



## COATINGS IN ACTION

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### BACKGROUND:

A steam generator turbine was pulled from service for repair. The turbine shaft is fitted with two (2) sleeves of type 420 stainless steel to which considerable wear had occurred. To restore the shaft sleeves to original dimension would require a diameter buildup of over 1/4 inch; Over 125 pounds of material!

### COATING RECOMMENDATIONS:

The sleeves are to be machined to a uniform diameter and flame spray coated with Puroloy 502 high chrome stainless steel.

### BENEFITS:

- 1** No weld temperature distortion
- 2** Minimal stock removal\* = lower grinding cost
- 3** High coating tensile strength, 40,000 P.S.I.
- 4** On site application. Purtech is portable.

\* .025\* removal required on radius

### RESULTS:

The stainless coating was applied, sealed and finish ground to dimension. As is often the case with flame spray coatings, the newly restored turbine shaft sleeves are likely to outwear their original stainless material.

- ▶ Purtech offers complete 24 hr./day field services including portable blast & dust collection equipment.
- ▶ In house capabilities include the coating of 3 inch I.D.'s to 8 foot O.D.'s and lengths to 20 feet.
- ▶ Processes include UHV-8000, Series 'D' (HVOF), Plasma, Twin Wire Arc, LVC, and Wire Metallizing

Should you have a part restoration or hardsurfacing application, please call one of our in house engineers or send your requirements to  
The Purtech Co., Progress St., East Stroudsburg, PA 18301

UHV HVOF PLASMA TWIN WIRE ARC WIRE METALLIZING

Visit our web site at  
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*Literature by Fax*

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