

WPPSS NUCLEAR PROJECT NO. 2
REPORTABLE DEFICIENCY AND CORRECTIVE ACTION
FOR SUPPORT OF QUALITY CLASS I
CABLE TRAY HANGERS FROM QUALITY CLASS II
STRUCTURAL STEEL

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
DOCKET NO. 50-397
LICENSE NO. CPPR-93

Nature of Deficiency

Structural steel framing for platforms at elevation 501' and 525' in the vertical cable chase between the Radwaste Building and Reactor Building was supplied as Quality Class II, in accordance with the design drawings. Quality Class I, Seismic Category I cable tray supports were attached to and supported by the Quality Class II steel framing, in accordance with approved cable tray support drawings. Some of the support loads exceeded the structural capacity of the steel framing.

Safety Implications

A large number of electrical signal and control cables for redundant safety systems are routed through the vertical cable chase. If a postulated structural failure, attributed to either the reduced reliability associated with Quality Class II fabrication or the overloading of the framing as originally designed occurred, cables for these safety related systems could be disabled, affecting safe shutdown of the power plant.

Corrective Action Taken

The structural steel framing design has been modified to increase the capacity of the overloaded members. This was accomplished by adding a horizontal strut to provide lateral support for beams in one bay at elevation 525', and by adding a vertical load carrying support for a platform in one bay at elevation 501'.

Since the welding could not be certified as meeting Quality Class I requirements, the contractor has been directed to replace all existing welds with welds meeting Quality Class I requirements.

Records relating to procurement of the steel framing have been reviewed for compliance with Quality Class I criteria. It was determined that procurement, material control, and traceability for the steel met Quality Class I requirements.

Based upon the above, the fabrication of the structural platform framing has been redesignated as a Quality Class I structure.

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