

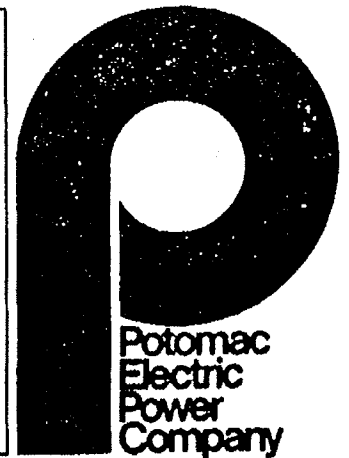
Memo

TO: M. W. Jones

FROM: T. S. Fasca

SUBJECT: Meeting with Sims Pump Inc. to discuss Pumps Life Extension (T2023) at Station F.

DATE: August 25, 1992 036-92-001425

**ATTENDANTS:**

Carmen Trotta /Sims Pump/ Sales Engineer
 Andre Gage
 Paul Bourdeau
 Tom Schleip
 Ted Fasca

A meeting with Sims Pump Valve Company took place on August 24, 1992 at 10:30 a.m. to discuss accelerated corrosion/erosion problems with River Water, Ash Hopper Overflow Sump, Screen Wash, and Circulating Water pumps. The above mentioned pumps with exception to the Circulating pumps are experiencing accelerated corrosion/erosion with an average pump life ranging from 7-14 months. The Circulating Water pump is being evaluated on corrosion and erosion and overall wear on internal components.

Sims currently manufacturers composite pumps made from Simsite°. Simsite° is a combination-fiber reinforced composite with phenolic resin. The fibers are interwoven in a bi-directional or tri-directional weave. Individual components are machined (as opposed to being cast) from solid blocks of Simsite°. The individual components such as impellers are lighter in weight and exhibit lower coefficient of friction than the metallic counter parts. Attachment #1 contains engineering data on the various composite grades available.

Several impellers and bearings made from Simsite° was readily available for closer examinations. Two approximately 9" impellers (1 composite & 1 Bronze) were actual obtained from service. The Bronze impeller was in service for several years (approximately 3) and demonstrated signs of cavitation pitting and general wear. The Simsite° composite impeller was in service for approximately 13 years and exhibit virtual no signs of wear.