

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

DOCKETED  
USNRC

'84 OCT 22 P12:16

In the Matter of	)	
	)	
TEXAS UTILITIES ELECTRIC	)	Docket Nos. 50-445-2 and
COMPANY, <u>et al.</u>	)	50-446-2
	)	
(Comanche Peak Steam Electric	)	(Application for
Station, Units 1 and 2)	)	Operating Licenses)

MOTION FOR LEAVE TO FILE OUT OF TIME

Oliver B. Cannon & Son, Inc., by its attorneys, Isham, Lincoln & Beale, moves the Atomic Safety and Licensing Board for leave to file the enclosed documents out of time. In support of this motion, movant states as follows:

1. The enclosed documents are being produced pursuant to the subpoenas issued to movant in this proceeding. Under the terms of the subpoenas, the documents were to have been produced by October 18, 1984.

2. In complying with these subpoenas, counsel for movant was obliged to examine a large number of documents to determine whether the assertion of privilege was appropriate with respect to any of them. Mr. Lipinsky's diary notes took some time to review for this purpose and counsel was unable to complete this task in time to produce them on October 18.

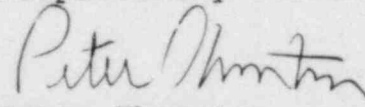
3. The other three documents enclosed were inadvertently omitted from the materials produced on October 18. These consist of a desk memo of Robert B. Roth dated

December 14, 1983, a memorandum of Ralph A. Trallo dated October 8, 1982 attaching a Three Mile Island Damage Report, and a May 23, 1984 letter from Richard L. Bangart attaching a Region IV Interim Report on Protective Coatings prepared by Brookhaven National Laboratory.

4. The delay of less than 24 hours in the filing of these documents caused by the circumstances described above should not prejudice any party.

WHEREFORE, for the reasons shown, movant requests that it be given leave to file the enclosed documents out of time.

Respectfully submitted,



Peter Thornton

Counsel to Oliver B. Cannon  
& Son, Inc.

ISHAM, LINCOLN & BEALE  
1120 Connecticut Avenue, N.W.  
Suite 840  
Washington, D.C. 20036  
(202) 833-9730

Dated: October 19, 1984

DOCKETED  
USNRC

November  
Wednesday

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October

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- \* ARRIVE @ CP (H3201) SITE w/MKM AND MET w/J. MERRITT
- PROVIDED COPY OF PROPOSED AUDIT PLAN
- J. MERRITT (JM) WANTED TO KNOW WHERE JLN WAS → T. CONN. RAT TO DETERMINE WHERE JLN WAS
- J. MERRITT INFORMED MKM & JLL TO RETURN TO HOTEL AND NOT RETURN w/O JLN (NO ACTION OBC PART w/O DEFINED AUDIT SCOPE AND PLAN)
- \* T. CONN. w/RAT - MKM & JLL TO STAY IN HOTEL
- \* T. CONN. w/JLN - WANTED JLL TO COME TO SITE (DID NOT INFORM JLL OF 1300 HR CST MTG. TO GO OVER TRIP REPORT) - JLL INFORMED JLN TO CONTACT RAT
- \* T. CONN. w/RAT - INFORMED JLL OF TENTATIVE 1300 HR. MTG. (POSTPONED UNTIL 11/10 - RAT INFORMED JLL THAT JLL "CAN'T REALLY REFUSE TO DISCUSS TRIP REPORT")
- \* PICK-UP RAT AT JFW w/MKM
- \* UPDATE RAT ON STATUS & IMPRESSIONS
- \* T. CONN. w/H.B. GRIFFIN (NRC) SET UP MTG. FOR 1215 HRS ON 11/10/13

January 1984

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November

Thursday

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\* MTG. ON SITE - SEE TAPES / TRANSCRIPT

\* MISC. MTG./DISCUSSIONS W/ JLL, RAT, MKM  
ON STATUS AND OPTIONS AVAILABLE TO ORC

\* MTG. W/ H.B. GRIFFIN (NRC) (≈ 20-30 MINUTES  
LATE DUE TO JLL)

- MAINLY DISCUSSED CONFIDENTIALITY  
ISSUE - JLL VIOLATED TERMS OF  
CONFIDENTIALITY (NRC TERMS) BY TALKING  
W/ RER - JLL POINTED OUT THAT UNTIL  
THAT MOMENT JLL WAS NOT AWARE OF  
THOSE TERMS - H.B. GRIFFIN TO GET NRC  
RULING

- HBG ALSO TO GET OPINION ON JLL  
JOB STATUS RELATIVE TO TRIP REPORT

- JLL WENT OVER D.D. DRISKILL (NRC)

MEMO ON 10/14/83 TELEPHONIC INTERVIEW

- JLL POINTED OUT MINOR INACCURACIES

- JLL TO CALL HBG BACK ON 11/14/83

- HBG ASSURED JLL THAT NRC WILL NOT  
ATTEMPT TO FIND OUT HOW JLL TRIP  
REPORT SURFACED - HBG STATED THAT THE  
NRC IS ONLY CONCERNED W/ THE  
TECHNICAL CONTENT OF THE JLL TRIP REPORT



November

October

November 1983

December

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\* WRAP UP MTG. ON CP (HJ301) SITE  
(SEE TAPE/ TRANSCRIPT) - ADVISED  
R. TOLSON THAT TRIP REPORT NOT AN  
\* DRAFT TRIP REPORT, GIVE SAME TO RAT

\* EVE (X 1800 HRS EST) MEET BRIEFLY W/  
RAT & RBR - RBR OPENED FED. EXP.  
PACKAGE SENT TO JIL BY J. ELLIS (CASE)  
- RBR REVIEWED CONTENTS AND GAVE  
PACKAGE TO RAT FOR REVIEW & COMMENT  
(JIL TO GET ON MONDAY 11/14/83)

ALSO BRIEFLY DISCUSSED IF & HOW RBR  
WOULD EXPLAIN TO TUGCO WHY THERE  
IS MORE THAN ONE VERSION OF JIL  
TRIP REPORT

\* ATTEMPT TO MALIGN

Veterans Day

January 1984

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November

Sat. / Sun.

12/13

\* MISC. T.CONN. w/ VARIOUS REPORTERS in  
DALLAS / FORT WORTH AREA REFERED  
ALL CALLS TO APM

\* T.CONN. w/ JJN - UPDATE JJN on  
CURRENT STATUS (CASE, REPORTERS ETC) -  
VOICE CONCERN ON REL ACTIONS on TRIP  
REPORT - ASK STATUS on TAPES &  
TRANSCRIPT - JJN TO PROVIDE QUESTIONS  
ASKED BY CASE

November

October

November 1983

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- \* T. CONN. W/ J. ELLIS (CASE) SEE SUMMARY OF CONVERSATION
- \* T. CONN. W/ H. B. GRIFFIN (NRC) WAIVER OF CONFIDENTIALITY (NRC OFFERED TO EXTEND CONFIDENTIALITY - BUT PROBABLY A MPUT ISSUE)
- \* DRAFT WAIVER HAVE RBR REVIEW & APPROVE SAME (RBR CHANGED FIRST SENTENCE SECOND PARAGRAPH)
- \* RBR WENT OVER CHRONOLOGICALLY (SP?) HOW CHANGED COPY OF TRIP REPORT WAS SENT TO J. MERRITT (TUGCO) - WANTED JIL TO PENCIL SAME - ALSO EXPECTED JIL TO SIGN CHANGED REPORT
- \* T. CONN W/ J. J. DRISKILL & H. B. GRIFFIN (NRC)
  - JIL WENT OVER WAIVER & DDD/HBG SAID WAIVER WAS OK
  - APOLOGIZED (SP?) FOR CURRENT SITUATION (THOUGH NOT BROUGHT ON BY NRC)
  - SUGGESTED JIL START LOG OR DIARY ON CP (H8301) STATUS WITH RELATION TO JIL EMPLOYMENT SITUATION - CBC MAY NOT FIRE FOR CP (H8301) INCIDENT BUT LOG MAY OR MAY NOT SUBSTAN. ANY CLAIMS - ADVISED JIL THAT HAVE 30 DAYS FROM TERMINATION TO FILE AND JIL CONTACT DDD OR HBG IF FIRED
- \* HAVE D. ELLMAN NOTARIZE WAIVER
- \* ADVISE RBR THAT JIL WILL NOT PERJURE HIMSELF (JIL) TO SUPPORT HOW TWO TRIP REPORTS EXIST - RBR SAID JIL SHOULD NOT COMMIT PERJURY

CONTINUED ON PRECEDING PAGE DATED NOV 12/13

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November

Tuesday

15

- \* START DIARY LOG - GO BACK TO 11/9/83
- \* RBR CALLED JIL IN RBR OFFICE FIRST THING THIS MORNING (2:00 PM EST) AND WENT THROUGH WHAT RBR TOLD J. MERRITT
  - INTEREST BY PRESS, APM HANDLING, NO COMMENT DUE TO PENDING LITIGATION
  - WENT THROUGH CHRONOLOGICAL (LPI) SEQUENCE OF TRIP REPORTS AS DEVELOPED BY RBR TO EXPLAIN WHY TWO DIFFERENT TRIP REPORTS EXIST (RBR DID NOT MENTION THAT RBR WANTED JIL TO SIGN THE CHANGED REPORT)
  - TOLD J. MERRITT THAT THE WRONG REPORT (VERSION) WAS TAKEN
- \* T. CONN. W/ RAT (305828444) ADVISE RAT OF CURRENT STATUS & RBR COMMENTS ALSO THAT JIL WILL NOT PERJURE ON TRIP REPORT; RAT SAID WORK ON 3318 AFTER JIL GETS SETTLED DOWN
- \* T. CONN. W/ JIN RE: GO OVER RBR COMMENTS & FACT THAT JIL WILL NOT COMMIT PERJURY IN TRIP REPORT
- \* T. CONN. W/ J. ELLIS (CASE), READ ARTICLE FROM JALLAC TIME HERALD - JIL POINTED OUT THAT JIL TALKED TO T. MILLER NO MORE OR LESS THAN OTHER INSPECTORS - SEE SUMMARY
- \* T. CONN. W/ P. MCGEE RE: PM SUGGESTED THAT JIL CALL NRC AND TELL ABOUT RBR & CHANGED TRIP REPORT
- \* SEND WAIVER TO NRC - CERTIFIED MAIL PH40 700 072
- \* MISS. CONN. W/ JIL RE: COPY OF NEWSPAPER ARTICLE TELECOPIED W/ TO PHILA. OFFICE; NOT SENDING INFO. SUPPLIED BY TUGCO BECAUSE ORC PHILA. ALREADY KNEW; WANT TO GET TOGETHER ON RESPONSES BEFORE TESTIMONY USING D. CHAPMAN MEMO AS BASE (JIL IS JIN RESPONSE); CUT OFF BECAUSE JIN HAD T. VERGAN (TUGCO REP) ON PHONE
- \* NEWSPAPER ARTICLE TELECOPIED TO ORC PHILA, E. SHIFFER MADE OFFICE GAVE TO MS. S.L. - APM LET JIL READ THE ARTICLE IN APM OFFICE (COPY OF TOO POOR A QUALITY TO REPRODUCE)
- \* T. CONN. W/ RAT ADVISED RAT ON NEWSPAPER COVERAGE ALSO INFORMED RAT ON JIL PERSONAL OPINION THAT ORC IS SPENDING TOO MUCH TIME DEFENDING THE TRIP REPORT - SHOULD GIVE FACTUAL ACCOUNT AND LET THE OTHERS CALL WHAT THEY WANT

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November

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November 1983

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\* T. CONN. W/ RAT (CONTINUED FROM 11/15)

RAT AGREED W/ JLL THAT JLL SHOULD NOT ALLOW TUGCO TO LIAISE JLL

\* T. CONN. W/ JLN

- TUGCO PR MAN SAID NOT GOOD TO STONEWALL; SHORT HALF LIFE BUT IF REOCCURS MAY WANT JLL TO TALK W/ REPORTERS - JLL POINTED OUT TO JLN THAT APM/RRR HANDLING PRESS & JLL DOING WHAT RRR DIRECTS W/ REGARD TO PRESS
- JLN TRIED TO QUESTION JLL ON HOW REPORT WAS LEAKED - JLL INDICATED THAT JLL KNEW BASED ON D.D. WRC MEMO BUT WOULD NOT DISCUSS AT ALL DUE TO CONFIDENTIALITY ISSUE
- JLN ASKED IF JLL READ NEWSPAPER ARTICLE THAT WAS REPRODUCED TO OBC PHILA. OFFICE - JLL SAID YES BUT NOT GIVEN A COPY & THEREFORE NOT FAMILIAR W/ ARTICLE - JLN ASKED JLL WHY JLL DID NOT RECEIVE A COPY TO WHICH JLL RESPONDED THAT JLL DID NOT KNOW
- JLN SAID THAT HE WOULD SEND COPY TO JLL HOME ADDRESS

\* EVE TRY TO GET LINEOUT OF TOWN <sup>ON</sup> (DALLAS / FORT WORTH) NEWSPAPERS  
END OF 11/15/83 ENTRY

\* @ 1050 HW (EST) 11/16/83 T. CONN. W/ JLN

- JLL MADE HOUSTON POST. JLN SAID THAT TUGCO PR REP. SAID THAT THIS USUALLY CLOWS OVER IN @ 12 HOURS.

CONTINUED ON NEXT PAGE UNDER 11/17/83

January 1984

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Thursday

17

\* T. CONN. W/ JLN CONT'D FROM  
PREVIOUS PAGE

- JLN SAID OBC MAY BE AT RISK (TUGCO FEELS THAT JLN LEARNED COPY OF TRIP REPORT - JLN EXPLAINED TO JLN THAT JLN LET E. MOUSER READ REPORT AND JLN GAVE E. MOUSER A COPY OF PROCEDURE [JLN REQ'D RER APPROVAL PRIOR TO GIVING COPY OF PROCEDURE] BUT CANNOT REMEMBER IF E. MOUSER GIVEN A COPY OF TRIP REPORT - OTHER THAN THAT JLN CERTAIN THAT NOBODY BUT JLN OR RBR REQ'D COPY OF REPORT FROM JLN)
- JLN SAID THAT THE NRC REPORT (D. DRISKILL MEMO) WILL VINDICATE OBC (JLN DID NOT GIVE ANY OTHER DETAIL OR INFO. ON D. DRISKILL MEMO)

\* ≈ 1545 HRS (EST) 11/10/83 CONN W/ RBR  
RBR TOLD JLN (WHEN JLN WAS PICKING UP BLUE THESE RING BINDER ON CP ITEMS MAINTAINED BY RBR) THAT ALL THAT REMAINS IS TO HAVE JLN SIGN THE CHANGED (BY RBR) AND THIS WOULD BE FINAL DRAFT - JLN REPLIED YES SIR & LEFT - JLN DID NOT SIGN THE CHANGED TRIP REPORT  
END OF 11/10/83 ENTRY

11/11 ≈ 0720 HRS (EST) T. CONN. W/ RAT - JLN INFORMED RAT

- JLN CONCERN ON OBC RISK W/ TUGCO
- RBR DEMAND FOR JLN TO SIGN CHANGE TRIP REPORT (GAVE LAWYER'S OPINION THAT JLN SHOULD NOT SIGN)
- RAT SAID HE COULDN'T TELL JLN WHAT TO DO BUT RAT WOULD NOT SIGN A CHANGED REPORT
- JLN EXPRESSED CONCERN THAT THE MORE JLN/RBR TALK TO THE UTILITY OR TRY TO COVER UP THE DEEPER OBC GETS - OBC COULD HAVE SERIOUS PROBLEMS IF FEDERAL AGENCIES PERCEIVE OBC COMMITTING FRAUD

RAT AGREED

\* ≈ 0820 HRS (EST) 11/17/83 KING CONN. (K. SUMNER) W/ RBR

- RBR DISMISSED POSSIBLY CHANGING NEWSPAPERS IN AN EFFORT TO SETTLE DUST - JLN ADVISED AGAINST NOT IN RETROSPECT SAID IT PROBABLY WOULD HAVE BEEN BETTER IF JLN TRIED TO PRESS INITIALLY AND EXPLAIN AND/OR INTERPRET TRIP REPORT

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November

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October

November 1983

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11/17/83 ENTRY CONTINUED FROM PREVIOUS PAGE

- JIL POINTED OUT THAT JIL HAS PROBLEM IN SIGNING A CHANGED TRIP REPORT (MAY BE THOUGHT IF AS FRAUD)
- RBR BECAME FLUSH AND SAID THIS WAS NOT FRAUD BUT FINAL COPY OF MEMO/TRIP REPORT AND JIL WAS TO SIGN THE CHANGED TRIP REPORT AND PLACE A COPY IN THE BLUE THREE RING BINDER TODAY - JIL SAID YES SIR BUT DID NOT SIGN THE CHANGED TRIP REPORT
- JIL DRAFTED A MEMO FROM RBR FOR RBR SIGNATURE (TELLING JIL TO SIGN CHANGED TRIP REPORT) IF RBR FORCES JIL TO SIGN THE CHANGED TRIP REPORT
- JIL DISCUSSED W/ RBR WHO RELATED TRIP REPORT (NO NAMES - NOT SPECIFIC) BUT JIL WAS CONCERNED THAT NRC NOT THINK THAT JIL RELEASED INFO. FROM DRISKILL <sup>MEMO</sup> SECOND HAND INFO. INDICATES THAT INDIVIDUAL IN DRISKILL MEMO DISTRIBUTING JIL REPORT IN BAY CITY
- RBR CONCERNED THAT IF NRC WANTS REWORK THEN UTILITY WILL GO AFTER OBC - JIL POINTED OUT REPORT DIDN'T CAUSE POOR WORK & NRC SHOULD CLEAR JIL (THAT IS NRC INVESTIGATION SHOULD UNFIRM CONCERNS)
- RBR ASKED WHAT WOULD JIL SAY UNDER CROSS EXAMIN. ABOUT HOW TUGBO EXPLAINED AWAY CONCERNS - JIL SAID IF UTILITY DOING WHAT THEY CLAIM AND JIL COULD NOT PROVE ONE WAY OR THE OTHER THEN CONCERNS WOULD BE MITIGATED - BOTH RBR & JIL FELT UTILITY SHOULD HAVE PERMITTED JIL/MEM ADIT TO PUT MATTER TO BED - JIL INDICATED THAT BASED ON IMPRESSIONS BOTH JIL AND MEM FELT THAT AN ADIT WOULD/MIGHT CONFIRM JIL CONCERNS - RBR ASKED HOW LONG FOR AN ADIT & JIL REPLIED 4-5 WEEKS. RBR WANTED TO KNOW HOW JIL COULD MAKE STATEMENTS IN REPORT AFTER 3 DAYS BUT NEED 4-5 WEEKS FOR DETAILED REVIEW. JIL REPLIED FOR A GOOD OBJECTIVE ADIT THATS HOW LONG IT WOULD TAKE.

\* T. CONN. W/ JIL (= HIS HRS EST 11/17) TRANSCRIPTS NOT REC'D YET  
 \* CONN. W/ MEM (= HIS HRS EST 11/17) WOULD QUIT BEFORE GOING BACK TO DO ADIT @ CP (H. 120) - BELMONT AGED ALL THE HURLES THAT JIL EXPOSED TO FROM TRIP REPORT

2100  
11/17/83

CONN. W/ RBR RECAP OF GO OVER W/ RBR HIGH POINT OF CONN. W/ RBR 4:00 PM  
 CONTINUED ON NEXT PAGE UNDER 11/17/83

January 1984

February

March

November

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Sat. / Sun.

19/20

11/18/83 ENTRY CONTINUED FROM PREVIOUS PAGE

11/18/83 EST 11/18/83 COMM. W/ APM - JIN CALLED  
 APM AT HOME & ADVISED THAT COPY OF JIL REPORT  
 IN POSSESSION OF M. UDALL (JF?) + JIL SHOULD TALK W/ JIN RE MERRY

11/18/83 EST 11/18/83 T. GENA. W/ RER  
 - ASKED JIL IF JIL HAD FINISHED GOING THROUGH THE TRANSCRIPTS  
 JIL REPLIED NO, ONLY ON PG #2 & FOUND MISTAKES WHEN  
 COMPARED TO TAPES - RER STATED JIN TALKED TO MERRITT  
 AND JIL & JIN 1. GO TO WASHINGTON (ASSUMING D.C.) NEXT TUESDAY  
 (11/22/83) TO GO OVER MEMO W/ TWO WASHINGTON BASED ATTORNEYS  
 11/18/83 EST 11/18/83 COMM. W/ RAT - TRIP OFF, RER TO CALL  
 MERRITT AND EXPLAIN THAT AT THIS TIME A MTG. IS NOT APPROPRIATE

11/19 & 20/83 SPEND ~ SEVEN (7) HOURS ON GOING  
 OVER TAPES AND TRANSCRIPTS



November

October

November 1983

December

Monday

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~ 0845 HRS (EST) 11/21/83 PROVIDE RAT MARKED  
UP COPY OF TRANSCRIPT & EXPLAIN THAT THERE ARE  
A LOT OF CHANGES/MISTAKES/ADDITIONS; ALSO ADVISE RAT  
THAT WE (RR & RAT) SHOULD GO OVER ADVANTAGES/DISADVANTAGES  
ON TESTIFYING AS A CASE OR BOARD WITNESS

~ 0905 HRS (EST) 11/21/83 RR LEFT MESSAGE W/ CEF  
TALK OF JLL & JLN GOING TO WASH. THIS WEEK - PLANS NEGATED  
HELP J.R.R. ON TRANSCRIPT AS NEEDED - HAVE CEF  
REVISIT ON TRANSCRIPT AFTER LUNCH

MESSAGE FROM J.M. (IN HOUSTON) ~ 1205 HRS EST 11/21/83  
JLN ON WAY TO AIRPORT TO WASH. DC. TO TUGED ATTORNEY  
→ JLL ASKED RAT WHATS UP & RAT SAID THAT MTG.  
WAS TO HAVE BEEN CANCELED

~ 1315 HRS (EST) 11/21/83 COMM. W/ RR & RAT - JLL TO MEET  
JLN AT DEBEVON & LEIDERMAN 1200 17TH ST WASHINGTON DC  
AT 0930 HRS ON 11/22/83 TO SEE NICK REYNOLDS - RR, RAT, & JLL  
TO GET TOGETHER AFTER STAFF ON 11/21/83

~ 1330 HRS (EST) 11/21/83 COMM. W/ RAT RE: RAT WOULD NOT  
SIGN THE CHARGED TRIP REPORT W/O MORE INFO.; PURPOSE OF  
MTG. W/ TUGED ATTORNEY - NOT SURE; JLL FEELS THAT JLN  
ACTIVITIES MAY BE COUNTER PRODUCTIVE - RAT AGREED; JLL  
ALSO ADVISED RAT THAT PRETTY MUCH EVERYONE WAS AWARE  
(IN 1982) OF C.P. VIOLATION

WRITE LETTER TO L.A. IN RESPONSE TO ARTICLES &  
INFO. LA. SENT JLL

~ 1630 HRS (EST) 11/21/83 MTG. W/ RR & RAT RE:  
PURPOSE OF MTG. ON 11/22/83 W/ ATTORNEY  
RR STATED THAT 1/2 TO 2/3 OF TIME WOULD BE BRINGING  
ATTORNEY UP TO SPEED ALSO RR WANT OVER JLL RESPONSE IF  
ASKED ABOUT RELEASING TRIP REPORT TO E. MOUSER (JLL  
EXPANDED THAT JLL DID NOT RECALL - DOESN'T BELIEVE  
E. MOUSER PROVIDED W/COPY BUT E. MOUSER WOULD HAVE  
BEEN ONLY INDIVIDUAL) RR INSTRUCTED JLL TO SAY "NO"  
AND DON'T ELABORATE OR EXPLAIN ABOUT E. MOUSER  
MTG ENDED ~ 1730 HRS.

January 1984

February

March

November

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Tuesday

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~ 0620 HRS - 0930 HRS (EST) 11/22/83  
TRAVEL TO TUGCO ATTORNEYS' OFFICE  
FROM PHILA.

~ 0930 HRS TO ~ 1710 HRS (EST) 11/22/83 MTG. (WORK THROUGH  
LUNCH) NICK S. REYNOLDS (LIC. ATTORNEY), BILL HORN (LIC. ATTORNEY)  
RICK WALKER (LABOR ATTORNEY) DAVID CHAPMAN (TUGCO QAMSG)  
(RICK WALKER & BILL HORN LEFT MTG ~ 1415 HRS & CHAPMAN  
LEFT MTG ~ 1630 HRS ALSO NSR JEC. CAME IN ~ 1430 HRS)  
TALKED ABOUT EVERYTHING THAT LED UP TO OCE GOING TO  
CPLHES01 SITE WHO JL TALKED WITH ALSO WHAT WAS SAID,  
IF JL OFFERED PERSONNEL JES - NO TALKED ABOUT POSSIBILITY  
THOUGH; JL TRIP RIGHT; JL MTG & CONSULT. W/ NSR; JL  
CONS. W/ JELIN; JL BACKGROUND; MISC. ITEMS AS WELL AS  
OTHER PERTINENT (if?) ITEMS

~ 1715 HRS TO ~ 2120 HRS TRAVEL FROM TUGCO ATTORNEYS OFFICE  
TO PHILA.

~ 2130 HRS. T. CONS. W/ RAT @ RAT HOME

- ① ATTORNEY WANTS JL & JIN TO GO & TESTIFY AS A TEAM
  - ② JL POINTED OUT THAT OCE WANTED TO GO TO COAST WITNESS  
- NSR ASKED IF OCE WOULD GO AS FORCE WITNESS  
JL SAID UP TO OCE JIN YES NO PROBLEM
  - ③ POSSIBILITY OF EMPOWER RECEIVING REPORT - NOT JUST  
YES OR NO AS PER NSR - JL EXPLAINED
  - ④ JL ASKED ATTORNEY (NSR) WHOSE SIDE THEY REPRESENTED  
INDICATIONS ARE THAT OCE IS NOT GETTING ALL INFO
  - ⑤ JIN AND MAYBE ATTORNEY WANT JL TO PERFORM AUDIT  
- THIS FACTOR ALSO MKN RELUCTANCE
  - ⑥ APPARENTLY JIN RESPONDED TO CHAPMAN MEMO IN ATTORNEY  
POSSESSION - HOW, NSR INDICATED THAT RESPONSES NOT SENT
  - ⑦ NSR HANDWRITTEN NOTE & JL ORLY. SUMMARY IN W/ ATTORNEY
  - ⑧ JL HAD PROBLEM W/ JIN OFFERING "HELP" TO RICK WALKER  
ON LABOR MATTERS & CHAPMAN ON EXPERT WITNESSES  
- JIN VOL. NOT BEING ASKED
  - ⑨ JL WANTS TO KNOW WHAT QUALIFIES JL TO MAKE  
STATEMENTS ON ANST, OCE QA PRACTICES, REASONING  
BEHIND JL MOW & STATEMENTS - WHAT IS JIN UP TO?
  - ⑩ NSR ASKED IF OCE HAD AN ATTORNEY
  - ⑪ NSR NOT PLEASED THAT 11/10 & 11/13 MTG TRANSCRIBED
  - ⑫ NSR SAID JL SHOULD HAVE BEEN CRITICED PRIOR TO SITE TRIP
- END OF 11/22/83 ENTRY

November  
Wednesday

October

November 1983

December

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23

= 0830HRS (EST) 11/23/83 JIL POINTED OUT TO RAT THAT 2 OUT OF 2 MTGS. NOT WHAT JIL HAD BEEN LED TO BELIEVE - WHAT IS GOING ON, SOMEONE IS NOT ABOVE BOARD  
@ 1030HRS (EST) 11/23/83 UNTIL @ 1340HRS (EST)  
MTG. w/ RBR, RAT, JIL, & JIL (SEE NOTES) JIL DISCUSSED

- ① MTG. WHAT WAS SAID AND DISCUSSED AT MTG. w/ TUGOOD ATTORNEY SEE NOTES FOR DETAIL
- ② GO IN DEPTH ON ANAL. DISAGREEMENT AND RAMIFICATIONS - BOTH RBR/RAT POINTED OUT TO JIL THAT OGC COMPLIES WITH AND SATISFIES ALL ANAL. REQUIREMENTS
- ③ GO IN DEPTH ON PERS. & BNS OF AN OGC AUDIT

AS RESULT OF MTG.

- ① RBR TO CALL NOR TO ASSURE THAT JIL HAS NO AXE TO GRIND AND IS WILLING TO PERFORM AN OBJECTIVE AUDIT

- ② OGC WOULD APPEAR AS TUGOOD/TUSE WITNESS IF ASKED

- ③ OGC WANT A HOLD HARMLESS? (FROM WH) OGC TO COOPERATE BUT WANT TWO WAY STREET w/ TUGOOD/TUSE.

- ④ OGC TO OFFER AUDIT AGAIN

- ⑤ OGC IS AND WILL CONTINUE TO BE OBJECTIVE

- ⑥ TO THE LINE OF COMMUNICATION BETWEEN RBR/RAT/JIL/JL

11/23/83 RBR ADVISED DIL (ATTORNEY) INTERVIEW AND SUMMARY COMMENTS ON INTERVIEW JIL POINTED OUT TO JIL & RAT THAT INFO. IN INTERVIEW WAS INACCURATE IN SOME AREAS AND/OR MISLEADING.

@ 1500HRS (EST) RBR INFORMED RAT/JIL/JL THAT RBR THREW BY NOR AND NOR WANTED ORIGINAL OF DIL MEMO THAT JIL PICKED-UP (ALSO WANTED ALL COPIES)

- NOR SAID TO RBR THAT JIL MEMO ON HILL - RBR CONVEYED THAT JIL HAD NO AXE TO GRIND - RBR ALSO SAID THAT OGC HAS SHOWN ENOUGH AT LEAST TWICE - RBR SHD PIONEER CONVERSATION NEXT WEEK



November

October

November 1983

December

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~ 1230 HRS (EST) 11/28/83 T. CONN. W/ F. HAWKINS  
 (NRC) WANTED TO SET UP MTG. W/ JLL (PREFERABLY  
 AFTER WORK OR ON WEEKEND) TO DISCUSS AREAS INTO  
 WHICH F. HAWKINS COULD PURSUE. JLL POINTED OUT  
 OBC POSITION AND OFFERED TO COOPERATE.

~ 1240 HRS (EST) INFORM FIRST RAT  
 THEN T. CONN. W/ JLL AND ADVISE ON  
 T. CONN. W/ F. HAWKINS

SPEND MOST OF DAY ON FINAL PROOF  
 READ ON 11/10 & 11/83 MTG. TRANSCRIPTS

~ 1650 HRS (EST) RAT SUGGESTED THAT  
 JLL CONTACT N. REYNOLDS ON NRC MTG.  
 (JLL HAD POINTED OUT TO RAT EARLIER  
 THAT JLL WOULD NOT BE ABLE TO  
 PROVIDE F. HAWKINS W/ SPECIFICS  
 BUT ONLY SUGGEST AREAS INTO WHICH  
 F. HAWKINS SHOULD CHECK OUT)



January 1984

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Tuesday

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NOV 29 11/29/83 T.CONN. W/NSR  
(TUGCO ATTORNEY) LEFT MESSAGE

T.CONN. W/NSR (DIDN'T RECORD TIME) ON UPCOMING 12/3/83 MTG.  
W/F. HAWKINS (NRC) - WANTED ON JIL OWN TIME NOT COMPANY -  
JIL WOULD NOT BE ABLE TO PROVIDE SPECIFICS ONLY AROTT OR  
AVENUES FOR F. HAWKINS TO PURSUE

T.CONN. W/NSR (TUGCO ATTORNEY) & F. HAWKINS (NRC) @ 1550 HRS.  
EXPLAINED TO F. HAWKINS THAT NSR REPRESENTS JIL ON THIS  
ITEM - ALSO EXPLAIN TO F. HAWKINS THAT JIL BASED MEMO W/O  
TUGCO'S SIDE OF STORY AND THAT IF TUGCO IS DOING ALL  
THAT THEY (TUGCO) SAYS THEN JIL'S CONCERNS WOULD BE  
MITIGATED (JIL CAN NOT PROVE ONE WAY OR THE  
OTHER) - AGREED TO MEET IN CHICAGO ON 12/8/83  
(NSB TO ARR. @ 400PM IN CHICAGO)

ADVISE RBR ON STATUS (RBR MENTIONED TWICE  
TODAY JIL WORKLOAD) W/NSR & NRC  
ADVISE RAT ON STATUS W/NSR & NRC

DURING T.CONN. W/W. CZEROTAR SHE MENTIONED  
THAT L. ADAMS (HER SISTER) TALKED W/HER  
ON C.P. & JIL SITUATION

## Monday

November

December 1983

January 1984

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SEE FIRST TWO ENTRIES FOR 12/7/83  
(MISTAKENLY ENTERED UNDER WRONG ID)  
T. COMM. W/NSR (OFFICE) TWICE  
#1 LEFT MESSAGE W/MS. REAP - JLR RECD  
NSR LETTER OF 12/3 AND WOULD MEET  
NSR PLANE @ O'HARE (NSR HAS ROOM  
@ HILTON AS WELL AS FLIGHT RES. FOR EVE. 12/7)  
#2 LEFT MESSAGE PER F.H. REQUEST  
ADVISE JLN ON NSR LETTER OF 12/3/83 - SEND  
COPY W/ TEXAS NEWSPAPER ARTICLES  
GIVE RBR COPY OF NSR LETTER & NEWSPAPER ART.  
T. COMM. W/E. MOUSER (SAI) E. MOUSER HAD TALKED  
W/R. WALKER & IS TO TESTIFY AT DULHAM  
HEARINGS - E.M. COULDN'T REMEM. IF JR  
GAVE COPY OF TRIP REPORT TO E.M. -  
SEE NOTES - NOTES NOT CLEAR & AS A RESULT  
WERE DESTROYED

December  
Wednesday

November

December 1983 January 1984

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12/5/83

RBR CALLED JIL INTO RBR OFFICE & HAD JIL READ & COMMENT ON INFO. SENT TO OBC (JIL) BY N.S.R. ALSO RBR WENT OVER INFO. FOR JIL TO EMPHASIZE (SP?) WHEN W/NRC (RBR LATER TOLD JIL TO GIVE NSR THE ARTICLE) 12/5/83 T. CONN. W/F.H. (NRC) O'HARE HILTON RM 2115 5-9 PM (SHOULDN'T TAKE MORE THAN 1-2 HRS.) ASKED JIL TO CALL NSR

12/7/83 MESSAGE FROM MR. HORIN (202-857-9837) THAT THE MTG. IN CHICAGO WAS CANCELLED TRIED TO CALL & LEFT MESSAGE

12/7/83 20900 (EST) T. CONN. W/F.H. (NRC) MTG. POSTPONED (NRC ATTORNEYS HAD PROBLEM W/NSR BEING @ MTG.)

12/7/83 20935 (EST) T. CONN. W/WM. HORIN (202-857-9837) NRC HAS PROBLEM FROM A POLICY STANDPOINT W/AN ATTORNEY BEING PRESENT DURING ALL INTERVIEW

12/7/83 20940 (EST) LEFT MESSAGE (CHICAGO MTG. CANCELLED - NRC HAD PROBLEM W/ ATTORNEY BEING PRESENT) FOR JIL

12/7/83 INFORM RAT ON MTG. STATUS

12/7/83 ASKED TED TO RELAY MESSAGE TO RBR

December

November

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~3 HRS. START REVIEW OF TRANSCRIPT #11/10/11/83 MTG

T. CONN. W/NSR SER LEFT MESSAGE THAT JLL  
COULD NOT MAKE MTG. ON 12/20/83 - TRIED TO  
RESCHEDULE - NSR OR SER. WILL CALL BACK TO RESCHEDULE

T. CONN. W/JJN (1219 HRS. EST) TOLD JJN IN OBC  
FLORIDA OFFICE → JLL CALLED OBC FLA. OFFICE  
AND LEFT MESSAGE

T. CONN. W/RBR (OBC FLA. OFFICE @ 1230 HRS EST)  
GO OVER NSR T. CONN. OF 12/8/83 (EXCEPT #6, 7 & 8)  
T. CONN. W/NSR (1511 HRS. EST) MOVE MTG. TO 12/21/83  
@ 0930 HRS IN WASH., DC.



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~1045 HRS. (EST) 12/16/83 T. CONN. w/  
F. HAWKING (NRC) WANTS TO RESCHEDULE  
MTG. FOR 1/4/84 IN CHICAGO IN MORNING  
-NO PROBLEM FOR NSR TO BE PRESENT  
JIL TO CALL NSR THEN CONFIRM w/F.H. @  
312-790-5660

~1107 HRS. (EST) 12/16/83 ADVISE RBR &  
RAT ON T. CONN. w/F.H. ; RBR DIRECTED JIL  
TO CALL NSR THEN SWITCH NSR UP TO RBR  
~1125 (EST) 12/16/83 LEFT MESSAGE

w/SECRETARY  
~1208 (EST) 12/16/83 T. CONN. w/E. REAP  
(NSR-SEC.) ON RESCHEDULED MTG.

~1400 HRS (EST) 12/16/83 T. CONN. w/NSR  
RE: MTG. IN CHICAGO ON 1/4/84 OK w/NSR

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December

Tuesday

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T. CONN. W/E. REAP RE. CONFRA

12/21/83 MTG. W/NJR ALJO

ADVISE OF FLT TO &amp; ARRIVAL TIMES TO CHICAGO ON 1/4/84

T. CONN. W/F. HAWKINS (1420 HRS) ADVISE ON FLT.  
TIMES

December

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LI. FOR WASH. DC @ 0620 HRS  
= 940 HRS (EST) MTG. W/ M. WATKINS,  
N.S. REYNOLDS & E. REAP (SE) WORK THROUGH  
LUNCH MTG ENDED AT ~1500 HRS (EST)

- GO OVER DRAFT OF TESTIMONY
- EXPAND & ELABORATE ON DRAFT OF TESTIMONY
- DISCUSS JIL QUAL TO TESTIFY - JIL NOT COMFORTABLE STATING THAT JIL IS AN EXPERT ON NUCLEAR WORK - NSR TO CONTACT RBR & PERHAPS GO W/ RAT (JIL HAD NO PROBLEM W/ RAT)
- DISCUSSED TRIP REPORT CHANGED BY RBR
- DISCUSSED NSR MTG & HEARING FORMAT
- JIL ADVISED NSR THAT JIL HAS OPINIONS ON CP QUALITY BUT WOULD PREFER NOT TO DISCUSS OTHER THAN THOSE OPINIONS ALREADY EXPRESSED IN 8/8/83 TRIP REPORT

@ 1540 HRS (EST) T. CONN. W/ RAT BRIEFLY  
REVIEW W/ RAT MTG. W/ N. OR. & M. W.

December

November

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~0940 HRS (EST) 12/23/83 CONN. w/ RBR

RE: NEW DRAFT OF JLL TESTIMONY DID NOT ARRIVE; RBR WENT OVER JLL PERFORMANCE APPRAISAL - ONLY NEGATIVE COMMENT WAS THAT JLL SHOULD DO A BETTER JOB ON SETTING DEADLINES & THAT JLL SHOULD KNOW EXACTLY WHAT EVERYONE IS DOING IN JLL'S DEPT. JLL ADVISED RBR THAT DEADLINES CAN BE SET & MET BUT DAY TO DAY & RUSH ITEMS WOULD SUFFER (RBR SAID THAT HE WANTS DEADLINES & CURRENT WORK NOT TO SUFFER); JLL SALARY TO INC. 2K/YR ALSO 1C PORTION FOR '83 SHOULD BE ~5.5K

ADVISED E. REED THAT NEW DRAFT DID NOT ARRIVE - COPY TO BE SENT TO JLL C/O MR & MRS E.A. GULLEDGE



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December

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— REVIEW NEW DRAFT OF  
JUL TESTIMONY

RELATED CORRESPONDENCE

DOCKETED  
USNRC

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January

Tuesday

34 OCT 22 P12:16

3

8845 HES. COND. W/ABR RE:  
COMMENTS ON NEW DRAFT OF JIL TESTIMONY  
MISC. COND. W/ WATKINS (ATTORNEY W/ JIL)  
AND/OR CEF ON JIL TRAVEL TO & ARRIVAL IN  
CHICAGO ON 1/4/84

ADVISED BY CEF THAT F. HAWKINS (NRC) CALLED  
TO INFORM THAT THE MTC. IN CHICAGO ON 1/4/84  
WOULD BE IN AM 2076 OF O'HARE HILTON  
AT AS CLOSE TO 1100AM AS POSSIBLE

January

Wednesday

December 1983

January 1984

February

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4

- 20645 HRS TRAVEL TO CHICAGO FROM  
LATWETTE HILL, PA (TWA FLT #123)  
20700 HRS. (EST) STOP BY OFFICE ON WAY TO  
AIRPORT - PICK UP NEW DRAFT & TICKET  
REVIEW DRAFT OF TESTIMONY ON PLANE  
20930 HRS (CST) MEET M. WATKINS AND  
GO OVER POINTS TO THINK ABOUT FOR NRE MTG.  
① REQUEST COPY OF TRANSCRIPT  
② M.W. DISCUSSED "ON RECORD" VS "OFF RECORD"  
③ QUESTIONS FALL INTO 4 CATEGORIES  
A - FACTUAL B - HYPOTHETICAL C - IMPLIED  
D - ASSUMPTIONS  
④ MISC. -

ARRV. FOR MTG. AT 21045 HRS (CST)  
MEET F. HAWKINS, C. JOHNSON  
MTG. STARTED @ 21110 HRS (CST) JLL S'WORN IN  
WENT OVER 2/8/83 TRIP REPORT (COPY W/ QAD NUMBER)  
ANSWERED QUESTIONS ASKED BY F.H. & C.J.  
MTG. ENDED AT 21240 HRS (CST)  
F.H. SHOULD HAVE DRAFT OF TRANSCRIPT BY 1/9/84  
HOPEFULLY TRANSCRIPT WILL BE READY BY 1/12/84  
TRIED TO CONTACT RER BY PHONE TO GIVE  
STATUS BUT UNABLE (RER ON OTHER LINE)  
CONN. W/ M.W. (AFTER MTG.) M.W. FELT JLL DID  
WELL W/ NRE BUT CAUTIONED THAT J. ELLIS  
WOULD BE MORE AGGRESSIVE; PROBABLY WANT JLL  
IN WASH. DC THE WK OF 1/9/84  
ADVISED BY KGA (21415 HRS CST) THAT WSA  
HAS COPY OF TRIP REPORT (RECD FROM T. WILCOX SON -  
UNABLE TO FIND OUT HOW T.W. RECD REPORT)

75 LOCKER ✓ TRAVEL TO PHILA. ON UA FLT #100  
5.27 LUNCH ✓  
17.45 DINNER SAS ✓  
10.00 PARKING ✓  
PHONE

March

April

May

January

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Thursday

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CONF. w/ RBR @ 0850 HRS (EST)  
ADVISE RBR OF STATUS ON 1/4/84  
MTB.



January

Friday

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December 1983

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January 1984

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INFORMED BY RBR THAT JULIAT TO GO TO  
NOR OFFICE IN WASH. ON 1/9/84 (AFTERNOON)

January

Monday

December 1983

January 1984

February

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9

TRAVEL W/RAT TO WASH. D.C. ATTORNEY

SEE TRIP REPORT QAD-84-0013 DATED 1/10/84

-OTHER ITEM NOT IN TRIP REPORT WAS  
FACT THAT STATISTICAL PRESENTATION BY  
TUSI/TUGCO FOR ASLB MAY NOT BE READY  
BY 2/6/84 → RAT ASKED HOW RETROFIT  
COULD BE STOPPED IF DATA NOT ALREADY  
COMPILED (SPP).

TRAVEL W/RAT TO PHILA, PA. FROM WASH., DC.

L 4.75 ✓

D 14.85 ✓ 1.99

PARKING 3.75 ✓

TRAIL 26.50 ✓

PHONE

March

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January

Tuesday

10

T.CONA. w/M. WATKINS --SEE

QAD-84-0014 DATED 1/10/84

RAT ADVISED JLL THAT RAT UPDATED JLN  
ON C.P. STATUS

January

Wednesday

11

December 1983

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READ CASE FILING OF 11/30/83

\*1030 HRS (EST) RAT ON PHONE W/R. TOLSON

-RAT ADVISED JLC THAT TOLSON CALLED ABOUT  
TRANSCRIPT ON 11/10 & 11/83 MTGS ON SITE.  
TOLSON HAS INCORPORATED CORRECTIONS IDENTIFIED  
IN PINK BY OBE ON LAST DRAFT. HOWEVER, OTHER  
COMMENTS PROBABLY WOULD NOT BE INCORPORATED.  
TOLSON TO KEEP COPIES OF DRAFTS ON FILE IN  
CASE OF QUESTION.



January

Friday

December 1983

January 1984

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13

~ 1030 HRS (EST) T. CONN. W/ W.E. GAMPE  
(BPC - MIDLAND MICH - HE CALLED) WES ASKED  
ABOUT TRIP REPORT - JL TALKED ABOUT  
REPORT BUT DIDN'T GET INTO  
SPECIFICS

~ 1045 HRS (EST) T. CONN. W/ R. BOUTIN  
(LEASCO BAY CITY TEXAS - HE CALLED)  
RB READ TRIP REPORT - SAID LITTLE  
BIRDIE GAVE TRIP REPORT TO HIM

April

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February

Sat. / Sun.

11/12

SEE QAD-84-0067  
ON H8301 ACTIVITIES THIS DATE

Lincoln's Birthday

February

Monday

13

January

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SEE QAD-84-0067 on H8301  
ACTIVITIES THIS DATE

February

Monday

20

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T. CONN. W/ STEVE STECKLOW (PHILA. INQUIRER) @ ~ 1330HRS (EST) 215-854-2183

- S.S. SAID THAT HE WAS DOING A FOLLOW-UP TO AN EARLIER STORY ON ZIMMER. SS SAID THAT WHILE IN WASHINGTON (ASSUME D.C.) SOMEONE (SS DID NOT IDENTIFY) GAVE HIM A COPY OF JIL TRIP REPORT.
- RBR SAID OOC | JIL HAD NO COMMENT BECAUSE CASE IS IN LITIGATION
- JIL TURNED CALL OVER TO RBR - RBR DID NOT ADVISE JIL ON CONTENT OF CONVERSATION

T. CONN. W/ RAT (609 693 1881)  
 @ ~ 1840HRS ADVISE ON CONN. W/ S. STECKLOW; ALSO RAT DIRECTED JIL TO MAKE CHANGE IN GLASS' BEAD CP



February

Wednesday

29

January

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T. CONN W/M. WATKINS

1614 HAS (EST) PILOSKY REPORT & AFFIDAVIT  
 DID NOT COME UP - WILL NOT USE  
 AFFIDAVIT - ASLB TESTIMONY SLIPPED  
 (BROOKHAVEN) SUBCONTRACTOR COMPLETE  
 INVESTIGATION UNTIL 6/84 MAYBE  
 LATER) - STILL COULDN'T RECALL  
 SUBCONTRACTORS NAME (ON ANSI  
 STANDARDS COMMITTEE)  
 STEVE STECKLOW (PHILA.  
 INQUIRER) - ADVISED M. WATKINS  
 OF CALL AND OBC ACTION  
 - M.W. REQUESTED COPY OF ALL  
 ARTICLES THAT MAY APPEAR  
 M.W. DID NOT RECEIVE ALL  
 COMMENTS TO NRC TESTIMONY

May

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March

Tuesday

27

T. CONN. w/ M. WATKINS (202-857-9600)

@ 0900 HRS. (EST) RE: MW TO GET BACK TO JLC  
ON INCORPORATING JLC COMMENTS TO 1/4/24 NRC TESTIMONY

May  
Friday

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T.CONN. W/ M. WATKINS @ 1023 HRS (EST) RE:

1) COPY OF REVISED REARREST AFFIDAVIT  
WILL BE TELECOPIED

2) J.L. TOLD MW THAT AS OF YET J.L. HAD  
NOT READ INFO. BECAUSE OF OTHER

COMMITMENTS (H8302 REPORT)  
3) MW ACKNOWLEDGED J.L. TIME OF IMPORTANCE  
BUT NEEDS AFFIDAVIT - WILL BE OFFICE LATE  
TONIGHT SO J.L. COULD CALL

4) WHICH COPY OF TRIP REPORT TO ATTACH TO  
J.L. AFFIDAVIT - J.L. INDICATED SIGNED COPY

5) WANT COPY OF J.L. RESUME

6) WENT OVER J.L. T.CONN. ON 5/24 W/  
R. TOLSON W/ REGARD TO B. WALLACE  
AND INFO. J.L. HAD OLD B. WALLACE (POINTED  
OUT THAT INFO. WAS HEARSAY)

T.CONN. W/ M. WATKINS @ 1125 HRS (EST)

1) NO LONGER RUSH TO HAVE AFFIDAVIT  
COMPLETED TODAY (FRI MAY 25, 1984)

2) J.L. MENTIONED THAT ADMINISTRATIVE  
RESTRAINT ON J.L. BECAUSE OF BILLING  
- MW THOUGHT THAT BILLING WAS  
RESOLVED

T.CONN. W/ J.L. @ 1140 HRS. (EST) ADVISE  
J.L. ON T.CONN. W/ MW J.L. & MW OF J.L.  
DISCUSSED BILLING J.L. WANTS AFFIDAVIT  
AS A HAMMER

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T. CONN. w/ R.C. TANG (NRC) AT ± 1230 hrs (EST)  
SET UP CONFERENCE CALL w/ JIL AND  
DICK WILSON AND OTHERS (UNIDENTIFIED)  
FOR 1400 HRS ON 8/7/84  
JIL TO CALL 817-897-4683 IF UNAVAILABLE  
FOR T. CONN. ON 8/7/84

T. CONN. w/ M. REYNOLDS ADVISED OF T. CONN. w/  
R.C. TANG AND WHAT JIL WOULD DISCUSS  
- NO PROBLEM w/ TECH. MATTERS PROVIDED JIL  
NOT REQUIRED TO SPECULATE

ADVISE PBR, RAT, JIN

EVE ADVISED BY WHITEMARSH TOWNSHIP POLICE OFFICER  
(5'10" PORTLY BROWN HAIR GLASSES) ADVISED JIL  
AT 51945 HRS OF COMPLAINT BY NEIGHBOR THAT OUR  
DOG WAS BARKING - NO CRIME TO LEAVE DOG OUT BUT  
NEIGHBOR COULD FILE A COMPLAINT w/ MAGISTRATE -  
WANTED TO HANDLE IN A NEIGHBORLY FASHION - JIL SAID  
HE WOULD TRY TO CORRECT SITUATION

JIL CALLED DISPATCHER AND ASKED IF JIL COULD  
FIND OUT WHO COMPLAINED IN ORDER TO DISCUSS  
THE PROBLEM (JIL & KEY OUT AND NOT AWARE OF  
PROBLEM). WHETHER DOG JUST STARTED TO BARK,  
WHETHER DOG SAW KIDS OR ANOTHER DOG - WOULD  
LIKE TO DISCUSS PROBLEM. OFFICER SAID JIL  
SHOULD CHECK w/ NEIGHBORS ON EITHER SIDE.



August

Monday

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July

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- T. CONAL w/ M. WATKINS @ ~ 1540 HRS (LST)
- ASKED TO WHOM JLL SPOKE - RE TANG  
JLL PROVIDED PHONE NUMBER GIVEN BY  
MR. TANG
  - JLL ALREADY PROVIDED TESTIMONY TO  
STAFF (NRC) AND DUE TO PENDENCY  
OF HEARINGS NOT APPROPRIATE FOR  
JLL TO TALK W/ NRC
  - M. WATKINS WILL ADVISE JLL ON  
STATUS
  - JLL BROUGHT UP BILLING - OBC COULD  
BILL M. WATKINS' FIRM BUT FIRST  
M. WATKINS WILL TALK W/ J. MERRITT

ADVISE RAT

T. could w/ M. WATKINS @ 11:00 hrs (EST)  
 - Ippolito said MRG will talk only on DUE item (MATERIAL TRACABILITY) EITHER  
 - MRG TRULIDE TO FORWARD OF DUE BILL. J. MERRITT  
 PREVIOUS TESTIMONY PRIOR TO CALL  
 MATERIAL TRACABILITY BUT WOULD REVIEW  
 - JUL TO ~~CALL~~ MRG TALK OF MRG TO DISCUSS  
 T. could w/ M. WATKINS @ 11:00 hrs (EST)  
 - JUL TO ~~CALL~~ MRG TALK OF MRG TO DISCUSS  
 MATERIAL TRACABILITY BUT WOULD REVIEW  
 PREVIOUS TESTIMONY PRIOR TO CALL  
 MRG TRULIDE TO FORWARD OF DUE BILL. J. MERRITT  
 T. could w/ M. WATKINS @ 11:00 hrs (EST)

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8-7-84  
 3:01 P.M. (EST)

Mr. Stan Kirsilis of the NRC called for Joe Lipinsky. Said he was returning call that had been set up for 2:00 P.M.

SK: I have here with me Claudio Johnson. We are trying to get the squawk box to work.  
 JKL: I have talked with McNeill Watkins of Bishop, Liberman, Cook, Purcell and Reynolds, and I thought this call would have been cancelled by now. I would prefer not to have any conversations on this matter, again not that I do not want to cooperate with you, but I feel that an informal conversation would not provide as much detail as my upcoming formal testimony.  
 SK: I had the message to call Watkins but did not return the call. Well, suppose I call him (MW) then and we try to talk to you some other time if it turns out that we can. We will try to get back to you.  
 JKL: Please don't take my attitude as hostile, but I would prefer that you talk to Watkins and coordinate through him.  
 SK: You do not want to make a move that he doesn't think is right?  
 JKL: I would not say that. However, I think it would be best that you discuss this with Watkins.  
 SK: Perhaps we can reschedule it at a later time. I will try to call him and see what the problems are.  
 JKL: OK

October

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December

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August

Tuesday

FROM THE DESK OF

ROBERT B. ROTH

*Jos. L.*  
*Re: TEXAS UTILITIES*

Several months ago, J.D.N.  
 reduced the Fee & Cost Contract  
 w/ the client, absorbing the  
 travel & per diem costs associated  
 w/ the "G.A. problem", to  
 show a net due Cannon of  
 \$7800<sup>32</sup>. This reduced net  
 has not been paid & represents  
 monies outstanding for over  
 5 to 6 mos. John Morrill's aware of?  
 RBR. then?

00

5

7

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30 31

7

T. CONL W/ M. WATKINS' (~1536 HRS EST) RE:

- DELAYED CONL BETWEEN JLL & NRC
- M.W. SAID ALL THEY (NRC) WANT TO DISCUSS IS MATERIAL TRACEABILITY/ AND SHOULD NOT BE A PROBLEM  
JLL SHOULD REVIEW OI TESTIMONY, AND DRAFT OF AFFIDAVITS
- BILLING, REVIEW RBR NOTE
- COPY OF DEQUALIFICATION REPORT TO JLL IF NOT A PROPRIETARY DOCUMENT



August

Wednesday

8

July

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August 1984

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T. CONN. w/ M. WATKINS @ 1405 HRS (EST)

- JIL TO ~~CALL~~ TALK w/ NRC TO DISCUSS MATERIAL TRACEABILITY BUT SHOULD REVIEW PREVIOUS TESTIMONY PRIOR TO CALL
- MW TRIPS TO FOLLOW UP ON BILL. J. MERRITT HAS APPROVED.

T. CONN. w/ M. WATKINS @ 1409 HRS (EST)

- IPPOLITO SAID NRC WILL TALK ONLY ON ONE ITEM (MATERIAL TRACEABILITY) EITHER TODAY OR EARLY TOMORROW

- J. DESCHLE & BROOKHAVEN - M.W. ASKED ABOUT REPUTATION OF J.O. & METALWELD
- JIL REPLIED THAT OBE & METALWELD ARE ON SAME LEVEL WHEN IT COMES TO BIDDING (METALWELD 60-70% NUCLEAR <sup>VS</sup> OBE 30% NUCLEAR). ALSO THAT J.O. IS A PRO FROM COVER w/ REGARDS TO CONTAINERS.

ADVISE JIN @ 1425 HRS (EST)

October

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November

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August

Thursday

30

T. CONN. W/ M. WATKINS (≈ 1515 HRS  
EST)

→ WANTED TO KNOW IF OBC REC'D  
PAYMENT; JLC SMD YES AS FAR AS  
JLC KNOWS

→ JLC ASKED AGAIN IF A COPY OF THE  
BIBES & HILL/ERASCO REPORT ON DEQUAL. OF  
COATINGS WOULD BE AVAILABLE - M. WATKINS  
TO CHECK AND GET BACK

→ BRIEFLY TALKED ABOUT PERSONNEL  
→ MAY WANT JLC TO GO TO WASH, DC IN  
NEXT WK OR TWO

September

Wednesday

5

August

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September 1984

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T.CONN. W/M. WATKINS RE: T. MILLER CALLED  
TO TALK W/ME - SHOULD I CALL  
BACK OR WHAT

- M.W. UP TO JIL - NO REAL ADVICE  
ONE WAY OR THE OTHER
- ANTICIPATE T. MILLER TO FILE A  
210 COMPLAINT BUT T. MILLER NO  
LONGER EMPLOYED W. C.P. AND AS A  
RESULT MAY BE LOOKING FOR A JOB  
(JUST SPECULATION)
- JIL LEFT M.ATTER THAT IF T. MILLER  
GOT A HOLD OF JIL THEN JIL WOULD  
TALK BUT OTHERWISE JIL WOULD  
NOT CALL T. MILLER
- NOTHING BREWING W/ REGARD TO C.P.  
THEN JIL EXCHD CALL

September

Wednesday

26

August

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September 1984

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T. COULN. W/M. WATKINS ~ 1023 HRS (EST)

- BRIEFLY REVIEW BOARD HEARINGS, NO REAL DETAILS
- STATUS ON AFFIDAVITS (SP?) - BRANDT & LIPINSKY
- TALKED ABOUT SEQUENCE ON TRIP REPORT (AUGUST 8 SIGN. DATE)
- ALSO WHETHER 8/8, 9, 10/84 MTB. HAD ANY IMPACT ON TRIP REPORT - NO.
- COPY OF REPORT ON DETAIL OF COATINGS



November

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January 1985

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September

Thursday

27

T. CONN. W/M. WATKINS - CALLED H.C. (3332)  
 SITE ASKED IF I REC'D PACKAGE  
 W/ AFFIDAVITS (SY?) (PRANDT/LIPINSKY) AND  
 MOTIONS - JIL EXPLAINED RSR HRS  
 PACKAGE ON DESK WHICH IS SOP FOR  
 CANNON - JIL TO CALL ON FRIDAY

Rosh Hashanah

September

Friday

28

August

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September 1984

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REC'D PACKAGE FROM RBR JUST BEFORE LUNCH

T. CONUL. W/ M. WATKINS' ≈ 14/10/84

- NEEDED SIGNED JIL AFFIDAVIT (SP?) ASAP - WANTED TO PRESENT TO BOARD BEFORE JIN TESTIMONY ON 10/1/84
- JIL EXPLAINED THAT JIL LEAVING EARLY TODAY, WOULD TRY TO SEND BEFORE SUNDAY
- M.W. ALSO ASKED FOR A COPY OF JIL RESUME

JIL HAD DECKMAN WITNESS / NOTARIZED JIL AFFIDAVIT (SP?)

TELECOPY RESUME → T. CONUL. W/ M. WATKINS

- EXPLAINED THAT JIL COULDN'T FIND TWO PAGE VERSION OF RESUME
- OFFERED TO SEND (TELECOPY) SIGNED AFFIDAVIT (JUST SIGNATURE)

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January 1985

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September

Sat. / Sun.

29/30

REVIEW & COMMENT ON  
JUL AFFIDAVIT - SEE NOTES  
→ GO OVER w/ M. WATKINS

October

Wednesday

3

September

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October 1984

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10/4/84

SHOULD BE OVER

→ RBR FELT ENTIRE SITUATION GETTING OUT OF HAND  
JUL AGREED BUT POINTED OUT THAT AT THIS  
STAGE THERE IS LITTLE ONE COULD DO BUT  
TREAT THE MATTER SERIOUSLY.

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January 1985

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February

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October

Thursday

4

T.CONN. W/JUN RE:

- MENTIONED HE TESTIFIED 10/1 & 10/2 & STILL NOT DONE
- JUN SAID JUL HAD A BAD DAY WHEN TRIP REPORT WAS WRITTEN - JOE IS FREE WHITE AND OVER 21 AND FREE TO SAY WHAT HE WANTS JUN WOULD HAVE LIKED TO SEE QUOTATION MARKS IN REPORT
- JUN TOLD JUL TO EXPECT SUPPONA (SP?)
- JUN GETTING PERSONAL LEGAL COUNSEL
- ALL MEMOS/NOTES OF OBC PERSONNEL SUPPONA (SP?)

T.CONN. W/M. WATKINS

- JUN DIDN'T IMPRESS BOARD (BOARD HOSTILE & JACK IS BASICALLY A GAYED PERSON)

- BOARD ESSENTIALLY SAID JUL AGE QA MUR SAID THINGS WERE TERRIBLE THEN CHIEF CHGD JUL MIND
- JUL DIARIES BRIEFLY DISCUSSED - SHOULD TALK OVER W/COUNSEL MAY OR MAY NOT BE PRIVILEGED INFORMATION
- M. WATKINS WILL TALK W/ N. REYNOLDS MAY SUGGEST POSSIBLE LEGAL FIRM FOR OBC - ONE EXPERIENCED W/ REGULATORY PROCESS
- WILL SEND JUL COPY OF JUN TRANSCRIPT
- M. WATKINS INDICATED THAT HE (M.W.) WANTED JUN TO TALK TO RBR BEFORE OFFERING OBC DOCUMENTS (JUN TURNED OVER JUL T.CONN. MEMOS TO BOARD)
- M.W. ASKED JUL ABOUT FOUR PAGE ADDIT/REVIEW THAT JUL/MEM PREPARED FOR 11/53 TRIP TO H8301
- JUL WENT THROUGH ENTIRE SEQUENCE (FROM MEMORY)

T.CONN. W/RAT WENT OVER ABOVE → JUL TO TALK W/RBR  
 CONN. W/RBR RE: SUMMARIZE ABOVE; MENTION JUL DIARIES;  
 STRESS THAT OBC RETAIN COMPETENT COUNSEL;  
 SUGGEST THAT WE GET TOGETHER & VIEW JUN TESTIMONY

T.CONN. W/JUN RE: JUN SAID HE TALKED W/M. WATKINS  
 AND M. WATKINS INDICATED THAT HE (JUN) DID WELL



October

Wednesday

10

September

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October 1984

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November

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— REC'D COPY OF BOARD  
SUMMONS (OBC DATE STAMP  
0936 10/5/84)

— LATE AFTERNOON ~ 1730 HRS COMM. W/ RBR  
JL ASKED IF OBC Hired COUNSEL RBR  
SAID YES

JL ASKED NAME - JOSEPH GALLO (SP?)  
JL ALSO ASKED TO KEPT UP TO DATE ON  
OBC HB301 ACTIVITIES

December

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January 1985

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February

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October

Thursday

11

— MISC. COLIN. W/RAT

@3332 SITE ON BOARD SUMMONS  
 & JIN QUOTES (sp?) in NEWSPAPER  
 CLIPPINGS.

December

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January 1985

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February

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October

Sat. / Sun.

13/14

—REC'D ORIGINAL OF  
BOARD SUMMONS

(ABC DATE STAMP 084/6 10/11/84)

84 OCT 22 12:16

DOCKETED USNR

OFFICE OF SECRETARY  
DOCKETING & SERVICE  
BRANCH

FROM THE DESK OF

ARTHUR P. McDONALD

RAT

12/5/83

Jim Come in (2) P.T. 11:00

night

Spoke to RBL about noon  
OK to open

- gone  
Jm

RELATED CORRESPONDENCE

FROM THE DESK OF

ROBERT B. ROTH

RAT

12/14

John Murcott called from  
TUSA today to ask if we'd been  
over the corrected draft to sent  
to me, under confidential cover  
last week. I told John it had  
come in, while Lucas on the road  
last week & that I had instructed  
ADM to open p-1g & give to you.  
Further, you were at 2 minutes &  
not back till Thurs. 12/15. John  
asked that we get back to him  
Thurs. 12/15 as to an agreement or  
no as he's anxious to let it fly  
w/ unanimous consent!

RBR

# OLIVER B. CANNON & SON, INC.

JK

RELATED CORRESPONDENCE

## DEPARTMENTAL CORRESPONDENCE

DATE October 8, 1982  
DOCKETED  
USNRC  
SUBJECT Three Mile Island Damage Report  
o Staff '84 OCT 22 P12:16  
FROM Ralph A. Trallo  
OFFICE OF SECRETARY  
DOCKETING & SERVICE  
BRANCH

Attached is a presentation summary on the cause of coating damage within the Three Mile Island Unit Containment.

The Summary was prepared by EPRI (Electric Power Research Institute) which is sponsoring several investigations of materials performance at Three Mile Island.

The last paragraph is of utmost importance to Cannon. I have requested at set of slides taken within the Three Mile Island Containment.



Ralph A. Trallo

RAT:ja

Attachments



PENTEK

PRESENTATION SUMMARY

EPRI is sponsoring several investigations into the performance of mechanical equipment and the behavior of materials in response to the Three Mile Island Unit Two accident. As part of these efforts, preliminary investigations are being undertaken with respect to paints and protective coatings.

The initial damage mechanisms in the reactor containment building were principally the result of a hydrogen burn caused by the free hydrogen gas generated as a result of extensive core damage. The hydrogen burn created a 28 PSIG (+) pressure spike in the containment building which in turn automatically initiated the containment spray system, a "shower" system designed to condense large amounts of steam in the event of a major pipe break. (The Three Mile Island Unit Two accident did not involve any major pipe breaks.) A side effect of the spray initiation (the system was only activated for five or six minutes before isolated by the operators) was that the spray contained a corrosive solution of sodium hydroxide and boric acid to remove iodine isotopes and to provide additional reactor shutdown capability, respectively, in the event of a major pipe break. The longer term effects of course, were due to very high (saturated) humidity conditions which persisted in the containment building for fifteen months after the accident until the first purging was allowed.

Essentially then, damage was due to hot gases and localized high temperatures from the hydrogen burn, corrosive effects of the spray solution, and immersion in a saturated atmosphere for a long period of time (it should be noted that the containment building basement contained nearly nine feet of highly contaminated water for almost three years after the accident).

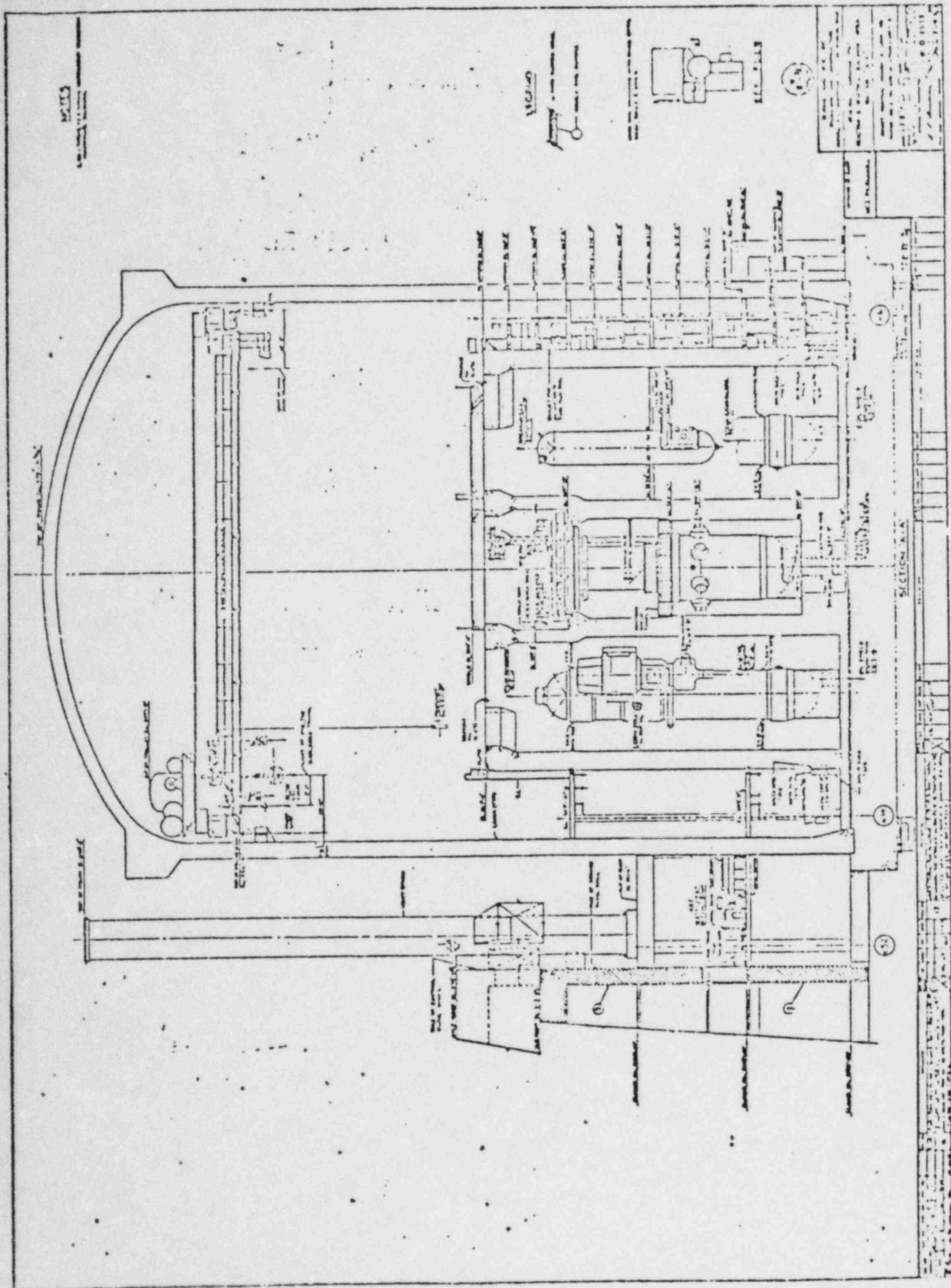
The damage path began in the basement (252' elevation), where hydrogen was first released through the reactor coolant system relief line. The hydrogen migrated up stairwells and elevator shafts to the intermediate elevations (305' elevation - containing major equipment and air handling units; 347' elevation - refueling track; 427' elevation - polar crane platform), and eventually to the reactor building dome (highpoint at 470' elevation). It is believed the burn was initiated by equipment in the upper elevations, and since a hydrogen flame tends to propagate upward, the majority of damage due directly to the burn and overpressure is seen in the upper elevations. (There are as yet no photographs of the basement area since it has been inaccessible due to high radiation and the submergence of equipment.)

Spray initiation occurred at the spray headers located in the reactor dome. Simply stated, all equipment located directly in the path of spray (principally the polar crane and components

PENTEK

on 347' elevation) were exposed to the spray solution. Equipments on 305' elevation were protected by the 347' elevation floor slab, with chemical spray due to some drainage through the 347' deck plates and via recirculation of the reactor building air by the air handling units.

Despite the harsh immediate environments and the longer term high humidity conditions, the protective coatings applied in Three Mile Island Unit Two performed exceptionally well (based upon visual observation) except for very localized areas.



DEPARTMENTAL CORRESPONDENCE

DATE February 10, 1981

Nuclear Coolings Performance - Containment Liner - TMI

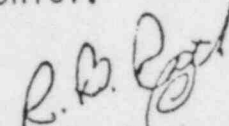
As noted below

R. B. Roth

I received a copy today of Bob Moore's letter to Al Roebuck, re the ASTM D-33 Committee, in which he quotes the recent trade and news release on the inspection of the Containment Liner coating at T.H.I., Unit #2.

The liner plate was the Carboline #368 Phenolic Epoxy. We sandblasted the plates on the ground and first coated, then touched up welds and finish coated in place. Concrete and masonry surfaces in Containment were Keeler & Long Epoxy.

Unit 2 work would be five to six years old, so I feel we have gotten a nice testimonial.

  
R. B. Roth

/1

To: R. R. Kerns  
J. H. Meyer  
J. D. Lauck  
R. J. Bodner  
G. Nelson  
✓ S. R. Wineman  
T. F. Rogers  
J. J. Norris

February 4, 1981

Dr. Al H. Reebuck, Chairman  
ASTM Committee D-33  
Fluor Engineers & Constructors Inc.  
3333 Michelson Drive  
Irvine, Calif. 92730

Dear Al:

Happy New Year! In case any ASTM or UNCWC members, or non-members, wonder if all the DBA, radiation and decontamination qualification testing at ORNL is worthwhile, please note the following excerpt from the Philadelphia Inquirer of 12/28/80, reporting on the condition of the TMI-2 containment interior:

"An easier cleanup job is expected because special epoxy paints throughout the interior have managed to weather the severe temperatures and moisture extremely well. Hovey (Gale Hovey, chief engineer) said that if they had cracked or flaked, cleaning would have meant painstakingly peeling off all the paint. Because the epoxy resin held up, Hot Ed workers have relatively smooth surfaces to scrub clean."

These epoxy coatings were manufactured by Carbolino and Keeler & Long, and applied by O.B. Cannon & Son of Phila., all of whom deserve much credit. (UE&C was the constructor of TMI Units 1 & 2). Certainly, the TMI-2 (corridors) containment temperatures and radiation levels must have exceeded any DBA test exposure of epoxy coated panels, either performed or conceived.

As for D33 meetings, Preston McAbee will represent us at Phoenix, and I plan to attend the New Orleans meeting. See you at CORROSION/81 in Toronto.

Sincerely,

*Robert E. Moore*  
Robert E. Moore  
Supervising Engineer  
Corrosion Engineering

REM/cbm

CC: Mr. Albert H. Levy

RECEIVED

FEB 10 1981

R.E. Moore, P.E.  
Supervising Engineer  
Corrosion Engineering



# Three Mile Island . . .

per hour.

"In all, radiation levels are about four or five times lower inside Unit 2 than we originally predicted," said Gale Hovey, the husky, dark haired chief engineer in charge of cleaning up Unit 2. "The predictions are almost always conservative, so we kind of expected to find actual readings much lower than that."

Hovey himself took part in the last Met Ed entry, on Dec. 11, when a 14-member crew stayed inside Unit 2 for 45 minutes. The color videotapes they made during that and a previous entry show a cavernous interior with little visible damage, despite a hydrogen gas explosion on the first day of the accident that would have destroyed a small building. Surfaces have corroded from the moisture, and from being sprayed on the first day of the accident with the corrosive chemicals of Unit 2's fire control system.

There is some evidence of the ex-

plosion. A steel door on the entry level that was apparently blown open violently by the blast is crushed, wedged between the heavy pipes it hit. The mouth of an elevator whose doors open vertically (half the door slides down, half up) suffers from malocclusion — the upper half of the door protrudes several inches over the lower half. Some empty steel drums were dented and crushed like soda cans. Telephones, wiring, and other instruments fashioned out of low-temperature plastics were melted and deformed.

"Still, the overall impression is that the explosion caused little or no serious structural damage," Hovey said. "The lid to the reactor vessel, up on the operating level, shows no structural damage at all."

An easier cleanup job is expected because special epoxy paints throughout the interior have managed to weather the severe tempera-  
(Continued on next page)

## . . . an eerie scene

Continued from preceding page  
tures and moisture extremely well. Hovey said that if they had cracked or flaked, cleaning would have meant painstakingly peeling off all the paint. Because the epoxy resin held up, Met Ed workers have relatively smooth surfaces to scrub clean.

Lower than expected radiation readings mean that Met Ed workers will be able to stay inside, when the cleanup begins, for longer stretches before being "burned out." But no cleanup work will proceed inside Unit 2 until the basement pool is cleaned and removed; that is the next big step Hovey and his crew face.

Met Ed currently lacks the money to proceed. The company has already spent millions building a submerged demineralizer system, the complicated device that will filter radioactive cesium and strontium from the basement water. The filtration system is

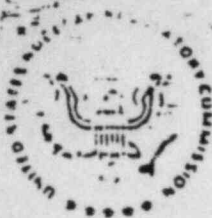
expected to be ready for use in April, but it has not yet been approved by the Nuclear Regulatory Commission (NRC). If the NRC staff opts for a different method of cleaning up the containment building flood, those millions already spent will be lost, and the cleanup will be further delayed.

So although another short entry into Unit 2 is scheduled for late January, actual cleanup operations are at a standstill. Other than some final mopping-up in the auxiliary building, the low, more conventional structure abutting the containment which houses support equipment, piping and machinery, Unit 2 will continue to sit.

The experts are hoping that further months of delay will not endanger those living near TMI, or communities farther down the Susquehanna River.

Late last month, Met Ed technicians discovered traces of radioactivity beaming up from a two-inch wide,





UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TEXAS 76011

RELATED CORRESPONDENCE

May 23, 1984

DOCKETED  
USNRC

Dockets: 50-445  
50-446

'84 OCT 22 P12:16

Texas Utilities Electric Company  
ATTN: M. D. Spence, President, TUGCO  
Skyway Tower  
400 North Olive Street  
Lock Box 81  
Dallas, Texas 75201

OFFICE OF SECRETARY  
DOCKETING & SERVICE  
BRANCH

6/18/84  
62

Gentlemen:

In January 1984, the NRC Region IV office began a special inspection of the coatings program at the Comanche Peak Steam Electric Station in response to allegations that had been received regarding the adequacy of the coatings. To assist us in this inspection, we have contracted with Brookhaven National Laboratory (BNL) for assistance in the onsite inspection program.

The principal purpose of this special inspection is to examine the adequacy of the applied protective coatings. Our contractors have now completed three trips to the Comanche Peak Steam Electric Station to review your procedures and practices for the application and inspection of protective coatings. In order to complete our review, we require additional information, as identified in Section III of the enclosed "Interim Report on Protective Coatings" prepared by Brookhaven National Laboratory, dated April 25, 1984. We request that you provide this to us within 30 days from your receipt of this letter.

As documented in the interim BNL report, our contractor has identified two general areas of concern which are summarized as items 2 and 3 of interim report Section V. Also within 30 days from the date of this letter, please respond to this office with your evaluation of the safety significance of these findings. Your response should address the specific concerns identified in the interim report and for each concern provide: (1) information that supports your position as to the safety significance of the concern, (2) a description of corrective actions that will be taken to alleviate safety questions associated with each significant concern, and (3) a description of actions that will be taken to prevent any safety significant concerns from recurring in the remaining coatings program work. Your response should also describe the actions that will be taken to modify the backfit program so that its conclusions will address the adequacy of applied coatings as far as the total coatings system is concerned.

Texas Utilities Electric Company

-2-

May 23, 1984

A copy of the April 25, 1984, interim BNL report has been filed with the ASLB and parties to the hearing.

The responses directed by this letter are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

Should you have any questions regarding this matter, please contact Mr. D. M. Hunnicutt at 817/860-8137 or me at 817/860-8248.

Sincerely,

*Richard L. Bangart*

Richard L. Bangart, Director  
Region IV Comanche Peak Task Force

Enclosure:

As stated

cc w/enclosure:

Texas Utilities Electric Company

ATTN: B. R. Clements, Vice

President, Nuclear

Skyway Tower

400 North Olive Street

Lock Box 81

Dallas, Texas 75201

Texas Utilities Electric Company

ATTN: H. C. Schmidt, Manager

Nuclear Services

Skyway Tower

400 North Olive Street

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Dallas, Texas 75201

BROOKHAVEN NATIONAL LABORATORY

ASSOCIATED UNIVERSITIES, INC.

Upton, Long Island, New York 11973

(516) 282-7005  
FTS 666

Department of Nuclear Energy

April 25, 1984

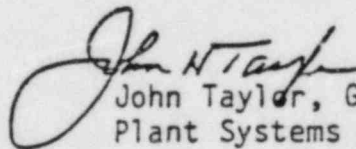
Mr. Eric H. Johnson  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011

Dear Eric:

Enclosed is Brookhaven National Laboratory's (BNL) report titled "Interim Report on Protective Coatings" for Comanche Peak Steam Electric Station (CPSES). The NRC comments in the draft report dated April 19, 1984 have been incorporated. This report also includes the requested information needed to assess the adequacy of applied coatings at CPSES.

We are currently in the process of preparing an additional report that will address each of the 60 allegations. We anticipate issuing this second report on or about April 30, 1984.

Yours truly,



John Taylor, Group Leader  
Plant Systems & Equipment Analysis Group

VL:JHT/ar

cc: R. Bari  
R. Hall  
F. Hawkins (NRC Reg. III)  
D. Hunnicutt (NRC Reg. IV)  
W. Kato  
H. Kouts  
V. Lettieri  
J. Oechsle

April 25, 1984

U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

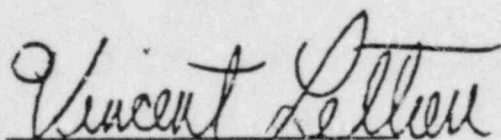
REGION IV

INTERIM REPORT ON PROTECTIVE COATINGS  
PREPARED BY BROOKHAVEN NATIONAL LABORATORY

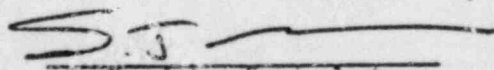
LICENSEE: Texas Utilities Generating Company  
2001 Bryan Tower  
Dallas, Texas 75201

FACILITY: Comanche Peak, Units 1&2  
Glen Rose, Texas

TECHNICAL SPECIALISTS:

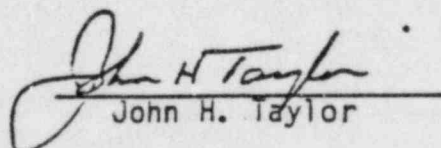
  
Vincent Lettieri

4/25/84  
(date)

  
S. John Uechsla\*

25 Apr 84  
(date)

APPROVED:

  
John H. Taylor

4/25/84  
(date)

\* Stephen G. Pinney and Associates



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## I. INTRODUCTION

This is an interim report in response to an NRC Region IV request to itemize the information that is necessary to assess the adequacy of the Applied Protective Coatings Backfit Program at Comanche Peak Steam Electric Station (CPSES), Units 1 & 2. That information is contained in Section III of this report.

The remainder of the report is organized as follows:

- Section II: Provides historical background related to CPSES and BNL's work to date
- Section III: Outlined above
- Section IV: Summary of findings to date
- Section V: Conclusions

The major portion of BNL's effort to date has been in evaluating approximately 60 allegations. A report on this subject is due April 30, 1984.

## II. BACKGROUND

There are two major reasons for applying protective coatings inside the reactor containment building. The first reason is to protect exposed carbon steel surfaces from corrosion. The second reason is to provide for easier decontamination, which also reduces the level of occupational radiation exposure.

If coatings are not properly applied and subsequently fail, they can have an adverse safety impact by clogging pump strainers, spray nozzles, and fan filters which can degrade safety equipment operation.

This is more than a theoretical concern since a number of protective coatings failures have occurred at nuclear power stations. For example:

- o Beaver Valley (1975) - During construction, the coatings failed on the containment dome.
- o Brunswick 2 (1980) - During operation, coatings failure occurred below the torus water line.
- o Dresden 2 (1971) - During operation, Torus coatings failure occurred.
- o Peach Bottom 2 (1971, 1973) - During preoperational testing, torus coatings failure occurred.

In 1981, Region IV of the NRC conducted an inspection of protective coatings at Comanche Peak. As a result of this inspection, (Inspection Report #81-15), a Notice of Violation was issued regarding failure to follow quality assurance procedures for the inspection of protective coatings. From late September 1979 through October 1981, documentation for protective coatings was not maintained or was incomplete. As a result of this Notice of Violation, Comanche Peak instituted a Backfit Program to verify that the applied protective coatings were themselves adequate even though adequate documentation did not exist.

Starting in 1983, numerous individuals have made allegations concerning the adequacy of the applied protective coatings at Comanche Peak.

Brookhaven National Laboratory (BNL) was contracted to provide technical assistance in performing on-site inspections of the protective coatings program at Comanche Peak. The work, as stated in the contract, is to "Provide technical assistance in performing an inspection of the protective coatings program at the specified NTOL nuclear power plant. This inspection will include the examination of site procedures and verification of the adequacy of these procedures against standards and FSAR commitments, the adequacy of applied coatings, the adequacy of rework, and the procedures governing rework, the adequacy of verification testing, and the adequacy of completed quality records. Also included in the scope of this task will be the followup on specific technical questions contained in sworn testimony from persons making allegations of the adequacy of the protective coatings program."

The responsibility for reviewing the statistical adequacy of the licensee's Backfit Program, (i.e., sampling techniques, acceptance criteria, etc.) has been assigned to the NRC Auxiliary Systems Branch. With the concurrence of NRC Region IV, a meeting was held between ASB and BNL on April 2, 1984. The outcome of this meeting was that additional statistical information is required. This information has been incorporated into Section III of this report.

### III. INFORMATION REQUIRED TO DETERMINE ADEQUACY OF APPLIED PROTECTIVE COATINGS THROUGH THE BACKFIT PROGRAM

Based on interviews with various personnel on the licensee's staff, it is BNL's understanding that the Backfit Program is limited to the primer coatings applied prior to the NRC's issuing Notice of Violation, Inspection Report No. 81-15. That is to say, no statistical analysis of Elcometer adhesion pull tests and Tooke Scratch tests was performed for coatings applied since the NRC issued its violation and for the top coat that has been applied since the coatings application first began. Therefore, if this understanding is accurate, BNL does not believe that the Backfit Program will be useful in determining the adequacy of applied coatings as far as total coating system is concerned. It is understood that in some if not all cases, the testing may have been performed for the total system. However, the licensee chose to perform a statistical analysis only in regard to the primer coat, and does not address the statistical significance of test results for the total coatings system. This will be resolved when the required information is supplied by the licensee.

## Information Required

Note: The information requested in this section should be provided in reviewable form to BNL or made available at the site.

### A. Programmatic

1. Provide the document or series of documents that explains the Backfit Program in its entirety.
2. What is the estimated total square footage of applied coatings in Unit 1 containment? What portion of the total applied coatings represents coatings applied to concrete surfaces, miscellaneous steel and containment liner plate?
3. Provide the location and boundaries and define all areas that have been exempted from the Backfit Program. Also provide the justification for the exemption.
4. Provide the percentage of the three major areas (see Question 2), that was included/exempted in the Backfit Program.

### B. Training

5. Provide the operating procedure for instruments used during the Backfit Program.
6. Provide indoctrination and training records that demonstrate that those individuals performing testing for the Backfit Program were qualified.
7. Provide procedure reference for field checking of instruments during the Backfit Program.

### C. Instrumentation and Testing

8. Provide instrument history/calibration records of each instrument used in the Backfit Program.
9. Provide the method used to evaluate and account for instruments found to be out of calibration during the Backfit Program. How was and is the deviation incorporated in reporting Elcometer Adhesion Test results?

Additionally, for an instrument found out of calibration, provide documentation that shows that all tests done with that instrument since its last calibration were invalidated. Also, provide the procedure used to handle those inspection reports written after the instrument went out of calibration.

10. If not provided in the answers to Questions 7 and 8, provide the total number of instruments used in the Backfit Program. Provide the type and serial number of each instrument.



#### D. Statistical

11. Provide the total number of individual pull tests performed and number of individual pull tests that failed for each of the three major areas (see Question 2).
12. Provide the final calculations for each of the three major areas (see Question 2) that demonstrate the estimated failure rate with its associated confidence limits, for each of the three major areas individually.

#### IV. FINDINGS RELATED TO THE ADEQUACY OF APPLIED PROTECTIVE COATINGS.

##### A. Testing

1. BNL has performed independent tests on the protective coatings at the site. On a random basis, 6 areas of approximately one hundred (100) square feet were chosen at various elevations and various azimuths. Two areas represented liner plate, two areas represented miscellaneous steel and two areas represented concrete surfaces. In each area, five (5) test dollies of approximately 1/2 square-inch were glued to the protective coatings and a pull of 250 psi was applied to the test dollies. If a dolly separated from the surface, the force that caused the separation was recorded. If the dolly did not pull off the surface at 250 psi, a reading of 250 psi was recorded and the dolly was knocked off of the surface after the instrument had been returned to a reading of zero and removed.

For the liner plate, a failure rate was exhibited of 4 out of 10, or 40%. Failures occurred in both test areas with corrected readings of 156, 186, 186, and 186. For miscellaneous steel, no failures were recorded in ten (10) tests, and for concrete surfaces, a failure of the concrete was experienced with a corrected reading of 156 psi for one test and no failures of the protective coatings in nine (9) tests.

In addition to Elcometer adhesion pull tests, 30 Tooke (scratch) tests were performed adjacent to the pull tests. No "out of specification" conditions were recorded in the dry film thicknesses testing.

BNL's observed failure rate for the liner plate is unacceptable. Although it was limited in scope, it raises questions about the adequacy of the Backfit Program for the liner plate.

2. During the week of March 18, 1984, BNL observed an area at approximately elevation 860 and azimuth 175 of the liner plate that was being repaired because of recent unacceptable adhesion test readings and visible deterioration. This same area had acceptable adhesion test readings during initial backfit testing in December 1982. This again raises doubts about the adequacy of the Backfit Program for the liner plate.

## B. Procedural

3. Contrary to good industry practice, solvent has been used excessively to wipe down primed surfaces prior to the top coat application. Excessive solvent retention will inhibit the curing of inorganic films and can lead to coatings failure under operating conditions. The licensee's procedures do not provide direction or caution on solvent use, nor is there evidence of proper training to this effect. In three areas of coating system failures on the containment liner plate, BNL observed a solvent odor that was far in excess of what would be considered normal.

4. Contrary to CPSES FSAR Section 1A(B), Regulatory Guide 1.58, and ANSI/ASME N45.2.6-1978, Section 4 and Table 1, Level 1 Coatings QC Inspectors have been making judgments and evaluations that they are not qualified to make.

Examples of this were evident in procedures where level I inspectors were:  
a) evaluating surface preparation without instruments or approved visual standards, b) evaluating the adequacy of coatings materials when its "pot life" had been exceeded, and c) evaluating the acceptable extent of overlapping dry spray beyond the specific areas to be coated.

5. Contrary to Gibbs & Hill, Inc., Protective Coatings Specification No. 2323-AS-31, Revision 1-March 15, 1978 for CPSES, Section 6.1 b and Brown and Root, Inc. letter BRV-12605, dated May 7, 1981 to Tim Dolen, Carboline Company from D. C. Frankum, Project Manager, proper surface preparation was not achieved. Instruction Number QI-QP-11.4-5 allows 80 grit "flapper wheels" versus the 60 grit "flapper wheels" used to qualify surface preparation.

6. BNL has identified numerous procedural deficiencies. A summary of some of the more serious deficiencies follows:

- a) Contrary to good industry practice and 10 CFR Part 50, Appendix B, Criterion V;
  - 1) The procedures are not "stand-alone" documents, acceptance criteria are found in other referenced documents.
  - 2) Procedures such as Instruction Number QI-QP-11.4-1, and QI-QP-11.4-5 requires a flashlight to be held perpendicular to the inspection surface only. Proper inspection technique would require a light to be positioned parallel to the surface to locate certain types of defects. Additionally, the minimum light required is not specified.
  - 3) Procedure QI-QP-11.4-1, paragraph 3.1.2, states that for abrasives "... All grease, oil, and deleterious material is unacceptable", and yet provides no methods to determine if these materials are present. The procedure also does not define deleterious material.



- b) Contrary to 10 CFR 50 Appendix B Criterion V and CPSES FSAR, paragraph 17.1.1.5, the final coatings walkdown procedure contained no acceptance criteria and did not contain appropriate instructions regarding hiding quality, cracking, delamination, peeling, excess overspray, excessive roughness, flaking, blistering, or cracking. In conjunction with inadequate inspection procedures, this could allow acceptance of inadequate coatings.
- c) Contrary to CPSES FSAR, page 1A(B)-22; R. G. 1.54, and ANSI N101.4-1972, paragraph 4.4.3, CPSES coatings procedures allow wet splatter to remain on metal surfaces. This could contribute to coatings failure.
- d) Contrary to CPSES FSAR, page 1A(B)-22; R. G. 1.54, and ANSI N101.4-1972, paragraph 5.2.2, CPSES coatings procedures provide for the writing and approval of special coatings procedures, without approval of the coating manufacturers.
- e) Contrary to CPSES FSAR, paragraph 6.1B.2 and ANSI N.101.2, coatings applied over "drypack" concrete repairs were not DBA-qualified. Additionally, the "drypack" does not appear to meet paragraph 6.4 of ANSI N101.2-1972.

C. Documentation/Design Control

- 7) Based on a brief review of Design Change Authorizations (DCA's) written in the coatings area, it does not appear as though Quality Assurance is included in the review and approval chain, as would be required by 10 CFR 50 Appendix B, Criterion III. Also, there is no formal mechanism to ensure that users of controlled copies of the Coating Specification have received and are aware of all applicable DCAs. Finally, there is no requirement for specification revision after DCA's have been issued against it, either based on time or number of DCA's. Additional review in this area is needed to determine how quality is assured in the DCA program.
- 8) Contrary to FSAR Section 6.1B.2, ANSI N101.2, Section 4, a number of coatings systems have been specified and used that have not been qualified. After identification of this by BNL, the licensee has committed to submitting these coatings systems to the appropriate testing.
- 9) Contrary to FSAR Section 1A(B), Regulatory Guide 1.54 Section C.4, "STAF Hospital Spray Disinfectant", an aerosol containing chloride was used by painters inside containment where stainless steel is located.
- 10) A number of the 60 allegations against CPSES's protective coatings have been substantiated and additional allegations may be substantiated. The status of all 60 allegations will be stated in a follow up report due April 30, 1984.

## V. SUMMARY AND CONCLUSIONS

1. An adequately conceived and properly implemented Backfit Program will permit an evaluation of the applied coatings at Comanche Peak. The information requested in Section III of this report will permit an assessment of the licensee's Backfit Program.

2. As demonstrated in Sections IV B and C, the coatings procedures and design control for coatings at CPSES appear to be inadequate to assure the specification of proper coatings systems and the application of coatings, once they are specified. As such, no determination can be made as to the adequacy of coating for the following applications: a) any repair work completed subsequent to the backfit testing, b) coating applications not included in the scope of the Backfit Program, and c) all coating work for Unit No. 2.

3. As stated in Section IV A, and further reinforced by conclusion number 2, the liner plate coating appears to be inadequate.