1 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Which document governs the inspection and evaluation of a tank that is already in service?

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2 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

What does API 650 cover?

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3 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

What are the Annex C checklists for?

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4 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Name four shell distortions to evaluate.

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5 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Can a crack in a shell plate be averaged away like general corrosion?

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6 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

What can cathodic protection under a tank bottom protect?

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2 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

New welded steel tanks: materials, design, fabrication, erection, inspection of joints, and welding procedure and welder qualification.

API 650 scope

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1 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

API 653. It points back to API 650 for specific construction rules, but API 650 itself is the standard for new tanks.

API 653 scope; API 650 scope

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4 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Out-of-roundness, buckling, peaking and banding at welds.

API 653 Section 4; API RP 575

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3 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

A guide to completeness for in-service and out-of-service inspections. They aid judgment; they do not replace it.

API 653 Annex C

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6 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Only steel in contact with the soil (the underside). It does nothing for the product side.

API RP 651

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5 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

No. Cracks are evaluated and normally removed and repaired.

API 653 Section 4; API RP 575

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7 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Galvanic anodes versus impressed current: which needs a rectifier?

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8 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

What can stop CP current from reaching a tank bottom?

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9 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Name four causes of tank bottom lining failure.

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10 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

How is a finished bottom lining checked for pinholes?

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11 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Why is GMAW short-circuiting transfer prone to lack of fusion on thick plate?

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12 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Name the three stages of welding inspection.

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8 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

An impermeable liner or a second bottom between the anodes and the bottom.

API RP 651: need for cathodic protection

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7 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Impressed current. Galvanic (sacrificial) anodes drive their own current with no outside power.

API RP 651: methods of cathodic protection

longseam.com · free API 653 check

10 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

By holiday testing.

API RP 652: application

longseam.com · free API 653 check

9 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Poor surface preparation, soluble salts left in pits, application over a damp surface, and wrong mixing or cure (also mechanical damage and product incompatibility).

API RP 652: causes of lining failure

longseam.com · free API 653 check

12 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

Before welding (procedure, welder, fit-up, materials), during welding (preheat, technique, cleaning) and after welding (visual, NDE, records).

API RP 577: welding inspection

longseam.com · free API 653 check

11 / 12 · V. Practical knowledge - specific (API 653 and 650, RP 571 listed mechanisms, RP 575, RP 576, RP 577, RP 651, RP 652)

It runs cool, so thick sidewalls may not melt.

API RP 577: welding processes

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