



Industrie Service

**Choose certainty.
Add value.**

www.tuev-sued.com

Integrity Assessment and Fitness for Service

A Product Information Sheet by the Plant Engineering Business Unit

Integrity Analyses

To assess the impact of flaws on reliability and safety TÜV SÜD relies on modern and internationally accepted methods and tools and on a highly qualified and experienced staff. Flaws, induced by manufacturing as well as those arising from operational activity, are evaluated concerning the present state and future loading conditions. This is the basis for determining an adequate safety margin for the next operational period in combination with a suitable inspection program for the component's remaining lifetime.

Our Services

As an independent consultancy and service provider, TÜV SÜD offers to perform or to review stress analyses, in particular:

- Admissibility of detected flaws
- Determination of allowable loads
- Determination of critical crack length and depth
- Leakage-before-Break Analyses
- Crack growth estimation
- Feasibility of rupture

- Optimisation of inspection measures and determination of detection limits for non destructive testing
- Fitness for Purpose, Fitness for Service
- Estimation of remaining lifetime

Your Benefits

The systematic involvement of all our experts within TÜV SÜD and the combined know-how of our expert teams guarantee excellent and cost-efficient results, even in the case of challenging technical applications.

- ▶ Indication if continuing service is safe or if repair or replacement of the component is advisable
- ▶ Identification of causes of component failure and also how to prevent any future occurrence
- ▶ Continuing service in accordance with safety margins
- ▶ Adapted maintenance concepts

We provide worldwide services.

TÜV SÜD Industrie Service GmbH

Westendstraße 199 · 80686 Munich · Germany · Tel. +49 89 5791-1227

Contact: Dr. Robert Kauer · E-mail: robert.kauer@tuev-sued.de

TÜV®