

July 17, 1985

PDR

MEMORANDUM FOR: Karl V. Seyfrit, Chief
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
of Operational Data

AEOD/T505

THRU: Matthew Chiramal, Chief
Engineering Section
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FROM: Chuck Hsu, Engineer
Engineering Section
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
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SUBJECT: BEAVER VALLEY COMPONENT COOLING WATER PUMP DAMAGE

The enclosed Technical Review report is forwarded for your information and further consideration. This evaluation illustrates that the cause of subject pump damage was bearing failure due to overheating. Bearing failure has been a consistent problem with the component cooling water pumps at Beaver Valley for some time, and the licensee had been unable to identify the root cause.

As a result of a lengthy test and evaluation program, the licensee determined that misalignment between the rotor and stator of the associated motor was the cause of bearing overheating. The cause of this misalignment appears to be related to past activities associated with disassembly and reassembly of the motor rotor during motor rewinding. Although these events do not have generic implications, it indicates that rotor/stator misalignment could cause pump bearing failure. This type of misalignment normally is not included in the plant maintenance check list for pump bearing trouble; thus, the identification of this problem remained unknown for a considerable period of

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time. Since the misalignment can be prevented by proper administration of maintenance procedures for motor assembly, additional NRC staff action does not appear necessary.

/s/

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Enclosure:
As stated

cc w/enclosure:
P. Tam, NRR
W. Troskoski, SRI
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