



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

OCT 25 1989

MEMORANDUM FOR: C. I. Grimes, Director
Comanche Peak Project Division
Office of Nuclear Reactor Regulation

FROM: R. F. Warnick, Assistant Director
for Inspection Programs
Comanche Peak project Division
Office of Nuclear Reactor Regulation

SUBJECT: COMANCHE PEAK CHRONOLOGY FOR JULY, AUGUST, AND
SEPTEMBER 1989

The 1989 Comanche Peak chronology for July, August, and September is enclosed. If you recognize any significant activities that we have failed to include in the chronology, please let me know and we will add them.

RF Warnick

R. F. Warnick, Assistant Director
for Inspection Programs
Comanche Peak Project Division
Office of Nuclear Reactor Regulation

Enclosure: Comanche Peak Chronology

cc w/enclosure:
RMartin, RIV
JCallan, RIV
PMcKee
JLyons
JWilson
HLivermore
JWiebe

Handwritten initials: A/S

COMANCHE PEAK CHRONOLOGY - 1989

- 7/2-3 Ray Azua and Jeet Singh were onsite for the CILRT preparations.
- 7/3 Bitter assisted RIV by overseeing an operator requalification examination.
- 7/3, and Pellet, Whittemore, Kennedy (RIV), and Vinson
5-7 (consultant) were onsite to administer operator requalification examinations. All 12 taking the exam passed. Their exit was held on 7/7 and attended by Warnick and Wiebe.
- 7/4 Holiday.
- 7/5 NRC exit. A dry run was held earlier in the day.
- 7/6 Staff meeting.
- 7/6 Bob Vickrey RIV was onsite to get badged in preparation for participating in the onsite team inspection of procedures.
- 7/6 Azua and Singh were onsite for inspection of the CILRT. The measured leak rate was about 1/3 of the allowable leak rate.
- 7/6-7 Chris Grimes onsite. He was in RIV the morning of 7/6 to meet with an allegor; however, the allegor failed to show up.
- 7/7 A meeting that was open to the public was held with TUE management to discuss the TUE audit TSU 89-01 of the hot functional testing and the associated TUE identified audit deficiencies in the procurement of spare parts for a charging flow control valve.
- 7/10 TUE met in RIV with RIV to discuss emergency evacuation and accountability procedures.
- 7/10 Warnick met with Streeter to discuss Streeter's philosophy about changing draft audit reports before they are issued as final audit reports.
- 7/10 Issued the AIT Inspection Report 50-445/8930, 50-446/8930.

- 7/10-14 Caldwell (RIV) onsite for a security inspection.
- 7/11 Wiebe met with Kelley (Operations Manager) and his managers to discuss readiness for plant operation.
- 7/12 HQ's meeting with TUE on Tech Specs.
- 7/12-17 Warnick in HQs for ACRS meeting and TUE/NRC meeting on the power ascension program.
- 7/13 Livermore, Latta, and Dale met with CASE (Ottney and Thero) TUE (corporate security representative) and an allegor in Glen Rose to learn of his concerns.
- 7/14 ACRS meeting on Comanche Peak.
- 7/14 Shannon Phillips retired.
- 7/16-17 Wiebe in HQ for power ascension program meeting.
- 7/17 NRC/TUE public meeting in HQs on the power ascension program changes proposed by TUE.
- 7/17-19 Jim Lyons and Guiliano DeGrassi (consultant) were onsite to complete the audit of the TDI owners group recommended changes to the emergency diesel generators. Warnick attended the exit on 7/19.
- 7/17-21 Larry Ricketson was onsite for a Radiation Protection inspection.
- 7/17-24 Bitter was at South Texas and Evans was at Comanche Peak as part of the NRC backup plant assignment exchange visit.
- 7/17-27 Harry Kerch, Harris, and Oliver (RI) were onsite for an inspection of the preservice and inservice inspection programs.
- 7/17-27 A special team inspection of operations and maintenance procedures was conducted by Burris (17-27), Bitter (24-27), Nelson of the Technical Training Center (24-27), Vickrey of RIV (17-27), and Evans of the South Texas Project NRC resident office (17-21 and 26-27).
- 7/18 Warnick and Wiebe were in RIV to meet with RIV (Milhoan, Gwynn, Jaudon, and Chamberlain) and NRR (Vandenberg and Ball) to discuss the upcoming operational readiness inspection.
- 7/18-19 Jim Gagliardo, Jim Cummins, Bartlett, and Bryan were

- onsite to be badged and to prepare for the upcoming Emergency Operating Procedures inspection.
- 7/18-21 Bill Johnson was onsite for badging and familiarization. He will replace Steve Burris as the SRI, Operations.
- 7/19 Warnick and Vandenberg met with Cahill, Bruner, Beck, and Walker to discuss the planned NRC operational readiness team inspection.
- 7/19-20 HQ's meeting with TUE on inservice testing.
- 7/19-20 Vandenberg and Ball onsite to prepare for and to assess TUE's readiness for an operational readiness team inspection.
- 7/20 Staff meeting.
- 7/20 Warnick, Livermore, and Birmingham met with Hogg, Radicon, Guldemond, and others to discuss NRC concerns with the flaws in the procurement process identified by TUE audit TSU 89-01.
- 7/20 Warnick, Livermore, and Richins met with Jenkins, Heatherly, and others to discuss the TUE erosion/corrosion program.
- 7/21 Warnick and Livermore met with Cahill, Bruner, Scott, and Hogg to discuss current activities and concerns.
- 7/21 Wiebe attended Ricketson's inspection exit.
- 7/21 Warnick, Livermore, Latta, Runyan, Stanish, and Chen met with Hogg and a TUE consultant, and others to discuss the applicant's actions on the check valve rocker arms.
- 7/24 Warnick met with Mike Riggs, Performance Evaluation, to discuss the NRC participation in the evacuation and also TUE's self identification of operational weaknesses.
- 7/24-27 An NRC team from RIV and HQ was onsite to witness TUE's graded emergency exercise on 7/25 and 7/26. Wiebe and McKee participated as observers. Warnick attended the exit on 7/27.
- 7/24-28 Norkin was onsite to lead the third team inspection of the CAP reconciliation. Warnick and Livermore attended the exit on 7/28.
- 7/24-28 McKee onsite for the emergency drill and other onsite work.

- 7/25-26 TUE emergency drill and site evacuation.
- 7/26 Warnick met with Cahill, Bruner, and other TUE staff to discuss the TUE weekly status report and particularly the curves that are indicating completion after 10/2/89.
- 7/27 Wiebe was in RIV to participate in the weekly RIV management meeting to discuss the status of each plant and planned inspection.
- 7/27 Pat Gwynn of RIV was onsite to become acquainted with the site, the NRC site staff, and TUE management. (He met with Cahill, Bruner, and Scott).
- 7/27 Exit for the Region I preservice and inservice inspection. Warnick and Livermore attended.
- 7/27 Exit for the operations and maintenance procedures inspection. Warnick and Wiebe attended.
- 7/27 Meeting in HQ between NRC and TUE on RHR thermal stratification.
- 7/27 Exit for the Terc's emergency drill inspection. Warnick and Wiebe attended.
- 7/27 Public meeting in Glen Rose sponsored by FEMA to discuss the emergency drill at CPSES and State and local responses. Warnick, Wiebe, and McKee attended.
- 7/28 Exit for Norkin's third team inspection of the CAP design reconciliation. Warnick and Livermore attended.
- 7/28 Warnick and Livermore spent an hour on the phone with David Real of the Dallas Morning News answering his questions on the AIT inspection report.
- 7/28 Warnick, Wiebe, Burris, and Bitter met with Jim Kelly to discuss Kelly's comments that he made at the maintenance/operation procedure inspection exit and Kelly's feelings about the procedures and the NRC team's findings.
- 7/28 Warnick, Livermore, and Dale met with CASE (Thero) and Jackson to discuss the welder's allegations.
- 7/31 Meeting in HQ between TUE and NRC to discuss FSAR changes.
- 7/31-8/1 Denny Crutchfield and Ted Quay onsite to meet with the NRC staff and TUE management.

- 7/31-8/4 Jim Kelly (RIV) onsite to perform a security inspection.
- 8/1 NRC exit for July inspections. Practice exit earlier in the day. Crutchfield and Quay attended the practice exit.
- 8/1 Crutchfield, Quay, and Warnick met with Bruner, Scott, Beck, Hogg, and Walker to discuss plant work and schedule for fuel load.
- 8/1 Meeting between NRC and TUE in HQ to discuss Operations QA program.
- 8/2 Staff meeting.
- 8/3 Crutchfield conference call.
- 8/3 Wiebe in RIV for plant status briefing.
- 8/4 Warnick met with CASE (Garde) to discuss the preservice inspection exit.
- 8/4 Wiebe attended the RIV (Kelly) Security inspection exit.
- 8/6 Johnson transferred to CPSES effective this date.
- 8/7-11 EQ team inspection led by George Hubbard. Entrance at 1:00 pm on 8/7 attended by Livermore.
- 8/8 Johnson onsite.
- 8/8 RIV meeting with utility senior management at the University of Texas in Arlington. Grimes attended for CPPD.
- 8/9 Grimes meeting with Scott to discuss project status.
- 8/9 Grimes meeting with Cahill to discuss project status.
- 8/9 Warnick & Johnson attended the 7:00 am status meeting.
- 8/9 Staff meeting.
- 8/9 Warnick, Livermore, Stanish, & Runyan met with Hogg & Bagale to discuss check valve rocker arm metallurgy problem.
- 8/9-10 Grimes onsite.
- 8/10 TUE completed the Integrated Test Sequence mile stone.
- 8/10 Grimes & Johnson attended the 7:00 am status meeting.

- 8/10 Grimes and Warnick attended the weekly project status meeting to discuss the Yellow Book curves.
- 8/10 Wiebe in RIV for plant status briefing.
- 8/10 Grimes, Warnick, Stanish & Runyan met with Hogg, Terry Bagale, and others to hear a report by the TU consultants on the rocker arm metallurgy problem.
- 8/11 Hale's last day onsite. He transferred back to RIV effective 8/13/89.
- 8/11 Exit for EQ team inspection. Warnick and Livermore attended.
- 8/11 Exit for C.C. Williams inspection.
- 8/11 Warnick, Wiebe, Johnson, Burris, & Bitter met with Jim Kelley, Joe Donahue, and others to discuss Operations and Maintenance procedures.
- 8/11 Burris' last day. He transferred to Watts Bar as a Senior Reactor Inspector.
- 8/14-25 EOP team inspection. Entrance meeting attended by Wiebe.
- 8/14-18 Security inspection (Kelly, Earnest, & Manelli). Warnick & Wiebe attended entrance meeting.
- 8/16 Staff meeting.
- 8/16 Pat Gwynn onsite.
- 8/16 Allegation Review Committee meeting via conference call (McKee, Lyons, Warnick, & Livermore).
- 8/16 Warnick, Wiebe, Johnson, Bitter, & Gwynn met with Kelley, Donahue, Blevins, Ellis, Weiland, Laughlin, Davis, & Kross to discuss current operations activities. Scott attended part time.
- 8/17 Conference call.
- 8/17 Wiebe in RIV to discuss plant status.
- 8/18 Warnick, Wiebe, Livermore, & Johnson met with Cahill, Burner, Scott, & Beck to discuss current topics.
- 8/18 TUE issued it's response to the AIT report.
- 8/18 Lyons in Fort Worth for Macktal supeona and hearing.

- 8/18 Warnick and Livermore met with Streeter, Maxwell, Thompson, and others on rocker arm work and NRC perception of TUE lack of control and failure to identify nonconforming conditions on valve parts.
- 8/21-25 SQRT team inspection. Herb attended entrance.
- 8/21 RFW attended the 7:00 am plant status meeting.
- 8/21 RFW participated in a quality survey by Louis Harris & associates.
- 8/22-25 PVORT inspection.
- 8/22 Warnick & Birmingham attended the Sr. QA Overview Committee meeting.
- 8/22 John Salsman & Greg Bell were in RIV to meet with Dale Power & Nemen Terc to discuss the upcoming September evacuation in which TUE will demonstrate that they can account for site personnel.
- 8/23 Staff meeting.
- 8/23-25 VanDenburg & Bell onsite. Lanning onsite 23 & 24 to evaluate and establish the time frame for NRR to assess TUE readiness for an operating license.
- 8/23 VanDenburg, Bell, Lanning, & Warnick met with Cahill, Scott, Beck, Terry, Devinny, and Wade Melton to discuss TUE readiness for an operating license and the appropriate time frame for the NRC readiness inspection.
- 8/23 Livermore and Stanish met with Muffet and other TUE staff to discuss closing out problems based on analysis of some limiting worst case.
- 8/24 Conference call.
- 8/24 VanDenburg, Ball, Lanning, Grimes, and Warnick attended the 8:00 am Yellow Book meeting.
- 8/24 Chris Grimes onsite to attend VanDenburg meeting with Cahill, Spence, Scott, and Beck.
- 8/24-25 Jim Lyons onsite for EOP, SQRT, and PVORT exits.
- 8/24 Warnick, Livermore, and Johnson met with L.Terry, Kross, Tyler, and Guldemond to discuss priority 3 & 4 DMRCs.
- 8/24 Grimes, Lanning, VanDenburg, Ball, Warnick, & Johnson met with M. Spence, Cahill, Beck, Scott, Walker, Devinny, and

- Ferguson to discuss appropriate date for the operational readiness inspection.
- 8/25 Warnick and Livermore attended the PVORT exit and the SQRT exit.
- 8/25 Warnick and Wiebe attended the EOP team inspection exit.
- 8/25 Warnick, Powers (RIV), and Earnest (RIV) met with Blevins, Lancaster, Scoggins, and others to discuss security officers work hours.
- 8/25 Warnick attended the 7:00 am plant status meeting.
- 8/29 Warnick and Wiebe attended training in RIV on assessing licensee management performance.
- 8/30 Staff meeting.
- 8/30 Warnick met with Beck and Streeter to discuss the performance of the quality organization.
- 8/30 Warnick, Livermore, and others met with Terry, Rau, Streeter, and others on NRC findings regarding room and area turnovers.
- 8/31 Conference call.
- 8/31 Warnick attended the weekly Yellow Book meeting to monitor site construction progress.
- 8/31 Warnick and Livermore met with Garde, Ottney, and M. Theo on Jackson concerns.
- 8/31 Warnick, Wiebe and others met with John Greene and others to discuss deletions and changes to the preoperational test and the acceptance tests.
- 9/1 Grimes conference call to discuss actions before OL.
- 9/1 Livermore and his inspectors met with TUE staff to discuss check valve status.
- 9/1 Warnick, Wiebe, Johnson, and Bitter met with Donahue and other TUE staff to discuss the operations labeling program.
- 9/4 Holiday - Labor Day.
- 9/5 Exit for the August inspections. A practice exit was held earlier in the day.

- 9/5 Meeting in HQ between TUE and NRC HQ staff to discuss the Criner tectonic structure in Oklahoma.
- 9/5 Warnick met with L. Terry and M. Blevins to discuss the status of room, area, and system turnovers.
- 9/5-8 Earnest (RIV) was onsite for a security inspection.
- 9/6 Staff meeting.
- 9/6 Warnick, Wiebe, and Earnest met with Lancaster, Walker, Scoggins, Blevins, Terry, and other TUE staff to discuss security lockdown and associated problems.
- 9/7 Wiebe in RIV to brief management in status of CPSES.
- 9/7 HQ conference call.
- 9/7 Warnick and Wiebe met with Cahill, Brunner, Scott, Beck, Terry, and Hogg to discuss current site activities and projected readiness to operate the plant.
- 9/8 Grimes conference call to discuss actions before OL.
- 9/8 Warnick met with Kelley, Terry, Rau, and Daly to discuss the recent improvement in TUE's schedule for FL.
- 9/8 Warnick attended Earnest's security inspection exit.
- 9/11 Conference call between HQ (McKee, Manelli, and Bush), RIV (Beach and Earnest), and the site (Warnick) to discuss CPSES lockdown timing.
- 9/12 Warnick met with TUE staff to discuss TUE planned audit of security lockdown.
- 9/12 Warnick met with Ottney and Thero of CASE at their request to explain the NRC tracking of items that must be closed by NRC before OL.
- 9/12 Livermore, Runyan, Latta, and Richins met with TUE staff to discuss the status of TUE check valves.
- 9/13 Staff meeting.
- 9/13 Allegation Review Committee meeting at the site. Pat Gwynn (RIV) participated by telephone.
- 9/13 Joe Birmingham met with TUE staff to discuss past procurement practices.

- 9/13 Warnick met with Reynerson to discuss TUE actions on employee concerns expressed by Linda Porter, an ex-TUE contract employee. The concerns involved asbestos in paint and solvent damage to electric cables.
- 9/14 Wiebe was in RIV to brief RIV management on status of CPSES.
- 9/14 HQ conference call.
- 9/15 Grimes conference call to discuss actions before OL.
- 9/18 Murley, Grimes, Montgomery, Gwynn, and Burnett onsite for plant tour and meetings with NRC staff and TUE management.
- 9/18 Murley and Grimes attended the 7 a.m. TU Electric plan-of-the-day meeting.
- 9/18 Murley, Grimes, Montgomery, Gwynn, Burnett, Warnick, Wiebe, Johnson, and Bitter met with Kelley and his staff to discuss TUE readiness for operations.
- 9/18 Murley, Grimes, Montgomery, Gwynn, Burnett, and Warnick met with Cahill, Bruner, Scott, and Beck to discuss TUE readiness for operations.
- 9/18 Murley, Grimes, Montgomery, and Warnick met with Garde, Ottney, and Thero of CASE to discuss CASE concerns with TUE management.
- 9/18 Jim Lyons, Livermore, Latta, and Van Cleve (OI) met with Macktal in RIV to discuss his safety concerns. The meeting was transcribed by a court reporter.
- 9/19 SALP Board met at the Plantation Inn.
- 9/20 Staff meeting.
- 9/20 Warnick, Livermore, Runyan, Latta, and Richins met with Guldemon and Heatherly to discuss the NRC request for additional information regarding the AIT AFW check valve inspection findings.
- 9/22 Warnick, Livermore, and Wiebe met with Cahill, Bruner, Scott, and Hogg to discuss current activities and TUE readiness for operations.
- 9/25 The NRC vendor branch and the site NRC staff participated in a conference call to discuss HQ concerns with the Borg-Warner check valves and vendor practices.

- 9/25-29 Blair Nicholas and the RIV chemistry van was on site for a confirmatory measurements inspection. Johnson attended the exit on 9/29.
- 9/27 Staff meeting.
- 9/27-29 Livermore on emergency annual leave.
- 9/28 Latta was in RIV. He and Russ Wise met with Lahoti and Betty Brink (CFUR) to discuss Lahoti's safety concern.
- 9/28 Wiebe in RIV to brief RIV management on CPSES.
- 9/29 Warnick, Wiebe, and Johnson met with TUE staff to discuss containment spray system cleanliness and the grinding wheel found in the system.
- 9/29 NRC consultant Jimmy Dale's last day working for the NRC.