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ACCESSION Nbr: 8207080439      DUC. DATE: 82/07/07      NOTARIZED: NO      DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv      05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388  
 AUTH. NAME      AUTHR AFFILIATION  
 CURTIS, N.W.      Pennsylvania Power & Light Co.  
 RECIPIENT NAME      RECIPIENT AFFILIATION  
 SCHWENCER, A.      Licensing Branch 2

SUBJECT: Requests Tech Spec change to carbon dioxide storage tank available capacity for fire protection applications, from 90% of capacity to 25% of capacity. Bechtel ltr re tank capacity encl.

DISTRIBUTION CODE: B002S      COPIES RECEIVED: LTR 1 ENCL 1      SIZE: 2  
 TITLE: Fire Protection (Prior to Issuance of OL).

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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Norman W. Curtis  
Vice President-Engineering & Construction-Nuclear  
215 / 770-5381

July 7, 1982

Mr. A. Schwencer, Chief  
Licensing Branch No., 2  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
CO2 TECH SPEC REVISION  
ER 100450  
PLA-1170

FILE 841-2

Docket Nos. 50-387  
50-388

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Dear Mr. Schwencer:

Attached please find one copy of a letter from Bechtel Corporation to PP&L outlining the CO<sub>2</sub> Storage tank available capacity with respect to fire protection applications. Technical Specification 4.7.6.3.2.a presently requires 90% of the total tank capacity to be available; this would be the correct value if 1) the tank was sized for fire protection only and 2) the water sprinkler system mentioned had not been put in. The value of 25% which was in the Tech Specs prior to the June 24, 1982 revision is a conservatively accurate value based on the fire protection requirements without the sprinkler systems which are presently installed. Pennsylvania Power & Light Company requests that this change be incorporated into the Susquehanna SES Unit 1 Technical Specifications.

Very Truly yours,

N. W. Curtis  
Vice President - Engineering & Construction - Nuclear

RRS

Attachments

cc: R. L. Perch - NRC

R. R. Bottimore - NRC

8207080439 820707  
PDR ADOCK 05000387  
A PDR

*Bechtel*

# Bechtel Power Corporation

Engineers—Constructors

Fifty Beale Street  
San Francisco, California

Mail Address: P.O. Box 3965, San Francisco, CA 94119



Mr. T. M. Crimmins, Jr.  
Pennsylvania Power & Light Co.  
P.O. Box 1870  
Allentown, Pennsylvania 18105

Attention: R. Sgarro

Subject: Susquehanna Steam Electric Station  
Units 1 and 2 Job 8856  
Fire Protection

Reference: Technical Specifications Section 4.7.6.3.2.

Dear Tom:

The following is a complete reply to your Telecon dated 6-30-82.

The CO<sub>2</sub> central storage tank is a low pressure unit with a capacity of 12.5 tons supplying main generator purge service and a dedicated supply reserved for fire protection. The CO<sub>2</sub> reserve supply dedicated to fire protection was calculated to provide 2 applications to the largest single hazard, the Cable Spreading Room. At a later date, the Cable Spreading Rooms were changed to water sprinkler protection, substantially reducing the volume requirements and increasing the residual volume of the reserve supply. In addition, the reserve is further increased by the volume of generator purge capacity in that the independent fire protection supply extends to the full storage capacity of the Unit.

In the Central CO<sub>2</sub> Storage Tank, a float type liquid level shut-off valve is positioned to maintain the liquid level required for fire protection and prevent any purging use below this level. After use in the event of a fire, the capacity CO<sub>2</sub> used for purging may be restored by resupplying additional liquid to the tank.

Very truly yours,

*E. B. Roser*  
E. B. Roser  
Project Engineer

Written Response Req'd: No  
JS/TM/cmf

H21/25

