

USER: Power Plant

DESCRIPTION OF THE PROBLEM: A leakage of the transformer oil through untight welds connecting the sheets is an important problem in the utilization of transformers. In spite of a huge carefulness of the welders, it turns out that the problem of "sweating" of the welds is rather frequent, which requires welding corrections during tightness tests or already in the user's premises.

DESCRIPTION OF THE REPAIR: There was suggested a preventive coverage of the whole length of the welds inside the container (transformer TON 40000/110) with **Chester Metal Ceramic F**. The welds put on sanded or polished sheets after defatting with **Chester Cleaner** were covered with the aforementioned material with the help of a short, rigid brush.

ACHIEVED EFFECTS: A test of the tightness of a small container wrongly welded on purpose and protected with the aforementioned technology was carried out in this plant in the Transformers Assembly Department. The pressure test of 0.8 MPa with a penetrator and a lamp showed 100% of tightness of the protected welds. The preventive protection of the welds will allow us avoid costs connected with guarantee (or postguarantee) repairs resulting from the necessity to remove the leakage or dribbling of the oil outside the machine.

