

**PP&L**

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JAN 07 1980

Mr. Boyce H. Grier  
Nuclear Regulatory Commission  
641 Park Avenue  
King Of Prussia, PA 19206

SUSQUEHANNA STEAM ELECTRIC STATION  
RESPONSE TO NRC BULLETIN 79-02  
REVISION 2  
ER 100450 FILES 840-4/150-C72, PLA-435

Dear Mr. Grier:

The following is our reply to I.E. Bulletin Number 79-02, Revision 2 dated November 9, 1979, for the Susquehanna Steam Electric Station. This reply supplements our previous response to Bulletin 79-02 which we transmitted to you in our letter PLA-378 dated July 6, 1979. Revision No. 2 of the Bulletin requires all holders of construction permits for power reactor facilities to review the use of expansion anchor bolts for attachment of Seismic Category I piping supports to concrete block walls (Item 5) and in attachments using structural steel shapes instead of base plates (Item 6).

Susquehanna SES's Project Specification C-72, Revision 4, states that expansion anchors may only be used for attaching pipe supports to block walls for non-hanger critical small piping (2-inch diameter and less). Based on this requirement and a preliminary survey of actual installations, we expect to find a minimal number of expansion anchors used in attaching Seismic Category I systems to concrete block walls. However, to ensure compliance with Bulletin 79-02 requirements, we have implemented an investigation of all expansion anchor attachments of Seismic Category I pipe supports to block walls. If any of these presently exist at Susquehanna, they will be modified to replace the expansion anchor bolts with an alternate, acceptable anchorage system.

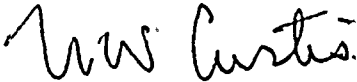
Item 6 of the Bulletin addresses use of expansion anchor bolts with structural shapes instead of base plates in pipe support attachments. A comprehensive review of pipe support details has been undertaken to determine the extent of use of this type of installation. A listing of Seismic Category I Systems in which pipe supports have been designed with structural shapes instead of base plates and attached by expansion anchor bolts is provided in Attachment 1. All fourteen (14) pipe supports listed are for piping 2½ inch and larger; whereas, for piping 2-inch and smaller, none of the pipe supports utilize structural shapes. This survey was based on original designs issued by engineering. The extent of permissible field substitution of details for small pipe supports is being investigated.

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We have not completed our evaluation of pipe supports with expansion anchor bolts using structural steel shapes instead of base plates. Anchor bolt type, line size, accessibility, and evaluation of the adequacy of the anchor bolt design and installation, along with our plans and schedule for any further action necessary to meet the Bulletin requirements, will be submitted to you by March 31, 1980.

Please call if you desire any clarification on the contents of this letter.

Very truly yours,



N. W. Curtis  
Vice President-Engineering and Construction

RWM/JDV/sls

Attachment 1: List of Pipe Supports with Structural Shapes Instead of Base Plates.

c.c.:

United States Nuclear Regulatory Commission  
Office of Inspection and Enforcement, Division of Reactor Construction Inspection  
Washington, D.C. 20555



List of Pipe Supports with Structural Shapes Instead of Base Plates

<u>UNIT</u>	<u>SYSTEM</u>	<u>PIPE SUPPORT NO.</u>
1	Diesel Aux.	GBC-2-H5
1	Diesel Aux.	GBC-4-H5
1.	Diesel Aux.	GBC-6-H5
1	Diesel Aux..	GBC-8-H5
1	RHR Pump Suction	HBB-110-H5
1.	Diesel Aux.	HBC-5-H8
1.	Diesel Aux..	HBC-8-H6
I	Diesel Aux..	HBC-11-H7
1	Diesel Aux.	HBC-13-H8
1	Fuel Pool Cooling	HCC-101-H8
1	Fuel Pool Cooling	HCC-103-H21
1	ESW	HRC-134-H2
1	ESW	HRC-134-H3
2:	RHR Pump Suction	HBB-210-H5