



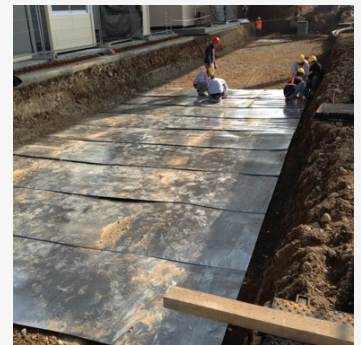
MEDIUM VOLTAGE EXPO LINES

Description of the problem

The presented case involves a group of medium voltage (MV) lines having a capacity of about 420A each. The installation was made at the site hosting the Expo and where personnel might remain above a source for over 4 hours. Therefore, a reduction in magnetic induction levels was required.

Solution

The solution found to be most advantageous in terms of shielding efficiency was that achieved with plates of a ferromagnetic material protected by hot-dip galvanizing. The figure provides a picture of the shielding system installation.



Results

The shielding system makes it possible to achieve a significant reduction in magnetic induction levels. The figure to the side shows that, at floor level near the edges of the shielding, a level of 3 microT is not even reached.

