



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SEP 30 1988

Docket Nos. 50-445
and 50-446

APPLICANT: Texas Utilities Electric Company (TU Electric)
FACILITY: Comanche Peak Steam Electric Station (CPSES), Units 1 and 2
SUBJECT: SUMMARY OF MEETING ON MARCH 17-18, 1988 -
COMANCHE PEAK FIRE PROTECTION PROGRAM

On March 17-18, 1988, the staff met with representatives of TU Electric, lead applicant for the CPSES, to discuss (1) the status of TU Electric actions related to open and unresolved items in NRC Inspection Report 50-445/87-22 and (2) information needed by the staff to complete its revised safety evaluation on the fire protection program for the CPSES Units 1 and 2. The meeting notice, agenda, and list of attendees are provided as Enclosures 1, 2, and 3, respectively, to this summary. The handouts used by the applicant are included as Enclosure 4.

The applicant provided the status of each of the open and unresolved items appearing in Inspection Report 50-445/87-22 which documents the results of NRC's site inspection of CPSES Unit 1 during the period October 19-23, 1987. TU Electric's responses to the items are documented in a letter from W. G. Council (TU Electric) to NRC dated March 11, 1988 (TXX-88309). Following this status review, the staff and applicant discussed deviations from Appendix A to APCS 9.5-1 and applicant evaluations (documentation) to demonstrate fire protection program compliance. In addition to pages 16-18 of Enclosure 4, the applicant provided some preliminary information as a handout (Enclosure 5) on numbers and areas of evaluations and deviations.

Following an NRC caucus, TU Electric advised the staff that they planned to submit an FSAR amendment describing recent changes in their evaluation process. These changes have been made since the letters of April 15, 1987 (TXX-6376) and August 4, 1987 (TXX-6582), which provided TU Electric comments and clarifications on the CPSES Fire Protection Program as it relates to NRC's discussion in Section 9.5.1 of Supplement #12 to the Comanche Peak Safety Evaluation Report (SER). The staff advised TU Electric that it wanted to review some evaluations on file at TU Electric demonstrating fire protection program compliance.

Following these discussions, the meeting broke into two working sessions, one group discussed staff information needed for the revised CPSES SER on fire protection and the other group reviewed several engineering evaluations demonstrating fire protection program compliance.

DF01
/

In closing discussion, the staff noted that formal review of the applicant's responses to the open and unresolved items from Inspection Report 50-445/87-22 would take place at some time in the future. The staff expressed an intent to spend some time at the site and off site auditing a sample of TU Electric's fire protection program engineering evaluations. The staff also remarked that it would like to see better cross referencing or more direct linking of the engineering evaluations in the Comanche Peak Fire Protection Report to assure a clear licensing basis. TU Electric stated that it intends to submit advanced draft FSAR changes by early May 1988.

original signed by:

Melinda Malloy, Project Manager
Comanche Peak Project Division
Office of Special Projects

Enclosures:

- 1. Meeting Notice
- 2. Agenda
- 3. List of Attendees
- 4. TU Electric Handouts
- 5. Handouts on Engineering Evaluations

cc w/enclosure:

See next page

DISTRIBUTION:

Docket Files (50-445/446)

- NRC FDR
- Local PDR
- CPPD Reading
- OSP Reading
- JPartlow
- CGrimes
- PMcKee
- JWilson
- JLyons
- RWarnick
- MMalloy
- Jwiebe
- ASingh
- DKubicki
- OGC-WF
- DCrutchfield
- EJordan
- BGrimes
- ACRS (10)

| | | | | | | |
|------|-------------|-----------|---|---|---|---|
| OFC | PM:CPPD | AD/P:CPPD | : | : | : | : |
| NAME | MMalloy:sam | JWilson | : | : | : | : |
| DATE | 9/28/88 | 9/30/88 | : | : | : | : |

SEP 30 1986

W. G. Council
Texas Utilities Electric Company

cc:

Jack R. Newman, Esq.
Newman & Holtzinger, P.C.
Suite 1000
1615 L Street, N.W.
Washington, D.C. 20036

Robert A. Wooldridge, Esq.
Worsham, Forsythe, Sampels &
Wooldridge
2001 Bryan Tower, Suite 2500
Dallas, Texas 75201

Mr. Homer C. Schmidt
Director of Nuclear Services
Texas Utilities Electric Company
Skyway Tower
400 North Olive Street, L.B. 81
Dallas, Texas 75201

Mr. R. W. Ackley
Stone & Webster
Comanche Peak Steam Electric Station
P. O. Box 1002
Glen Rose, Texas 76043

Mr. J. L. Vota
Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Susan M. Theisen
Assistant Attorney General
Environmental Protection Division
P. O. Box 12548, Capitol Station
Austin, Texas 78711-1548

Mrs. Juanita Ellis, President
Citizens Association for Sound Energy
1426 South Polk
Dallas, Texas 75224

Ms. Nancy H. Williams
CYGNA Energy Services
2121 N. California Blvd., Suite 390
Walnut Creek, CA 94596

Comanche Peak Steam Electric Station
Units 1 and 2

Asst. Director for Inspec. Programs
Comanche Peak Project Division
U.S. Nuclear Regulatory Commission
P. O. Box 1029
Granbury, Texas 76048

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Lanny A. Sinkin
Christic Institute
1324 North Capitol Street
Washington, D.C. 20002

Ms. Billie Pirner Garde, Esq.
Government Accountability Project
Midwest Office
104 East Wisconsin Avenue
Appleton, Wisconsin 54911

David R. Pigott, Esq.
Orrick, Herrington & Sutcliffe
600 Montgomery Street
San Francisco, California 94111

Anthony Z. Roisman, Esq.
Suite 600
1401 New York Avenue, NW
Washington, D.C. 20005

Robert Jablon
Bonnie S. Blair
Spiegel & McDiarmid
1350 New York Avenue, NW
Washington, D.C. 20005-4798

George A. Parker, Chairman
Public Utility Committee
Senior Citizens Alliance Of
Tarrant County, Inc.
6048 Wonder Drive
Fort Worth, Texas 76133

SEP 30 1988

W. G. Council
Texas Utilities Electric Company

- 2 - Comanche Peak Electric Station
Units 1 and 2

cc:

Joseph F. Fulbright
Fulbright & Jaworski
1301 McKinney Street
Houston, Texas 77010

Roger D. Walker
Manager, Nuclear Licensing
Texas Utilities Electric Company
Skyway Tower
400 North Olive Street, L.B. 81
Dallas, Texas 75201

Texas Utilities Electric Company
c/o Bethesda Licensing
3 Metro Center, Suite 610
Bethesda, Maryland 20814

William A. Burchette, Esq.
Counsel for Tex-La Electric Cooperative
of Texas
Heron, Burchette, Ruckert & Rothwell
Suite 700
1025 Thomas Jefferson Street, NW
Washington, D.C. 20007

GDS ASSOCIATES, INC.
Suite 720
1850 Parkway Place
Marietta, Georgia 30067-8237



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Enclosure 1

March 3, 1988

Docket Nos. 50-445
and 50-446

MEMORANDUM FOR: Christopher I. Grimes, Director
Comanche Peak Project Division
Office of Special Projects

THRU: James H. Wilson, Assistant Director *JHW*
for Projects
Comanche Peak Project Division
Office of Special Projects

FROM: Melinda Malloy, Project Manager
Comanche Peak Project Division
Office of Special Projects

SUBJECT: FORTHCOMING MEETING WITH TU ELECTRIC

Date & Time: Thursday, March 17, 1988, 1:00 pm - 5:00 pm
Friday, March 18, 1988, 8:30 am - 12:00 Noon

Location: One White Flint North
11555 Rockville Pike
Room 10 B 13
Rockville, MD 20852

Purpose: For Applicant and Staff to discuss:
1. information related to open and unresolved items in NRC Inspection Report 50-445/87-22, and
2. information needed by NRC to complete a revised safety evaluation for the implementation of the fire protection program for Comanche Peak, Units 1 and 2

Participants*:

| | |
|------------------------|--------------|
| NRC | Applicant |
| P. McKee | R. Walker |
| A. Singh | J. Seawright |
| M. Malloy | R. Layton |
| T. Storey (contractor) | et al. |
| A. Fresco (contractor) | |

Melinda Malloy
Melinda Malloy, Project Manager
Comanche Peak Project Division
Office of Special Projects

cc: See next page

CONTACTS: Melinda Malloy or James H. Wilson
(301)492-0738 (301)492-3306

* Meetings between NRC technical staff and applicants for licenses are open for interested members of the public, petitioners, intervenors, or other parties to attend as observers pursuant to "Open Meetings and Statement of NRC Staff Policy," 43 Federal Register 28058, 6/28/78.

8803080-46 3PP

W. G. Council
Texas Utilities Electric Company

cc:
Jack R. Newman, Esq.
Newman & Holtzinger, P.C.
Suite 1000
1615 L Street, N.W.
Washington, D.C. 20036

Robert A. Wooldridge, Esq.
Worsham, Forsythe, Sampels &
Wooldridge
2001 Bryan Tower, Suite 2500
Dallas, Texas 75201

Mr. Homer C. Schmidt
Director of Nuclear Services
Texas Utilities Electric Company
Skyway Tower
400 North Olive Street, L.B. 81
Dallas, Texas 75201

Mr. Robert E. Ballard, Jr.
Director of Projects
Gibbs and Hill, Inc.
11 Penn Plaza
New York, New York 10001

Mr. R. S. Howard
Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Renea Hicks, Esq.
Assistant Attorney General
Environmental Protection Division
P. O. Box 12548, Capitol Station
Austin, Texas 78711

Mrs. Juanita Ellis, President
Citizens Association for Sound Energy
1426 South Polk
Dallas, Texas 75224

Ms. Nancy H. Williams
CYGNA Energy Services
2121 N. California Blvd., Suite 390
Walnut Creek, CA 94596

Comanche Peak Steam Electric Station
Units 1 and 2

Asst. Director for Inspec. Programs
Comanche Peak Project Division
U.S. Nuclear Regulatory Commission
P. O. Box 1029
Granbury, Texas 76048

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Lanny A. Sinkin
Christic Institute
1324 North Capitol Street
Washington, D.C. 20002

Ms. Billie Pirner Garde, Esq.
Government Accountability Project
Midwest Office
104 East Wisconsin Avenue
Appleton, Wisconsin 54911

David R. Pigott, Esq.
Orrick, Herrington & Sutcliffe
600 Montgomery Street
San Francisco, California 94111

Anthony Z. Roisman, Esq.
Suite 600
1401 New York Avenue, NW
Washington, D.C. 20005

Robert Jablon
Bonnie S. Blair
Spiegel & McDiarmid
1350 New York Avenue, NW
Washington, D.C. 20005-4798

George A. Parker, Chairman
Public Utility Committee
Senior Citizens Alliance Of
Tarrant County, Inc.
6048 Wonder Drive
Fort Worth, Texas 76133

W. G. Council
Texas Utilities Electric Company

- 2 - Comanche Peak Electric Station
Units 1 and 2

cc:
Joseph F. Fulbright
Fulbright & Jaworski
1301 McKinney Street
Houston, Texas 77010

Roger D. Walker
Manager, Nuclear Licensing
Texas Utilities Electric Company
Skyway Tower
400 North Olive Street, L.B. 81
Dallas, Texas 75201

Mr. Jack Redding
c/o Bethesda Licensing
Texas Utilities Electric Company
3 Metro Center, Suite 610
Bethesda, Maryland 20814

William A. Burchette, Esq.
Counsel for Tex-La Electric Cooperative
of Texas
Heron, Burchette, Ruckert & Rothwell
Suite 700
1025 Thomas Jefferson Street, NW
Washington, D.C. 20007

GUS ASSOCIATES, INC.
Suite 720
1850 Parkway Place
Marietta, Georgia 30067-8237

Administrative Judge Peter Bloch
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Elizabeth B. Johnson
Administrative Judge
Oak Ridge National Laboratory
P. O. Box X, Building 3500
Oak Ridge, Tennessee 37830

Dr. Kenneth A. McCollom
1107 West Knapp
Stillwater, Oklahoma 74075

Dr. Walter H. Jordan
881 West Outer Drive
Oak Ridge, TN 37830

FIRE PROTECTION MEETING AGENDA

I. INTRODUCTION

II. COMPLETE

- U-04
- O-04
- O-08

III. PLAN COMPLETE WORK IN PROGRESS

- O-01
- O-06
- O-07
- O-09

IV. PLANNED ACTIONS

- U-02
- U-03

V. UPCOMING FSAR AMENDMENT

- O-05
- O-02
- U-01
- O-03
- EVALUATIONS

VI. CONCLUSIONS

NRC/TU ELECTRIC MEETING ON FIRE PROTECTION
MARCH 17-18, 1988

ATTENDEES

NRC

D. Kubicki
J. E. Lyons*
M. Malloy
P. F. McKee
A. Singh
J. Wiebe
J. H. Wilson

TU Electric

R. O. Babb
R. C. Howe
R. Layton
O. Lowe
B. K. Riggs
J. D. Seawright
N. L. Terrel
R. D. Walker
D. R. Woodlan

Brookhaven National Laboratory (NRC Contractor)

A. Fresco
H. Thomas

SAIC (NRC Contractor)

T. Storey

Impell (TU Electric Contractor)

C. A. Banning
J. Echternacht
J. H. Wawrzeniak

87-22 OPEN/UNRESOLVED ITEMS

- 9 OPEN ITEMS
- 4 UNRESOLVED ITEMS

EVALUATIONS USED AT CPSES

- POSITION
- UP COMING AMENDMENT OF FSAR

UNRESOLVED ISSUE 445/8722-U-04

ACCUMULATOR ISOLATION VALVES 1-8808A,B,C AND D ARE MANUALLY OPERATED UTILIZING JUMPERS DURING HOT STANDBY.

RESPONSE:

- CPSES PROCEDURE ABN-803A USES MANUAL ACTIONS TO CLOSE THESE VALVES PRIOR TO RHR CUT-IN. JUMPERS ARE NOT USED TO CLOSE THESE VALVES.

SCHEDULE:

- COMPLETE

OPEN ITEM 445/8722-0-04

COMMITMENT TO ENSURE THAT ALL FIRE DOOR MODIFICATIONS
WILL CONFORM TO UNDERWRITERS LABORATORIES GUIDANCE.

RESPONSE:

- UNDERWRITERS LABORATORIES GUIDELINE FOR ATTRIBUTES
HAVE BEEN ADDED TO SPECIFICATIONS.
- FIELD VERIFICATION WILL BE PART OF THE POST
CONSTRUCTION HARDWARE VALIDATION PROGRAM.

SCHEDULE:

- SPECIFICATION UPDATE
- PCHVP AND RECONCILIATION

COMPLETE
SCHEDULES CALL FOR ALL
WALKDOWNS BY AUGUST 1988

..

OPEN ITEM 445/8722-0-08

LACK OF FUSE COORDINATION IN DIESEL GENERATOR
CONTROL CIRCUIT

RESPONSE:

- ADEQUATELY COORDINATED FUSES INSTALLED.

SCHEDULE:

- COMPLETE

OPEN ITEM 445/8722-0-01

THE REACTOR COOLANT PUMP LUBE OIL COLLECTION SYSTEM SEISMIC ANALYSIS HAD NOT BEEN COMPLETED.

RESPONSE:

SEISMIC QUALIFICATION ACTIVITIES

- WESTINGHOUSE INTERNAL TO MOTOR
- SWEC COLLECTION PIPING AND TANK
- IMPELL COLLECTION COWLINGS

SCHEDULE:

ENGINEERING ANALYSIS

- JULY 31, 1988

CONSTRUCTION SCHEDULES CALL FOR MODIFICATIONS BY - OCTOBER 1, 1988

OPEN ITEM 445/8722-0-06

CABLE SPREADING ROOM HALON SUP^PPRESSION SYSTEM
NFPA 12A COMPLIANCE

RESPONSE:

- COMPLETE NFPA 12A CODE COMPLIANCE REVIEW.

SCHEDULE:

- CONSTRUCTION SCHEDULES CALL FOR COMPLETION OF CURRENT MODIFICATIONS BY JULY 15, 1988.
- NFPA 12A CODE COMPLIANCE REVIEW IS SCHEDULED FOR AUGUST 5, 1988.

OPEN ITEM 445/8722-0-07

**INSTRUMENT AIR VALVES ASSOCIATED WITH A COLD SHUTDOWN
REPAIR PROCEDURE WERE POORLY LABELED.**

RESPONSE:

- IDENTIFICATION AID REQUEST HAS BEEN INITIATED
TO PROPERLY LABEL VALVES.

SCHEDULE:

- INSTALLATION

APRIL 29, 1988

OPEN ITEM 445/8722-0-09a

**COMPLETE FIRE SAFE SHUTDOWN ANALYSIS MODIFICATIONS
REQUIRING THERMO-LAG.**

RESPONSE:

- **FIRE SAFE SHUTDOWN ANALYSIS IS REVISED AS REQUIRED
IN SUPPORT OF PLANT MODIFICATIONS.**

SCHEDULE:

- **THERMO-LAG DESIGN REQUIREMENTS**

JUNE 1, 1988

OPEN ITEM 445/8722-0-09b

AMPACITY EFFECTS DUE TO THERMO-LAG HAS NOT BEEN COMPLETED.

RESPONSE:

- **SDAR RESOLUTION**
 - CABLE RESIZING OR REROUTE
 - THERMO-LAG REMOVAL

SCHEDULE:

- | | |
|---|-----------------------|
| ● DCA TO ECE-M1-1700 | COMPLETE |
| ● AMPACITY ANALYSIS CABLE RESIZING | APRIL 29, 1988 |
| ● CONSTRUCTION SCHEDULES CALL FOR COMPLETION OF MODIFICATIONS BY OCTOBER 23, 1988. | |

UNRESOLVED ISSUE 445/8722-U-02

**MANUAL ACTIONS IN THE SAME FIRE AREA AS THE
POSTULATED FIRE**

RESPONSE:

- **PROVIDE TABLE OF MANUAL ACTIONS IN THE SAME
FIRE AREA AS THE POSTULATED FIRE.**

SCHEDULE:

- **REVISION 4 OF THE FIRE SAFE SHUTDOWN ANALYSIS
WILL BE AVAILABLE MAY 1, 1988.**

UNRESOLVED ISSUE 445/8722-U-03

WCAP AND WESTINGHOUSE CALCULATIONS INDICATE CONSIDERING SPURIOUS SAFETY INJECTION PRT RUPTURE MAY PRECEDE MANUAL OPERATOR ACTIONS INSIDE CONTAINMENT

RESPONSE:

- PROVIDE A REVISED CALCULATION THAT DEMONSTRATES
 - PRT DOES NOT RUPTURE
 - WESTINGHOUSE CALCULATION IS CONSERVATIVE.

SCHEDULE:

- CALCULATION IS COMPLETE.

OPEN ITEM 445/8722-0-05

- NEW EMERGENCY LIGHTING REQUIREMENTS RESULTING FROM REVISED FIRE SAFE SHUTDOWN ANALYSIS.
- NRC CONCERNS WITH EMERGENCY LIGHTING ADEQUACY.

RESPONSE:

- REVISION TO IMPELL CALCULATION WILL BE PERFORMED AS REQUIRED BY REVISED FIRE SAFE SHUTDOWN ANALYSIS.
- EMERGENCY LIGHTS ARE USED TO ILLUMINATE MANUAL ACTIONS REQUIRED TO ACHIEVE AND MAINTAIN HOT STANDBY.

SCHEDULE:

- REVISED CALCULATIONS
- FSAR WILL BE CLARIFIED TO REFLECT THAT EMERGENCY LIGHTING IS PROVIDED FOR MANUAL ACTIONS REQUIRED TO ACHIEVE AND MAINTAIN HOT STANDBY.

MAY 27, 1988
AN UP COMING
FSAR AMENDMENT

OPEN ITEM 445/8722-0-02

UNRATED STEEL HATCHES ARE A DEVIATION TO
APPENDIX A TO BTP APCS 9.5-1

RESPONSE:

- THIS EVALUATION WILL BE IDENTIFIED AS A DEVIATION
IN SECTION 9.5.1.6.2 OF THE CPSES FSAR

SCHEDULE:

- THIS CHANGE WILL BE INCLUDED IN AN UP COMING
AMENDMENT OF THE CPSES FSAR.

..

UNRESOLVED ISSUE 445/8722-U-01

ADEQUACY OF JUSTIFICATION TO SUPPORT A TWO HOUR RATING FOR SIX STAIRWELL WALLS.

RESPONSE:

- THIS EVALUATION WILL BE IDENTIFIED AS DEVIATIONS IN SECTION 9-5.1.6.2.

SCHEDULE:

- UP COMING AMENDMENT OF FSAR

OPEN ITEM 445/8722-0-03

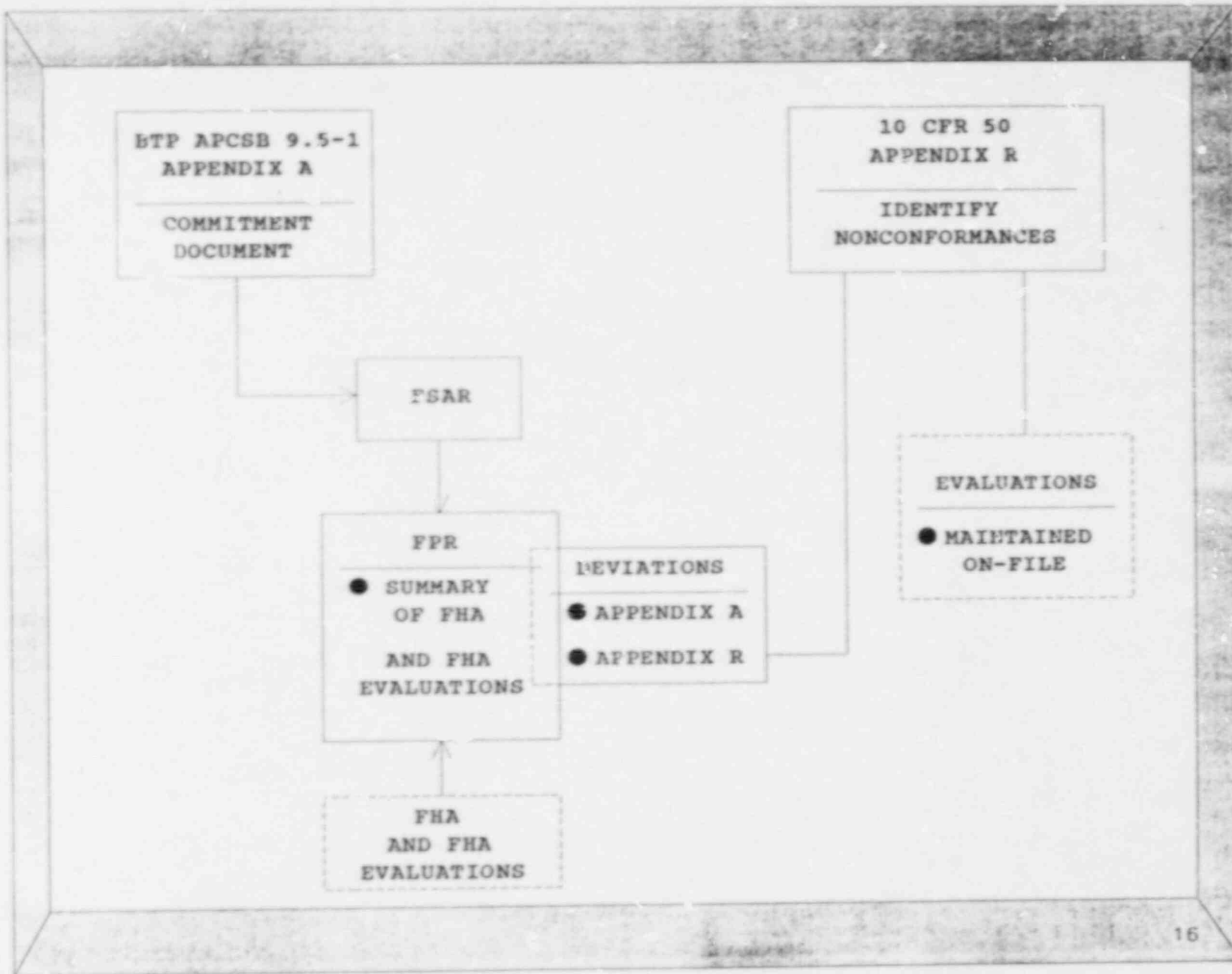
COMMIT TO SEAL CONDUITS FOUR INCHES AND SMALLER ON BOTH SIDES AT THE FIRST OPENING. SEAL INSTALLATION COMPLETION

RESPONSE:

- UNRECOGNIZED COMMITMENT UNDER REVIEW

SCHEDULE:

- RESPONSE APRIL 29, 1988



FSAR EVALUATIONS WHICH DEMONSTRATE
COMPLIANCE WITH APPENDIX A

| SECTION | SUPPRESSION | DETECTION | BARRIER |
|---------|-------------|-----------|---------|
| D.1.a.2 | 38 | 10 | 36 |
| D.1.c | -- | -- | 1 |
| F.3 | 1 | -- | 1 |
| F.11 | 8 | 6 | 2 |

FSAR APPENDIX A DEVIATIONS

- 1. METAL HATCH COVERS IN AN UNTESTED CONFIGURATION**
- 2. DOOR/DAMPER CONFIGURATIONS OUTSIDE FIRE BARRIER**
- 3. BUS DUCT PENETRATION IN AN UNTESTED CONFIGURATION**
- 4. FLEXIBLE CONDUIT PENETRATIONS IN AN UNTESTED CONFIGURATION**
- 5. GYPSUM BOARD WALLS IN AN UNTESTED CONFIGURATION**

EVALUATION VERSES DEVIATIONS PRELIMINARY REVIEW

| <u>Today</u> | | | <u>1984</u> | |
|--------------------|-------------------|-------------|--------------------|-------------------|
| <u>Evaluations</u> | <u>Deviations</u> | | <u>Evaluations</u> | <u>Deviations</u> |
| 36 | 10 | Suppression | 31 | 31* |
| 78 | 0 ⁽¹⁾ | Detection | 0 ⁽⁴⁾ | 0 |
| 82 ⁽²⁾ | 24 ⁽³⁾ | Barriers | 39 | 39 ⁽⁵⁾ |
| <hr/> | <hr/> | | <hr/> | <hr/> |
| 196 | 34 | Total | 70 | 70 |

Notes:

- (1) 34 Design Modifications Being Implemented
- (2) Engineering Evaluations Justifying the Acceptability of the 24 Deviations is Included Within These Numbers
- (3) Includes Five 20 Foot Separation Deviations and 5 Proposed Additional Deviations
- (4) Evaluation to Code 72E Not Required
- (5) Included Four 20 Foot Separation Deviation and 18 Fire Damper Deviation

PRELIMINARY INFORMATION

| BUILDING/ ELEVATION | FIRE AREA/ FIRE ZONE | ROOM NUMBER | III.G.2.b III.G.2.c III.G.3 CONCERN | CASE CLASSIFICATION | 1984 DEVIATIONS |
|------------------------|-------------------------|----------------|--|------------------------|--------------------|
| Auxiliary 790'-6" | AA21a | 174 | III.G.2.b & c | 4 | 13a-1 |
| | | 175 | III.G.2.b & c | 3 | 13 |
| | | 179 | III.G.2.c | 3 | 13 |
| | | 180 | III.G.2.c | 3 | 13 |
| Auxiliary 810'-6" | AA21b | 203 | III.G.2.b | 3 | 13a-2 |
| | | 207 | III.G.2.b & c | 3 | 13a-2 |
| Auxiliary 810'-6" | AA27 | 198 | III.G.2.b | 4 | 13a |
| Auxiliary 822'-6" | AA21c | 209 | III.G.2.c | 4 | 2g-1 |
| Auxiliary 831'-6" | AA21d | 214 | III.G.2.c | 3 | 13a-3 |
| | | 226 | III.G.2.c | 3 | 13a-3 |
| Auxiliary 852'-6" | AA21f | 241 | III.G.2.b & c | 3 | 13a-4 2g |
| E & C 792'-0" | EA57 | 125 | III.G.2.c | 3 | 136 |
| | EC50 | 118 | III.G.2.c | 4 | 2r |
| | E 11 | 119 | III.G.2.c | 4 | 2m |
| | EH52 | 120 | III.G.2.c | 4 | 2m |
| | EH53 | 121 | III.G.2.c | 4 | 2m |
| E & C 830'-0" | E065 | 135 | III.G.3 | 4 | IVa |
| E & C 854'-4" | EA73 | 150 | III.G.2.c | 4 | 2L |
| | EA74 | 150a | III.G.2.c | 4 | IVb |
| Safeguards 790'-6" | SA1c | 63 | III.G.2.c | 3 | 2b |
| 810'-6" | SA142 | 77N | III.G.2.c | 4 | 2i-1 |
| 773'-0" & 790'-6" | SB4 | 64 | III.G.2.c | 3 | 13d |
| | | 71 | III.G.2.c | 3 | 2g |

PRELIMINARY INFORMATION

| BUILDING/ ELEVATION | FIRE AREA/ FIRE ZONE | ROOM NUMBER | III.G.2.b III.G.2.c III.G.3 CONCERN | CASE CLASSIFICATION | 1984 DEVIATIONS |
|------------------------|-------------------------|----------------|--|------------------------|--------------------|
| Safeguards 790' -6" | SB4 SB2c | 70 | III.G.2.c | 3 | 2j |
| | | 65 | III.G.2.c | 4 | 2f |
| | | 67 | III.G.2.c | 4 | 13d |
| 810' -6" | SB8 | 79 | III.G.2.c | 3 | 13d-1 |
| | | 82 | III.G.2.c | 3 | 13d-1 |
| 810' -6" | SB143 | 77s | III.G.2.c | 3 | 2i |
| 831' -6" & 841' -6" | SB15 | 94 | III.G.2.c | 3 | 13d-1 |
| | | 95 | III.G.2.c | 3 | 13d |
| 831' -6" | SB144 | 88 | III.G.2.c | 3 | 13d |
| 810' -6" | SD9 | 83 | III.G.2.c | 3 | 2b |
| 831' -6" | SE16 | 96 | III.G.2.c | 4 | 2d |
| 852' -6" | SE18 | 103 | III.G.2.c | 4 | 2c |
| Safeguards | SE18 | 104 | | 4 | 2c |

PRELIMINARY INFORMATION

DETECTION EVALUATIONS USED TO JUSTIFY CODE COMPLIANCE

| Code Section | Fire Area/Zone | Room No. |
|--------------|----------------|-----------|
| 2-6.5 | AA21a | 168 |
| 2-6.5 | AA21a | 169 |
| 2-6.5 | AA21a | 170 |
| 2-6.5 | AA21a | 171 |
| 2-6.5 | AA21a | 172 |
| 2-6.5 | AA21a | 173 |
| 2-6.5 | AA21a | 182 |
| 2-6.5 | AA21b | 191 |
| 2-6.5 | AA21b | 192 |
| 2-6.5 | AA21d | 211 |
| 2-6.5 | AA21d | 213 |
| 2-6.5 | AA21d | 217 |
| 2-6.5 | AA21f | 238 |
| 2-6.5 | AA21f | 240 |
| 2-6.5 | AA21f | 242 |
| 2-6.5 | AA22 | 207A, 181 |
| 2-6.5 | AA34 | 220 |
| 2-6.5 | AA35 | 221 |
| 2-6.5 | AA36 | 222 |
| 2-6.5 | AA37 | 224 |
| 2-6.5 | AA98 | 254 |
| 2-6.5 | AA98 | 269 |
| 2-6.5 | AA99b | 271A |
| 2-6.5 | AA99b | 271b |
| 2-6.5 | AA100 | 271 |
| 2-6.5 | SA1a | 57 |
| 2-6.5 | SA1a | 58 |
| 2-6.5 | SA1a | 61 |
| 2-6.5 | SB2e | 81 |
| 2-6.5 | SB2f | 86 |
| 2-6.5 | SB2f | 87 |
| 4-3.5.1 | AA21b | 202 |
| 4-3.5.1 | AA21c | 208 |
| 4-3.5.1 | AA21c | 209 |
| 4-3.5.1 | AA21d | 210 |
| 4-3.5.1 | SB2a | 563 |
| 4-3.7.3 | AA21a | 162 |
| 4-3.7.3 | AA21f | 235 |
| 4-3.7.3 | AA99b | 247 |
| 4-3.7.3 | AA99d | 270 |
| 4-3.7.3 | EA54 | 122 |
| 4-3.7.3 | EA57 | 125 |
| 4-3.7.3 | WB104b | 275 |
| 4-3.7.3 | SA142 | 77N |

TOTAL 44

PRELIMINARY INFORMATION

BARRIER EVALUATIONS

| <u>Subject</u> | <u>1987</u> | <u>1984</u> |
|--|-----------------------------|-------------|
| Serv. Water Pumps 20' Sep. | 1a | 1a |
| Chiller Units 20' Sep. | 1b | 1b |
| Boric Acid Pumps | (FSSA Eval.) | 1c |
| Boric Acid Sky Tanks | (FSSA Eval.) | 2e |
| Concrete Block Wall | 3a | 3a |
| Concrete Block Wall | 3a-1 | 3a-1 |
| Cont. Pen. Seals | 3b | 3b |
| Miss. Res. Doors | 3c | 3c |
| Cont. Rm. Missile Resis. Doors | 3c-1 | 3c-1 |
| Watertight Doors | 3d | 3d |
| Containment Airlock | 3e | 3e |
| Cont. Mech. Pen. Seals | 3g | 3g |
| Cable Spreading Rm. Barrier | 3h | 3h |
| PRV 20' Separation | 4a | 4a |
| Cont. RHR Valves 20' Sep. | 4a-1 | 4a-1 |
| 20' Separation | (FSSA Eval.) | 8a-1 |
| 20' Separation | 8b | 8b |
| 20' Sep. SK MSIV's | Deleted | 8c |
| HVAC Damper Penetrations | By Upgrade | 11a |
| HVAC Damper Penetrations | By Upgrade | 11b |
| HVAC Damper Penetrations | By Upgrade | 11c |
| HVAC Damper Penetrations | By Upgrade | 11d |
| HVAC Damper Penetrations | By Upgrade | 11e |
| HVAC Damper Penetrations | By Upgrade | 12a |
| HVAC Damper Penetrations | By Upgrade | 12b |
| HVAC Damper Penetrations | Ry Upgrade | 12c |
| HVAC Damper Penetrations | By Upgrade | 12d |
| HVAC Damper Penetrations | By Upgrade | 12e |
| HVAC Damper Penetrations | By Upgrade | 12f |
| HVAC Damper Penetrations | By Upgrade | 12g |
| HVAC Damper Penetrations | By Upgrade | 12h |
| HVAC Damper Penetrations | By Upgrade | 12i |
| HVAC Damper Penetrations | BY Upgrade | 12j |
| HVAC Damper Penetrations | By Upgrade | 12k |
| HVAC Damper Penetrations | By Upgrade | 12l |
| HVAC Damper Penetrations | BY Upgrade | 12m |
| 2 Hour Rated Penetrations Seals | 14 | 14 |
| Bus Duct Penetrations | FSAR 9-5.1.6.2 | |
| | NRF #63, 64, 65, 66, 67, 68 | |
| Dampers & Doors with Frame Outside Banners | FSAR 9-5.1.6.2 | |
| | NRF #41, 86 | |
| Flexible Conduit Penetration | FSAR 9-5.1.6.2 | |
| | NRF #39, 40 | |
| Metal Hatches with Protective Coating | FSAR 9-5.1.6.2 | |
| | NRF #35, 36, 37, 38 | |
| Gypsum Board Walls | FSAR 9-5.1.6.2 | |
| | NRF # 74, 75 | |