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Substituting NDE procedures for a pressure test after major repair may be done only after:

API 510 5.8.8.1 ✓✓The engineer and inspector have approved.

An example of vessels not covered by API 510 are:

API 510 1.1.1 ✓✓Vessels officially retired from service and abandoned in place.

ACFM is an acronym for:

ASME SEC 5 Article 15 ✓✓Alternating Current Field Measurement

A pneumatic testing procedure should be developed by whom before conducting the test?

API 510 5.8.6 ✓✓Engineer

A signal of discontinuity in the material under nondestructive examination is considered:

API RP 577 3.1.36 ✓✓Indication

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100% Pass Quiz API-510 - Accurate Testking Pressure Vessel Inspector Exam Questions

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API Pressure Vessel Inspector Sample Questions (Q98-Q103):

NEW QUESTION # 98

What can be done to extend the life of a vessel with a corroded area in the shell plate 6 inches from the weld, a joint efficiency of less than 1, and a corrosion thickness currently near the minimum required thickness?

- A. Recalculate t minimum for current operating conditions using $E = 1$.
- **B. Monitor the thickness during the run**
- C. Recalculate t minimum for design conditions using $E = 1$.
- D. Recalculate t minimum for current operating conditions using $E < 1$.

Answer: B

NEW QUESTION # 99

If a vessel is subjected to temperatures above design, what may happen

- A. Precipitation at the grain boundaries may occur.
- B. The rupture disk may implode
- C. The relief device may fail
- **D. Creep of the vessel's material may occur**

Answer: D

NEW QUESTION # 100

Explain the significance of maintaining a corrosion monitoring program for pressure vessels under API-510 and describe the typical methodologies used.

Answer:

Explanation:

Maintaining a corrosion monitoring program as outlined in API-510 is crucial for assessing the integrity and longevity of pressure vessels. This program helps identify corrosion rates and areas prone to corrosion, enabling proactive maintenance and repairs to prevent failures. Typical methodologies include visual inspection, ultrasonic thickness measurements, and the use of corrosion coupons or probes that measure the rate of material loss over time. Such proactive monitoring is essential in environments known for aggressive corrosive action, ensuring that maintenance and inspection schedules can be adjusted based on actual corrosion data rather than just theoretical models.

NEW QUESTION # 101

Widely scattered pits may be ignored as long as all but which of the following is true?

- A. Total area of pits does not exceed 7 square inches in any 8" diameter circle
- B. No pit depth greater than 1/2 the vessel wall exclusive of the corrosion allowance
- **C. No pit depth greater than 2/3 the vessel wall exclusive of the corrosion allowance**
- D. Sum of dimensions along a straight line does not exceed 2 inches

Answer: C

NEW QUESTION # 102

What can be done to extend the life of a vessel with a corroded area in the shell plate 6 inches from the weld, a joint efficiency of less than 1, and a corrosion thickness currently near the minimum required thickness?

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