

President Larry Grimenstein has over 20 years of experience in thermal spray coatings technology and their successful applications.

Larry's experience began at the Westinghouse Research and Development lab, using metal coatings for quick tooling.

Later at General Electric, he became involved in coatings for Power Generation and the Pulp and Paper Industry with the GE Apparatus Service Department.

Experience as the Plant Manager of General Electric Flame Spray and then as the General Manager of General Plasma, gives Larry additional unique perspectives and experience.

In 1992, Larry founded Nation Coating Systems, Inc., specializing in commercial applications of thermal sprayed materials.



Put Our Team to Work for You.

Since 1992, NCS has become a growing supplier of thermal spray coatings for industrial applications. We are dedicated to developing applications and servicing commercial customers.

To help educate manufacturing engineers and/or maintenance supervisors about changes in thermal spray technology, we offer classes that cover the basics. For pump repairs, we have published several articles and presented technical papers.

Based on our extensive thermal spray background, we can recommend coatings and processes to solve demanding industrial applications. Our solutions go beyond coatings – we work with our customers to maximize the application's performance, reproducibility and quality. These solutions are tailored to your specific coating requirements so you are assured predictable coating performance.

NCS offers new design opportunities with cost saving ideas.

Nation Coating Systems, Inc.

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Member: American Society for Quality
American Welding Society
ASM International
ASM Thermal Spray Society
Better Business Bureau
SME

Papers

Published in: Pump and Systems
AWS Welding Journal

Creative Thermal Spray Coating Solutions that Know No Bounds for Your Industrial Applications

- Greater Wear Resistance
- Part Reclamation
- High-temperature Corrosion Protection
- Thermal Barrier Protection
- Hardfacing
- Extend Service Life
- Shorten Repair Turn-around Time
- Reduce Maintenance Costs
- Lower Premature Failures



Nation Coating Systems

We Provide Rapidly Emerging Applications and Coating Technology.

Nation Coating Systems, Inc. was founded in 1992 to provide the industrial market with the superior coating technology that had been successfully utilized in the aerospace industry.



State-of-the-Art Facilities and Equipment

Our new 8,000 sq. ft. facility is equipped with the newest technology available. We also have a free training class that teaches the basics of thermal spray to area businesses. By educating the industrial base on thermal spray applications, our goal is to create satisfied customers.

Our equipment list includes:

- TAFE JP5000 (HVOF)
- Hitachi Max Jet II (HVOF)
- Metco 6PII Flame Spray
- TAFE 9000
- GMF Robot
- Miller 400R
- Metco 7M Systems
- TAFE 8830 Arc Spray Guns
- 10' BC x 22" Swing Roll Coating
- 8' x 8' x 8' Sandblast Room

Typical Coatings Applications

- Pump Castings/Impellers
- Pump Shafts and Sleeves
- Paper Rolls
- Roll Rebuilding
- Wire Drum Rebuilding
- Gas and Steam Turbine Components



Coatings are Designed in a Variety of Components

- Metals
- Ceramics
- Thermoplastics
- Epoxies
- and combinations of the above



Types of Coatings Offered:

- Impregnation
- Sealing
- Thermal Barrier
- Dielectric
- Wear Resistance
- Conductive
- Hardfacing
- Thermoplastic
- Pump Housing Rebuilding
- Chemical Coating
- Corrosion Protection
- Print Roll Release
- Abradable Seal
- Traction
- Chrome Replacement
- Restoration - up to 10' BC x 22" dia
- Journal Repairs
- Coating Development

