



# Life Assessment of Reactors/Pressure vessel

TCR offers specialized services like life assessment/condition assessment of reactors and pressure vessels or other industrial components by evaluating the metallurgical integrity vis-à-vis operating demands of the equipment. This is done by testing of vessel/ reactor by series of NDT techniques like, Visual examination, Ultrasonic testing (UT), Magnetic Particle Inspection (MPI), Dye Penetration (DP), Thickness survey, Hardness survey, In-situ metallography, Positive Material Identification (PMI), Oxide Thickness measurement and many other advanced techniques.

TCR has competent and trained manpower to perform these testing in the shortest duration possible to reduce the downtime of the plants to meet the stringent production targets. TCR has solved more than 1000 case studies of different industries and brought to your door step as valuable experience to provide solution to critical industrial problems. We have unique understating of various damage mechanisms such as corrosion, fatigue and creep.

Our unique approach comprises of correlating the testing/inspection data with the design parameters of the reactor/vessel to assess the integrity. TCR is routinely banking upon the in house team of experts to evaluate the design aspects such as allowable stress/ pressure, allowable temperature, based on the national and

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**Call us for a Consultation**

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**Experts In Metallography and failure**