CASE STUDY BY MERSEN

HIGH FREQUENCY INFLUENCE ON THE DRIVE SYSTEM OF A DETACHABLE CHAIRLIFT AT OBERSTORF OK MOUNTAIN RAILWAYS - GERMANY

THE ISSUE, IN SHORT

The See-Eck-Bahn is a detachable chairlift used at the Oberstdorf OK Mountain ski resort.

After installing new power modules in the frequency converter of the main drive, **errors occurred in the clamping force measurement**.

Furthermore, the **data connection to the snowmaker system broke down** when the lift drive was put into operation.



Leitner rope way overhead drive

SERVICE ASSIGNMENT OF MERSEN ÖSTERREICH HITTISAU

1 - ANALYSIS: EVALUATION OF THE GROUNDING SYSTEM

After overall system inspection, analysis and high-frequency measurement, it appeared that the existing grounding system was not designed for HF-Influence.



Existing grounding system



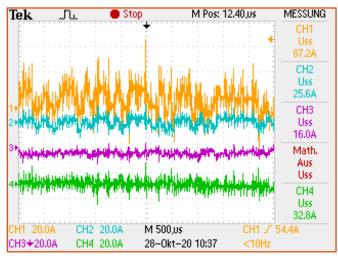
MERSEN PROPERTY





2 – ACTION

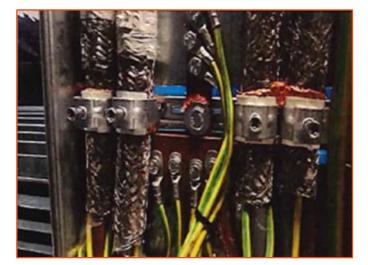
The Mersen's team performed technical support for the improvement of the earthing system and the installation of damping cores.







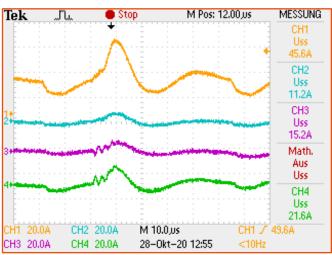
Damping cores installed



Earthing system improved for HF-Influence

After the system check by Mersen, the installation of the damping cores and the

improvement of the earthing system, the



Result of the HF measurements with damping cores

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SUCCESSFUL ACTION

problems are solved.

