NORTHERN ENGINEERING
DIVISION OF FRASER SHIPYARDS INC.

This 14-foot PTO quill shaft was damaged on bearing journals and seal diameters due to bearing/seal failure. Repair procedure consisted of re-cut centers; under cut to remove worn & total indicated run out on 4 different surfaces. Copper plate approx. .01 per side, machine, nickel-plate & grind to Mfg. specifications.

Shaft is plated with copper for build up & filling gouges from bearing failure. Also prepared for nickel plating.

Using a flow through anode nickel plating is in process.

The quill shaft is set up in a lathe for rotation during plating process to obtain a uniform build up.

Plating repair is inspected & completed to Mfg. specifications.