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Subject: Compliance with NACE standards

Some of our valued end users request that our products are NACE certified or compliant, specifically in regards to H₂S applications.

First, it should be noted that only the corrosion engineers and inspectors are certified by NACE. Product certification does not exist at this time and according to NACE, is not planned. As such, NACE certification can not be offered by Emerson Process Management for any of our Gas Chromatographs or system solutions.

Regarding compliance to NACE standards in H₂S measurement service or environments, NACE MR0175 is the most frequently referenced standard. From this standard, the following are most applicable:

- Chapter 5, General Principles, of NACE MR0175/ISO 15156-1:2009 states that qualification of materials for H₂S service depends on a detailed understanding of the service conditions. The standard specifies limitations for generally acceptable use of materials and it is up to the end user to determine that the materials are qualified for the service.
- Chapter 7, Selection of Pre-qualified Materials Resistant to SSC/SCC in the Presence of Sulfides, states that there are materials that are pre-qualified under the conditions prescribed in subsequent parts of the standard.
- Emerson gas chromatographs use only 316SS in wetted metal applications. In other areas peripherally exposed to sulfides, such as the external environment, 304SS and aluminum are also used.
- NACE MR0175/ISO 15156-3: 2009 specifies that within the temperatures, pressures and exposures that are normal for GCs, these materials are acceptable. (Table A-2 and Table A-4, Paragraph A.12.2)

It is important to recognize the intent of the development of the NACE standards was to prevent oil field and pipeline failures that could ultimately lead to human injuries or fatalities. In regards to this intent, the Emerson Process Management GCs are compliant, not certified, to NACE MR0175.

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