Remove Paint, Corrosion and Profiling Structural Steel Bases in Amusement Park Play Facility

Overview:
• Structural steel bases in park’s play facility were corroding in dark, humid setting
• Coating failure in many areas
• Park operates 9am to 10pm, year-round
• Short window of opportunity for blasting and painting; allowed only during non-operating hours

Objective:
• Remove paint, existing corrosion where necessary and profile the superstructure’s steel bases, then re-coat
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**Substrate:** steel

**Surface Condition:** peeling paint; mid-grade rust on frame bases

**Specified:**
- NACE 2 to NACE 3 / SSPC SP-6 to SP-10 / Sa2 to Sa2.5
- Commercial Blast Cleaning to Near White Metal Blasting Cleaning

**Desired Profile:** 70 to 80 micron (±3mil)

**Tried Using:**
- Hand-tools; could not effectively remove rust and paint and effectively profile in confined locations (crevices)
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Reasons for Sponge-Jet:
• Sponge Media could blast paint and rust completely in confined spaces (crevices)
• Sponge Media could achieve specification
• Superior profiled surface quality compared to other conventional abrasives

Used:
• 15 bags of Silver 30 and Silver 30DG Sponge Media™ abrasives
• 100-HP Feed Unit™ 35-P Sponge-Jet Recycler™
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Result:

Customer reported that Sponge-Jet blasting was ten times faster than power tool preparation

Outcome:

Park management specified Sponge-Jet blasting on all similar projects

SPONGE-JET BLASTER USING BANANA NOZZLE