

### Exxon Mobile

#### Acceptance and implementation of PAB is recommended by the pipe work group

- PAB (Pliant Abrasive Blasting) or Sponge-Jet, is identified as an attractive alternative to handtool and power tool cleaning.
- Using pliant abrasive blasting versus power tool cleaning increases coating life 200 to 700%.
- Compared to garnet blasting, dust control is simplified (no boxing in structures).
- Intrinsic risk of eye injury is reduced
- Work conditions in adjacent crafts/units are improved
- The net savings with pliant abrasive blasting compared to hand-tooling for insulated piping is 42.16% and 26.47% for non-insulated piping.
- PAB will save even more by reducing replacement and increased safety. We see a large amount of steel replacement due to use of handtool or power tool cleaning

## Top Petro/Chemical, Drilling and Processing Companies Specify and use Sponge-Jet

The Sponge-Jet low dust and low rebound technology is an integral part of improving production efficiency, drastically reducing maintenance shutdowns, while protecting the workplace and the environment.



#### Using the Sponge-Jet system enabled other trades to keep working while blasting is being carried out.



- Safety and Environmental Control departments are very impressed with no lost time accidents during the shutdowns due to grit/foreign bodies getting into people's 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 preferred method for most Engineers running a shutdown.

- **Reduce shutdown**
- **Blast near other trades and operating equipment**
- **Extend coating life; lessen future maintenance and downtime**
- **Achieve workplace health and safety goals**
- **Increase the reliability of rotating equipment and compressors**
- **Limit over-blasting and rework**
- **Reduce transportation and disposal costs by recycling**
- **Profile up to 125 microns**

#### Pemex's Department of Norms and Specifications:



In the "Coating and Protective Systems for Metals" specification report, the Department of Norms and Specifications suggests that "wherever dust restrictions apply, use alternative methods as Polyurethane foam with abrasive particles."

#### Technical Report for Abrasive Blasting on Platform P-VI, Tank TQ-34:



"An effective reduction of labor force of 60% was confirmed in comparison to the other abrasive processes... reduction of labor force refers to the night shift responsible for the disposal of residues."

### Sponge-Jet Customers...

PETROBRAS	Chevron	ExxonMobil	PEMEX
SARAS	Petronas	Refineria Isla SA	BP Oil
Caribbean Methanol Co		PDVSA	
REPSOL YPF	Shell Oil		

### Sponge-Jet Applications...

- Stripping distillation tower interiors/exteriors
- Preparing erection and anular tank weld seams
- Removing Corrosion Under Insulation (CUI)
- Profiling/paint preparation of new structural steel and rust removal of old structural steel
- Removing iron-stained grinding residue from stainless structures
- Removing failed coating and corrosion on floating roof-top tank covers
- Cleaning coke or burned residue from boilers
- Sponge blasting heat exchange condensers, pump stations and gassifiers
- Spot-blasting pipeline externals; undergroup and arial applications

**Blast Where You Want.**

To learn more visit Sponge-Jet, Inc. at [www.spongejet.com](http://www.spongejet.com); call **603-610-7950** or in Europe call **+44-1253-390731**

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