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10CFR21 - SUBSTANTIAL SAFETY HAZARD

1. Name and Address of Reporting Individual

James A. Wactor

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2. Identification of Basic Component

Service Water Booster Pump Motors

3. Identification of Firm Supplying Component

Louis Allis, Inc.

4. Nature of Defect, Substantial Safety Hazard Created, and Evaluation

The service water booster pump A motor shorted and tripped the breaker when it was bumped to check rotation. The motor was disassembled, and it was found that the spacer bars between lamination on the rotor were not welded and were misaligned such that the bars were hitting the stator. Copper shavings were also found in the windings. The factory was consulted, and said that the bars should be welded in place. The B pump motor was also disassembled and the same conditions were observed. Other Louis Allis motors in the plant were inspected, but they were not of the same construction and did not have this problem. The service water booster pumps supply cooling water for the reactor building cooling units in the event of a safety injection. A loss of these pumps could result in high temperature and pressure in the reactor building with possible damage to instrumentation and other equipment in the reactor building and containment leakage.

5. Date Information of Defect Was Obtained - March 31, 1980

6. Number and Location of Defect

There are two service water booster pump motors at V. C. Summer Nuclear Station.
Other Louis Allis motors at Summer Station are a different design and do not have
this problem.

7. Corrective Action

The motors were taken out of service and returned to the factory for repair.
Inspections will be made before return to insure that the problem has been
corrected.

8. Advice to Purchasers or Licensees

Since this problem could exist for some time before causing a problem, it is
suggested that end bells be removed and the spacer bars checked to see that they
are welded.

April 11, 1980