

Electron Microscopy and Surface Analysis of MIC Deposits on HPR Flanges

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After a high pressure rinse (HPR) of a 9-cell cavity, located at Argonne, an oil-like substance and brown residue were found in the system manifold and on the seals and an end flange connected to the cavity. EDS revealed that the organic nodules were microbes resulting from Microbiologically Influenced Corrosion (MIC) that occurred throughout the HPR.

Primary author: BASTIDOS, Amanda (University of Texas at El Paso)

Presenter: BASTIDOS, Amanda (University of Texas at El Paso)