1 / 12 · I. Inspection intervals, corrosion rates and remaining life

How is the long-term corrosion rate worked out?

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2 / 12 · I. Inspection intervals, corrosion rates and remaining life

How is the short-term corrosion rate worked out?

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3 / 12 · I. Inspection intervals, corrosion rates and remaining life

Long-term and short-term rates differ. Which one governs?

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4 / 12 · I. Inspection intervals, corrosion rates and remaining life

How is remaining life calculated?

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5 / 12 · I. Inspection intervals, corrosion rates and remaining life

Readings 0.552 in. then 0.504 in. six years apart. Short-term rate?

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6 / 12 · I. Inspection intervals, corrosion rates and remaining life

Actual 0.504 in., required 0.440 in., rate 0.008 in./yr. Remaining life?

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2 / 12 · I. Inspection intervals, corrosion rates and remaining life

Thickness loss between the two most recent readings, divided by the years between them.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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1 / 12 · I. Inspection intervals, corrosion rates and remaining life

Thickness loss between the first and the latest reading, divided by the years between them.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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4 / 12 · I. Inspection intervals, corrosion rates and remaining life

Remaining life = (actual thickness - required thickness) / corrosion rate.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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3 / 12 · I. Inspection intervals, corrosion rates and remaining life

The one the inspector judges best reflects current and expected process conditions. It is a judgement, not automatically the higher or lower.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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6 / 12 · I. Inspection intervals, corrosion rates and remaining life

(0.504 - 0.440) / 0.008 = 0.064 / 0.008 = 8.0 years.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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5 / 12 · I. Inspection intervals, corrosion rates and remaining life

(0.552 - 0.504) / 6 = 0.008 in./yr.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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7 / 12 · I. Inspection intervals, corrosion rates and remaining life

A rate is given in mpy. How do you use it with thicknesses in inches?

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8 / 12 · I. Inspection intervals, corrosion rates and remaining life

A vessel has several CMLs. Which one sets the vessel's remaining life?

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9 / 12 · I. Inspection intervals, corrosion rates and remaining life

Actual 0.300 in., rate 0.010 in./yr. Projected thickness in 4 years?

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10 / 12 · I. Inspection intervals, corrosion rates and remaining life

What is the default internal or on-stream inspection interval?

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11 / 12 · I. Inspection intervals, corrosion rates and remaining life

Remaining life 8 years. Default internal interval?

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12 / 12 · I. Inspection intervals, corrosion rates and remaining life

Remaining life 30 years. Default internal interval?

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8 / 12 · I. Inspection intervals, corrosion rates and remaining life

The CML with the shortest remaining life, which is not always the thinnest or the fastest-corroding one.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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7 / 12 · I. Inspection intervals, corrosion rates and remaining life

Divide by 1,000: 1 mpy is 0.001 in./yr. 5 mpy is 0.005 in./yr.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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10 / 12 · I. Inspection intervals, corrosion rates and remaining life

Half the remaining life or 10 years, whichever is less.

API 510, the part on inspection and testing intervals

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9 / 12 · I. Inspection intervals, corrosion rates and remaining life

0.300 - 4 x 0.010 = 0.260 in. Compare it with the required thickness before setting the next date.

API 510, the part on evaluating inspection data (corrosion rate and remaining life)

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12 / 12 · I. Inspection intervals, corrosion rates and remaining life

Half is 15 years, but the cap is 10, so 10 years.

API 510, the part on inspection and testing intervals

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11 / 12 · I. Inspection intervals, corrosion rates and remaining life

Half of 8 is 4 years, which is under 10, so 4 years.

API 510, the part on inspection and testing intervals

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