

Colt Industries



**Fairbanks Morse
Engine Division**
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July 27, 1981

Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Ill. 60137



Attention: Mr. James G. Keppler, Director, Region III

Subject: Colt Industries-Fairbanks Morse Engine Division
Emergency Diesel Generators
Possible Exhaust Valve Cage Holddown Undertorquing

Gentlemen:

A 16-cylinder PC-2.5 engine for a marine contract has suffered a burned exhaust valve cage while undergoing factory tests. The burning occurred when hot exhaust gases leaked between the cage and the cylinder head.

Since improper torqueing could result in such leakage, other cylinders on the engine were checked for conformance with the specified torque values. Several were found to be undertorqued. As a result of this finding, all PC-2.5 exhaust cages are suspect and will be inspected for adequate torqueing of holddowns. The holddown arrangement is unique to PC-2.5 engines.

There are not any PC-2.5 engines in operating nuclear plants.

There are PC-2.5 engines awaiting starting at the following plants:

- 1) 2 units - Union Electric, Callaway Unit One
- 2) 2 units - Kansas Electric & Gas Co., Wolf Creek Station
- 3) 1 unit - Washington Public Power Supply System, WPPSS #3

The above units will all be checked for adequate holddown torqueing prior to start-up.

A copy of this report is being forwarded to the utilities involved.

Very truly yours, *JM*

J. M. Moriarty
J. M. Moriarty
MANAGER UTILITY SALES

JMM:jc

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A PDR

A division of the Colt Industries Operating Corp

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cc: Bechtel Power Corp.
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Attention: SNUPPS Project Engineer

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