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

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.

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

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

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A power plant scheduled a month-long shutdown to remove residue and aged surface contaminants from 158m² [1,700ft²] 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.

Using Silver Sponge Media abrasives, the contractor cut the shutdown time by 60% (30 to 10 days), blast-cleaning at 5.5m²/hr [1ft²/min]. Plant engineers remarked how easily the process was to control and were impressed that nearby trades could continue maintenance during blast-cleaning.