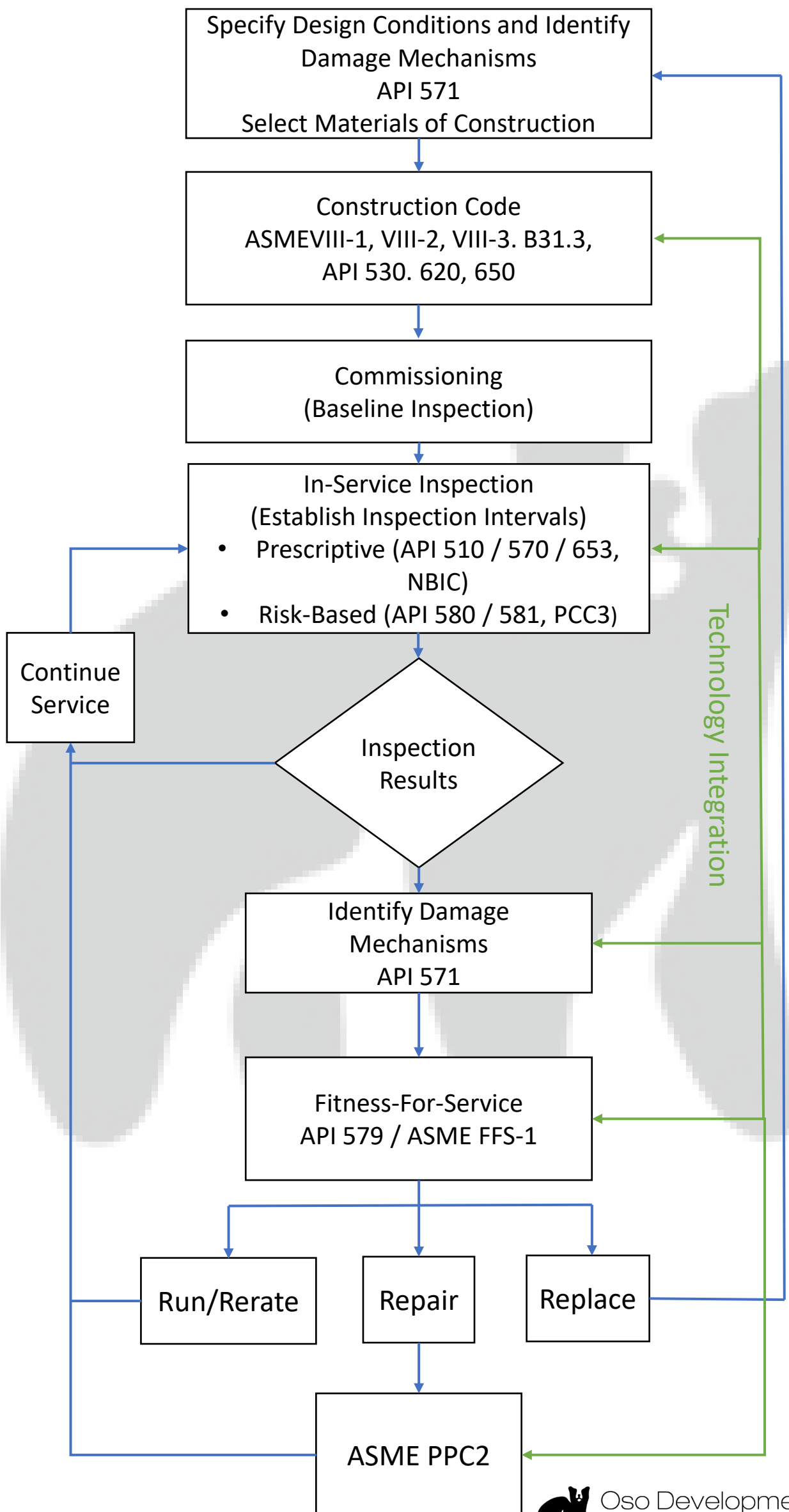


Life-Cycle Management of Fixed Equipment



1 - Damage Mechanism Identification

- API 571 – Damage Mechanisms Affecting Fixed Equipment in the Refining Industry

2 - Design & Construction Standards

- API 530 / ISO 13704 Calculation of Heater-Tube Thickness Petroleum Refineries
- API 620 Design and Construction of Large, Welded, Low-Pressure Storage Tanks
- API 650 Welded Tanks for Oil Storage
- ASME B&PV Code, Section VIII – Division 1 Rules for Construction of Pressure Vessels
- ASME B&PV Code, Section VIII – Division 2 Rules for Construction of Pressure Vessels - Alternative Rules
- ASME B&PV Code, Section VIII – Division 3 Rules for Construction of Pressure Vessels – Alternative Rules for Construction of High-Pressure Vessels
- ASME B31.3 Process Piping

3 – In-Service Inspection Codes

- API 510 Pressure Vessel Inspection Code: Maintenance Inspection, Rerating and Alteration
- API 570 Piping Inspection Code: Maintenance Inspection, Rerating and Alteration of In-Service Piping Systems
- API 653 – Tank Inspection, Repair, Alteration, and Reconstruction
- NB-23 National Board Code
- API RP 580 Risk Based Inspection
- API RP 581 Risk Based Inspection Technology
- ASME PCC-3 Inspection Planning Using Risk-Based Methods

4 – Fitness for Service

- API Std 579-1 Fitness for Service
- ASME FFS-1 Fitness for Service

5 – Repair

- ASME PCC-2 Standards for Repair of Pressure Equipment and Piping

Complementary

ASME PCC-1 Guidelines for Pressure Boundary Bolted Flange Joint Assembly

API RP 520 / 521 Pressure Relief Systems (PRS)

API RP 572 Inspection Pressure Vessels (Towers, Drums, Reactors, Heat Exchanges, etc.)

API RP 573 Inspection of Fired Boilers and Heaters

API RP 574 Inspection Practices for Piping System Components

API RP 575 Inspection of Atmospheric & Low-Pressure Storage Tanks

API RP 576 Inspection of Pressure-Relieving Devices

API RP 577 Welding & Metallurgy

API RP 583 Corrosion Under Insulation

API RP 584 Integrity Operating Window

API RP 585 Pressure Equipment Investigation

API RP 936 Refractory

API RP 941 High Temperature Hydrogen Attack



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