



# ICB® JET CASE STUDY

## BACKGROUND

Application: Power Generation Location: CA, USA

Site: 45 MW Gas-Fired Peaker Plant with a GE LM6000 Aeroderivative Gas Turbine

#### PROBLEM

A Peaking Plant's Aeroderivative Gas Turbine failed to start as required based on grid demand. The failure was determined to be the result of varnishaccumulation in the turbine's lube oil system. Oil analysis revealed that the unit's turbine oil had a high MPC varnish potential, increasing the likelihood of similar oil-related fail-to-start events going forward.

### SOLUTION

An SVR® Lubricant Conditioning skid employing ICB® JET filters was installed.

## RESULTS

The installed ICB JET filters effectively removed varnish and its soluble precursors from the site's jet lube, improving its MPC varnish potential by 97% and maintaining its acid number within the application's required range. Since the filters were installed, fail-tostart conditions have been eliminated and the costly jet lube has not needed to be replaced.





**POWER GENERATION** 



