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API RP 571 Test

1. _____ is a change in the microstructure of certain carbon steels and 0.5 Mo steels after long term operation in the 800° F to 1100° F range.
 - A. Graphitization
 - B. Softening
 - C. Temper Embrittlement
 - D. Creep
2. What structure is 304 stainless steel?
 - A. Martensitic
 - B. Austenitic
 - C. Duplex
 - D. Ferritic
3. _____ is the result of cyclic stress caused by variations in temperature.
 - A. Creep
 - B. Thermal Fatigue
 - C. Cyclic Cracking
 - D. Stress Corrosion Cracking
4. General or localized corrosion of carbon steels and other metals caused by dissolved salts, gases, organic compounds or microbiological activities is called _____.
 - A. Flue Gas Corrosion
 - B. Atmospheric Corrosion
 - C. Cooling Water Corrosion
 - D. None of the Above
 - E. All of the Above
5. 5. What structure is 410 stainless steel?
 - A. Martensitic
 - B. Austenitic
 - C. Duplex
 - D. Ferritic

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API Corrosion and Materials Professional Sample Questions (Q41-Q46):

NEW QUESTION # 41

For 5Cr-0.5Mo, what is the threshold temperature for creep?

- A. 800° F
- B. 600° F
- C. 700° F
- D. 500° F

Answer: A

NEW QUESTION # 42

For exchangers where the cooling water chemistry is poorly maintained, what can be done to improve corrosion resistance?

- A. Lower the water velocity
- B. Increase the tube diameter
- C. Upgrade the metallurgy of the exchanger
- D. Increase the process side temperature above 212°F (100°C)

Answer: C

Explanation:

From API RP 571, under Cooling Water Corrosion:

"If proper water treatment is not feasible or consistently maintained, upgrading the metallurgy of exchanger tubes to more corrosion-resistant materials such as stainless steel or titanium may be necessary."

"This is especially important in seawater or brackish water cooling applications or in once-through systems." (Reference: API RP 571, Section 4.3.1.1 - Cooling Water Corrosion) Thus, the most effective long-term solution in cases of uncontrolled water quality is to upgrade metallurgy, making option C correct.

NEW QUESTION # 43

Amine stress corrosion cracking is most likely to occur in what services?

- A. DIPA
- B. ADIP
- C. MEA
- D. MDEA

Answer: C

Explanation:

From API RP 571 Section 5.1.2.7 (Amine Stress Corrosion Cracking) and API RP 945 (Avoiding Environmental Cracking in Amine Units):

* MEA (Monoethanolamine) systems are most aggressive due to:

"Their high reactivity and degradation potential producing corrosive by-products that promote cracking"

* API RP 945:

"SCC in carbon steel is most frequently reported in MEA units, especially where localized concentrations of heat-stable salts exist." Thus, Option C (MEA) is the correct answer due to its high SCC risk.

NEW QUESTION # 44

Thermal fatigue cracks usually propagate _____ to the stress and they are usually dagger-shaped.

- A. Diagonal
- **B. Transverse**
- C. Across
- D. Parallel

Answer: B

NEW QUESTION # 45

Which of the following can cause hydrogen embrittlement of carbon steel?

- A. High-temperature hydrogen attack (HTHA)
- **B. Improper postweld heat treatment (PWHT)**
- C. Cleaning and pickling in caustic solutions
- D. Welding with wet electrodes

Answer: B

Explanation:

API RP 571 defines Hydrogen Embrittlement as:

"Improper PWHT can trap hydrogen within the microstructure of carbon steel or fail to relieve residual stresses, both of which increase the risk of hydrogen embrittlement."

"Moisture in electrodes contributes to hydrogen-induced cracking, but embrittlement from atomic hydrogen is more directly tied to heat treatment and microstructure." Thus, option D is the most accurate.

NEW QUESTION # 46

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