

# SCProbond™ Solutions in Power Generation

## Silicon Carbide Applications in Industrial Power Generation Processes

The power generation industry is extremely fast-paced and continuously changing. The varying demands each day require plant management to have optimized efficiency at each step of the process. From fuel prep, to combustion, to scrubbing; drop-in SCProbond™ Silicon Carbide liners can be used to extend outage cycles and minimize process variability. Silicon Carbide is a synthetic material that exhibits high performance characteristics including: high hardness approaching that of diamond, high strength (gains strength at temperature), and excellent chemical, thermal shock, and wear resistance. Each of our SCProbond™ Liners are engineered to offer customers the maximum wear protection with a minimum number of seams. Our resolve to take on new challenges and create larger, more monolithic, drop-in liners as opposed to labor-intensive, tedious tiling solutions sets SCP apart in the ceramics industry. We understand the severe impact that unexpected down-time and shutdowns have on plant efficiency and keep this in mind when designing the custom lining configurations that will offer maximum process uptime.

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**At SCP, our team strives to create efficient, cost-effective, monolithic SiC solutions customized to relieve the following high wear points typically found in industrial power generation applications:**

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- Elbows
- Vortex Finders
- Spigots
- Wyes
- Piping
- Dense Phase Inserts
- Vortex Finders
- Diffusers
- Burner Inlays
- Upper Apexes
- Lower Apexes
- Separators
- Cyclones
- Inlet Heads
- Feedboxes
- Reactor Linings
- Coal Nozzles
- Burner Sleeves



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