

WPPSS NUCLEAR PROJECT NO. 2  
REPORTABLE DEFICIENCY AND CORRECTIVE ACTION  
FOR DESIGN OF SMALL DIAMETER (2" and under) PIPE  
WITH WALL THICKNESS LESS THAN SPECIFIED REQUIREMENTS

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

DESCRIPTION OF DEFICIENCY

Carbon steel small diameter pipe has been installed with less than the minimum allowable wall thickness specified for the applicable pipe schedule. This condition occurred when the Mechanical Installation Contractor (215) utilized grinders and other power tools to remove oxide and mill scale from the pipe in preparation for welding. The wall thinning is localized at the ends of the pipe at socket weld joint.

SAFETY SIGNIFICANCE

Failure of the carbon steel small bore diameter pipe could result in the failure of safety related system components, adversely affecting the safe operation of the plant.

CORRECTIVE ACTION

Contract 215 has issued instructions to their personnel to use wire brushes instead of grinders when preparing pipe for welding and their work procedures are being revised accordingly.

A technical evaluation of the condition identified via Nonconformance Report No. 215-05196 is being performed by the A/E. It is anticipated that wall thickness measurements and design evaluation will be performed for the affected high pressure systems. Any socket weld connections which do not satisfy the minimum design wall thickness requirements will be corrected.