

ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2  
OMITTED HEATING AND VENTILATING DUCTWORK HANGERS  
NCR SWP-79-W-5  
FINAL REPORT

Description of Deficiency

A recent design review revealed that certain heating and ventilating ductwork in the auxiliary building was not designed with sufficient supporting hangers to provide seismic Category I integrity. This condition typically occurs at locations where the ductwork is cantilevered beyond existing hangers to mate with expansion joints at blowers or other equipment. A total of about 70 hangers must be added to provide the required integrity.

In a previous report dated March 23, 1979, on an identical condition at Sequoyah Nuclear Plant, it was wrongly stated that Watts Bar was not affected by this deficiency. It was found later that the Watts Bar design drawings had been approved and released for construction, resulting in a nonconforming condition.

Safety Implications

If the condition had not been discovered and were not corrected, failure of the ductwork during a seismic event could have resulted in excessively high radioactivity levels in the auxiliary building, and in the release of such levels to the environment. Also, falling ductwork could have caused failures of other safety systems.

Corrective Actions

The design drawings are being revised to specify the numbers and locations of ductwork hangers required for seismic Category I integrity. The required additional hangers will be installed in the auxiliary building. This work will be completed before the initial unit 1 fuel loading.

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