

Signs of early coating degradation have been monitored by the ReCorr® QCQ Device on an offshore jacketed platform within 15 months of the coating renewal. Impedance was also measured on coated carbon steel samples of various geometries protected by various coating systems, that mimicked the platform construction elements and that were exposed for one year, at a shoreline, approximately 2 m from the sea. Single point measurements have been done on various locations of the platform and on the samples at the exposure site, three times in 15 months. Both, impedance spectra and single-point measurements were done in the laboratory after the exposure of the samples had ended. The coating impedance of dry samples that was measured under laboratory conditions ( $T=23\pm 2\text{ }^\circ\text{C}$  and  $35\pm 5\% \text{ RH}$ ) varied between  $10^{11}$  and  $10^6 \Omega \text{ cm}^2$  showing a permanent loss of the barrier action of some of the coating systems. Typical shapes of the impedance spectra of the tested offshore coating systems and the appending impedances @0.1 Hz are shown in figures below. **Enhanced visual monitoring is recommended for the critical coating areas detected by the ReCorr® QCQ measurements.**

