

Sidewall and Catwalk Restoration on Harper's Ferry Class Dock Landing Ship

Project 819

- Sasebo Naval Base used by Japanese Maritime Self Defense Force and the United States Seventh Fleet
- Sidewall and catwalk restoration on vehicle deck on USS Carter Hall (LSD-50) Dock Landing Ship
- Problems with power tool surface preparation – missing deadlines

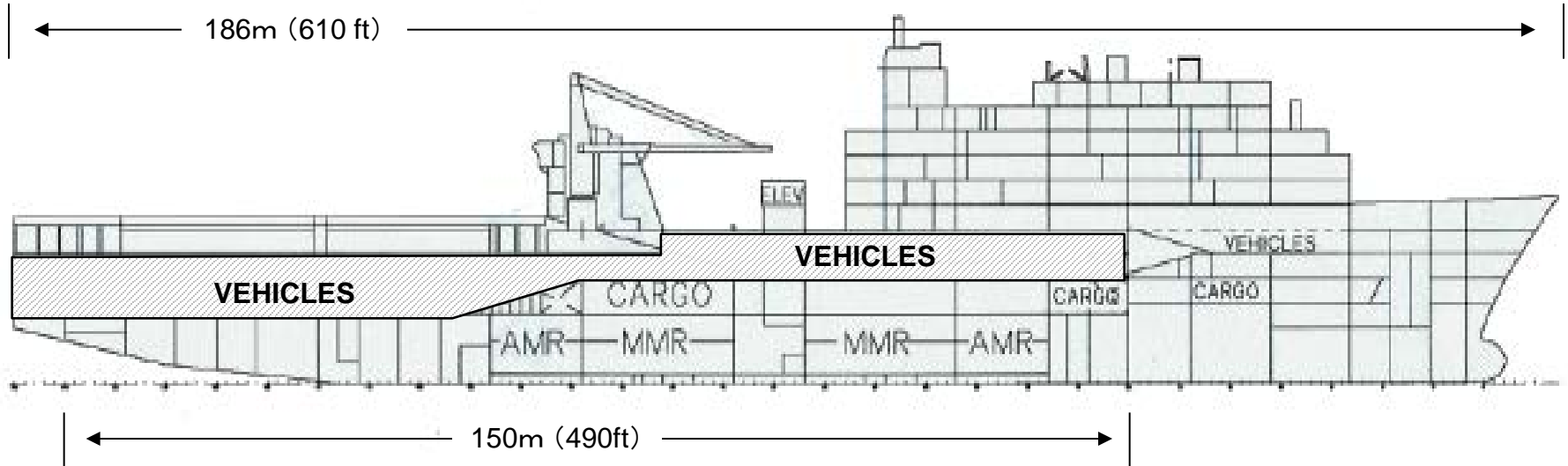
Application: removing military coatings

Project Size: 1,000m² (10,764ft²)

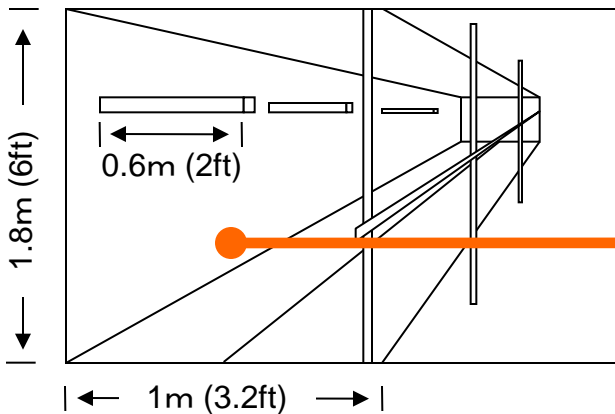


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- Sidewalls



- Catwalk



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Specified:

- SP10 / SA 2.5 / NACE 2
Near-White Blast Cleaning

Deadline: 6 wks (9 hour days)

Used: Cup wire / disk grinders

- 20 workers scheduled
- Tight work area (could not fully accommodate enough grinders)
- Dark and dusty environment (in sidewall location)
- Power tooling was too slow
.5m² (5.5ft²) per hour with three grinders

4 weeks in ⇒ hand grinding only completed 1/3 of the total job

Could not finish job on time and on budget - with 20 workers



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- To finish job (two options)...
- More grinders = more cost
- Change tool = what type?
- Sponge-Jet was selected to complete the project

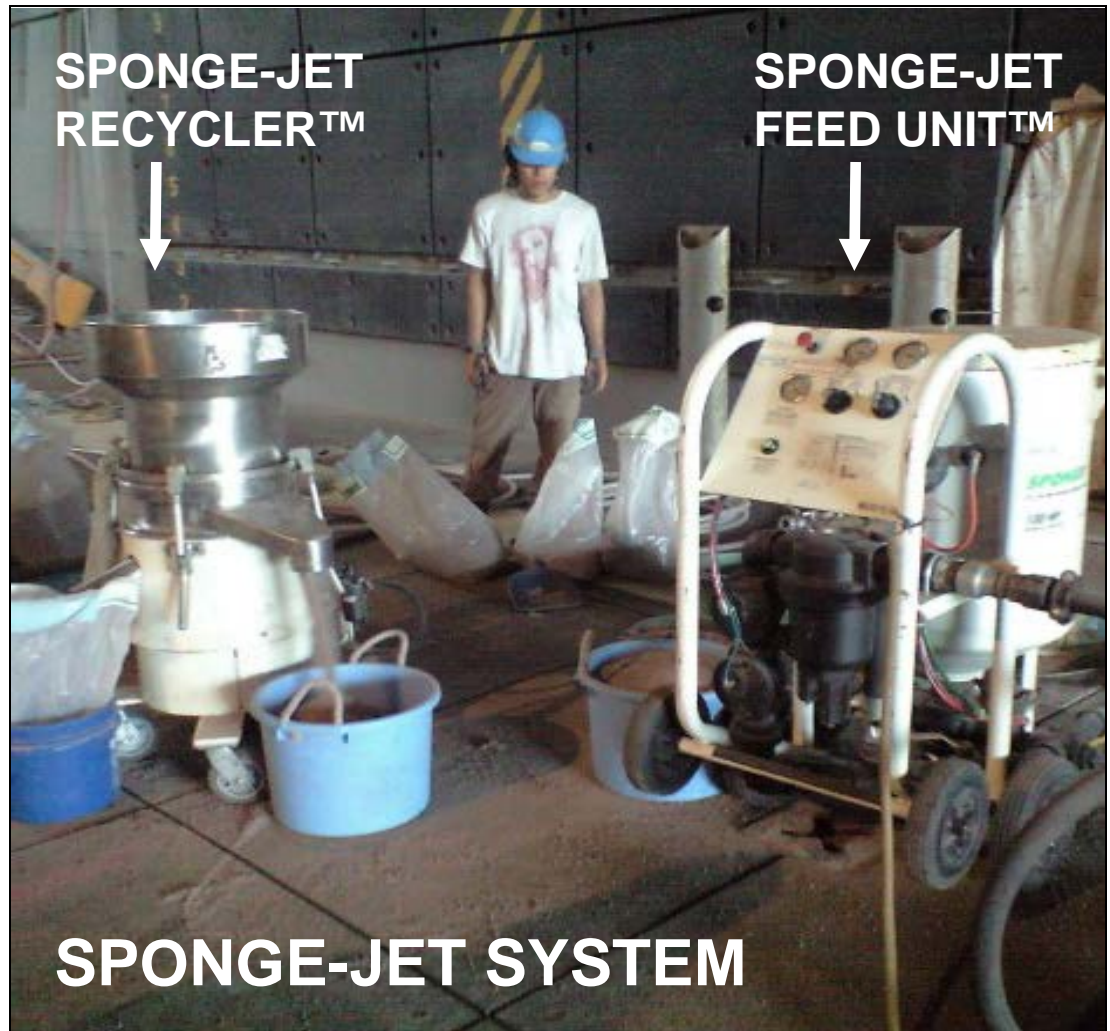
Used:

- (1) 100-HP Feed Unit
- (1) 35-P Recycler
- (1) #6 SaberBlast™ Nozzle
- (1) 50 H.P. air compressor
- (90 bags) Silver 30 Sponge Media™ abrasives recycled 7 times

Deadline: 2 wks (9 hour days)

Size: 700m² (7,535ft²)

- 5 workers scheduled



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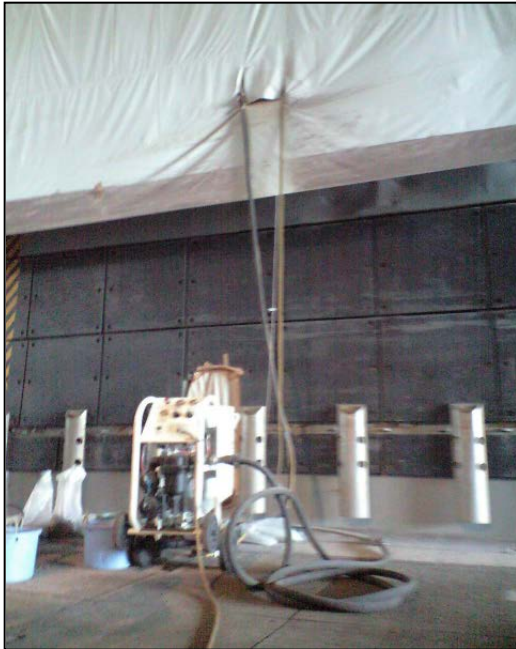
Project completed on time and with savings using Sponge-Jet...

Comparing (500m ² [5,400ft ²])	Power Tools	Sponge-Jet
Workers	20@\$200/7days/6wks 20x200x7x6= \$168,000	5@\$200/6day/2wks 5x200x7x2= \$14,000
Equipment	n/a	Rental \$250/7days/2wks 250x7x2= \$3,500
Media	n/a	180 bags @\$90/bag \$16,200
Total	\$168,000	\$33,700
Sponge-Jet Saved		\$134,300

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Outcome:

- **Saved \$134,300**
- The Japan Coast Guard and Ministry of Defense adopted Sponge-Jet for all non-skid coatings



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New Sponge-Jet non-skid applications resulting from this project...

