Attachments:

Evaluation of MC 2512

Inspection Program for CPSES

EVALUATION OF COMANCHE PEAK INSPECTION PROGRAM

1. QA Program Review Unit 1

The NRC inspection program at Comanche Peak relative to quality assurance between 1974 and 1984 was weak. That is the IE Inspection Program to inspect the applicant's QA program was less than adequate based on the following:

- a. After the construction permit was issued in December 1974, no comprehensive inspection of the corporate management was performed until August 1984. As a result there was not evaluation of corporate offices to evaluate how effectively the Comanche Peak QA Program had been implemented. Also the applicant's audit program, which was implemented by corporate auditors only, were in noncompliance with their commitments and Criterion XVIII, (Failure to Audit), and Criterion II (Failure to Assess the Status and Adequacy of the QA Program) from 1974-1984.
- b. The Mid QA Inspection, as required by Manual Chapter (MC)2512 and Inspection Procedure 35200B was neither comprehensive nor in sufficient depth to properly evaluate whether or not the applicant's program was effectively implemented (when construction is about 50-60% completed).

Usually this inspection is performed by the project inspector and three discipline inspectors over several weeks (two weeks preparation, one week inspection at the corporate QA offices). The Mid QA Inspection at Comanche Peak was conducted by two NRC inspectors during the period December 18-20, 1978 and 36 inspector hours were recorded under IP 35200B. Less than a manweek was expended versus the usual 5-8 manweeks; and it appears that the electrical discipline was not inspected adequately.

- c. Audit of applicant's surveillance of contractor QA/QC activities 35020B- as a result of vendor branch IE Inspection Report 990524/78-01 (which stated that the applicant's QA program concerning vendor control activities appeared to be breaking down) an inspection was conducted and documented in IR 78-07 by the resident inspector.

Other than reviewing a list of vendors and status of vendors QA program and manufacturing (documented in IR 78-09) no further inspection occurred to assure that the applicant's control of vendors fully complied with Appendix B requirements.

In 1984 two NRC inspections identified potential and subsequently violations concerning control of vendors. The applicants control of vendors has remained in question since 1978.

The Region IV inspection did not ascertain whether the applicant's QA program relating to surveillance of contractors assured proper control of vendor and corrective action concerning an apparent QA program breakdown.

- d. Management Meeting - Construction Quality Review IP3005113 - This annual requirement to discuss (1) quality of construction (2) QA program implementation (3) QA/QC staffing (4) preplanning for complex work activities was held in October 1980; however, it was not done and/or documented in 1981, 1982, 1983, and 1984.
- e. Audit of the applicant's management of the QA program 35060B - This inspection of the applicant's management was required every 18 months since August 1980. The purpose of inspection was to evaluate the effectiveness in implementing the corporate QA program for ongoing activities of design, procurement, and construction.

This inspection should have been performed twice between August 1980, and June 1983, but was not performed until August 1984, when the RIV Task Force performed the inspection.

- f. Audit of site work activity and the QA/QC program 35061B - This annual inspection of site work activity and the QA/QC program was to assure that safety related work was properly controlled. This



inspection should have been accomplished in 1981, 1982, 1983, and 1984. The NRC CAT Team accomplished the equivalent of 30% in 1983, and the Region IV Task Force performed this inspection in Mid 1984, but there was very little work in progress on Unit No. 1, Unit No. 2 was not inspected.

The inspection of as-built drawings versus plant configuration in one electrical and mechanical area identified violations; i.e., drawings did not match configuration and inspections did not identify these departures from drawings and specified tolerances.

- g. Procurement, receiving, and storage 35065B - this inspection (required) by MC 2512 annually since 1980) of site procurement, receiving, and storage was not inspected under the routine program in 1980/81, 1981/82, 1982/83, or 1983/84.

The CAT Team Inspection in 1983, covered 30% of the required inspection and the Comanche Peak Special Review Team Inspection may be counted toward the 1983/84 inspection of procurement.

- h. Review of QA Manuals 35100B - This inspection procedure requires that each contractor's QA/QC Manual be reviewed and evaluated once in conjunction with NRC review of civil, electrical, and mechanical procedures which control work activities.

IE Inspection Reports document pending TUGCO input incomplete such reviews for all contractors on site except Bahnson (reviewed selectively) and if Westinghouse

The above paragraphs describe inspections that were missed for Unit No. 1 and the opportunity to inspect is lost; however, the following special inspections have occurred and provide assurance that these or similar inspections were performed to assure that the applicants QA program was and is adequate or identify deficiencies.

Special

Inspection

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|  |   |
|--|---|
| Construction Assessment Team -<br>Jan 24 - Feb.4, 1983 | IP35061 - 30% per IE ltr. dated<br>April 27, 1983<br>ID 35065 - 80% Not in same ltr |
|--|---|

Note: Not in 766 Data

|  |   |
|--|---|
| Comanche Peak Special Review<br>Team Report April 3-13, 1984 | This report dated July 13, 1984,<br>documents an extensive review of<br>QA/QC activities relating to<br>design, procurement and |
|--|---|

construction. The line items of IP 35061B and 35065B were inspected during this comprehensive inspection.

Note: Not recorded in 766 Data.

Region IV Task Force Inspection  
July 19 - Mid October 1984

Inspection Report 84-22/07 documents the inspection of IP 35061B. Also a number of QA Manuals were reviewed.

IR 84-32/11 documents the inspection of IP35060B. The scope of 35020B was limited to site contractors.

NRC Technical Review Team  
July 9 - Mid October 1984

This inspection by over 100 engineers and technical specialist thoroughly covered the QA/QC function and may be counted toward and satisfy IP 30051B, 35061B, 35065B, and 35100B inspection requirements for present and past work.

2. Manual Chapter 2512 inspection program of Unit 1 site work activities - This program requires NRC inspections to (1) review specific QA/QC implementing procedures, (2) observe current/past work, and (3) review of records pertaining to civil, electrical, and mechanical work activities on site. The program accepts the premise that all inspection procedures may not be completed. The 766 data run dated October 1984, was used to evaluate the inspection procedures line items inspected and documented in inspection reports. The following are the results:

a. RIV Inspection Reports document the review of inspection procedures such as safety related piping (49061B) and other similar procedures; however, the following procedures reviewed were either not recorded in the 766 Data System and/or documented in inspection reports:

- (1) take out 1984 data run for 766 information did not document inspection of procedures 45061B, 46051B, 470513B, 48051B, and 55051B but reports were found indicating these inspections were performed but were not recorded on a 766 Form or in one case the data group failed to enter.
- (2) The following reviews of procedures were either not completed or documented in inspection reports: 45051B, 50051B, 50061B, 550071B, and 50081B. Procedures 50051, 50061, and 50071B were reported 100% inspection of line items but reports documented inspection of 50% line item procedures.

b. RIV inspection reports document the observation of work activity on site for the following areas as follows:

- (1) Site Preparation - 766 Data Form, IR 78-04 Report, 80% completed. Only procedures and records inspected.
- (2) Lakes, Dams - Inspection completed (IC)
- (3) Foundations - IC
- (4) Concrete - 766 Data Run shows no entries for 47053B, yet, IR76-06 shows 766 Form - 100% and plant progress 11.7% Unit 1 and 1.5% Unit 2.

Also found documentation of inspection in RPT 75-12, 75-11, 75-10, but not in 766 Data.

47054B - IC

- (5) Containment Steel - IC
- (6) Structural steel supports 48063B - Report 766 Form reports 100% but reports document 20%.

48064B - IC

(7) Reactor coolant pressure boundary piping 49053B. In 82-11 reports 100% but all line items were not complete/documented in the report. IR 79-25 showed 90%.

49054B - IR 80-19 and 82-11 report 30%.

(8) Safety related piping 49063B - IR 80-26 reports 100% but supports 1 documents 80%.

Note: Considering all resident inspection may consider 100%.

(9) Safety Related pipe welding - IC

(10) Reactor Coolant pressure boundary pipe welding

55073B - IC

55074B - 90% completed.

(11) Reactor Vessel - IC

(12) Reactor Vessel Internals - IC

(13) Safety related componenets 50073B - 60% completed

50074B - Approximately 80% completed.

(14) Pipe supports - IC

(15) Fuel storage racks 50095B - 60% but understand D.  
Hunnicuttt recently completed.

(16) Containment Penetrations - IC

(17) Containment Penetrations - IC

(18) Containment structural steel welding 55063-B - 100%  
reported but reports support document 20%.

55064B - Ditto above 100% vs 70% completed/documented.

(19) Electrical components/systems 51053B - 70% completed.  
51054B - 90% reported - 50% documented.

(20) Electrical cables/terminations - IC

(21) Instrumentation (componenets/systems) 52053B - IC  
52054B - 90% reported 766 - 50% documented.

(22) Instrumentation Cables - IC

(23) Preservice Inspection - IC.

The overall observation of work appears to be adequate with a few exceptions. Not all of the inspection procedure line items were 100% inspected and completed; however, the manual chapter recognizes and allows that all procedures may not be completed.

Considering the allowance the following percentage completed appears to be too low (1) structural steel supports - 20%; (2) reactor coolant pressure boundary piping (49054B) - 30%; (3) containment structural steel (55063B) - 20%.

The major problems found during this review were as follows:

- (a) Reports in many instances failed to document the inspection to demonstrate that inspection procedure line items were inspected.
- (b) The percentage complete determination requires some judgement, however, some judgements appear to have less basis than needed.

Note: This is also true of review of procedures and records. These slight weaknesses appear to be well compensated or by work observed and documented in the special inspections previously referenced in Paragraph 1 above.



(c) RIV Inspection Reports document the NRC review of QA records. The review of records for all discipline procedures were completed and adequate except as follows:

- (1) The 766 Data shows 0% complete for 45055B.
- (2) For concrete 47055B the 766 reports 100% but the reports do not document the inspection of line items. The same is true of 47056B, i.e., the last accurate report was 70% but 79-04 Report of 100% was not documented.
- (3) Containment Steel  
100% Inspection of Line Items Reported  
70% documented.
- (4) Structural Steel Supports  
100% reported - 10% documented.
- (5) Reactor Coolant Pressure Boundary (55075) 100% reported-line item on nonconformances only 10 of 14 nonconformances reported.
- (6) Reactor Vessel 50055  
100% reported - 60% documented

(7) Safety related structural steel welding 100% reported - 20% of line items inspected documented for 55065B. 100% reported on 55066B - 70% documented. Nonconformance and audits line item not completed and/or documented.

(8) Electrical components and systems  
100% reported - 20% documented for 51055B.

90% reported - 20% documented for inspection of line items of 51056B.

The records review and review of procedures appear to be the weakest area i.e., NRC review of procedures, observation of work, and review of QA records.

### 3. QA Program Review Unit 2

The comments on quality assurance also apply to Unit 2 as a review of one unit usually satisfies QA Program Requirements for both units. The following comments pertain to review of the applicants QA Program by NRC.

- a. See comment on Unit 1. No Action Required.
- b. See Comment On Unit 1. No Action Required.
- c. See Comment On Unit 1. Action Should Be Taken.
- d. See Comment On Unit 1. Action should be taken.

- e. See Comment On Unit 1. No Action Required
- f. See Comment On Unit 1. Action Should Be Taken
- g. See Comment On Unit 1. Action Should Be Taken
- h. See Comment On Unit 1. Action Should Be Taken.

Based on the review described above and under comments on Unit 1; the following QA inspections should be accomplished as soon as practical:

- (1) Inspection Procedure (IP) 35020 B - Surveillance of contractors QA/QC,
- (2) IP30051B - Maintenance meeting, (3) IP35061B - In depth QA inspection (as-builts etc.), (4) IP35065B - Procurement, and receiving/storage, and (5) IP35100B - Review of Bashnsch/Westinghouse QA Manuals.

As previously stated in comments on Unit 1 the QA reviews required by NRC Manual Chapter 2512 were either not done at all or were inadequately done.

- 4. Manual Chapter 2512 inspection program of site work activities for Unit 2 - Inspection consists of (1) reviewing QA/QC implementing procedures, (2) observing past/present work, and (3) reviewing records of work.
  - a. Review of procedures - NRC reports and a 766 Data Summary were reviewed. The following were either not completed or documented in the 766 Data.

- (1) NRC Inspection Procedures \*45061, \*46051, \*47051, \*48051, \*\*49051, \*50061, †505051, and 55151, showed zero inspection time.

\*Not reported in data but reports found for Unit 1, therefore, take credit.

\*\*Done for unit 1 so take credit Unit 2

- (2) Procedures 49061, 55081, 55071, 55071, 55061, 55171, and 55181 pertain to safety-related or reactor coolant piping and the 766 Data shows them as 80% complete. These were last inspected in 1977, 1977, 1982, 1979, 1977, 1980, and 1982 respectively.

Ideally these would have been completed shortly after site work began.

- (3) Procedures 51051, 51061, 52051, and 52061 pertain to electrical/instrumentation. They were last inspected in 1979, 1980, and 1981 respectively while 52061 was not inspected. The percent complete is 5, 90, 90, and 0 percent respectively.

These should have been completed shortly after work began (except 52061).

(4) The 766 Data Reports 50051 (vessel installation) as 100% complete in IR 80-26 but this report does not document inspection of vessel installation; however, it does document inspection of vessel internals. As required by 50061.

Therefore, the 766 Data shows no inspection of 50051. This pertains to contention 5 of the Comanche Peak Hearing i.e., placement of Unit 2 vessel.

b. Observation of site work activity and records review. The October 1984 summary of 766 data and pertinent NRC reports were reviewed. The status of NRC inspections are as follows:

(1) Site Preparation - IP45055 (records) shows zero.

(2) Lakes, Dams - IP45063/45065 - 100%

(3) Site Prep/ - Probably not applicable  
Foundations

(4) Structural concrete - IP47053/54 (work) 100% and 47055/56 (records) 100%.

(5) Containment Steel - IP48053 and 48055 shows 40%, last inspected in 1977 and 1978. Work may be done. If so close 48053 at 40% and review records and close 48055.

(6) Safety-related structural

steel/supports - IP48063/64/65/66 were reported 100% in reports 78-19 and 81-08 but these do not document 100% - Perhaps 10 to 20%. These procedures were last inspected in 1981.

The revised manual charter eliminated 48064/66. Inspect to the new procedures 48063/65 if possible.

(7) Reactor Coolant Pressure Boundary Piping - IP49053, 49054 (work), and 49055/49056 (records) have not been inspected.

Since piping is 85-90% complete may have to settle for partial completion of 49053 and review records.

IP49054/56 were eliminated in MC 2512, Appendix A, therefore, complete per Appendix A. Approximately 10% to 20% inspection was done under the "C" or resident program for 49053C.

(8) Safety-Related Piping - IP49063/49065 show 10 and 0% complete. IP49063 was last inspected in 1977 while 10-20% inspection was shown against 49053C in 1982.

Construction work (piping) is well along but some piping work should be in progress. Regardless records of work can be inspected. Inspect as soon as possible.

- (9) Reactor Vessel Installation - IP50053B was reported 100% complete in IR80-26; however, this report does not document inspections of installation. It appears that 50053B should be zero while 50053C (resident effort) shows about 30-40% completed.

Note: Contention 5 of ASLB hearing relates to improper QA/QC-Vessel installation.

IP50055 (records) was reported 100% but IR80-26 does not document inspection of UNE items. Review records as installation completed.

- (10) Reactor Vessel Internals - IP50063/65B reported 100%.
- (11) Safety-Related Components. IP50073/50074 (work) and 50075/50076B show as 20, 20, 10 and 10 percent completed in 766 Data. The components inspected against 50074B were not documented in IR 80-05 and the same was true for 50075B but in addition only records for Unit 1 were documented. For practical purposes 50075B has 0% documented inspection. These procedures were last inspected in 1981, 1980, 1981, and 1980, respectively. Inspections of 50073C by the resident may raise the percent completed 10-20%.

Since 50074/76 were superseded in MC 2512, Appendix A, it may be best to inspect to the new/revised inspection requirements. It has been nearly four years since these procedures were inspected. Needless to say inspection should start immediately.

(12) Safety-Related Pipe Support/Restraint - The 766 Data shows 10% completed for IP50090. This is correct since only 5% of about 70 items have been inspected. A little credit may be taken for inspection by the resident in IR78-13, 79-18, and 80-11. But less than 10%. This procedure was initiated in 1980 and was inspected once in 1981 and once in 1983.

(13) Spent Fuel Racks - No inspection documented in 766 Summary.

(14) HVAC Systems - This procedure was issued October 1983. No inspection is recorded in the 766 Summary.

Since problems have been identified with Bahnsen HVAC inspection should be done. Inspection should start as soon as possible.

(15) Containment Penetrations - IP53053 and 53055B were last inspected in 1976 and 1978, respectively, and were reported



10% and 20% completed. IR76-05 documented inspection of work but did not identify penetrations inspected. Work has probably been largely completed. May have to settle for records review. Inspection should start and/or be completed as soon as possible.

- (16) Containment Structural Steel Welding - IP55053 B was opened in 1976 and likewise IP55055B. The 766 Data shows 60% completed. They were last inspected in 1977 and 1978 respectively except the resident inspected this area in 1982 and closed 55053C at 100%.

It is likely that 55053/55/B should have been closed at 60% as it appears that welding of containment continued under 55153B "Containment work observation". since there is no record of the change only the cognizant inspector knows.

Under the circumstances 55053 and 55055B should be closed at 60%.

Note: It appears that inspections stopped under old procedures and started under the 551 thru 55188B series.

- (17) Safety-Related Structures Welding - IP55063/64/65/66B show 12 100, 0, 10, and 10% completed. The data and IR78-19

showed 100% for 55063B but the report documents inspection of Unit 1 not Unit 2 and the same was true for 55065B.

It appears that work under these procedures were stopped and continued under 55154/55B.

Note: A check against these procedures in the 766 Data Summary show inspection 100% in IR82-07; however, this report only inspects pipe support welding not structures welding not per IP. Section III. Under the circumstances close 55063/65/66. An additional inspection could be charged against these procedures or the procedures in ML 2512, Appendix A i.e., 55050, 55100, 55150, 57050, 57060, 57070, 57080, 57090 which would be over and above inspection required.

(18) Reactor Coolant Pressure Boundary Welding - IP55073, 55075, and 55076B show as 100% complete. IP55074B (2nd phase observation of work) showed 50%. The resident inspector performed many inspections of this welding. Therefore, close IP55074B at 50%.

The new procedures 55171, 55172, 55173, 55175, 55176, 55177, and 55178B show 80, 90, 90, 100, 100, 80, and 0% completed. Future inspection should be charged against

these and close the old procedures. IP55176B (Heat Treat: stress relief, preheat etc.,) was reported on time and in IR82-09 as 100%; however, this report does not document inspection of heat treatment. IP55178 is for special applications and apparently none were encountered to date.

- (19) Safety-Related Welding - IP55083 and 55085B show as 100% completed.

In addition other inspection was accomplished under new procedures 55181, 55182, 55183, 55188, 55186, 55187, and 55188B and 0% completed 80, 90, 100, 60, 80, and 50.

- (20) Electrical Components - IP51053/54/55/56B show 0% inspection in the data run of October 1984.

MC 2512, Appendix A, should be used too for future inspections as 51054/56 were superseded. Inspection should start as soon as possible (ASAP).

- (21) Elect Cable - IP51063/65/64/66B show 0% inspection. Use ML2512, APP A for future inspections. Inspection should start ASAP. IP51064/66 superseded.

(22) Instrument Components - 52U53/54/55/56B never inspected or documented in 766 Summary. IP52054/56 superseded; use MC 2512 APP A for future inspection start inspections.

(23) Other Miscellaneous

- Containment Test IP63050 - 0% - Inspect before OL.
- Fire Loop Installed IP64051/53 - 0% Inspect as Required.
- Inservice IP73051/52/53/55 - 0% Inspect as Required.
- Environmental - IP82220 - 100% - Annual Inspection.
- Part 21 - IP92715P 92716B - 0% - Inspect as Required.

766 INSPECTION STATISTICAL DATA - BY MODULE

| MODULE# | MCD     | PRIC | TITLE   | ROCKET NUMBER | REPORT NUMBER | DEVIATION/ SEVERITY | SEVERITY SUPPLEMENT | FRM DATE | TO DATE | STAFF HRS | PCT COMPLETE | STATUS | MODULE FOLLOWUP |
|---------|---------|------|---|---------------|---------------|---------------------|---------------------|----------|---------|-----------|--------------|--------|-----------------|
| 249065E | 5500445 | 7807 | SAFETY RELATED PIPING - REVIEW OF GLPLITY RECORDS     |               |               |                     |                     | 041178   | 042178  | 4         | 10           |        |                 |
|         |         | 7902 |   |               |               |                     |                     | 010E79   | 011079  | 6         | 50           |        |                 |
|         |         | 7915 |   |               |               |                     |                     | 0E0579   | 0E1675  | 4         | 100          | C      |                 |
|         |         |      | REACTOR VESSEL INSTALLATION - REVIEW OF QUALITY ASSUR |               |               |                     |                     | 060777   | 062077  | 2         | 10           |        |                 |
|         |         | 7805 |   |               |               |                     |                     | 051678   | 051578  | 4         | 50           |        |                 |
|         |         | EG2E |   |               |               |                     |                     | 110580   | 112580  | 2         | 100          | C      |                 |
|         |         | EG2E |   |               |               |                     |                     | 110580   | 112580  | 2         | 100          | C      |                 |
|         |         | EG2E |   |               |               |                     |                     | 060777   | 062077  | 2         | 10           |        |                 |
|         |         | 7805 |   |               |               |                     |                     | 022178   | 022478  | 3         | 30           |        |                 |
|         |         | 7805 |   |               |               |                     |                     | 051678   | 051578  | 2         | 50           |        |                 |
|         |         | EG2E |   |               |               |                     |                     | 110580   | 112580  | 2         | 100          | C      |                 |
|         |         | EG2E |   |               |               |                     |                     | 110580   | 112580  | 2         | 100          | C      |                 |
|         |         |      | REACTOR VESSEL INSTALLATION - CESEFVATION             |               |               |                     |                     | 0E0172   | 0E317E  | 4         | 10           |        |                 |
|         |         | 7810 |   |               |               |                     |                     | 10027E   | 10317E  | 1         | 30           |        |                 |
|         |         | 782E |   |               |               |                     |                     | 11017E   | 11307E  | 1         | 30           |        |                 |
|         |         | 782E |   |               |               |                     |                     | 12017E   | 12317E  | 1         | 30           |        |                 |
|         |         | 7902 |   |               |               |                     |                     | 020179   | 022879  | 2         | 30           |        |                 |
|         |         | 790E |   |               |               |                     |                     | 030175   | 033075  | 1         | 30           |        |                 |
|         |         | 791E |   |               |               |                     |                     | 060179   | 062579  |           | 50           |        |                 |
|         |         | 7917 |   |               |               |                     |                     | 070579   | 073179  | 1         | 60           |        |                 |

This 766 data run was furnished by Region IV and represented all NRC inspections documented as of 10/23/84. This an example of a gross error. (1) through (6) show:

(1) Reviewed 766 and identified NRC inspections on vessel installation

Unit 1

Unit 2

Unit 1

766 INSPECTION STATISTICAL DATA - BY MODULE

3/76

| MODULE | MOD | PRIO | TITLE  | SOCKET NUMBER | REPORT NUMBER | DEVIATION/ SEVERITY | SEVERITY SUPPLEMENT | FROM DATE | TO DATE | STAFF HRS | STATUS | PCY COMPLETE | MODULE FOLLOWUP |
|--------|-----|------|--|---------------|---------------|---------------------|---------------------|-----------|---------|-----------|--------|--------------|-----------------|
| 5053C  |     |      | REACTOR VESSEL INSTALLATION - OBSERVATION              | 5000445       | 7524          | -                   | -                   | 100575    | 103175  |           |        | 50           |                 |
|        |     |      |  |               | 8008          | -                   | -                   | 030180    | 023180  | 1         |        | 50           |                 |
|        |     |      |  |               | 8015          | -                   | -                   | 060280    | 063080  |           |        | 50           |                 |
|        |     |      |  |               | 8022          | -                   | -                   | 100180    | 103180  |           |        | 50           |                 |
|        |     |      |  |               | 8111          | -                   | -                   | 070181    | 073181  | 1         |        | 50           |                 |
|        |     |      |  |               | 8202          | -                   | -                   | 020182    | 023182  |           |        | 50           |                 |
|        |     |      |  |               | 7502          | -                   | -                   | 020175    | 022875  | 3         |        | 10           |                 |
|        |     |      |  |               | 7906          | -                   | -                   | 020175    | 023075  | 6         |        | 30           |                 |
|        |     |      |  |               | 7528          | -                   | -                   | 120275    | 123175  |           |        | 20           |                 |
|        |     |      |  |               | 8015          | -                   | -                   | 060280    | 063080  |           |        | 50           |                 |
|        |     |      |  |               | 8018          | -                   | -                   | 070280    | 073180  |           |        | 20           |                 |
|        |     |      |  |               | 8105          | -                   | -                   | 050181    | 063081  | 2         |        | 20           |                 |
|        |     |      |  |               | 8111          | -                   | -                   | 070181    | 073181  | 1         |        | 50           |                 |
|        |     |      |  |               | 8202          | -                   | -                   | 070182    | 023182  |           |        | 20           |                 |
| 50058  |     |      | REACTOR VESSEL INSTALLATION - REVIEW OF QUALITY RECORD | 5000445       | 7525          | -                   | -                   | 022178    | 022478  | 3         |        | 20           |                 |
|        |     |      |  |               | 7525          | -                   | -                   | 051678    | 051978  | 4         |        | 50           |                 |
|        |     |      |  |               | 7810          | -                   | -                   | 053078    | 060178  | 4         |        | 20           |                 |
|        |     |      |  |               | 8020          | -                   | -                   | 110580    | 112580  | 2         |        | 100          |                 |
|        |     |      |  |               | 8022          | -                   | -                   | 110580    | 112580  | 4         |        | 100          |                 |
| 50061B |     |      | REACTOR VESSEL INTERNALS - REVIEW OF QUALITY ASSURANCE | 5000445       | 7525          | -                   | -                   | 051678    | 051978  | 4         |        | 20           |                 |
|        |     |      |  |               | 8022          | -                   | -                   | 110580    | 112580  | 2         |        | 100          |                 |

50058 *omit*

50061B *omit*



**INSPECTOR'S REPORT**  
(Continuation)  
Office of Inspection and Enforcement

| DOCKET NO. (8 digits) OR LICENSE NO. (BY PRODUCT) (12 digits) |      | PORT |      | MODULE NUMBER | VIOLATION SEVERITY OR DEVIATION | SITE RELATIONSHIP |
|---|------|------|------|---------------|---------------------------------|-------------------|
| NO.   | SEC. | NO.  | SEC. |               |                                 |                   |
| 05000445  |      | 8507 | A    | 19127061      |                                 | II, E             |
| 05000446  |      | 8505 | B    |               | 1 2 3 4 5 6                     |                   |
|   |      |      | C    |               |                                 |                   |
|   |      |      | D    |               |                                 |                   |

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 24 characters each.)

10 CFR 50, Appendix B, Criterion XVI requires that measures shall be established to assure that conditions adverse to quality, such as failures, malfunctions, deficiencies, deviations, defective material and equipment, and nonconformances are promptly identified and corrected.

Contrary to the above, a potential problem with RTE - Delta potential transformer tiltout subassemblies, which are used in the emergency diesel generator control panels, was identified to the applicant via a letter, dated June 15, 1983, from Transamerica Delaval Inc. This letter also provided instructions for correcting the potential problem. However, the applicant did not perform the corrective action. The NRC initially reported this item as unresolved in Inspection Report (IR) 445/8440-02.

~~This is a Severity Level V Violation. (Supplement II E) (445/8507-01 446/8905-01).~~



NRC FORM 700  
(11-81)  
RE MC 0535

U.S. NUCLEAR REGULATORY COMMISSION

PRINCIPAL INSPECTOR (Name last, first, and middle initials)

**INSPECTOR'S REPORT**  
Office of Inspection and Enforcement

REVIEWER

INSPECTORS

| LICENSEE/VENDOR | TRANSACTION TYPE | DOCKET NO. (8 digits) OR LICENSE NO. (8 YR PRODUCT) (113 digits) | REPORT |      |     | NEXT INSP. DATE |
|-----------------|------------------|--|--------|------|-----|-----------------|
|                 |                  |  | NO.    | SEQ. | MO. |                 |
|                 | I - INSERT       |  |        | A    |     |                 |
|                 | M - MODIFY       |  |        | B    |     |                 |
|                 | D - DELETE       |  |        | C    |     |                 |
|                 | R - REPLACE      |  |        | D    |     |                 |
|                 |                  | 1  | 2      | 34   | 35  | 36              |

| PERIOD OF INVESTIGATION/INSPECTION |     |     |     |     |     | INSPECTION PERFORMED BY        |       | ORGANIZATION CODE OF REGION/HQ CONDUCTING ACTIVITY (See NRC 0530 "Manpower Report" and "Weekly Manpower Reporting" for code) |          |        |
|------------------------------------|-----|-----|-----|-----|-----|--------------------------------|-------|--|----------|--------|
| FROM                               |     |     | TO  |     |     |                                |       |  |          |        |
| MO.                                | DAY | YR. | MO. | DAY | YR. | 1 - REGIONAL OFFICE STAFF,     | OTHER | REGION   | DIVISION | BRANCH |
|                                    |     |     |     |     |     | 2 - RESIDENT INSPECTOR         |       |  |          |        |
|                                    |     |     |     |     |     | 3 - PERFORMANCE APPRAISAL TEAM |       |  |          |        |
| 20                                 |     | 20  |     |     |     |                                |       | 23   | 24       | 25     |

| REGIONAL ACTION (Check one box only) |  | TYPE OF ACTIVITY CONDUCTED (Check one box only) |  |                  |  |                      |  |                    |  |
|--------------------------------------|--|---|--|------------------|--|----------------------|--|--------------------|--|
| 1 - NRC FORM 501                     |  | 02 - SAFETY                                     |  | 08 - MGMT. VISIT |  | 16 - PLANT SEC.      |  | 14 - INQUIRY       |  |
| 2 - REGIONAL OFFICE LETTER           |  | 03 - INCIDENT                                   |  | 07 - SPECIAL     |  | 11 - INVENT. VER.    |  | 15 - INVESTIGATION |  |
|                                      |  | 04 - ENFORCEMENT                                |  | 09 - VENDOR      |  | 12 - SHIPMENT/EXPORT |  |                    |  |
|                                      |  | 05 - MGMT. AUDIT                                |  | 06 - MAT. ACCT.  |  | 13 - IMPORT          |  |                    |  |

| INSPECTION/INVESTIGATION FINDINGS (Check one box only) |   |   |   | TOTAL NUMBER OF VIOLATIONS AND DEVIATIONS |  | ENFORCEMENT CONFERENCE HELD |  |  |  | REPORT CONTAIN 2.780 INFORMATION |  |  |  | LETTER OR REPORT TRANSMITTAL DATE |     |                              |     |     |     |
|--|---|---|---|---|--|-----------------------------|--|--|--|----------------------------------|--|--|--|-----------------------------------|-----|------------------------------|-----|-----|-----|
| A  | B | C | D |   |  |                             |  |  |  |                                  |  |  |  | NRC FORM 501 OR REG LETTER ISSUED |     | REPORT SENT TO HQ FOR ACTION |     |     |     |
| 1 - CLEAR  |   |   |   |   |  |                             |  |  |  |                                  |  |  |  | MO.                               | DAY | YR.                          | MO. | DAY | YR. |
|  |   |   |   |   |  |                             |  |  |  |                                  |  |  |  |                                   |     |                              |     |     |     |
| 2 - VIOLATION  |   |   |   |   |  |                             |  |  |  |                                  |  |  |  |                                   |     |                              |     |     |     |
| 3 - DEVIATION  |   |   |   |   |  |                             |  |  |  |                                  |  |  |  |                                   |     |                              |     |     |     |
| 4 - VIOLATION & DEVIATION                              |   |   |   |   |  |                             |  |  |  |                                  |  |  |  |                                   |     |                              |     |     |     |
|  |   |   |   |   |  |                             |  |  |  |                                  |  |  |  |                                   |     |                              |     |     |     |

| MODULE INFORMATION |                     |       |                |       |      |          |   |                              |        |                     |       | MODULE INFORMATION |                  |                     |        |       |       |      |          |   |                              |        |                     |                  |       |                |                  |       |  |
|--------------------|---------------------|-------|----------------|-------|------|----------|---|------------------------------|--------|---------------------|-------|--------------------|------------------|---------------------|--------|-------|-------|------|----------|---|------------------------------|--------|---------------------|------------------|-------|----------------|------------------|-------|--|
| REC. ORD.          | MODULE NUMBER INSP. |       |                | LEVEL | SEQ. | PRIORITY | DIRECT INSPEC. EFFORT BY STAFF HOURS EXPENDED THIS INSPECTION | PERCENTAGE COMPLETED TO DATE | STATUS | MODULE REG FOLLOWUP |       |                    | REC. ORD.        | MODULE NUMBER INSP. |        |       | LEVEL | SEQ. | PRIORITY | DIRECT INSPEC. EFFORT BY STAFF HOURS EXPENDED THIS INSPECTION | PERCENTAGE COMPLETED TO DATE | STATUS | MODULE REG FOLLOWUP |                  |       |                |                  |       |  |
| TYPE               | NUMBER              | PHASE | MANUAL CHAPTER |       |      |          |   |                              |        | PROCEDURE NUMBER    | PHASE | MANUAL CHAPTER     | PROCEDURE NUMBER | TYPE                | NUMBER | PHASE |       |      |          |   |                              |        | MANUAL CHAPTER      | PROCEDURE NUMBER | PHASE | MANUAL CHAPTER | PROCEDURE NUMBER | LEVEL |  |
|                    | 5                   | 0     | 0              | 53    | A    |          |   |                              |        |                     |       |                    | 5                | 5                   | 0      | 6     | 4     | A    |          |   |                              |        |                     |                  |       |                |                  |       |  |
|                    |                     |       |                |       | B    | 0.45     | 1.00C   |                              |        |                     |       |                    |                  |                     |        |       |       | B    | 0.28     | 1.00C   |                              |        |                     |                  |       |                |                  |       |  |
|                    | 5                   | 0     | 0              | 63    | A    |          |   |                              |        |                     |       |                    | 5                | 5                   | 0      | 6     | 6     | A    |          |   |                              |        |                     |                  |       |                |                  |       |  |
|                    |                     |       |                |       | B    | 0.15     | 1.00C   |                              |        |                     |       |                    |                  |                     |        |       |       | B    | 0.19     | 1.00C   |                              |        |                     |                  |       |                |                  |       |  |
|                    | 5                   | 0     | 0              | 55    | A    |          |   |                              |        |                     |       |                    | 5                | 5                   | 0      | 6     | 5     | A    |          |   |                              |        |                     |                  |       |                |                  |       |  |
|                    |                     |       |                |       | B    | 0.13     | 1.00C   |                              |        |                     |       |                    |                  |                     |        |       |       | B    | 0.08     | 1.00C   |                              |        |                     |                  |       |                |                  |       |  |
|                    | 5                   | 0     | 0              | 76    | A    |          |   |                              |        |                     |       |                    | 4                | 9                   | 0      | 5     | 3     | A    |          |   |                              |        |                     |                  |       |                |                  |       |  |
|                    |                     |       |                |       | B    | 0.19     | 1.00C   |                              |        |                     |       |                    |                  |                     |        |       |       | B    | 0.11     | 1.00C   |                              |        |                     |                  |       |                |                  |       |  |

• CIRCLE SEQUENCE IF VIOLATION OR DEVIATION

158

INSPECTOR'S REPORT  
(Continuation)  
Office of Inspection and Enforcement

|   |  |            |  |                                 |  |   |
|---|--|------------|--|---------------------------------|--|---|
| DOCKET NO. (8 digits) OR LICENSE NO. (BY PRODUCT) (13 digits) |  | REPORT NO. |  | MODULE NUMBER                   |  | SITE RELATED<br><input checked="" type="checkbox"/> A<br><input type="checkbox"/> B<br><input type="checkbox"/> C<br><input type="checkbox"/> D |
| 05000445  |  | 8507       |  | 927061 II, E                    |  |   |
|   |  |            |  | VIOLATION SEVERITY OR DEVIATION |  |   |
|   |  |            |  | 1 2 3 4 5 6                     |  |   |
|   |  |            |  | X                               |  |   |
|   |  |            |  | D                               |  |   |

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 80 characters each.)

10 CFR Part 50, Appendix B, Criterion V, requires that activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings.

Contrary to ~~the above~~, commercial non-shrink grout was used to grout the Unit 1 reactor coolant pump and steam generator supports in lieu of Class "E" concrete as specified in section 6-6 of drawing 2323-S1-0550, Revision 4. The NRC initially reported this item as unresolved in IR 445/8416-03.

~~This is a Severity Level V Violation. (Supplement II.E) (445/8507-02).~~

DOCKET NO. (8 digits) OR LICENSE NO. (BY PRODUCT) (13 digits)

REPORT NO. SEC.

MODULE NUMBER 727061 I.E

INSPECTOR'S REPORT  
(Continuation)  
Office of Inspection and Enforcement

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                     |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------------------|---|---|
| 0 | 5 | 0 | 0 | 4 | 4 | 5 | 8 | 5 | 0 | 7 | A | 1 | 2 | 3 | 4 | 5 | 6 | <input checked="" type="checkbox"/> | A | C |
|   |   |   |   |   |   |   |   |   |   |   | B |   |   |   |   |   |   |                                     |   |   |
|   |   |   |   |   |   |   |   |   |   |   | C |   |   |   |   |   |   |                                     |   |   |
|   |   |   |   |   |   |   |   |   |   |   | D |   |   |   |   |   |   |                                     |   |   |

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 80 characters each.)

10 CFR Part 50, Appendix B, Criterion V ~~requires that activities affecting quality shall be prescribed by documented instructions, procedures or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings.~~

and

Brown and Root Procedure Q1-QAP-7.2-8 ~~"Receiving of Westinghouse Safety Related Equipment", Section 3.1.d.1 required a QC Inspector to verify that the Westinghouse Quality Release (QR) document checklist items be filled out completely and accurately.~~

Contrary to the above, the voltage recorded on Westinghouse QR 41424 checklist, attachment 1, step 4.1 was outside the specified tolerance, but the QR was accepted as satisfactory by quality control receipt inspection. The NRC initially reported this item as unresolved in IR (445/8416-04).

INSPECTOR'S REPORT (Continuation)

Office of Inspection and Enforcement

|          |      |   |   |   |   |   |   |   |                                |
|----------|------|---|---|---|---|---|---|---|--------------------------------|
| 05000445 | 850  | A | 1 | 2 | 3 | 4 | 5 | 6 | SITE RELATED<br>X A C<br>X B D |
| 05000446 | 8505 | B |   |   |   |   |   |   |                                |
|          |      | C |   |   |   |   |   |   |                                |
|          |      | D |   |   |   |   |   |   |                                |

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.)

10 CFR Part 50, Appendix B, Criterion V and Texas Utilities Generating Company (TUGCO) Quality Assurance Plan, Section 5.0, Revision 2, dated May 21, 1981, require that activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings."

Brown & Root Procedure 35-1195-CCP-10, Revision 5, dated December 4, 1978, requires that central and truck mixer blades be checked quarterly to assure that mixer blade wear does not exceed a loss of 10% of original blade height.

Contrary to the above, on May 31, 1985, the NRC inspector determined that there was no objective evidence (records) that the blades had been inspected quarterly since the trucks were placed in service in 1977.

INSPECTOR'S REPORT (Continuation) Office of Inspection and Enforcement

|          |      |   |
|----------|------|---|
| 05000445 | 8507 | A |
| 05000446 | 8505 | B |
|          |      | C |
|          |      | D |

|          |           |          |    |           |    |      |              |
|----------|-----------|----------|----|-----------|----|------|--------------|
| 14710561 | VIOLATION | SEVERITY | OR | VIOLATION | BY | DATE | SITE RELATED |
|          | 1         | 2        | 3  | 4         | 5  | 6    | A C H D      |
|          |           |          | X  |           |    |      | X H D        |

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.)

~~10 CFR Part 50, Appendix B, Criterion V and TUGCO QA plan, Section 5.0, Revision 2, dated May 21, 1981, and Section 15.0, Revision 4, dated July 31, 1984, require that activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings.~~

and  
 Brown & Root Procedure <sup>S</sup>CP-QAP-15.1 and CP-QCP-1.3  
~~"Field Control of Nonconforming Item," states that nonconforming conditions shall be documented in a Deficiency and Disposition Report (DDR). Procedure CP-QCP-1.3, "Tool Equipment Calibration and Control," dated July 14, 1975 states that out-of-calibration equipment shall be identified on a DDR.~~

Contrary to the above, on May 31, 1985, the NRC inspector reviewed the calibration file for scale (MTE 779) used for weighing cement and found that difficulty was encountered with the water and cement scales during a 1975 calibration of the backup plant scales, however, no DDR was issued to identify this condition and require disposition of the scale and concrete (if any) produced.

INSPECTOR'S REPORT  
(Continuation)  
Office of Inspection and Enforcement

|          |    |     |     |                                |         |
|----------|----|-----|-----|--------------------------------|---------|
| 05000446 | NO | 850 | SEC | 150053                         | II, E   |
|          | A  |     |     | VIOLATION SEVERITY OR DIVISION | SITE    |
|          | B  |     |     |                                | RELATTC |
|          | C  |     |     | 1 2 3 4 5 6                    | AC      |
|          | D  |     |     |                                | RD      |

~~10 CFR 50, Appendix B, Criterion III, and TUGCO QA Plan, Section 3, Revision 5, dated July 31, 1984, require that measures shall be established to assure that applicable regulatory requirements and the design basis, are correctly translated into specifications, drawings, procedures and instructions. These measures shall include provisions to assure that appropriate quality standards are specified and included in design documents and that deviations from such standards are controlled.~~

Contrary to the above, (a) Unit 2 reactor pressure vessel installation design criteria recommended by the NSSS vendor, such as centering tolerances, levelness tolerances, and shoe to bracket clearances, were not included in installation specification, procedures and drawings; and (b) the criteria were specified in Construction Operation Traveler ME-79-248-5500 but were not treated as design engineering criteria as evidenced by an undocumented change of shoe to bracket clearances.

*This violation dropped over my strong objection and Mr. Norman's. This also pertains to Contentions 5 made by the intervenor's which states that TUGCO QA program suspect during vessel installation*

INSPECTOR'S REPORT  
(Continuation)  
Office of Inspection and Enforcement

|   |  |            |                                 |              |                          |
|---|--|------------|---------------------------------|--------------|--------------------------|
| LOCKET NO. (SEE LICENSE NO. BY PRODUCT) |  | REPORT NO. | MODULE NUMBER                   | SITE RELATED |                          |
| 5000446                                 |  | 8505       | 1501053                         | I, E         |                          |
|   |  |            | VIOLATION SEVERITY OR DEVIATION |              | SITE RELATED<br>A C<br>D |
|   |  |            | 1                               | 2            |                          |
|   |  |            | 3                               | 4            |                          |
|   |  |            | 5                               | 6            |                          |
|   |  |            | D                               |              |                          |

(VIOLATION OR DEVIATION SEVERITY up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.)

10 CFR 50, Appendix B, Criterion XV and TUGCO QA Plan ~~Section V, Revision 2~~ dated May 21, 1981, ~~require that measures shall be established to control materials, parts or components which do not conform to requirements and nonconforming items shall be reviewed and accepted, rejected, repaired or reworked in accordance with documented procedures,~~

*and*  
Brown and Root Quality Assurance Manual, Section 16, dated March 27, 1985, ~~requires that unsatisfactory conditions identified on process control documents shall be identified on a Nonconforming Report.~~

Contrary to ~~the above~~, clearances between the reactor vessel support brackets and support shoes were not within the tolerance stated in Construction Operation Traveler ME-79-248-55 and the condition was not reported on a Nonconformance Report.

DOCKET NO. 180015 OR LICENSE NO. (BY PRODUCT) 1130181

|   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 2 | 5 | 0 | 0 | 4 | 4 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|

| REPORT |                                 | MODULE NUMBER |   |   |   |   |              |
|--------|---------------------------------|---------------|---|---|---|---|--------------|
| NO     | SEC                             | 1501053       |   |   |   |   |              |
| A      | VIOLATION, SEVERITY OR DIVISION |               |   |   |   |   | SITE RELATED |
| B      | 1                               | 2             | 3 | 4 | 5 | 6 | A C          |
| C      |                                 |               |   | X |   |   | H D          |
| D      |                                 |               |   |   |   |   |              |

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.)

1  
2  
3  
4

10 CFR 50, Appendix B, Criterion XVIII and TUGCO QA Plan Section 18.0, Revision 2, dated July 31, 1984, require that a comprehensive system of

Contrary to the above, there was no evidence that TUGCO had audited either Unit 2 reactor vessel installation specifications, placement procedures, actual hardware placement, or as-built records.

*This violation dropped over our strong objection.*



INSPECTOR'S REPORT  
(Continuation)

Office of Inspection and Enforcement

|   |  |            |  |                                 |  |              |  |
|---|--|------------|--|---------------------------------|--|--------------|--|
| DOCKET NO. 188-51 OR LICENSE NO. (BY PRODUCT) (13 digits) |  | REPORT NO. |  | 1501065                         |  | IIE          |  |
| 5000446   |  | 8505       |  | VIOLATION SEVERITY OR DEVIATION |  | SITE RELATED |  |
|   |  |            |  | A                               |  | A C          |  |
|   |  |            |  | B                               |  | H O          |  |
|   |  |            |  | C                               |  |              |  |
|   |  |            |  | D                               |  |              |  |

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.)

10 CFR 50, Appendix B, Criterion VIII and TUGCO QA Plan, Section 8.0, Revision 0, dated July 1, 1978, ~~require that measures be established for the identification and control of materials, parts, and components, including partially fabricated assemblies. These measures shall assure that identification of the item is maintained by heat number, part number or other appropriate means.~~

and

Article NA3766.6 of ASME, Section III, 1974 edition, ~~requires that the identification of material consist of marking the material with the applicable material specification and grade of material, heat number or heat code of the material, and any additional marking required by this section to facilitate traceability of the reports of the results of all tests and examinations performed on the material.~~

Contrary to ~~the above~~, spool piece 3Q1 (DWG No. BRP-CS-2-RB-76) had neither been marked with the material specification and grade nor heat number<sup>1</sup> or heat code of the material.

*This violation dropped over our strong objection because the TUGCO finally brought forth the information months after the inspection was completed.*

*The commonly have trouble retrieving records!*

|   |  |                        |               |   |
|---|--|------------------------|---------------|---|
| INSPECTOR'S REPORT<br>(Continuation)<br>Office of Inspection and Enforcement  | DOCKET NO (8 DIGITS OR LICENSE NO (BY PRODUCT) (13 DIGITS) | REPORT NO              | MODULE NUMBER | SITE RELATED<br><input type="checkbox"/> A<br><input checked="" type="checkbox"/> C<br><input type="checkbox"/> H<br><input type="checkbox"/> D |
|   | 5000446  | 8503                   | 55063 IIE     |   |
| VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.) |  | VIOLATION OR DEVIATION |               |   |

10 CFR 50, Appendix B, Criterion XVII, ~~requires that sufficient records be maintained to furnish evidence of activities affecting quality. The records shall include at least the following: operating logs, and the results of reviews, inspections, tests, audits, monitoring of work performance, and materials analyses.~~

*and*

Articles NB-2130 and NA3767.4 of ASME Section III, 1974 edition ~~requires a Certified Material Test Report for all pressure retaining material over 3/4 inch nominal size.~~

Contrary to ~~the above~~, Certified material Test Reports were not available for the 22 degree elbow, 10 inch 45 degree nozzle and three thermowell bosses, which were a part of the loop 3 cold leg piping subassembly.

*This also was a violation but I think they found records after the fact.*

Example of how inspections, etc. closed before they are really done. I cannot explain the errors.

EXHIBIT NO. 5

REPORT 85-07/05 766 DATA AS SUBMITTED

| Module Reported | Rep. Para | Comment   |
|-----------------|-----------|---|
| 92706           | 16        |   |
| 92701           | 3         | OK  |
| 92702           | ?         | No noncompliances inspected but violations were issued on unresolved items. No charge against this module is applicable   |
| 45065           | 4         |   |
| 47054           | 5, 6, 7   | In paragraph 5 of the report Time, could be charged, however this paragraph included followup on TAT allegation and should be charged to either 99014 or 92705. |
| 47056           | 5, 6, 7   | D. Ho Above   |
| 48056           | ?         | These were about 10% complete but were closed out at 100%. Yet, report does not document any inspection of structural steel supports outside containment.       |
| 48064           | ?         | DITTO   |
| 48066           | ?         | DITTO   |
| 50053           | 12        |   |
| 50063           | 12        |   |
| 50055           | 12        | Paragraph 3 states that it was not possible to observe work. yet closed as 100%.  |

This is an example of how inspections <sup>2</sup> get reported complete when they're not.

| Module | Rpt PARA | Comment  |
|--------|----------|--|
| 50076  | 7        | The storage of components was probably inspected during independent inspection but no % complete should have been increased. At the time it was 10% complete but went to 100%. |
| 55064  | 7        | No structural steel welding outside containment documented.  |
| 55066  | 7        | DITTO  |
| 55065  | 7        | DITTO  |
| 49053  | 14       | OK   |

TIME SHOULD HAVE BEEN CHARGED AGAINST THE FOLLOWING FOR THIS REPORT. SOME OF TIME ABOVE SHOULD BE DROPPED WHILE SOME MODULES SHOULD BE ADDED.

| Module      | Rpt PARA        | Comment  |
|-------------|-----------------|--|
| 30703       | 18              | OK   |
| 92701       | 3               | OK   |
| 45065       | 4               | OK   |
| 92704 (Add) | 5               | RIV REQUEST TO INSPECT   |
| 92705 (Add) | 15              | HQ <del>on P</del> REQUEST TO INSPECT                              |
| 55053       | 6               | NDE ON LINER IN CONTAINMENT  |
| 47054       | 7, 8, 9, 10, 11 | OK   |
| 47056       | 7, 8, 9, 10     | OK   |
| 51053 (Add) | 11              | } COUNT TIME FOR INSPECTING STORAGE BUT DO NOT INCREASE % COMPLETE |
| 51063 (Add) | 11              |  |
| 50053       | 12              | OK   |
| 50055 (Add) | 12              |  |
| 92716 (Add) | 13, 17          |  |

| Module                   | Rpt Para      | Comments      |
|--------------------------|---------------|---------------|
| 49053 ( <del>772</del> ) | 14            | OK            |
| 49055 (ADD)              | 14            | OK            |
| 92706                    | 16            | OK            |
| <del>92716</del>         | <del>17</del> | <del>OK</del> |

In Reply Refer To:  
Dockets: 50-445/85-07  
50-446/85-05

FEB 03 1986

Texas Utilities Electric Company  
ATTN: W. G. Council  
Skyway Tower  
400 North Olive Street  
Lock Box 81  
Dallas, Texas 75201

Gentlemen:

This refers to the inspection conducted under the Resident Inspection Program by Messrs. J. E. Cummins and H. S. Phillips and others during the period April 1, 1985, through June 21, 1985, of activities authorized by NRC Construction Permits CPPR-125 and CPPR-126 of the Comanche Peak facility, Units 1 and 2, and to the discussion of our findings with Mr. J. T. Merritt, and other members of your staff at the conclusion of the inspection.

Areas examined during the inspection included plant status, action on previous NRC inspection findings, action on applicant identified design construction deficiencies (10 CFR Part 50.55(e) reports) and plant tours. Within these areas, the inspection consisted of selective examination of procedures and representative records, interviews with personnel, and observations by the inspectors. These findings are documented in the enclosed inspection report.

During this inspection, it was found that certain of your activities were in violation of NRC requirements. Consequently, you are required to respond to this violation, in writing, in accordance with the provision of Section 2.201 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations. Your response should be based on the specifics contained in the Notice of Violation enclosed with this letter. Since B&R Procedure 35-1195-CCP-10 has been revised to provide documented inspection of truck mixer blades, there was no abnormal blade wear identified as a result of blade inspection, and there have been consistent concrete strength and uniformity tests, no reply to violation 2.c is required.

RSB *A for*  
HSPhillips/dc  
1/28/86

RSB *DM*  
DMHunnicuttt  
1/28/86

CPT G *G*  
TFWesterman  
1/28/86

DRSP *Web*  
EHJohnson  
1/28/86  
29

NRR *V. Noonan*  
VNoonan  
1/28/86  
*C. H. Houshney*  
1/28/86

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~~8602100241~~ *JPP*

Texas Utilities Electric Company 2

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

Original Signed By  
E. H. Johnson

E. H. Johnson, Acting Director  
Division of Reactor Safety and  
Projects

Enclosures:

1. Appendix A - Notice of Violation
2. Appendix B - NRC Inspection Report  
50-445/85-07  
50-446/85-05

cc w/enclosure:

Texas Utilities Electric Company  
ATTN: J. W. Beck, Manager,  
Licensing  
Skyway Tower  
400 North Olive Street  
Lock Box 81  
Dallas, Texas 75201

Juanita Ellis  
President - CASE  
1426 South Polk Street  
Dallas, Texas 75224

Renea Hicks  
Assistant Attorney General  
Environmental Protection Division  
P. O. Box 12548  
Austin, Texas 76711

Texas Radiation Control Program Director

bcc to DMB (IE01)

bcc distrib. by RIV:

\*RPB  
\*RRI-OPS  
\*RRI-CONST  
\*T. F. Westerman, CPTG  
V. Noonan, NRR  
S. Treby, ELD  
\*RIV File  
\*D. Weiss, LFMB (AR-2015)

\*MIS System  
\*RSTS Operator  
\*R&SPB  
DRSP  
R. Martin, RA  
\*RSB  
J. Taylor, IE  
R. Heishman, IE

\*w/766

APPENDIX A  
NOTICE OF VIOLATION

Texas Utilities Electric Company  
Comanche Peak Steam Electric Station  
Units 1 and 2

Docket: 50-445/85-07  
50-446/85-05  
Permit: CPPR-126  
CPPR-127

During an NRC inspection conducted on April 1 through June 21, 1985, violations of NRC requirements were identified. In accordance with the "General Statement of Policy and Procedures for NRC Enforcement Actions," 10 CFR Part 2, Appendix C (1985), the violations are listed below:

1. Failure to Promptly Correct an Identified Problem with RTE - Delta Potential Transformer Tiltout Subassemblies

10 CFR 50, Appendix B, Criterion XVI, as implemented by Texas Utilities Generating Company (TUGCO) Quality Assurance Plan (QAP), Section 16.0, Revision 0, requires that measures shall be established to assure that conditions adverse to quality, such as failures, malfunctions, deficiencies deviations, defective material and equipment, and nonconformances are promptly identified and corrected.

Contrary to the above, a potential problem with RTE - Delta potential transformer tiltout subassemblies, which are used in the emergency diesel generator control panels, was identified to the applicant via a letter, dated June 15, 1983, from Transamerica Delaval Inc. This letter also provided instructions for correcting the potential problem. However, the applicant did not take the corrective action. The NRC initially reported this item as unresolved in NRC Inspection Report 50-445/84-40.

This is a Severity Level IV violation. (Supplement II.E) (445/8507-01 446/8505-01).

2. Failure To Follow Procedures

10 CFR Part 50, Appendix B, Criterion V, as implemented by the TUGCO QAP, Section 5.0, Revision 2 requires that activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings.

- a. Drawing 2323-51-0550, Revision 4, Section 6-6 specified the use of Class "E" concrete for the Unit 1 reactor coolant pump and steam generator supports.

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Contrary to the above, commercial nonshrink grout was used to grout the Unit 1 reactor coolant pump and steam generator supports in lieu of Class "E" concrete. (445/8507-02) ✓

This is a Severity Level V violation (Supplement II.E).

- b. Brown and Root Procedure QI-QAP-7.2-8, "Receiving of Westinghouse Safety Related Equipment," Section 3.1.d.1, requires a QC inspector to verify that the Westinghouse Quality Release (QR) document checklist items be filled out completely and accurately. Not  
5/27/66

Contrary to the above, the voltage recorded on Westinghouse QR 41424 checklist, attachment 1, step 4.1, was outside the specified tolerance, but the QC receipt inspector accepted QR as satisfactory. (445/8507-03)

This is a Severity Level IV violation.

- c. Brown & Root Procedure 35-1195-CCP-10, Revision 5, dated December 4, 1978, requires that central and truck mixer blades be checked quarterly to assure that mixer blade wear does not exceed a loss of 10% of original blade height. ✓

Contrary to the above, on May 31, 1985, the NRC inspector determined that there was no objective evidence (records) that the mixing blades had been inspected quarterly since the trucks were placed in service in 1977. (445/8507-04; 446/8505-02)

This is a Severity Level V violation (Supplement II.E)

- d. Brown & Root Procedure CP-QAP-15.1, "Field Control of Nonconforming Item," states that nonconforming conditions shall be documented in a Deficiency and Disposition Report (DDR). Procedure CP-QCP-1.3, "Tool Equipment Calibration and Control," dated July 14, 1975, states that out-of-calibration equipment shall be identified on a DDR.

Contrary to the above, on May 31, 1985, the NRC inspector reviewed the calibration file for scale (MTE 779) used for weighing cement and found that a 24-48 pound deviation from the required accuracy was encountered with the water and cement scales during a 1975 calibration of the backup plant scales, however, no DDR was issued to identify this condition and require disposition of the scale and concrete (if any) produced. (445/8507-06; 446/8505-04). ✓

This is a Severity Level IV violation (Supplement II.E).

Pursuant to the provisions of 10 CFR 2.201, Texas Utilities Electric Company is hereby required to submit to this office within 30 days of the date of the letter transmitting this Notice, a written statement or explanation in reply, including for each violation: (1) the reason for the violations if admitted, (2) the corrective steps which have been taken and the results achieved, (3) the corrective steps which will be taken to avoid further violations, and (4) the date when full compliance will be achieved. Where good cause is shown, consideration will be given to extending the response time.

Dated at Arlington, Texas,  
this 3rd day of February, 1986

APPENDIX B

U. S. NUCLEAR REGULATORY COMMISSION  
REGION IV

NRC Inspection Report: 50-445/85-07  
50-446/85-05

Permit: CPPR-126  
CPPR-127

Docket: 50-445; 50-446

Applicant: Texas Utilities Electric Company (TUEC)  
Skyway Tower  
400 North Olive Street  
Lock Box 81  
Dallas, Texas 75201

Facility Name: Comanche Peak Steam Electric Station (CPSES)  
Units 1 and 2

Inspection At: Glen Rose, Texas  
Inspection Conducted: April 1, 1985, through June 21, 1985

Inspectors:

*H. S. Phillips*

H. S. Phillips, Senior Resident  
Reactor Inspector Construction  
(pars. 1, 2, 3, 8, 9, 10, 11, 15, 16,  
17, 18, and 19)

10/1/85  
Date

*NOTE date of signature*

*Paragraph 14 dropped*

*for D. M. Hunnicutt*

J. E. Cummins, Senior Resident Reactor  
Inspector Construction (April 1 - May 10, 1985)  
(pars. 1, 3, and 19)

10/2/85  
Date

*H. S. Phillips for*

D. E. Norman, Reactor Inspector  
(pars. 1, 12, 13, 14, and 19)

10/1/85  
Date

*D. M. Hunnicutt*

D. M. Hunnicutt, Section Chief  
Reactor Projects Branch 2  
(pars. 1, 4, 5, 6, 7, and 19)

10/2/85  
Date

*8602100251 20 pp.*

Approved: D. M. Hunnicutt 1/28/86  
D. M. Hunnicutt, Section Chief, Date  
Reactor Project Section D

Inspection Summary

Inspection Conducted April 1, 1985, through June 21, 1985 (Report 50-445/85-07)

Areas Inspected: Routine, announced and unannounced inspections of Unit 1 which included plant tours and review of plant status, action on previous NRC inspection findings (violations/unresolved items), review of documentation for site dams, and review of 10 CFR Part 21 and 10 CFR Part 50.55(a) construction deficiency status. The inspection involved 77 inspector-hours onsite by four NRC inspectors.

Results: Within the areas inspected, five violations were identified: failure to promptly correct an identified problem with RTE -Delta Potential Transformer Tiltout Subassemblies, paragraph 3.a.; commercial non-shrink grout was used to grout the Unit 1 reactor coolant pump and steam generator supports in lieu of Class "E" concrete, paragraph 3.b.; hydrogen recombiners out-of-specification voltage recorded on quality release document but QC receipt inspector accepted, paragraph 3.c; failure to provide objective evidence to show that central and truck mixer blades were inspected, paragraph 8; and failure to issue a deficiency report on cement scales that were out-of-calibration, paragraph 9.c.

Inspection Summary

Inspection Conducted April 1, 1985, through June 21, 1985 (Report 446/85-05)

Areas Inspected: Routine, announced and unannounced inspections of Unit 2 which included plant tours and review of plant status, action on previous NRC inspection findings (violations/unresolved items), review of documentation for site dams, review of documentation for voids behind the stainless steel cavity liner of reactor building, observation of NDE on liner plates, inspection of concrete batch plant, review of calibration laboratory records for batch plant, review of concrete laboratory testing, inspection of level C and D storage, review of reactor pressure vessel (RPV) and piping records/completed work, and review of 10 CFR Part 21 and 10 CFR Part 50.55(e) construction deficiency status, and review of violation and unresolved items status. The inspection involved 335 inspector-hours onsite by four NRC inspectors.

*Travel  
Analysis*

Results: Within the sixteen areas inspected three violations were identified: failure to correct RTE-Delta transformer problem, paragraph 3.a; failure to provide objective evidence to show that concrete central and truck mixer blades were inspected, paragraph 8; and failure to issue a deficiency report on cement scales that were out-of-calibration, paragraph 9c.

DETAILS

1. Persons Contacted

Applicant Personnel

- M. McBay, Unit 2 Reactor Building Manager
- B. Ward, General Superintendent, Civil
- D. Chandler, QA/QC Civil Inspector
- W. Cromeans, QA/QC, TUGCO Laboratory/Civil Supervisor
- \*#J. Merritt, Assistant Project General Manager
- \*#P. Halstead, Construction Site QA Manager
- #C. Welch, QA Supervisor TUGCO (Construction)
- J. Walters, TUGCO Mechanical Engineer
- K. Norman, TUGCO Mechanical Engineer
- J. Hite, B&R Materials Engineer
- G. Purdy, B&R CPSES QA Manager

\*Denotes those present at May 10, 1985 exit interview.

#Denotes those present at June 10, 1985 exit interview.

The NRC inspectors also interviewed other applicant employees during this inspection period.

2. Plant Status

Unit 1

At the time of this inspection, construction of Unit 1 was 99 percent complete. The fuel loading date for Unit 1 is pending the results of ongoing NRC reviews.

Unit 2

At the time of this inspection, construction of Unit 2 was approximately 74 percent complete. Fuel loading is scheduled for approximately 18 months after Unit 1 fuel loading.

3. Applicant Action on Previous NRC Inspection Findings

a. (Closed) Unresolved Item 445/8440-02: Potential Problem with Potential Transformer Tiltout Subassemblies.

By letter dated June 15, 1983, Transamerica Delaval notified the applicant of an RTE - Delta 10 CFR Part 21 report to the NRC reporting a potential problem with the primary disconnect clips of the potential transformer tiltout assembly used in the emergency diesel generator control panels at CPSES. The Transamerica Delaval

letter also provided instructions for correcting the problem. However, the NRC inspector could not determine if the problem had been corrected at CPSES and made this an unresolved item. The applicant determined that the problem had not been corrected and subsequently performed the recommended corrective action. The Unit 1 corrective action work activities were documented on startup work permits Z-2912 (train A) and Z-2914 (train B). The Unit 2 work activities are being tracked as master data base (MDB) item 3003-31. The failure to promptly correct this identified problem is an apparent violation (445/8507-01; 446/8505-01).

b. (Closed) Unresolved Item 445/8416-03: Commercial Grout Used in Lieu of Class "E" Concrete

The applicant determined that the use of nonshrink commercial grout in lieu of the Class "E" concrete specified on drawing 2323-S1-0550 was acceptable. Design Change Authorization 21179 was issued to drawing 2323-S1-0550 accepting the use of the commercial non-shrink grout. However, the failure to grout with Class "E" concrete as specified on the drawing at the time the work was accomplished is an apparent violation (445/8507-02).

c. (Closed) Unresolved Item 445/8416-04: Hydrogen Recombiners - Out-of-Specification Voltage Recorded on Westinghouse Quality Release Document

Quality Release N-41424 was revised by Westinghouse changing the specified voltage from 10+-2V to 12+-2V which put the questionable voltage within specification limits. However, the failure of receipt inspection to verify that the QRN-41424 was filled out accurately as required by Procedure QI-QAP7.2-8 is an apparent violation (445/8507-03).

d. (Open) Unresolved Item 445/8432-06; 446/8411-06; Lobbin Report Described Site Surveillance Program Weaknesses

During this reporting period the NRC inspector reviewed the status of this open item several times and interviewed TUEC management and site surveillance personnel. The Lobbin report stated that the scope and objectives of the site surveillance program were unclear, lacking both purpose and direction.

There is no specific regulatory requirement to have a surveillance program; however, TUEC committed to have a surveillance program and has established procedures to implement such a program as a part of the 10 CFR Part 50, Appendix B, QA program. This extra effort is a strength; however, the NRC inspector also observed, as did the Lobbin Report, that the surveillance program lacks both purpose and direction to be effective and complimentary to the audit and

inspection programs. Since the TUEC audit group is not located on site, the TUEC surveillance program on site takes on added significance.

This item was discussed with the TUEC site QC manager who described a reorganized site surveillance function and changes that have occurred. New procedures which describe this organization's duties and responsibilities are forthcoming.

TUEC has elected to defer responding to the violations pertaining to the audit function in NRC Inspection Report 445/84-32; 446/84-11, but rather to have the Comanche Peak Response Team (CPRT) respond to this report and other QA matters. The surveillance issue is closely tied to the audit deficiencies in NRC Inspection Report No. 445/84-32; 446/84-11. This item will remain open pending the review and implementation of the CPRT action plan. A special point of interest will be how audits and surveillance work together to evaluate the control of all safety-related activities on site to assure quality, especially the overview of quality control effectiveness.

✓ 4. Document Inspection of Site Dams

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The NRC inspector reviewed documents describing the inspection activities performed on the Squaw Creek Dam (SCD) and the safe shutdown impoundment (SSI) for impounding cooling water for the two units at CPSES. The purpose of the SCD is to impound a cooling lake for CPSES. A secondary reservoir (SSI) is formed by a channel connecting the SCD impoundment to the SSI.

Three documented inspections have been performed since 1980. The inspections were:

- a. Relevant data for SCD is contained in Phase I Inspection, National Dam Safety Program, Squaw Creek Dam, Somervell County, Texas, Brazos River Basin, inspection by Texas Department of Water Resources. Date of Inspection: June 10, 1980.
- b. Inspection on August 25, 1982, by registered professional engineers from Mason-Johnston & Associates, Inc., and Freese & Nichols, Inc.
- c. Inspection on September 19, 1984, by a registered professional engineer from Mason-Johnston & Associates, Inc.

The inspection activities consisted of visual inspections by inspection teams that included accompanying Texas Utilities Service, Inc. (TUSI), and Texas Utilities Generating Company (TUGCO) representatives. Photographs were taken as a part of the documentation. The data for the

piezometer observations and the data for the surface reference monuments were reviewed by applicant personnel and Mason-Johnston engineers. No items of significance were observed or reported by these inspection teams. Slight erosion areas were observed and reported. A cracked area on the service spillway upstream right bridge seat was observed by the inspection teams and continued monitoring of this area was recommended by Mason-Johnston and Associates. No signs of cracks, settlements, or horizontal movement at any location within the SCD or the SSI were reported.

The NRC inspector reviewed the applicant's records and the Mason-Johnston inspection reports. These documents indicated that the SCD and SSI were structurally stable and that the applicant was performing inspection activities to maintain the structural integrity of these dams.

The state of Texas requires periodic inspections of these dams (principally the SCD) due to inhabited dwellings downstream. The applicant has met these inspection requirements.

No violations or deviations were identified.

5. Voids Behind the Stainless Steel Cavity Liner in Unit 2 Reactor Building

In review of previous related TRT concerns, the NRC inspector reviewed applicant records, including NCR C-82-01202; NCR C-1784, Rev. 1; NCR C-1784, Rev. 2; NCR C-1766, Rev. 1; NCR C 1791, Rev. 1; NCR C-1824, Rev. 1; NCR C-1824, Rev. 2; Significant Deficiency Analysis Report (SDAR) - 26, dated December 12, 1979; DCA-20856; and Gibbs and Hill Specification 2323-SS-18. The review of records and documentation and discussions with various applicant personnel indicated the following:

Structural concrete was placed in Unit 2 reactor building at elevation 819 feet 6-3/4 inches to 846 feet 6 inches on June 21, 1979. This concrete was placed adjacent to the stainless steel liner walls. The concrete forms for this pour were not removed until October 1979 due to subsequent concrete placements for the walls to elevation 860 feet 0 inches. When the forms were removed, honeycombs and voids were observed by applicant personnel. The applicant's review of the extent of unconsolidated concrete resulted in the issuance of SDAR-26 on December 12, 1979. Investigations were begun and Meunow and Associates (M&A) of Charlotte, North Carolina, were contracted to perform nondestructive testing on in-place concrete. M&A performed these tests on a two foot grid pattern on the compartment and liner sides of all four steam generator (SG) compartment walls. The selected test locations did not include the locations where the voids were later found to be located.

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Follow up per  
2/7/79 R08



In August 1982, preparations were made to pour the concrete annulus around the reactor vessel. When the expanded metal formwork was removed from the reactor side of the compartment walls, voids were observed and NCR C-82-01202 was prepared. DCA 20856 was prepared as a procedure to repair the void area. DCA 20856 indicated that the voids were not extensive (a surface area of about 28 square feet by 8 inches maximum depth) and that the repair procedure assured that the total extent of voids had been identified. One half (0.5) of a cubic yard of concrete was used to complete the repairs as indicated on grout pour card 261.

The applicant's review and evaluation of the grid pattern and a comparison of SG compartments 2 and 3 to 1 and 4 indicated that voids did not exist in SG compartments 2 and 3. The review of test grids extended down to elevation 834 feet, which is the floor elevation of the liner. The liner walls of SG compartments 1 and 4 were not tested at elevation 834 feet, but at elevation 836 feet which is above the area of the identified voids. No testing was done on the liner side of the area of the voids below elevation 836 feet. The program also included removal of 2 inch x 2 inch plugs from the stainless steel liner at locations where test indications raised questions concerning the concrete. The inspections of the concrete by applicant personnel after the plugs were removed confirmed that there were no additional unconsolidated concrete areas (voids).

In accordance with OCA 20856, the applicant removed stainless steel liner plates from three areas (one area about 1 foot by 1 1/2 feet and two areas about 3 feet by 1 foot, excavated or chipped to sound concrete, and cleaned the concrete surface area. One and one-quarter inch (1 1/4) diameter probe holes and grout access holes were drilled in the liner plates to determine the extent of and to assure full definition of the void area. Air access holes were drilled in the stainless steel liner plates to assure that grouting would be accomplished in accordance with the procedure.

The procedure (DCA-20856) specified that the grout was to be cured for 28 days or until the grout reached a compressive strength of 4000 psi. Repairs to the liner plates were specified in DCA-20856 and G&H Procedure 2323-SS-18.

DCA-20856 required that under no circumstances was cutting of the liner across weld seams, across embedded weld plates, or into leak chase seal welds or drilling through the liner at leak chase channels, embeds, or weld seams permitted. Documentation review indicated that DCA-20856 was adhered to and that no cutting or drilling occurred in prohibited locations.

No violations or deviations were identified.

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6. Nondestructive Testing Observations of Liner Plates in Fuel Transfer Canal

The NRC inspector observed portions of non-Q liquid penetrant examinations (PT) being performed on liner plate welds following re-installation of the liner plates in the areas of the fuel transfer canal removed for inspection and repair of the concrete. The inspector performed the PT on the welds as required by the repair package and the procedure (QI-QP-11.18-1, "Liquid Penetrant Examination"). Scattered weld porosity was identified by the inspection. The porosity was ground out and a repeat PT was performed. The final inspection is scheduled to be performed by QC inspection personnel. The liner plate areas to be inspected by PT were identified in DCA 20856.

No violations or deviations were identified.

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7. Cadweld Splice Observations and Records

a. Calibration of Tensile Tester

The NRC inspector observed the calibration of the Tinius-Olson Universal Testing Machine (Model Number 600-12 Identification Number M&TE-784) on April 2 and May 7, 1985. The machine was calibrated just prior to performing tensile testing of cadweld splices and subsequent to completion of tensile testing each day that tensile testing was performed. The machine calibration date for April 2, 1985, prior to start of tensile testing was observed by the NRC inspector and recorded as follows:

| Nominal load<br>(lbs) | Calibration Reading<br>(lbs) | Error<br>(lbs) | Error<br>% | Remarks                |
|-----------------------|------------------------------|----------------|------------|------------------------|
| 0                     | 0                            | 0              | 0          | 0 machine on<br>4/2/85 |
| 100,000               | 99,750                       | +250           | +0.25      |                        |
| 200,000               | 199,600                      | +400           | +0.2       |                        |
| 300,000               | 299,450                      | +550           | +0.18      |                        |
| 350,000               | 350,300                      | -300           | -0.08      |                        |
| 400,000               | 401,200                      | -1200          | -0.03      |                        |
| 500,000               | 501,350                      | -1350          | -0.27      |                        |
| 600,000               | 602,450                      | -2450          | -0.40      |                        |

The NRC inspector reviewed calibration data for March 4, March 8, April 2, April 3, April 30, and May 7, 1985. All calibration data met within the +/- 1% accuracy requirement specified by Calibration Procedure 35-1195-IEI-37, Revision 3, dated March 11, 1982. The reference standards were identified as follows:

| <u>ID No.</u> | <u>Manufacturer</u> | <u>Calibration Due Date</u> |
|---------------|---------------------|-----------------------------|
| RS-75         | BLH Electronics     | January 27, 1987            |
| RS-75.3       | BLH Electronics     | January 27, 1987            |

b. Observation of Cadweld Splice Tensile Testing

(1) Qualification Tensile Testing

On April 2, 1985, the NRC inspector observed the following tensile testing of cadweld splices for cadwelder qualification: EBJ Q8, GBH Q1, GBH Q2, GBV Q1, BFD Q4, BFD Q3, BFH Q4, GAH Q1, GAV Q1, and GBV Q2.

Each of the above qualification cadweld splices was tensile tested to 400,000 pounds (100,000 psi) and met the requirements stated in the procedure.

(2) Production Tensile Testing

The NRC inspector observed the tensile tester calibrations and the following production cadweld splices tensile testing on May 7, 1985: FXD 3P, FYD 4P, FYD 8P, FRD 87P, and FUD 6P.

Each of the above production cadweld splices was tested to 400,000 pounds (100,000 psi) and met the requirements stated in the procedure.

(3) Installation of Production Cadweld Splices

The NRC inspector observed installation of rebar and cadweld splices at frequent intervals (five or more observations per week during the weeks of April 8 and 15; May 6, 13, 20, and 27; and June 3, 1985). The rebar installation for the Unit 2 closure was performed in the area identified as elevation 805 feet to elevation 875 feet and azimuth 300 degrees to 335 degrees. The installation activities observed included rebar spacing, location of cadwelds, observation of selection and removal for testing of cadweld splices for testing, and determination of location of rebars and cadwelds for the as-built drawings.

(4) Documentation Reviewed

The NRC inspector reviewed the following documentation for the rebar placement and cadwelding for the Unit 2 containment (reactor building) closure area:

| <u>Drawings</u>    | <u>DCAs</u>        | <u>MCRs</u>       |
|--------------------|--------------------|-------------------|
| 2323-S-0785, Rev.7 | 22616, Rev. 1      | C85-200294        |
| 2323-S-0786, Rev.9 | 22728              | C85-200339, Rev.1 |
| 2323-S1-500, Rev.5 | 22737              | C85-200355, Rev.1 |
| 2323-S1-506, Rev.5 | 22836              |                   |
| 2323-S2-505, Rev.5 | 22878 (Sheets 1-7) |                   |
| 2323-S2-508, Rev.2 | 22772              |                   |
| 2323-S2-506, Rev.3 |                    |                   |

No violations or deviations were identified.

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56 8. Concrete Batch Plant Inspection, Unit 1 and 2

The NRC inspector inspected the concrete production facilities for the following specific characteristics for the following areas: (1) material storage and handling of cement, aggregate, water and admixture, (2) batching equipment scales, weighing systems, admixture dispenser, and recorders, (3) central mixer (not applicable because it had been dismantled), (4) ticketing system, and (5) delivery system.

The current batching is a manual operation since almost all concrete has been placed. The central mixer was dismantled and removed from site two or three years ago when concrete placement was virtually completed. Presently, the backup batch plant (which was a backup system for the central mixer) is in operation to complete the remaining concrete placements. This batch plant is in good condition and complied with the subject checklist except for one area.

The NRC inspector inspected the inside of one of three trucks used for mixing concrete (that is, the batch plant dispenses the correct weight of materials as required by the specific design mix numbers and the truck then mixes the batch to be placed.) The blades inside the truck are subject to wear and should be checked at a reasonable frequency. The Brown & Root (B&R) representative responsible for checking the blades in accordance with B&R Procedure 35-1195-CCP-10, Revision 5, dated December 4, 1978, was asked for evidence that the blades had been checked for wear on a quarterly basis as required by procedures and it was found that there was no record of such checks dating back to 1977 when they were initially checked.

In the FSAR Volume V, Section 3.8.1.2.3, the applicant commits to ACI 304-73. In ACI 304, the maintenance of mixer blades is required.

Procedure CCP-10, paragraph 3.10 "Truck Mixing," is silent on blade wear but Section 3.11 infers that the blades should be checked for both central and truck mixing. The inspection of both central and truck mixing blades

was not documented, although the B&R representative stated that the mixing blades were periodically inspected and laboratory testing would have probably indicated if there was a problem with the mixing blades. Strength and uniformity tests have consistently been within the acceptable range indicating that concrete production was acceptable even though mixing blade inspection was not documented.

Otherwise, the condition of the inside of the truck was satisfactory as the drum and charging/discharging were clean. The water gage and drum counter were in good condition.

This failure to follow procedures is a violation of 10 CFR 50, Appendix B, Criterion V. Subsequent to the identification of this violation, the blades were checked for wear and blade wear was presently within allowable limits (445/8507-04; 446/3505-02).

No other violations or deviations were identified.

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Calibration Laboratory for Batch Plant Unit 1 and 2

The NRC inspector obtained batch plant scale numbers from tags which indicated that the scales had been calibrated and were within the calibration frequency. Cement (MTE 779), Water (MTE 766), admixture scale (MTE 764), and aggregate (MTE 780) were reviewed. The scales had been periodically calibrated since the batch plant was activated. The records were adequate except as follows:

- a. Scales MTE 766 records do not differentiate between the required accuracy of the scale and the digital readout.
- b. Scales MTE 779 and 780 records show various accuracy ranges for the same scale; i.e., MTE 779 (SN749687) records the following: report dated January 1976 gives 1%; report dated July 1976 gives 1% while the report dated October 1976 gives +/- 0.2%.

The calibration appeared to be proper, however, the above items are unresolved pending further review of the applicant's actions regarding the correction of these records (445/8507-05; 446/8505-03).

- c. Records for scales MTE 779 records contained B&R memo IM-1108 dated July 16, 1975, which described a nonconforming condition. This condition affected the water and cement scales causing a 24-48 pound deviation (7,000 pound scale) during the calibration test. The memo stated that the condition was corrected and the scales were then calibrated; however, no deficiency report was written as required by B&R Procedure CP-QCP-1.3, "Tool and Equipment Calibration and Tool Control" dated July 14, 1975, and CP-QAP-15.1, "Field Control of Nonconforming Items," dated July 14, 1975. As a result there is no evidence that

corrective action included an evaluation to determine if concrete production was adversely affected.

This failure to assure that a nonconforming condition was evaluated is a violation of Criterion XV of 10 CFR Part 50, Appendix B, (445/8507-06; 446/8505-04).

47054  
56 10. Concrete Laboratory Testing Units 1, and 2

TUGCO Procedure QI-QP-11.1-1, Revision 6, was compared with ASME Section III, Division 2, Subsections 5222, 5223 and 5224 to assure that each ASTM testing requirement was incorporated into the procedure.

The NRC inspector inspected the testing laboratory equipment and found the test area and equipment were in good condition and each piece of equipment was tagged with a calibration sticker which showed it to be within the required calibration frequency. Test personnel were knowledgeable of test requirements and equipment.

The NRC inspector witnessed field tests performed by laboratory personnel as follows:

| <u>Date</u> | <u>Truck No.</u> | <u>Mix No.</u>  | <u>Ticket No.</u> | <u>Air Content(%)</u>       | <u>Slump (in.)</u> |              |
|-------------|------------------|-----------------|-------------------|-----------------------------|--------------------|--------------|
|             |                  | <u>Temp(°F)</u> |                   |                             |                    |              |
| 6/3/85      | RT-41            | 925             | 64013             | Req 8.2-10.3<br>Mea 8.7-9.1 | NA                 | 70 max<br>57 |
| 6/3/85      | RT-35            | 128             | 64014             | Req 5.0-7.0<br>Mea 6.6      | 5 max              | 70 max<br>57 |

\*Initial slump was high; however, after additional truck rotations the slump was found acceptable.

The following laboratory equipment was checked and found to be within calibration: Forney Compression Tester, MTE 3031; Temperature Recorder MTE 3013 and 3014; Unit Volume Scale, MTE 1053; Pressure Meters MTE 3000B, 3002 and 3004; Sieves MTE 1286, 1239, 1272, 1274, 1136A, 1156, 1094, 1093, 1095, 1176, 1179, 1300 and 1180; Aggregate scales, MET 1058 and 1067; and 2" grout mold MTE 1111.

The following test records for placement number 201-5805-034 were reviewed: (1) concrete placement inspection, (2) concrete placement summary and, (3) unit weight of fresh concrete.

No violations or deviations were identified.

11. Inspection of Level C and D Storage Unit 1 and 2

47054 Reinf steel  
51053 Elect  
63 Comp  
44053 Piping  
48063 Str. suppts

The NRC inspector inspected all laydown areas where piping, electrical conduit, cable, and structural reinforcing steel were stored. These materials were neatly stored outside on cribbing in well drained areas which allowed air circulation and avoided trapping water. This met the Level "D" storage requirements of ANSI N45.2.2.

The electrical warehouse contained miscellaneous electrical hardware. This building was required to be fire resistant, weathertight, and well ventilated in order to meet Level "C" storage requirements. This warehouse was well kept and met all requirements except for a lock storage area located upstairs at the rear of this building (electrical termination tool room). Two minor problems were identified and the warehouse personnel initiated action to correct them.

The first problem noted was that a box of nuclear grade cement was marked "shelf life out of date" but it had no hold tag. The box was subsequently tagged in accordance with TUGCo nonconformance Procedure CP-QAP-16.1, Revision 24 (Nonconformance Report (NCR) E85-200453) after being identified by the NRC. During discussions with the warehouseman, the NRC determined that engineering told the warehouseman to mark the material and lock it up, but did not tell him to apply an NCR or hold tag. Also, the NRC inspector noted a very small leak in the roof above the electrical termination tool room. This leak was in an area that did not expose hardware to moisture. The roof is currently being repaired.

The millwright warehouse storage area was inspected; however, only a small number of items or materials were stored in this area. The overall storage conditions in this area met or exceeded Level "C" storage requirements.

No violations or deviations were identified.

12. Reactor Pressure Vessel and Internals Installation - Unit 2

50053  
63  
63  
Missing  
50051

This inspection was performed by an NRC inspector to verify final placement of the reactor pressure vessel (RPV) and internals by examining the completed installation and inspection records.

a. Requirements for Placement of RPV

Requirements for placement of the RPV to ensure proper fit-up of all other major NSSS equipment are in Westinghouse Nuclear Services Division (WNSD) "Procedure for Setting of Major NSSS Components", Revision 2, dated February 13, 1979, and "General Reactor Vessel Setting Procedure" Revision 2, dated August 30, 1974. The NRC

inspector reviewed the following drawings, which were referenced in the RPV operation traveler, to verify implementation of WNSD recommendations:

- o WNSD drawing 1210E59 "Standard - Loop Plant RV Support Hardware Details and Assembly"
- o WNSD drawing 1457F27 "Comanche Peak SES RCS Equipment Supports - Reactor Vessel Supports"
- o CE drawing 10773-171-004 "General Arrangement Elevation"
- o CE drawing 10773-171-005 "General Arrangement Plan"

Neither site prepared installation drawings nor specifications (which implemented the WNSD recommended procedures) were available and the drawings examined did not show certain specific installation criterion such as centering tolerances, levelness tolerances and clearance between support brackets and support shoes.

The inspector considers this matter unresolved. (446/8505-05)

b. Document Review

The NRC inspector reviewed B&R Construction and Operation Traveler No. ME79-248-5500 which described the field instructions for installation of the Unit 2 RPV. Requirements recommended by WNSD procedures were implemented in the traveler. Worksheets attached to the traveler showed the RPV to be centered and leveled within the established tolerances. Traveler operation 19 required verification of a 0.020 to 0.005 inch clearance between the support bracket and support shoe, after applying the shim plates. Change 5 subsequently changed the clearance to a 0.015 to .025 inch clearance. The installation data reflected in attachment 3B of the traveler indicated an as-built clearance of 0.012 to 0.026 inch which exceeds both the original and revised tolerances. This condition was accepted on the traveler based on Westinghouse concurrence, and there was no documented engineering evaluation onsite justifying the final tolerances. This matter is considered unresolved pending documentation validating the final installation tolerances. (446/8505-06)

The NRC inspector reviewed the following receiving records for the RPV hardware and found them to be in order:

- o Report No. 14322 for 54 each closure studs, closure nuts, and closure washers
- o Report No. 09507 for vessel S/N 11713, Closure Head 11713 and 26 O-Rings



- o Deviation notices and corrective action statements

The NRC inspector reviewed the following completed travelers for internals installation and found them to be satisfactory:

- o ME-84-4641-5500, "Assemble Upper Internals"
- o ME-84-4503-4000, "Install and Adjust Roto Locks"
- o ME-81-2145-5500, "Retorque UI Column Extension"
- o RI-80-385-5500, "Transport and Install Lower Internals"
- o ME-84-4617-5500, "Repair Lower Internals"
- o ME-84-4640-5500, "Assemble Lower Internals"

c. Visual Inspection

At this time, visual inspection of the internals by the NRC inspector was not possible, and inspection was limited on the vessel placement to a walk-around beneath the vessel to inspect the azimuth markings and for construction debris between the vessel and cavity. No problems were identified in this area.

d. Records of QA Audits or Surveillances

The NRC inspector requested TUGCO QA audits or surveillances performed by TUGCO of the Unit 2 RPV installation. TUGCO did not make available any documentation of an audit or surveillance which evaluated specified placement criteria, placement procedures, hardware placement, or as-built records. This item is unresolved pending a more comprehensive review of these activities (446/8505-07).

No deviations were identified; however, two unresolved items were identified and are described in the above paragraphs. (11.a and d)

13. Reactor Vessel Misorientation

603  
92703  
On February 20, 1979, the applicant reported to the NRC Resident Inspector that a design error had resulted in the reactor support structures being placed in the wrong position on the reactor support pedestal such that the reactor would be out of position by 45 degrees. Initially, Unit 2 was to be a mirror image of Unit 1, however, a design change was initiated to permit identical components for both units. The design change was implemented for the reactor vessel, but not for the pedestal support locations. The problem was not considered by the applicant to be

reportable under provisions of 10 CFR Part 50.55(e) since the error could not have gone undetected.

The deficiency was reported to the NRC Office of Inspection and Enforcement on February 22, 1979 and during a March 27, 1979 meeting in Bethesda, Maryland, the applicant presented the proposed redesign and rework procedures for relocating the pedestal supports. No unresolved safety concerns with the repair were identified at the meeting.

During this inspection the NRC inspector reviewed various documentation relative to the misorientation problem, including design changes and the construction traveler which implemented the repair.

The following documents were reviewed:

- o NRC Inspection Reports 50-446/79-03; 50-446/79-07; 50-446/79-13
- o TUSI Conference Memo, dated March 1, 1979, H. C. Schmidt to S. Burwell (NRC Licensing PM)
- o TUGCO letter TXX-2980, dated April 30, 1979, to W. C. Seidle
- o NRC letter to TUGCO dated May 29, 1979
- o DCA 3872, Revision 1, dated February 28, 1979, Subject: Rework of Structure for Placement of the RPV Support Shoes
- o DCA 4122, dated March 22, 1979, Subject: Replacement of Rebar for RPV Supports
- o Construction Traveler CE79-018-5505, dated March 14, 1979, Subject: Rework of Reactor No. 2 Cavity - New RPV Support Locations
- o Grout Replacement Cards No. 007, 008, 009, 010, 014, and 015, various dates, Subject: Replacement of Grout around Rebar for Repair of RPV Support Shoes
- o Various Inspection Reports for Grout Properties and Application for RPV Support Shoes

No violations or deviations were identified.

49053 14.  
55\* 7.  
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Reactor Coolant Pressure Boundary (RCPB) Systems

The inspection was performed to verify: the applicants system for preparing, reviewing, and maintaining records for the RCPB piping and components; that selected records reflected compliance with NRC requirements and SAR commitments for manufacture, test and installation of

items; and as-built hardware was adequately marked and traceable to records. The following items were randomly selected and inspected:

- a. Pressurizer Safety Valve - This item was inspected to the commitment stated in FSAR, Table 5.2-1 which includes ASME Section III, 1971 Edition through Winter 1972 Addenda. Valve S/N N56964-00-007, which is installed in the B position, was inspected. The following records were reviewed:

- o QA Receiving Inspection Report No. 21211
- o Code Data Report Form NV-1
- o Valve Body Certified Material Test Reports (CMTRs)

The valve was in place, however, installation had not been completed; therefore, the hardware installation inspection consisted of verifying that the item was traceable to the records.

- b. CVCS Spool Piece 3Q1 - Requirements for this item are stated in ASME, Section III, 1974 Edition through Summer 1974 Addenda, which is the commitment from the FSAR, Table 5.2-1. The item was field fabricated from bulk piping and purchased elbows and installed in the CVCS with field welds number 1 and 6 (ref. BRP-CS-2-RB-076). The following records were reviewed:

- o B&R Code Data Report
- o Field Weld Data Card
- o NDE Reports
- o QA Receiving Reports for piping and elbows
- o CMTRs

The installed spool piece was inspected for weld quality and to verify that marking and traceability requirements had been met. The item had been marked with the spool piece number (3Q1) and the B&R drawing number which provided traceability to the material certifications.

- c. Loop 3 RC Cold Leg - Requirements for this item are stated in ASME, Section III, 1974 Edition through Summer 1974 Addenda, which is the commitment from the FSAR, Table 5.2-1. This piping subassembly consists of a 27.5 inch cast pipe with a 22 degree elbow on the reactor end, a 10 inch 45 degree nozzle, a 3 inch nozzle, and three 2

1/2 inch thermowell installation bosses. The following records were reviewed for the subassembly:

- o QA Receiving Inspection Report No. 12389
  - o Westinghouse Quality Release (QRN 47523)
  - o Code Data Report Form NPP-1
  - o 27 1/2 inch line CMTR
  - o 3 inch nozzle CMTR
  - o Field Weld Data Cards
  - o NDE Reports
- (1) Sandusky Foundry and Machine Company test report for the cold leg pipe certifies that material meets requirements of ASME Section II, 1974 editions through winter 1975. Southwest Fabrication and Welding Company code data report NPP-1 Form certified that the cold leg subassembly met requirements of ASME Section III, 1974 edition through winter 1975.
- (2) The NRC inspector reviewed the procedures and hydro test data applicable to Unit 1, since Unit 2 hydro had not been completed. Requirements for the tests were presented in Procedures CP-QAP-12.2, "Inspection Procedure and Acceptance Criteria for ASME Pressure Testing" and CP-QAP-12.1, "ASME Section III Installation, Verification, and N-5 Certification." Procedure CP-QAP-12.1 requires that a data package to be used in the test, be prepared with the test boundary and the additional following data shown:
- o Base metal defects in which filler material has been added, and the depth of the base metal defect exceeds 3/8 inch or 10% of the actual thickness, whichever is less.
  - o Untested vendor performed piping circumferential welds.
  - o Approximate location and material identification and description for permanent pressure boundary attachment with applicable support number referenced.
  - o Weld history, which shall reflect weld removal and/or weld repair.

The completed hydro data package (PT-5501) for Unit 1, loop 3 cold leg was reviewed for compliance with the above requirements. Drawing No. BRP-RC-1-520-001 had been used to annotate the test boundary. A handwritten statement on the drawing indicated: "No major base metal repairs could be located" and "No hangers with weld attachments could be located." Welds performed by the pipe subassembly vendor, including the 22 degree circumferential weld and the penetration fittings had not been identified. The following items are unresolved pending further review to determine:

- o If the statement "no major base metal repairs" was based on a visual inspection or on a review of vendor and site inspection and repair records.
- o If the shop circumferential weld attaching the 22 degree elbow to the pipe assembly was inspected during the test.
- o If welds for penetrations into pipe assembly were inspected since Procedure CP-QAP-12.1 does not require identification of such welds and they were not identified on the drawing.

The above issues will remain unresolved pending further evaluation by the applicant (445/8507-07; 446/8505-09).

- 55073  
55177 (RCPS)  
SPECIFIC weld  
eval.
- d. Personnel Qualifications - Personnel who had performed selected tasks were identified during inspection of installation records. Training and experience records for the personnel were reviewed to verify that employee qualifications and maintenance of records were current and met requirements. Names or codes for five welders and two NDE examiners, who had performed tasks during installation of the items being inspected, were identified and their qualification records reviewed. There were no questions in this area of the inspection.

No violations or deviations were identified.

15. Special Plant Tours (Unit 1 and Unit 2)

92765  
HQ Request

On May 23, 1985, the NRC inspector conducted a tour of selected areas of Unit 1 and Unit 2. The group consisted of one NRC inspector, two NRC Technical Review Team (TRT) representatives, two allegers, and several TUEC representatives. The TUEC representatives tagged each area where a deficiency was alleged. With the allegers' consent, a tape recorder was also used to note locations and describe any alleged deficiencies. The allegers indicated that they had identified all deficiencies during the

tour and all other deficiencies that they had knowledge. The NRC TRT is analyzing this information and will decide what action, if any, should be taken. -

During this tour the NRC inspector independently identified a questionable practice in that the top of the the pipe chase at the north end of room 80 in Unit 1, safeguards building had two large stickers which stated that areas on the wall were reserved for pipe hangers GHH-S1-1-SB-038-006 and R1(?)1-087-X11. These stickers were dated 1980. It was not evident whether hangers were missing or none were needed in these locations and the reserve tags were not removed. TUEC representatives were unable to answer the question immediately. This item is unresolved pending further review during a subsequent inspection. (445/8507-08).

No violations or deviations were identified.

16. Routine Plant Tours (Units 1 and 2)

92704  
At various times during the inspection period NRC inspectors conducted general tours of the reactor building, fuel building, safeguards building, electrical and control building, and the turbine building. During the tours, the NRC inspector observed housekeeping practices, preventive maintenance on installed equipment, ongoing construction work, and discussed various subjects with personnel engaged in work activities.

No violations or deviations were identified.

17. Review of Part 21 and 10 CFR 50.55(e) Construction Reports Status

The NRC inspector reviewed all reports issued to date to assure that NRC and TUEC status logs were complete and up to date. A total of 183 reports have been submitted to date. This inspection period one Part 21 report on Diesel Generator Oil Plugs and two 10 CFR 50.55(e) reports on the Equipment Hatch Cover and SA106 Piping (light wall) were submitted.

No violations or deviations were identified.

30703  
18. Exit Interviews

The NRC inspectors met with members of the TUEC staff (denoted in paragraph 1) on May 10 and June 10, 1985. The scope and findings of the inspection were discussed. The applicant acknowledged the findings.