ABRASIVE BLASTING APPLICATION:

ANOTHER PROJECT DONE BEST WITH SPONGE-JET®

Removal of lead paint and heavy rust in an operating petroleum refinery

Problem: Surface preparation and repainting was required on 320m² (3,450 ft²) of structural steel in a Corpus Christi, Texas oil refinery.

A prominent nationwide specialty contractor, was hired to remove failing lead paint and heavy rust on structural support beams throughout the refinery. The contractor's challenges, defined by the refinery's general foreman, were to allow nearby production units to continuously operate, and to maintain a dry, low dust environment.

Solution: Using Sponge-Jet's Sponge Blasting System,™ the contractor was able to prepare the surface to the SP6 specification in one dry, low dust process - allowing oil production to continue. These same qualities allowed painting to quickly ensue. The refinery and contractor were able to share a significant cost savings.

Goals:

- Low Dust
- Dry Process
- Low Ricochet
- Cost Efficient

Alternatives considered:

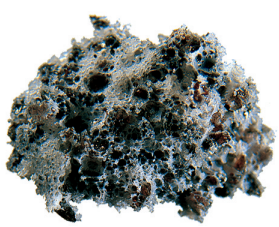
- High Pressure Water
- Sand Blasting
- Agriblasting
- Power Tooling

Contractor's choice:

Sponge-Jet's Sponge Blasting System™ Silver Sponge Media™

"Using the Sponge Blasting System the job came in under the quote we provided to the refinery's general foreman."

Paint & Lead Supervisor



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PRODUCT

Sponge-Jet® Silver Sponge Media™ featuring MICROCONTAINMENT™ technology

APPLICATIONS

Fast cutting and aggressive. Used for a wide range of commercial, industrial, marine and military coatings removal projects.

PROFILE	ABRASIVE	CLEANING RATE	AVERAGE RECYCLES
75micron (3mil)	**Aluminum Oxide**	**6-17m²/hr(1-3ft²/min)**	**7**

235 Heritage Avenue, Suite 2
Portsmouth, New Hampshire 03801

www.spongejet.com
US office: **603-431-6435**
European office: **+44(0)1253-390731**

SPONGE-JET®
Dry Abrasive Blasting Technology

ABRASIVE BLASTING APPLICATION:

ANOTHER PROJECT DONE BEST WITH SPONGE-JET®

Removal of #6 oil residue from petroleum storage tank exteriors

Problem: Nearly 370m² (4,000 ft²) of congealed #6 oil, 750 microns (30 mils) thick, needed to be cleaned from aluminum insulation sheathing on petroleum storage tanks in South Portland, Maine. **Clean Harbors, Inc.,** a national hazardous waste remediation contractor, was hired to clean and remove the thick oil layer. Due to issues of contaminant properties, substrate integrity, containment and environmental restraints, many industrial cleaning methods were ruled out.

Solution: Using **Sponge-Jet's Sponge Blasting System,™** Clean Harbors was able to efficiently remove the thick oil coating and the residual black stains without causing damage to the aluminum substrate or to the surrounding environment.

Goals:

- Cost efficient
- No damage, no stain on substrate
- Limited containment, no spillage
- Quick setup, short weather window
- Worker safety, no solvent exposure

Alternatives considered:

- SP1 hand cleaning
- CO^2 pellet blasting
- Ultra-high pressure water

Contractor's choice:

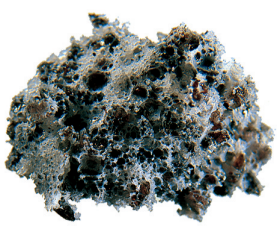
Sponge-Jet's Sponge Blasting System™ Silver Sponge Media™

Contractor:

Clean Harbors, Inc.
Jack Vallely
Dist. Operating Mgr.
South Portland, Maine
800-526-9191

"We used Sponge Media™ because it was so easy to contain and collect for reuse, and it was able to clean the residual black stains other methods couldn't have."

Paul Gaudreau, Project Manager
Clean Harbors, Inc.



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PRODUCT

Sponge-Jet® Silver Sponge Media™ featuring MICROCONTAINMENT™ technology

APPLICATIONS

Very low abrasion, light coatings removal, sensitive substrates and composite applications

PROFILE	ABRASIVE	CLEANING RATE	AVERAGE RECYCLES
>25 micron (>1mil)	Aluminum Oxide	6-17m²/hr(1-3ft²/min)	7-9

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SPONGE-JET®
Dry Abrasive Blasting Technology

BP OIL

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Stirlingshire FK3 9XQ

Switchboard: (0324) 483422
Central Fax: (0324) 476159
Telex: 778142

Direct Line: 476536
Direct Fax: 476812

Your ref:
Our ref: pib/adm82.doc

Date: 5 February 1996

Peter Fuller. Operations Manager
Transocean Coating Inspection Ltd
Main Cross Road
Great Yarmouth
Norfolk NR30 3NZ

Dear Peter,

SUBJECT: SPONGEJET AT GRANGEMOUTH REFINERY

The SPONGEJET system was first introduced to BP Oil Grangemouth in early 1995. Since then the Refinery has put the system to many different uses.

The majority of the work being linked to shutdowns / overhauls in the Refinery, where there are a great number of different trades working in the same local area. Using the SPONGEJET system has enabled us to allow other trades to keep on working while blasting is being carried out. The advantages are easy to see.

Coupled with this is the fact that Safety and Environmental Control departments are very impressed with no lost time accidents over the last two shutdowns due to grit / foreign bodies getting into peoples eyes.

The speed of clean-up operations is dramatically faster than grit blasting and the area is clean enough for plant inspection to be carried out immediately after blasting.

The system is currently being used on two shutdowns within the Refinery to great effect, and is now the preferred method for most Engineers running a shutdown.

Yours faithfully,
For and on behalf of BP Oil Grangemouth Refinery Ltd

Adrian Whalley
Maintenance Services Branch