

SERVICE OFFERINGS

Programs, Reliability & Optimization Services



INTRODUCTION

Brand Energy & Infrastructure Services' unmatched experience, expertise and extensive portfolio of service offerings make it the leading provider of specialty services to North America's energy markets. As a natural extension to our diverse service capabilities, Brand PRO|Services utilizes our 50 years' experience in industrial insulation and coatings to offer Programs, Reliability and Optimization Services related to thermal insulation and atmospheric coatings.

PRO|Therm Services utilizes Brand's experience in insulation services, plus our expertise in industry best practices, including winterization programs, noise minimization, personnel protection, insulating coatings and energy conservation studies, to update and optimize any insulation program. Using PRO|Therm Services to develop an optimized insulation system, clients can see a return on their investment through multiple opportunities, including a decrease in energy consumption, a smaller environmental footprint by lowering emissions, a reduction in safety hazards for employees and an increase in process design integrity.

PRO|Coat Services leverages Brand's industrial coating and painting expertise to offer our clients facility assessments, surveys, atmospheric coatings and corrosion management programs to help them identify and manage corrosion-based risks, developing an optimized coatings lifecycle for their facility and its assets. PRO|Coat Services helps clients take a proactive and planned approach to corrosion management and atmospheric coatings programs to reduce their cost per unit and optimize the lifecycle of their coatings. To do this, we focus on identifying the coatings systems that can be upgraded and extended with minimal surface preparation, which is often the largest and most costly component of a coatings project. Recognizing the corrosion risks through industry knowledge, standards and guidelines allows for recoating prior to substantial breakdown, often resulting in a 30 percent reduction of overall unit cost to perform coatings.

Brand PRO|Services proactively supports, manages and maintains the well-being of our clients' assets.

ProServices Offerings

- Heat Loss / Energy Conservation Studies
- Insulation Optimization & Maintenance Programs (IOMS)
- Thermography Services
- Atmospheric Coatings Assessments and Surveys
- Corrosion Management Programs
- CUI Program Support

CASE STUDIES

IDENTIFYING THE "OPTIMIZED COATING LIFE-CYCLE"

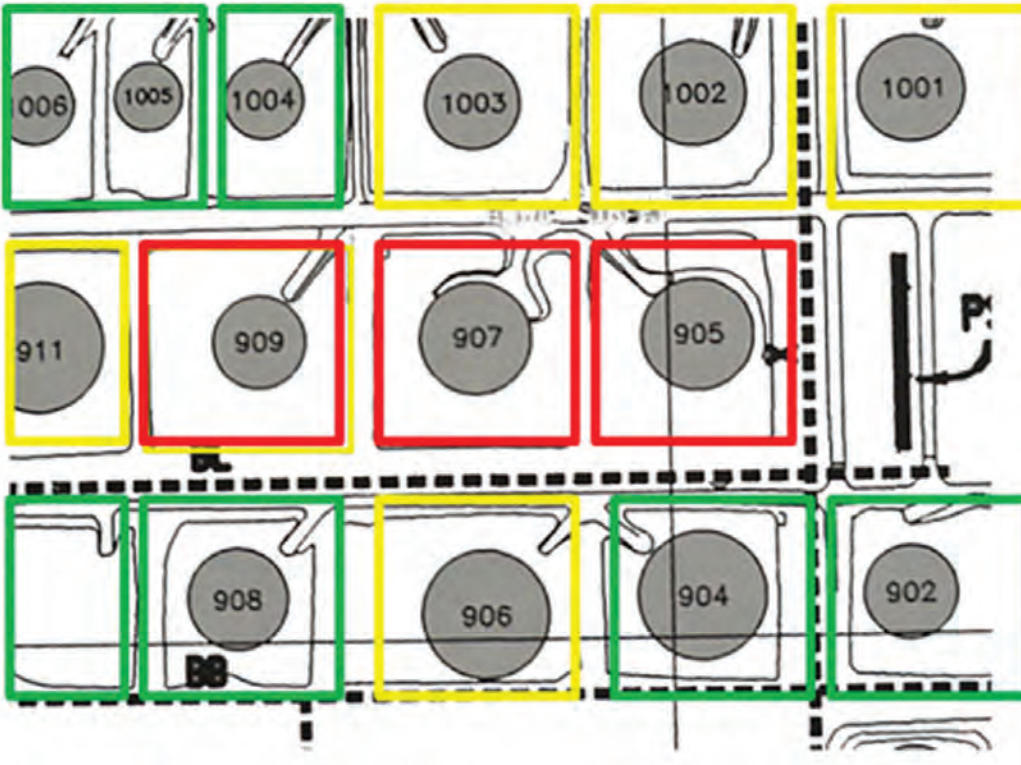
- Use systematic and quantitative approach focused on minimizing surface preparation
- Perform system repairs and renewals prior to substantial breakdown
- Achieve lower cost per unit, maximizing opportunities and avoiding costs
- Requires commitment by client for long-term results
- Common reduction of surface preparation costs results in 30 percent reduction of overall unit cost to perform coatings
- Increase the units mitigated with your existing budget

MAJOR PETROCHEMICAL COMPLEX

United States

As a proven multi-service provider Brand was asked to help the complex identify ways to save money through their bundle of services. Brand found several opportunities including focusing on the facilities energy loss. Brand's approach was to study the high temperature systems in the facility and identify systems with deficient or un-insulated process lines. One item identified was the Delayed Coker Piping system with pipe sizes ranging from 4" to 12". We were able to illustrate how spending \$73,000 on approximately 1,100 lineal foot of pipe would save the complex over \$132,000 per year in energy cost. Additionally this project added value by reducing the carbon footprint of the facility, reduced safety risks by providing well insulated systems that minimized exposures and lastly helped optimize the client's process; it worked better with less energy cost.

The project payback was easy to illustrate in approximately 6 months, based on energy costs alone. Another key item that the client recognized through this exercise is that maintaining this annual savings over a period of 10 years would allow them to invest a small amount of maintenance to that piping system's insulation and over a 10-year period turn the savings into more than \$1 million.



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