

Case Study

Monitoring Solution for Bridges

Juli 2014



Project: New Bridge on highway A8

Customer:
PPP-Konsortium (Private-Public-Partnership)

Initial situation:

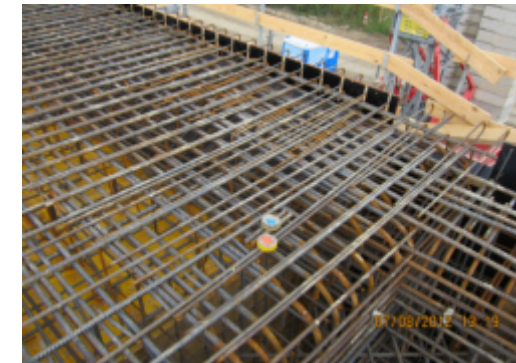
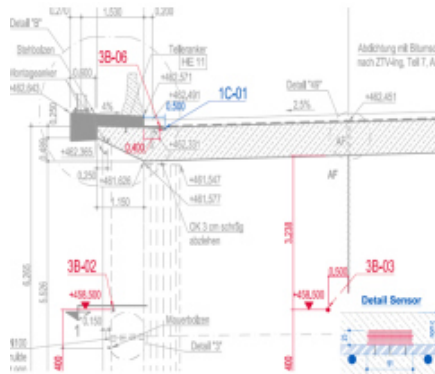
Within a PPP-Project the concessionaire planned the installation of humidity and corrosion sensors.

The objective of planning in the new builded area was to detect damage in the area of the caps and joints early enough before they appear on surface. Because of the fact that a very long warranty period has been agreed, it was necessary to observe the technologically-related vulnerabilities and the effectiveness of surface protection systems used over a very long period.



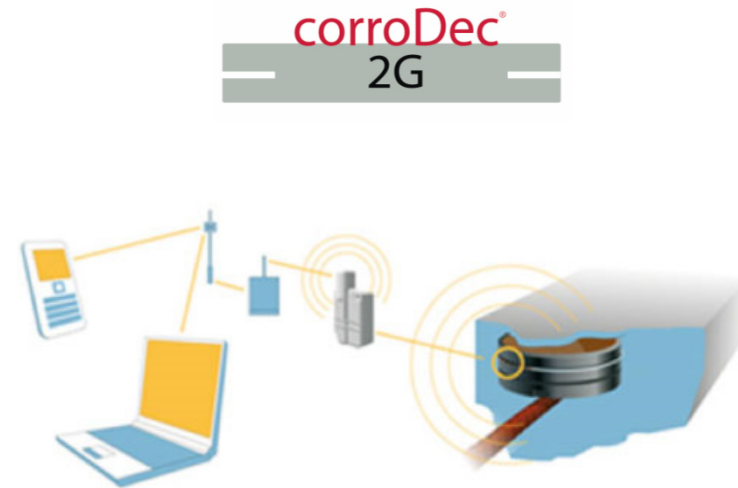
Solution:

According to the damage occurring in the future in the field of technology-related vulnerabilities and the cap area, humidity and corrosion sensors had been installed.





Version 1 – Manual reading (Hand Held device)



Version 2 – Automatic remote reading (via Internet)

The readout of the data was performed by the hand held reading device on site. With the new generation of sensors CorroDec2G this is now easily possible from a distance.

Additional value:

- ✓ Cost reduction in concrete repair
- ✓ Differentiated repair in case of failure of the OS
- ✓ Reduction of inspection costs
- ✓ Control of inspection intervals
- ✓ Reduced idle periods with later repairs