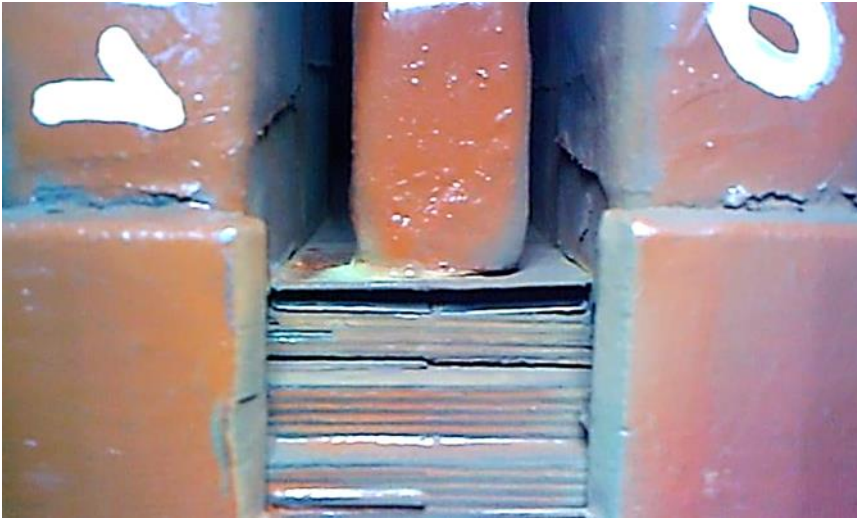


Hydropower from VERBUND

Visual offline-inspection at the laminated core of a stator for detecting and preventing buckling-damage



Are you planning a revision of your power plant or do you want to be aware of the current level of quality of your existing plants or system components? In this case a precise inventory and condition assessment followed by measure planning is something you cannot do without. Extensive know-how and years of experience make VERBUND your reliable partner.

VERBUND offers specific expertise on visual inspection of laminated cores of large hydro generators for detecting and preventing damage through buckling of laminated cores. In order to carry out and computationally evaluate inspections of laminated cores of stators, VERBUND provides first class specialists and state-of-the-art test equipment that we have developed ourselves.

Our services

- Inspection of the entire slot exit area
 - Photographic documentation
 - Wireless, state-of-the-art measurement equipment
 - High resolution colour images
 - Heat-/Cold-inspections.

Picture:

Visual inspection for detecting potentially damaged areas



Positioning of the inspection device at the rotor and camera alignment



Precise slot allocation and comparison heat-/cold-inspection

- Evaluation of the images
 - Software-assisted evaluation
 - Damage assessment
 - Recommendations on repair measures
- Experience
 - In-house development of an expert system for visual inspection
 - Years of experience with the inspection of generators
- Competent testing staff
 - Electro-technical experts in the field of rotating machines
- Extent of our services:
 - Inspection equipment (Buckling Visualisation System)
 - Setup/assembly of the inspection device
 - Carrying out and coordinating the inspection (warm/cold)
 - Evaluation of the footage
 - Test report with photographic condition documentation
 - Professional recommendations without repairing interests



Buckling Visualisation System

Expert system for fast and safe offline inspections of the slot exit area

VERBUND is Austria's leading electricity company and one of the largest producers of electricity from hydropower in Europe. For 70 years we have been co-shaping the future of energy for upcoming generations, at the moment we are operating more than 120 hydropower plants in Austria and Bavaria (Germany).

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