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6212DIN8-013-391

PUBLIC SERVICE COMPANY OF OKLAHOMA

A CENTRAL AND SOUTH WEST COMPANY

P.O. BOX 201 / TULSA, OKLAHOMA 74102 / (913) 583-3611



Public Service Company of Oklahoma
Black Fox Station Units 1 and 2
Miscellaneous Clarifications:
 Containment Elevator
 Ultimate Heat Sink Cooling Towers
Docket STN 50-556
 STN 50-557

November 10, 1978
File: 6212.125.3500.32 L

Office of Nuclear Reactor Regulation
Division of Project Management
Light Water Reactors Branch No. 4
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Steven A. Varga, Chief

Gentlemen:

Enclosed are 40 copies of PSAR Figure 14.16a showing the containment elevator pit framing. This drawing represents the current BFS design in this area and supercedes PSAR Figure 14.16a dated 12-100678 found on page 3C.14-17a.

In addition, enclosed are 40 copies of PSAR page 9.2-11 representing the current PSO position regarding the UHS Cooling Tower design.

This material has been discussed with your Dr. Cecil Thomas and is provided to clarify these areas of the docket.

These revised pages 3C.14-17a and 9.2-11 will be incorporated in PSAR Amendment 13 which will be submitted prior to construction permit issuance.

Very truly yours,

T. N. Ewing, Manager
Black Fox Station Nuclear Project

TNE:VLC:fd

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CENTRAL AND SOUTH WEST SYSTEM

Central Power and Light
Corpus Christi, Texas

Public Service Company of Oklahoma
Tulsa, Oklahoma

Southwestern Electric Power
Shreveport, Louisiana

West Texas Utilities
Arlington, Texas

Boo1
JSE
1/40
REPRO
ADD'L
C/S

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9.2.5.3 Safety Evaluation. The Ultimate Heat Sink is capable of providing sufficient cooling for more than 30 days:

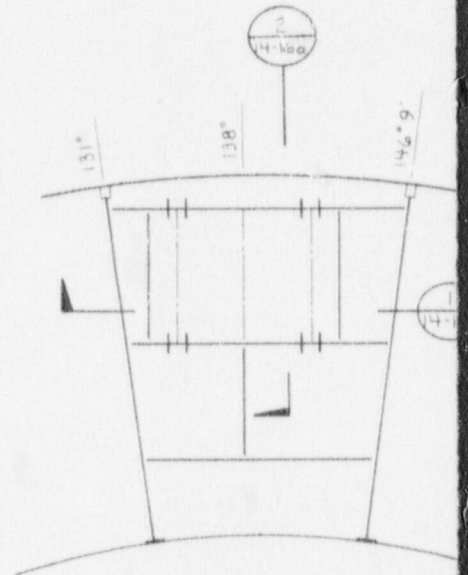
- (1) To permit simultaneous safe shutdown of both nuclear reactor units and to maintain them in a safe shutdown condition and
- (2) In the event of an accident in one unit, to permit safe control of the accident and also permit simultaneous safe shutdown of the other unit and to maintain it in a safe shutdown condition.

The UHS, consisting of cooling towers, fans, basin, pump house, and makeup basin will be designed to withstand, without a loss of functional capability to meet the requirements of items (1) and (2) above, the following natural phenomena; safe shutdown earthquake, probable maximum flood, and tornado wind forces and tornado borne missiles.

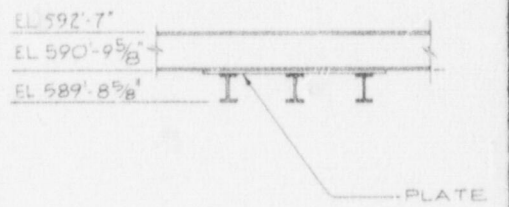
The UHS cooling towers, basin, and the pump house will be constructed of concrete walls and roofs.

The Ultimate Heat Sink is capable of withstanding the effects of other applicable site-related events, reasonably probable combinations of less severe phenomena, and any single creditable failure of any active component without loss of the sink capability to provide the heat rejection necessary to meet requirements of items 1 and 2 above. A single nonmechanistic failure of a man-made structural feature of the UHS is considered to be incredible since the UHS is designed to Seismic Category I requirements. Refer to Tables 9.2-2 and 9.2-3 for a failure analysis of the Standby Service Water System and the UHS.

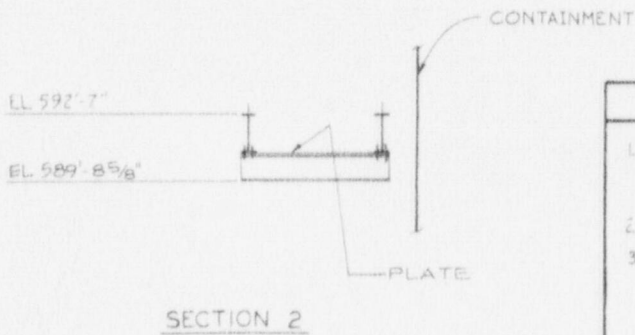
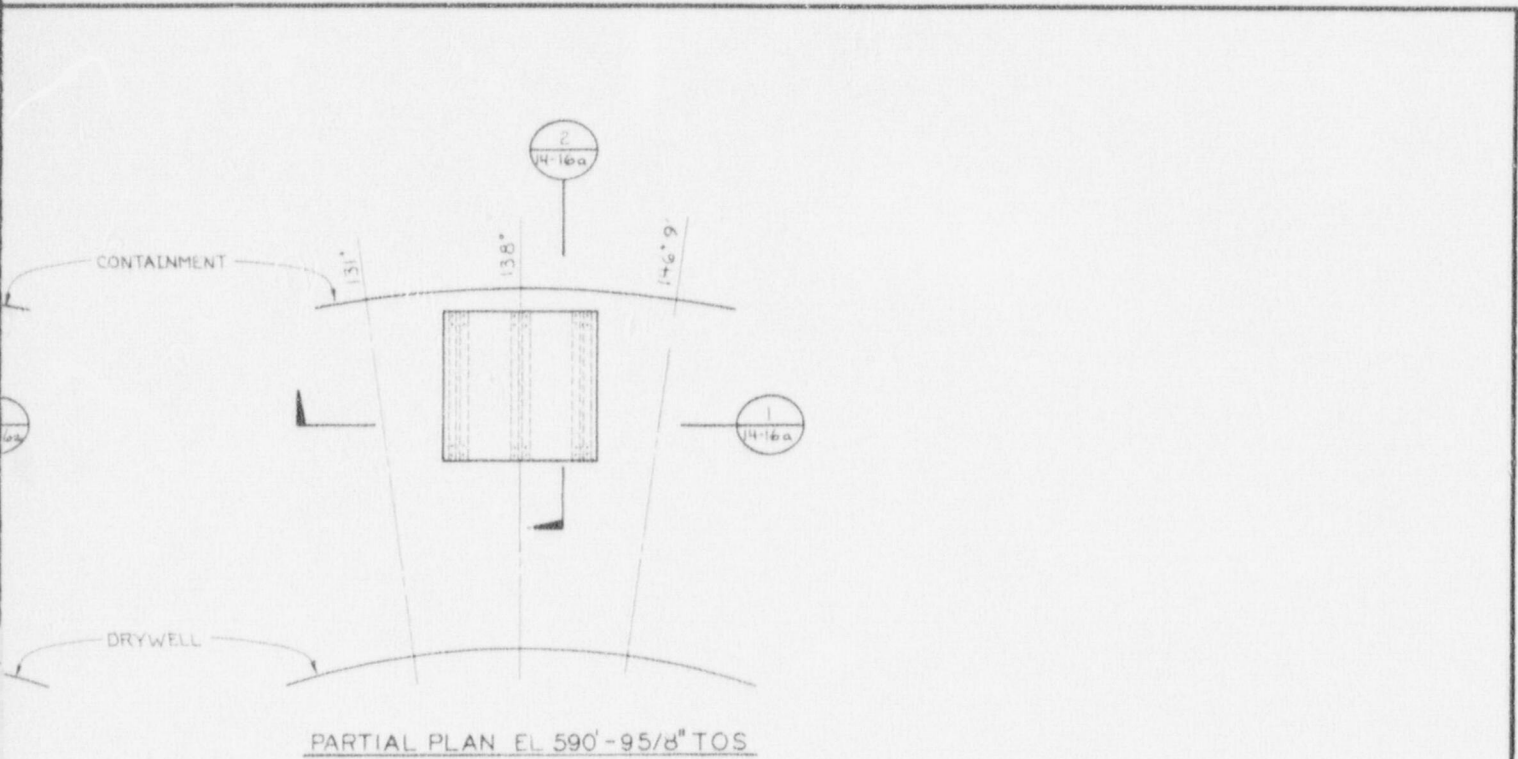
The Ultimate Heat Sink in conjunction with the SSWS is designed to withstand, without loss of safety function, the disabling of any one cooling tower fan simultaneous with a single active failure in any one Unit 1 or Unit 2 division during a loss of preferred power. The Unit 1 Division 1 and Division 2 SSWS return lines to the UHS cooling towers will be cross-tied to the respective Unit 2 SSWS return lines.



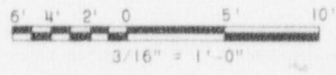
PARTIAL PLAN EL 592'-7" TOS



SECTION I



- NOTES**
1. STRUCTURAL STEEL FRAMING AT EL 589'-8" SHALL BE LIMITED TO SECTIONS FOR WHICH THE WIDTH DOES NOT EXCEED 20".
 2. SUPPRESSION POOL HWL EL 570'-8".
 3. STRUCTURAL STEEL AT OR ABOVE EL 589'-8" WILL BE DESIGNED IN ACCORDANCE WITH SECTION 12.0 OF BFS PSAR APPENDIX 3C, SPECIFICALLY FIGURE 12.2 TO PREVENT THE ELEVATOR OR ANY PARTS THEREOF FROM FALLING INTO THE SUPPRESSION POOL.



PUBLIC SERVICE COMPANY OF OKLAHOMA BLACK FOX STATION - UNIT 1	BAY DWG NO.	REV.
REACTOR BUILDING - PLATFORM FRAMING ELEVATOR PIT FRAMING	14-16a	

**REACTOR BUILDING-PLATFORM FRAMING
ELEVATOR PIT FRAMING**