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Foreword

This NACE standard establishes material requirements for resistance to sulfide stress cracking (SSC) in sour refinery process environments, i.e., environments that contain wet hydrogen sulfide (H₂S). It is intended to be used by refineries, equipment manufacturers, engineering contractors, and construction contractors.

The term "wet H₂S cracking" as used in the refining industry covers a range of damage mechanisms that can occur because of the effects of hydrogen charging in wet H₂S refinery or gas plant process environments. One of the types of material damage that can occur as a result of hydrogen charging is SSC of hard weldments and microstructures, which is addressed by this standard. Other types of material damage include hydrogen blistering, hydrogen-induced cracking (HIC), and stress-oriented hydrogen-induced cracking (SOHIC), which are not addressed by this standard.

Historically many end users, industry organizations (e.g., API⁽¹⁾), and manufacturers that have specified and supplied equipment and products such as rotating equipment and valves to the refining industry have used NACE MR0175/ISO⁽²⁾ 15156¹ to establish materials requirements to prevent SSC. However, it has always been recognized that refining environments are outside the scope of NACE MR0175/ISO 15156, which was developed specifically for the oil and gas production industry. In 2000, NACE Task Group (TG) 231 was formed to develop a refinery-specific sour service materials standard. This standard is based on the good experience gained with NACE MR0175/ISO 15156, but tailored to refinery environments and applications. Other references for this standard are NACE SP0296,² NACE Publication 8X194,³ NACE Publication 8X294,⁴ and the refining experience of the task group members.

The materials, heat treatments, and materials property requirements set forth in this standard represent the best judgment and experience of TG 231 and its two sponsors, Specific Technology Group (STG) 34, "Petroleum Refining and Gas Processing Industry Corrosion," and STG 60, "Corrosion Mechanisms." In many cases this judgment is based on extensive experience in the oil and gas production industry, as documented in NACE MR0175/ISO 15156, and has been deemed relevant to the refining industry by the task group.

⁽¹⁾ American Petroleum Institute (API), 1220 L St. NW, Washington, DC 20005-4070.

⁽²⁾ International Organization for Standardization (ISO), 1 ch. de la Voie-Creuse, Case postale 56, CH-1211 Geneva 20, Switzerland.

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