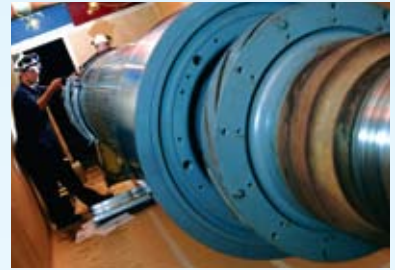


Generator rotor inspections



Generator Rotor Inspections ensure the integrity of the rotor for future safe and reliable operation. Advanced automated ultrasonic inspection, eddy current array inspection and fluorescent magnetic particle and dye penetrant inspections are utilised to detect flaws in the rotor forging and components.

Product

- rotor bore inspection using automated scanner which carries out eddy current surface inspection of the bore and ultrasonic volumetric inspection of rotor forging
- automated ultrasonic and eddy current inspection of austenitic generator rotor end rings in situ on the rotor and also with the rotor in situ in the stator
- fluorescent dye penetrant and eddy current surface inspection of austenitic end rings removed from the rotor
- ultrasonic phased array inspection of aluminium wedge bars in situ in the rotor
- ultrasonic inspection of the rotor teeth using phased array scanning techniques
- ultrasonic inspection of cooling fan rivets
- revalidation of rotor forging integrity using fluorescent magnetic particle and eddy current surface inspection techniques and automated advanced ultrasonic techniques.

Benefits

- safe predictable operation of generator rotor avoiding premature failure of rotor forging and components
- significant cost savings compared to dismantling rotor components for inspection
- advanced ultrasonic and eddy current techniques used to provide accurate defect sizes for life assessment
- access of RWE Power International expert and authoritative advice in the assessment of rotor integrity.