TO: JOHN KOZEL FROM: STEVE CINKOSKY

SIMSITE ARMY CORPS OF ENGINEERS PHONE (201) 792-0600 PHONE (503) 326-5631 FAX (201) 792-4803 FAX (503) 326-2479

The below was part of the justification for our use of the Simsite impellers for the dredge Essayons main salt water circulation pumps on the central cooling system.

The light weight reduces vibration levels and increases the life of the shaft, bearings, seals, and the motor. The material resists corrosion and cavitation damage better than the other materials. The pumping efficiency is increased by 2 to 6%. Each Simsite impeller and casing ring set for this pump saves us:

\$3312.00 electrical energy

\$7500.00 replacement impeller costs (bronze more if ss)

\$1680.00 labor to change impellers

\$ 800.00 est. other misc. savings, from reduced maintenance

\$13292.00 total over using standard impellers.

I have been aware of this material for 15 years, and in that time have found or heard of no substitutes. When it originally came out, it was more expensive than the bronzes, however it was still cost effective due to the improved performance. With the higher increase in cost of the metals relative to the Simsite, the Simsite is even more cost effective. The current prices are virtually unchanged from 2 years ago.

Simsite is known primarily by word of mouth, and is sold primarily direct from the factory. They are small business, and don't advertise very much (if at all).

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