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January 2, 1980

Richard S. Salzman, Esquire  
Chairman, Atomic Safety and  
Licensing Appeal Board  
U.S. Nuclear Regulatory  
Commission  
Washington, D.C. 20555

Dr. W. Reed Johnson  
Member, Atomic Safety and  
Licensing Appeal Board  
U.S. Nuclear Regulatory  
Commission  
Washington, D.C. 20555

Re: In the Matter of the Application of Public Service  
Company of Oklahoma, Associated Electric Cooperative,  
Inc. and Western Farmers Electric Cooperative (Black  
Fox Station, Units 1 and 2), Docket Nos. STN 50-556  
and STN 50-557

Gentlemen:

Applicants advised the Appeal Board and the parties on October 22, 1979 of the need to overexcavate the foundation area of Black Fox Station, Unit 2. Overexcavation was necessary to remove certain underlying soft siltstone material which Applicants propose to replace with concrete fill to bring the excavation to design grade.

It was stated in the October 22 notification that further analyses were being conducted by Applicants and that these analyses would be furnished to all concerned. The information is now available and it is enclosed with this letter. Applicants continue to believe this information has no significant relationship to any site suitability or environmental matters reviewed by the Appeal Board in ALAB-573.

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We are also mindful that the issuance of ALAB-573 may have caused the Appeal Board to lose jurisdiction in this matter. Nevertheless we are erring on the side of full disclosure. This information is also being furnished to the Licensing Board under separate cover (copy enclosed).

Sincerely,

*Joseph Gallo*  
Joseph Gallo

One of the Attorneys  
for the Applicants

cy: Service List except letter to Licensing Board  
dated January 2, 1980

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**PUBLIC SERVICE COMPANY OF OKLAHOMA**  
A CENTRAL AND SOUTH WEST COMPANY



P.O. BOX 201 / TULSA, OKLAHOMA 74102 / (918) 583-3611

Public Service Company of Oklahoma  
Black Fox Station Units 1 and 2  
Excavation Seal Unit 2  
U.S. NRC Docket No. STN50-556, 50-557

December 12, 1979  
File 6212.125.3500.21L

Mr. Steven A. Varga, Assistant Director  
Division of Project Management  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20002

Dear Mr. Varga:

As promised in our letter of October 19, 1979, we are transmitting herewith, for staff review, analyses we have done regarding the excavation seal on Unit 2 of the Black Fox Station. These analyses involve an assessment of the strength of a mass fill of lean concrete as a foundation material as compared with the natural rock structure and the effect of this relatively thick concrete fill on the dynamic responses of the safety related structures. The attached material is in the format of the BFS PSAR, Subsection 3.8.5. We intend to submit this material as a PSAR Amendment in conjunction with a TMI related amendment which will be filed prior to the commencement of the safety hearings.

The purpose of the concrete fill is, of course, to replace the excavated siltstone with concrete which meets the design basis established for the underlying competent siltstone during the NRC's Site Suitability Evaluation. The attached analysis demonstrates that the design basis is met and that there will be no soil structure interaction as a result of seismic events and that the impact on the dynamic response of the safety related structures is insignificant.

Since a concrete fill represents a relatively large concrete pour, PSO will utilize full quality procedures and quality control concrete in this activity even though this work cannot be construed as safety related. This has been done with all of the concrete poured as a part of the excavation seals for Unit 1 and Unit 2. In addition, the computed value of the shear wave velocity for the lean concrete backfill will be verified by actual tests in the field to insure that it is not lower than 3500 ft/sec.

This transmittal fulfills our commitment in the PSAR and the accompanying descriptions prior to commencing the main excavation. The accompanying analysis demonstrates acceptable

DUPLICATE DOCUMENT

Entire document previously entered into system under:

ANO 79/2180559

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