

TEXAS UTILITIES GENERATING COMPANY
SKYWAY TOWER • 400 NORTH OLIVE STREET, L.B. 81 • DALLAS, TEXAS 75201

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August 24, 1984

Director of Nuclear Reactor Regulation
Attention: Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION
DOCKET NOS. 50-445 AND 50-446
RESPONSE TO HUMAN FACTORS CONTROL ROOM
DESIGN REVIEW IMPLEMENTATION AUDIT

Dear Sir:

During the week of July 30, 1984, an implementation audit was held at Comanche Peak Steam Electric Station (CPSES) to audit the status of Texas Utilities' efforts to resolve identified Human Engineering Deficiencies (HED's) and to discuss those actions necessary with respect to the CPSES Detailed Control Room Design Review (DCRDR) or Preliminary Design Assessment (PDA) that must be completed to issue an Operating License (OL) for CPSES. At the conclusion of the audit, a list of less than 50 HED's remained to be closed and several items required clarification. As discussed during the audit, any items that were not adequately closed or clarified by August 27, 1984, would probably be included in a license condition that required completion by a given time or as part of the DCRDR. The SER would recommend the OL for CPSES on the basis of a PDA.

This letter provides the requested August 27, 1984, information. The status of the HED's and the requested clarifications are attached. If you have any questions, please call Don Woodlan of my staff.

Respectfully,

Don Woodlan for

H. C. Schmidt

DRW:tIs
Attachments

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PDR ADCK 05000445
A PDR

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ATTACHMENT A

<u>HED NUMBER</u>	<u>STATUS</u>	<u>COMMENT</u>
3	Open	9-21-84 (6)
42	Open	(1)
59	Open	(2)
68	Open	9-21-84 (6)
80	Open	8-30-84 (6)
88	Open	10-1-84 (6)
93	Open	9-21-84 (6)
103	Closed	(4) 8-23-84
106	Open	8-30-84 (6)
120	Open	9-21-84 (6)
122	Open	9-21-84 (6)
130	Open	9-15-84 (6)
137	Closed	(4) 8-23-84
151	Open	(5)
154	Open	(1)
170	Open	(1)
179	Closed	(4) 8-23-84
181	Open	8-30-84 (6)
183	Closed	(5)
184	Open	10-1-84 (6)
200	Open	(5)
201	Closed	(4) 8-24-84
203	Closed	Clarification requested. See Attachment B.
214	Open	9-15-84 (6)
225	Open	8-30-84 (6)
226	Open	8-30-84 (6)
267	Open	9-15-84 (6)
269	Closed	(4) 8-23-84
285	Closed	Clarification required. See Attachment B. (4) 8-23-84
307	Closed	Clarification requested. See Attachment B.
308	Open	(2)
310	Open	(2)
311	Open	(2)
321	Open	8-30-84 (6)
338	Closed	(4) 8-23-84
342	Open	(5)
345	Open	9-15-84 (6)
346	Open	(2)
347	Open	(2)
348	Open	(1)
349	Open	(1)
352	Open	(1)
353	Open	(3)
354	Open	(5)

- (1) Action Required. To be closed by follow-up lighting survey. (Estimate completion during first quarter of 1985).
- (2) Action Required. To be closed by follow-up noise survey. (Estimate completion during first quarter of 1985).
- (3) Action Required. To be closed by follow-up environmental survey. (Estimate completion prior to end of 1984).
- (4) Resident Inspector confirmed closure on noted date.
- (5) Final response and closure deferred to the DCRDR.
- (6) Date estimated that item will be ready for confirmation of closure by the Resident Inspector.
- (7) An HED on the phone cords at the main control panels was closed but still of concern. Action being considered includes adjusting the tension of the retractor and installing ball-stops on the phone cord.

A. HED DESCRIPTION

Decimals are used on scale numbers.

B. GUIDELINE REFERENCE

NUREG/CR-1580: VD-63.

C. LOCATION

CB-09.

D. POTENTIAL SAFETY CONSEQUENCES

None.

E. ASSESSMENT PROCESS

No assessment necessary.

F. BACKFIT

Decimals will be eliminated on these scales by using a smaller scale multiplier (i.e., 10^3 rather than 10^6). The exception is on CB-08 where decimal points are used with the 10^6 scale multiplier. In this case, the indicator with the decimal point is in a bank of indicators which all have a 10^6 scale multiplier. The same multiplier is used here for clarity.

A. HED DESCRIPTION

Layout of electrical distribution system controls/indicators is mirror-imaged.

B. GUIDELINE REFERENCE

NUREG-0700: 6.8.2.3

C. LOCATION

CB-11

D. POTENTIAL SAFETY CONSEQUENCES

Misoperation of Diesel Generator controls

E. ASSESSMENT PROCESS

1. Reviewed feasibility of rearranging components.
2. Reviewed operability of panel in its present layout.

F. BACKFIT

The electrical distribution system controls are best mimicked in a "mirror-image" layout. Demarcation and hierarchical labeling was added to the electrical distribution system indicators to enhance their layout and improve control/display intergration.

Diesel Generator controls will be demarcated out of the mimic. The benefits of rearranging the layout of the Diesel Generator 1 controls, is not great enough to warrant making the change.

A. HED DESCRIPTION

Shared alarms are duplicated in each control room.

B. GUIDELINE REFERENCE

NUREG-0700: 6.3.1.2.d.(1) and (2)

C. LOCATION

Control Room

D. POTENTIAL SAFETY CONSEQUENCES

Failure to react to alarm.

E. ASSESSMENT PROCESS

Alternatives were assessed to improve operator response to alarms.

F. BACKFIT

Unit 2 alarm response procedures will address how the Unit 2 operator should respond to these shared alarms in cooperation with the Unit 1 operator, Unit 1 response procedures will not be affected by the existence of Unit 2 response procedures for these shared alarms.