

Operational Excellence Services

Decarbonization Fired Heater Improvement

Operational Excellence Services

Decarbonization

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Fired Heater Improvement



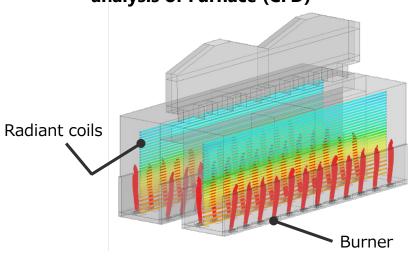
Do you have any of these issues?

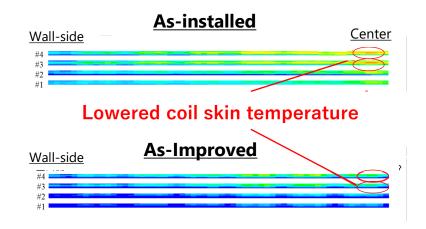
- **Poor performance and unreliable operation**
- Reducing maintenance interval due to severe material degradation
- Need for engineering consulting partner for heater modification

Fired Heater Improvement Solution

- Utilized Computational Fluid Dynamics (CFD) to simulate Combustion and Heat Transfer
- Assessed as-installed Heater Performance based on operation data and CFD Results
- Identified O&M Issues and their Root Causes
- Proposed and Evaluated Performance and Reliability Improvement Plan
 - Burner Layout Optimization for Replacement
 - Windbox Modification for Uniform Air Flow Distribution to each burner
- Provided the Technical Guidance for the Implementation of the proposed solutions





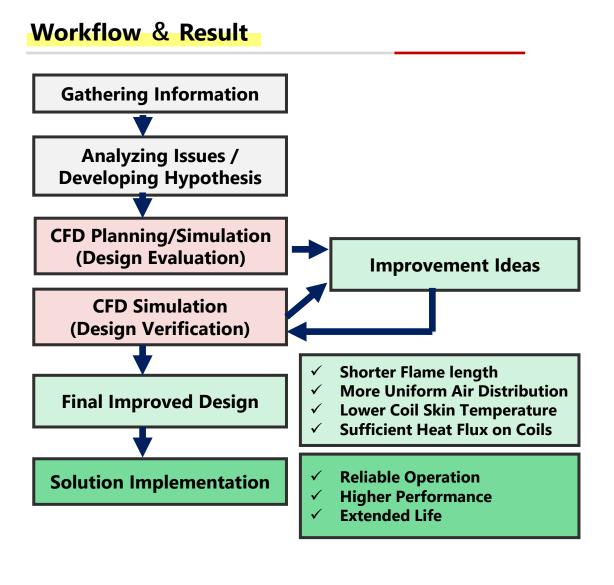


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Fired Heater Improvement







Our Strengths

- Years of experience in serving domestic customers for performance improvement of fired heaters utilizing the advanced CFD simulation
- Extensive experience in Combustion and Heat Transfer modeling and evaluating heater designs
- Collaboration with Material Engineering experts
- Customer-Focused Global Engineering Service Provider

Our Experiences

50 +

Plants

Fired heater design evaluation and improvement studies with the advance CFD simulations

15+

Years

Simulation-based engineering service for plant diagnosis and lifetime improvement

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