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FROM: Pennsylvania Pwr & Light Allentown, Pa N W Curtis		DATE OF DOC 6-5-75	DATE REC'D 6-9-75	LTR XX	TWX	RPT	OTHER XXXX
TO: Mr. W A Butler		ORIG 1 signed	CC	OTHER	SENT NRC PDR SENT LOCAL PDR		
CLASS	UNCLASS XXXXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-387/388		

DESCRIPTION: Ltr with attachment re our letters of 4-17-75, and 4-23-75, provides add. info with regards to the LOCA related suppression pool hydrodynamic phenomena...

ENCLOSURES:

**ACKNOWLEDGED**

**DO NOT REMOVE**

PLANT NAME: Susquehanna 1 & 2

FOR ACTION/INFORMATION *WTM* 6-10-75

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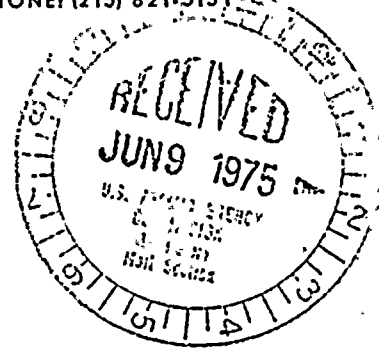
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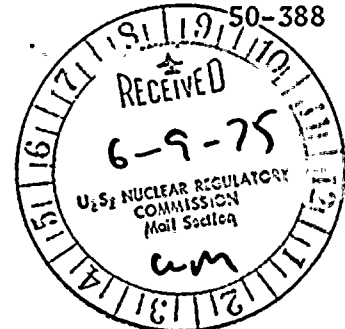
June 5, 1975

Dr. Walter R. Butler, Chief  
Light Water Reactors Branch 1-2  
Division of Reactor Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUSQUEHANNA SES  
ADDITIONAL INFORMATION-CONTAINMENT DESIGN  
ER 100450 FILES 840-2, 170  
PLA-69



Docket Nos. 50-387  
50-388



Dear Dr. Butler:

Your letter of April 17, 1975 indicated that the NRC requires additional information relative to the design of the containment for the Susquehanna Steam Electric Station, Units 1 and 2. You requested that we submit to you within thirty days our program and schedule for prompt resolution of the potential problems associated with the LOCA related suppression pool hydrodynamic phenomena identified by General Electric during Mark III testing.

Your letter of April 23, 1975 requested additional information related to the effects of main steam relief valve operation. You requested that we respond within 90 days or that we advise you within 15 days if we cannot meet this schedule. Subsequently, we informed you that we would submit our proposed program and schedule for resolving these issues the week of June 2, 1975. Since the investigations of the phenomena discussed in your letters are interrelated, we have chosen to respond to both subjects together.

Prior to receipt of your letters, we had begun a program to evaluate certain suppression pool phenomena. These phenomena, as identified in our April 4, 1975 letter to Mr. J. P. O'Reilly, are:

1. Suppression Pool Swell
2. Containment Vent Pipe Horizontal Loads from Steam Condensation.
3. Main Steam Safety/Relief Valve discharge pipe air clearing.

The program to investigate these three phenomena, and the other phenomena mentioned in your letter, is described in the attachment and reflects our long-term approach to resolution of these problems. The program and schedule were developed in conjunction with General Electric by the utilities owning plants with Mark II containments.

As part of our near term efforts to permit restart of containment construction, we have done a substantial amount of work in terms of defining bounding loads, based on information supplied by General Electric, and determining the capability of the existing structures. Based on this work, we have concluded that some of the "holds" placed on containment construction activities can be lifted. We have scheduled a meeting for June 17 with the NRC to discuss the bounding loads, methods of structural analysis used to determine structural capability, and our plans for the resumption of containment construction.

Very truly yours,



N. W. Curtis  
Vice President-Engineering & Construction

CTC:MAS

c-Messrs.  
Mr. J. P. O'Reilly - US Nuc. Reg. Com.  
Director-Region I  
U.S. Nuclear Regulatory Commission  
931 Park Avenue  
King of Prussia, PA 19406

MARK II CONTAINMENT PROGRAM & SCHEDULE

<u>Program</u>	<u>Schedule</u>	<u>LOCA Questions**</u>	<u>SRV Questions**</u>
1. Submit suppression pool and relief valve drawings reflecting current design.	July, 1975	1	1, 5*
2. Submit a generic "Forcing Function Report" which will provide the time history of pool dynamic forcing functions and the methods for relating these functions to the containment structures and components.	Sept., 1975	2, 7*	1*, 2, 4*6
3. Submit a description of suppression pool temperature monitoring system. (Temperature limits and transients will be described in the Final Safety Analysis Report.)	Oct., 1975	Not Appl.	7, 8, 9, 10
5. Submit a preliminary assessment of containment structures and components based on the Forcing Function Report.	Nov., 1975	3, 4, 5, 6, 7*, 8	3, 4*, 5
5. Submit a schedule for the generic test program and mathematical models which justify the forcing functions used to assess containment structures and components.	Dec., 1975	7	4
6. Submit a schedule for the final assessment of containment structures and components.	First Quarter 1976	-	-

\* Partial Answer

\*\* Question Numbers correspond to the additional information requests contained in NRC letters dated April 17 and April 23, 1975.