



# Remaining Life Assessment

## How much life is left in your steam generator?



### *Return On Investment*

Operation and Maintenance of old plants can be a challenging. Key questions are:

- What is the right level of maintenance expenditure / investment?
- How much longer can your steam generator run profitably?

The answers to these questions require careful analysis of the design and operating O&M history, with projection of the future operating regime.

### *Assessing the damage...*

The damage mechanisms affecting your boiler's service life are varied and many. The assessment methods are just as numerous. We analyse historical records of failures, operating data and excursion records, and talk to plant staff to understand the challenges that the plant will face in the future. The scope of service can include pressure and non-pressure parts, such as:

- Superheaters and Reheaters
- Evaporators and Waterwall
- Economisers
- Firebox and Burners
- Gas-Air Preheaters
- Air Fans
- Other Auxiliary Components



### *Damage Mechanisms*

- Fatigue
- Creep
- Thermal Shock
- Fireside Corrosion
- FAC
- Chemical Attack
- Poor Design / Build
- Operating Excursions

### *Tetra Engineering*

Have delivered field and analytical services to combined-cycle plants and conventional boilers for more than 25 years, at client sites around the world.

### *Contact Us*

For more information please call our offices or visit our website.

[www.tetra-eng.com](http://www.tetra-eng.com)

#### USA

Tetra Engineering Group Inc.  
110 Hopmeadow St.  
Weatogue, CT. 06089  
Tel. +1-860-651-4622

#### Europe

Tetra Engineering (Europe) S.A.R.L.  
Immeuble Petra A, B.P. 272  
06905 Sophia Antipolis, France  
Tel. +33 (0)4 92 96 92 54

#### Middle East

Tetra Engineering Middle East FZ-LLC  
Executive Office 20, 6<sup>th</sup> Floor,  
Aurora Tower  
Dubai Media City, Dubai, UAE