

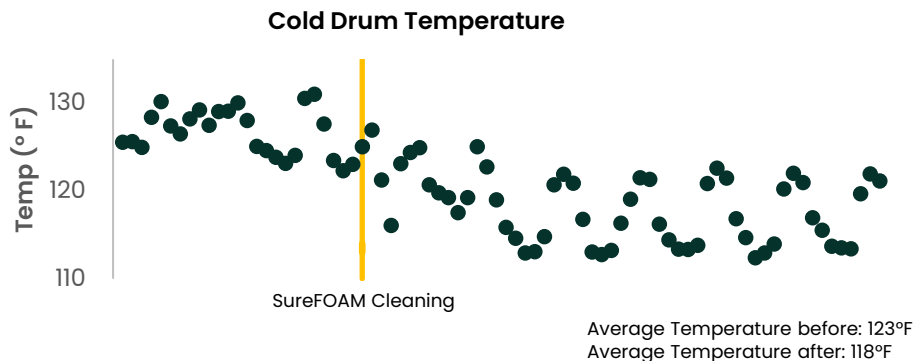
SureFOAM fin fan cleaning service restored original fin fan performance improving unit process, reducing crude rate limitations

CHALLENGES

- 10–20% refinery crude limits while processing an opportunistic crude due to elevated naphtha production
- Limits caused by inefficient overhead cooling due to significant fouling on fin fan banks

SOLUTION

- Fans were shut down two at a time to limit/avoid unit upset in cooling capabilities
- Baker Hughes then utilized the [SureFOAM™ fin fan cleaning service](#) on the tube sheets to:
 - Losen debris adhered to fins
 - Improve airflow and cooling capacity for optimal thermal efficiency and measurable energy savings
 - Restore original fin fan performance with a non-invasive foam generator
- Pre-and post-cleaning diagnostics were provided to the operator



RESULTS

8%

Increase to cooling capacity per fin fan bank

21.5%

Improvement to the operating pressure allowing the refiner to increase crude rates while processing the opportunity crude

100%

Reduction to rate limiting days previously caused by overhead restrictions