

TECHNICAL OVERVIEW

LCAMP® Software

Overview

LCAMP® is a proprietary software package of Vogt Power International Inc., a Babcock Power Inc. company, which imports and analyzes data from the Plant Data Acquisition System (DAS) and calculates the estimated life consumption of the specified critical component of an HRSG. It may be used in predicting crack initiation and can dynamically measure the effects of various boiler operations on pressure part life.

How LCAMP® is Different from Other Life Utilization Estimation Programs

- Uses existing Station Instrumentation with the addition of drum metal thermocouples
- Can be directly connected to the plant DAS
- Does not require a separate monitor
- Does not need any subjective interpretation or statistical inferences
- Output can be tailored to the specific needs of any plant
- Portability to and from commercial software programs such as Excel
- Experience or proficiency in stress analysis or code interpretation is not required
- Applicable to any OEM's HRSG, including any number of pressure sections and materials

LCAMP® SOFTWARE

Features

Benefits

LCAMP® quantifies the impact of various operating scenarios (start-up, operating and shutdown procedures)

Provides accurate data on equipment effects/life consumption

LCAMP can be coupled with the economic payback of the simulated operation

Supplies a quantitative and objective means for dispatch decision making

LCAMP calculates component end-of-life cycles

Provides economic guide to operate and timeline to inspect unit



TECHNICAL OVERVIEW

LCAMP® Software

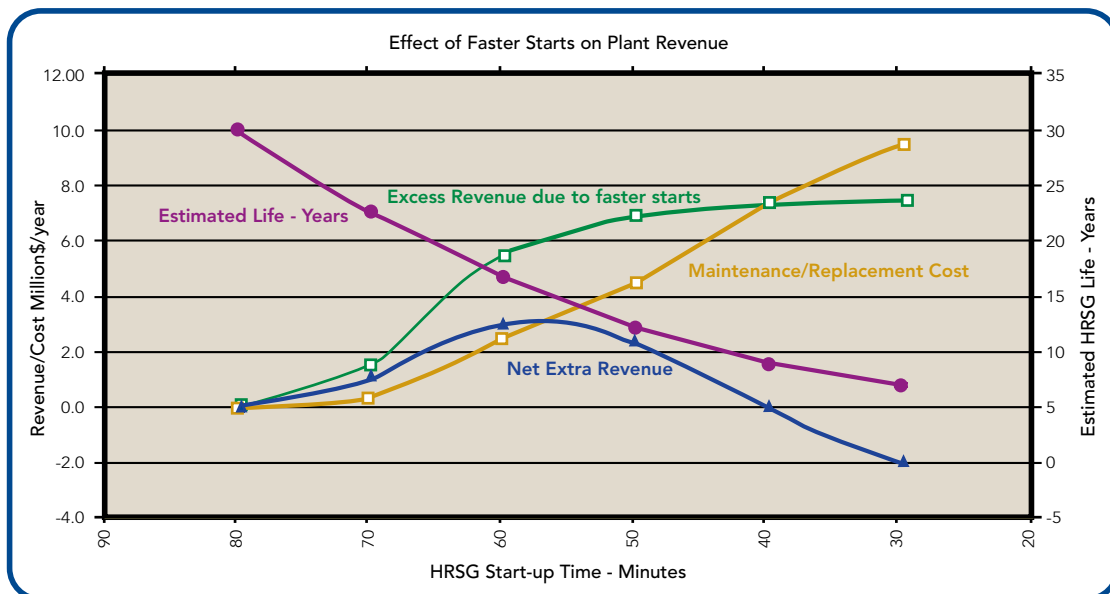
Applications

LCAMP® may be implemented to quantify the impact of various operating scenarios (startup, operating and shutdown procedures) and provides accurate information on the effects or the life consumption of the equipment. This data, when coupled with the economic payback of the simulated operation, can supply a quantitative and objective means for dispatch decision making. (See Figure 1)

What does LCAMP® do?

- Calculates a component(s) end of life based on the expected cycles
- Provides Economic Benefit for how to operate the unit
- Provides warnings on when to provide more detailed inspections

Figure 1



Safety³

People. Power. Projects. We're giving safety the third degree. Babcock Power Inc. and its subsidiaries place the safety, health and security of our people at the core of our company values. Our team is our most valuable resource, generating solutions everyday to deliver safe, clean, reliable energy globally. With a keen focus on safety, Babcock Power Inc. conducts business in a manner that protects our people, our customers and the environment. From innovation to generation, we are proud of our award-winning safety record and are committed to operating with integrity and excellence.

The data contained herein is solely for your information and is not offered, or to be construed, as a warranty or contractual responsibility. © Vogt Power International Inc., 2013

