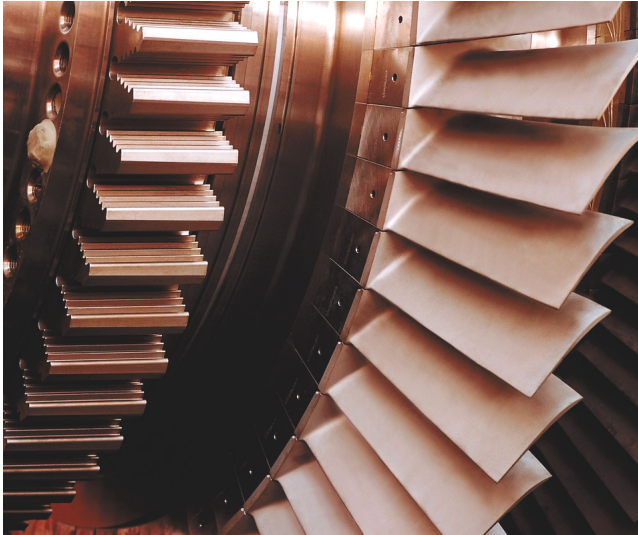


# Clean Contaminants from Turbine Parts in Power Generating Plants

*Restore turbine parts by removing tough oxide build-up, low-level radioactive contaminants, dirt and other corrosion from turbine parts using porous, sponge/abrasive composites; Suppress airborne dust and cause minimal impact to nearby working trades for fast cleaning and safe decontamination.*



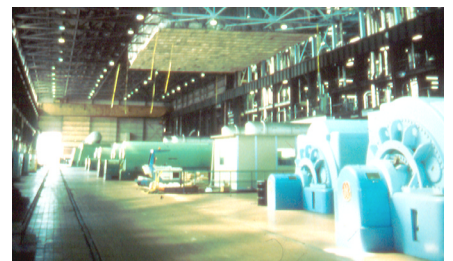
## **Sponge-Jet abrasive blasting system is used to:**

- Prepare stainless steel rotors, inner and outer cylinders, governor and generator-end brackets, diaphragms, carriers and guides to any specification
- Recondition turbine parts by removing blue oxide layers, dirt build-up and low-level radioactive contaminants
- Assure efficient reliability with no grinding marks from hand-sanding
- Thoroughly clean corners, edges and bolt heads or other hard to access areas
- Accelerate cleaning operations and overall maintenance activity by allowing other trades to work near blasting

## **Used on turbines manufactured by Siemens®, Westinghouse® and General Electric®**

- **Controllable**
  - Remove the toughest contaminants without damaging the substrate
- **Safety & Reliability**
  - Less injuries and worker fatigue
  - Protect sensitive equipment and other nearby working trades with low media rebound and airborne dust
- **High Quality**
  - First-pass removal; no need to reblast with enhanced visibility
  - Inspection can be conducted during blasting, not after
- **High Productivity**
  - Reduce plant downtime requirements
  - Low media rebound and dust allow surrounding trades to work safely without interruption
  - Efficient process allows for quick setup and clean-up

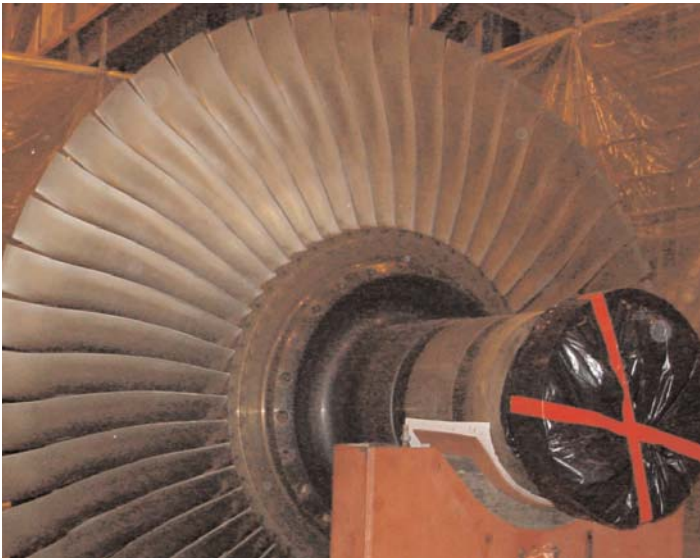
**NO GRINDING MARKS  
FROM HAND-SANDING**



Visit Sponge-Jet, Inc. at  
**[www.Spongejet.com](http://www.Spongejet.com)**  
or call **603-431-6435**  
to learn more about the  
Sponge Blasting System

# Cleaning Turbine Fans in Puerto Rican Power Plant

*A maintenance contractor cleans contaminants from turbine fans using Silver Sponge Media™ abrasive, reduces shutdown time and saved plant money*



A power plant scheduled a month-long shutdown to remove residue and aged surface contaminants from 158m<sup>2</sup> [1,700ft<sup>2</sup>] of stainless steel turbine fans. The turbine's base would also be refurbished and bearings and seals would be replaced. Plant engineers searched for a way to streamline maintenance and reduce the extra cost of sending the turbine out for cleaning. With engineering approval, the project contractor used a low dust and low rebound composite abrasive technology called Sponge-Jet Sponge Media abrasive. Silver Sponge Media abrasive with 220-grit and 320-grit aluminum oxide was selected to remove the contaminants and leave the stainless steel substrate unmarred. The contractor noted the following benefits:

- **Blast-Clean in Sensitive Environments** - Sponge Media abrasives drastically suppress potential airborne dust at the source. As a result, simplistic containment was quickly erected and blast-cleaning took place within just five meters (15ft) from the original turbine location.
- **Limit Shutdown Time** - With process dust efficiently suppressed, trades were able to conduct maintenance on other parts of the turbine without interruption; maintenance that was originally scheduled to begin after blasting-cleaning.
- **Sensitive yet Aggressive** - Silver Sponge Media abrasive provided the perfect combination of abrasiveness and sensitivity to quickly and effectively clean the substrate.



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Using Silver Sponge Media abrasives, the contractor cut the shutdown time by 60% (30 to 10 days), blast-cleaning at 5.5m<sup>2</sup>/hr [1ft<sup>2</sup>/min]. Plant engineers remarked how easily the process was to control and were impressed that nearby trades could continue maintenance during blast-cleaning.