

Soil Side Corrosion Calculation for Asset ID h

Asset Name/ID

h

Soil-side base corrosion rate known?

If the soil-side base corrosion rate not known, CRSB=0.13 mm/yr will be assumed for a typical AST under average conditions defined in Table 2.B.14.3 API 581

No

Please include measured or estimated soil-side corrosion rate, CRSB

Measured or estimated soil-side corrosion rate in mm/yr

0

CRSB for calculations

0.13

Soil resistivity

Select soil resistivity (ohm-cm). If not known, then a moderately Corrosive Soil is assumed for an ASTs with RPBs Corrosive, resistivity 500 to 1,000 (ohm-cm)

FSR

The soil-side corrosion rate correction factor for soil conditions

1.25

AST Pad Type

Select the type of pad or foundation that the AST rests upon

High resistivity low chloride sand

FPA

The soil-side corrosion rate correction factor for AST pad type

0.7

AST Drainage

Select the type of drainage when AST exposed to rainwater or storms

Storm water collects at AST base

FTD

The soil-side corrosion rate correction factor for drainage

2

CP at bottom

Select the type of cathodic protection at the AST bottom

Yes not per API 651

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FCP

The soil-side corrosion rate correction factor for CP

0.66

Bottom type

Select the AST Bottom Type

RPB per API 650

FTB

The soil-side corrosion rate correction factor for AST bottom type

1

Operating Temperature range

Selection in (°F)

Temp ≤ 24

FST

The soil-side corrosion rate correction factor for temperature

1

Corrosion Rate soil side MM/YR

0.15015

Corrosion Rate soil side MPY

5.9114055

Corrosion Damage Morphology

Localized thinning

Remaining Life and Next Inspection Date Calculation

Corrosion Rate (overwritten)

Corrosion Rate Overwritten by the user

No

Material Thickness Units

Units of the thickness

in

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T Actual

Current thickness of the material

0.9

T Required

Minimum required thickness for safe operation

0.85

Selected Date

Start date of the remaining life

Tue Apr 01 2025

Remaining Life years/Retirement date

8.46 / Sat Sep 17 2033