

# STEAM SURFACE CONDENSERS MODULAR CHANGEOUTS



**TEi**  
a Babcock Power Inc. company

## LEADERS IN HEAT TRANSFER TECHNOLOGY

**THERMAL ENGINEERING INTERNATIONAL (USA) INC.** (TEi), a Babcock Power Inc.® company, is a leading supplier of heat transfer technology to the electric power generation and industrial markets. Backed by more than 100 years experience, we offer fully integrated design, engineering, manufacturing, research and development services.

As the innovator in heat transfer technology, TEi provides exceptional modular changeout options for steam surface condensers. Modular changeouts are an efficient alternative to the conventional retube. Existing condensers can be refurbished, redesigned, and even upgraded to meet new performance demands and power requirements. Complete surface condenser retrofits are possible and can offer a multitude of benefits.

A surface condenser is critical to the efficient operation of a power plant.

**Ensure your steam surface condenser is delivering optimum performance; contact TEi today.**



Steam Surface Condenser Modular Changeout

## FEATURES / BENEFITS

**Reuse existing shell and retain existing connections:**

- Modify existing internal structure

**New drilling pattern:**

- Faster lead time
- Matching replacement support plates

**Cages built and aligned in factory:**

- Reduced outage time
- Facilitation of installation
- Modules delivered directly to site

**Turnkey with TEi Heat Exchanger Services:**

- Full range of heat transfer products and services
- Full-trained and certified maintenance personnel
- Wide range of emergency and planned services
- Skilled technicians available 24 hours/day, 7 days/week and 365 days/year



### ADVANCED TECHNOLOGY AND TECHNIQUES

TEI's R&D efforts in titanium and involvement in complex projects have led directly to highly refined fusion welding techniques. Our modular condenser change-out technology employs advanced metallurgy, proven roll/weld techniques, and enhanced installation methods to provide a long, trouble-free service life.

TEI provides surface condensers for conventional fossil generation, nuclear, biomass, solar, IPP/NUG/Co-Gen technology and programs utilizing advanced cycle configurations. Our designs incorporate enhanced deaeration systems, and can accommodate a variety of steam turbine exhaust options to optimize plant layouts.

### LOS ANGELES HEADQUARTERS

Design teams provide integrated product engineering, resulting in single-point responsibility for design and manufacturing.

### JOPLIN, MISSOURI MACHINING CENTER

Equipped with sophisticated tooling necessary for the precise drilling of tubesheets and support plates. Large floor and lay-down areas eliminate assembly bottle necks and promote efficient material flow.

### CERTIFIED SHOP PER THE FOLLOWING:

9001 : 2008

ASME Section I & Section VIII

Chinese Manufacturing License, PED, CRN

National Board U, S, R

Military Standards

IOCFR—Nuclear Non-Safety Related

### AWARD RECIPIENT

SHARP (Safety & Health Achievement Recognition Program 2009–14)

FM Global Manufacturing Award of Excellence 2009

TECO Westinghouse Blue Diamond Award 2009

Deviation Management System tools to identify, record, analyze non-conformances and improve quality control system.



SAFETY<sup>3</sup> PEOPLE. POWER. PROJECTS.

We're giving safety the third degree.

Babcock Power Inc. ally. 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.

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