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SUBJECT: Discusses long-term operability of deep draft pumps, in response to NRC 810813. Original installation of pumps is adequate. Pump & valve in service insp program requirements for vibration surveillances are satisfactory.

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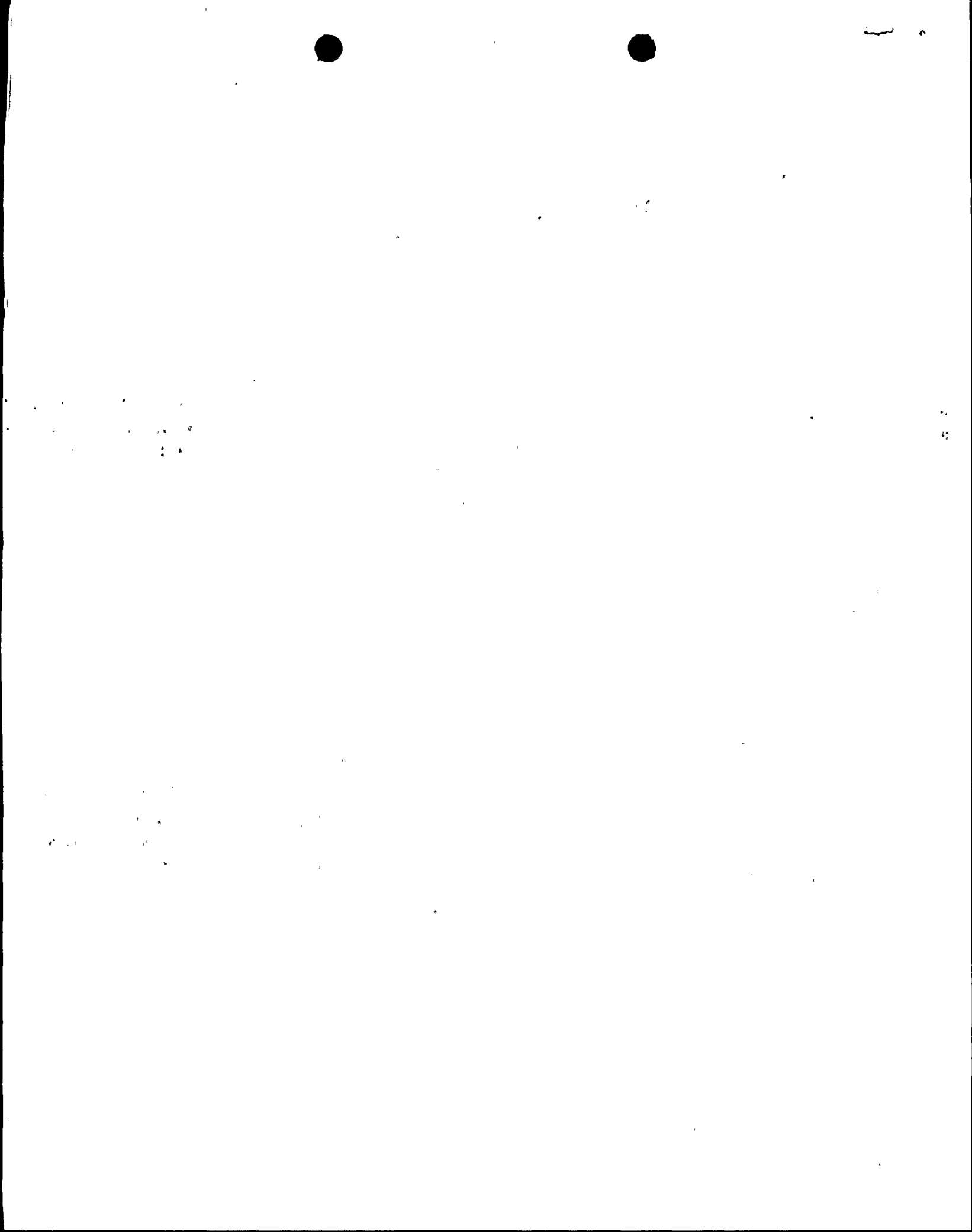
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October 14, 1981

Mr. Robert L. Tedesco
Assistant Director for Licensing
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docket Nos. 50-387
50-388

SUSQUEHANNA STEAM ELECTRIC STATION
LONG TERM OPERABILITY OF DEEP DRAFT PUMPS
ER 100450 FILE 841-2
PLA-944

Dear Mr. Tedesco:

In response to the August 13, 1981 letter on the Long Term Operability of Deep Draft Pumps which divided the recommended actions into installation instructions and testing procedures, Pennsylvania Power and Light Company has reviewed the concerns raised and has reached the following conclusions.

The original installation of the deep draft pumps on site is deemed adequate. The procedures used for the installation are available onsite for IE Inspector review. These procedures ensured installation was within the manufacturers tolerances. Further, these pumps have operated without incident, as described later in this letter. Pump removal and reinstallation for the sole purpose of verifying proper installation is unnecessary. Deep draft pump assembly and disassembly maintenance procedures will be revised to include steps similar to the recommended guidelines stated in the subject letter. However, optical alignment to assure maximum straightness and concentricity of the assembly is unnecessary. Dial indication alignment checks will be performed. Additionally, the pump-to-motor flange parallelism and shaft perpendicularity checks will be included. Construction of the sumps for the deep draft pumps has also been completed. Pump testing has been performed to verify the absence of fluid anomalies, such as vortexing or turbulence, in the suppression pool near the Residual Heat Removal Pump intakes and the Core Spray Pump intakes.

The three phase testing program proposed to ensure pump operability and to determine bearing wear trends is considered unadvisable at this time. This posture is based on the pumps having previously experienced a considerable number of operating hours without difficulty. Further, the potential problems

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associated with repeated disassembly/reassembly outweigh the beneficial effects of such checks. PP&L considers the Pump and Valve Inservice Inspection Program requirements for vibration surveillances using contact probes satisfactory for trend determination. This data will be taken monthly and observance of abnormal vibration or wear will initiate consideration of testing similar to that described in the subject letter.

Very truly yours,



N. W. Curtis
Vice President-Engineering & Construction-Nuclear

CTC/mks