



COOPER ENERGY SERVICES

AJAX COOPER-BESSEMER PENN PUMP SUPERIOR

September 30, 1982

Office of Inspection and Enforcement
U.S. NUCLEAR REGULATORY COMMISSION
Washington, D.C. 20555

Attention: Director of Inspection and Enforcement

Gentlemen:

In accordance with 10CFR Part 21, this letter is notification of a deficiency that has been determined to exist in one emergency standby diesel generator set manufactured and supplied by Cooper Energy Services. The diesel generator set in question has been delivered to Arizona Public Service Company's Palo Verde Nuclear Generating Station in Arizona, but is not as yet in operation.

The defect exists in one power piston, part number KSV-5-A#2, serial number 1F2203, which is currently installed in cylinder location 7L in engine serial number 7188. Upon receipt of the material test report from our foundry for inclusion in the documentation package for the subject unit, it was discovered that the tensile strength of 41,600 PSI as shown on the report was less than the 46,000 PSI minimum required by the material specification. Also, the silicon content was 2.04% compared with the required maximum of 1.60%. This is the only piston affected. Of the total of eight pistons produced from this heat, the remaining seven have been destroyed.

The corrective action to be taken by Cooper Energy Services is to replace the piston in question prior to the start-up date for the unit. The target date for replacement of the piston is currently set at April, 1983.

Sincerely,

F. B. Stolba
Vice President & General Manager,
Reciprocating Products

IE-19

cc: W.G. Bingham, Project Engineer
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