

Adhesive Removal from Regeneration Vessel Interiors at Progress Energy Brunswick U2

Project 828

Overview:

- Three regeneration vessels (a.k.a. condensate polishers)
- Vessels had rubber linings removed using pneumatic chipping hammers
- An adhesive residue remained on the surface
- Small, narrow tank shape; normally a messy process with poor visibility

Objective:

- Remove adhesive residue
- Prepare surface for paint



Adhesive Removal from Regeneration Vessel Interiors at Progress Energy Brunswick U2

Substrate: steel

Size: 2.4m(8ft) tall by 1.2m(4ft)

Specified:

- 75-125microns (3-5mils) profile
- NACE 1 / SP-5 / Sa-3
White Metal Blast Cleaning

Formerly Used:

12-40 black beauty abrasive:

- (1) Messy, slow and dusty
- (2) Adhesive melts away rather than is cut away
- (3) Large volume of waste
4,085kg(9,000lb) for three vessels

Used: Silver 16 Sponge Media™

SPONGE-JET BLASTED SURFACES



Adhesive Removal from Regeneration Vessel Interiors at Progress Energy Brunswick U2

Result:

- Project completed on time/ under budget
- Major savings realized on disposal cost



Comparing Disposal of Black Beauty and Sponge Media™ on three vessels:

	Recycles	Waste Disposal	Cost Per barrel	Disposal Cost
Silver 16	multiple	1 barrel	\$5,500/barrel	\$5,500
Sponge Media™				
Black Beauty	0	22.5 barrels	\$5,500/barrel	\$123,750

**Reusable Sponge Media after the project was drummed and stored for future projects*

Total Savings \$118,250