



API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

In design and fabrication, it is advisable to avoid sharp changes in cross section, such as short radius fillets or undercut that can give rise to _____.

Long-seam welds are particularly susceptible to reheat cracking due to mismatch caused by fit up problems.

- A. Stress concentrations
- B. Cracking
- C. Circumferential stress
- D. All of the above

Correct Answer: A

QUESTION 2

Stainless steel cyclones, piping ductwork and valves in high temperature FCC regeneration service are susceptible areas for _____.

- A. Brittle fracture
- B. Sigma phase
- C. Cavitation
- D. Corrosion fatigue

Correct Answer: B

QUESTION 3

_____ is the main concern during start-up, shutdown and/or hydro testing for equipment/piping operating at elevated temperatures. This event can also occur in an auto refrigeration event in units processing light hydrocarbons.

- A. Stress fracture
- B. Carburization
- C. Spheroidization
- D. Brittle fracture

Correct Answer: D

QUESTION 4



A quick test for embrittlement from _____ is a bend test or crush test. Unaffected material will be crushed in a ductile fashion while embrittled components will crack with no signs of ductility.

- A. Titanium Hydriding
- B. Temper embrittlement
- C. Caustic embrittlement
- D. None of the above.

Correct Answer: A

QUESTION 5

With sulfuric acid corrosion, mix points with _____ cause heat to be released and high corrosion rates can occur where the acid becomes diluted.

- A. Water
- B. Hydrogen
- C. H₂S
- D. Caustic

Correct Answer: A

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