

API 579 Fitness-For Service for Nozzles and Flanges (APIFFSB)

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MODULE OVERVIEW

Module Capability - The APIFFSB module is used to evaluate in-service damage that occurs in general Type B components (Nozzles and Flanges) as described in API 579-1/ASME FFS-1: Fitness-For-Service (API 579) [1]. The damage categories available for analysis and the corresponding Part in API 579 are shown in Table 1. Type B component analysis is always considered a Level 2 assessment.

Applicability and Limitations - The original Code design limitations must be satisfied before a fitness-for-service analysis can be performed. The details of the various Code limitations are described in applicability and limitations part of the NOZZLE user manual for nozzle reinforcement zones and the FLANGE user manual for custom or standard flanges. The fitness-for-service calculations are always performed in conjunction with the original Code design calculations, and any Code limitations that are not satisfied will be reported in the software output. The applicability and limitations for a fitness-for-service assessment are determined based on the type of damage. Each Part in API 579 has a specific set of limitations that must be satisfied. The list of limitations is reported in the software output, and the calculation results are not valid unless all the limitations are satisfied.

MODULE USAGE

APIFFSB modules can be attached to a Folder node or to a Flange or a Nozzle.

Module Creating Instructions - [SagePlus - Creating a Module](#)

Calculation Instructions - [Initiate a Calculation](#), [View Progress](#) and [View Calculated Results](#)

ANALYSIS METHOD AND ASSUMPTIONS

— GEOMETRIC CONSIDERATIONS

Discontinuity Distance - The discontinuity distance is the measured distance between the extent of the damage being evaluated and the nearest change in geometry that results in a significant bending stress in the shell.

Examples of structural discontinuities are shell to head junctions, conical shell transitions, nozzles, stiffening rings, and other shell attachments. A numeric stress analysis may be performed to determine if a structural discontinuity causes significant elevated stress in the damaged region, but that capability is not included in the APIFFS module. The discontinuity distance is a limitation in many of the parts in API 579.

Weld Distance - The weld distance is measured distance between the extent of the damage being evaluated and the nearest weld. This limitation is used in the evaluation of damage that is sensitive to the heat affected zone (HAZ) of a weld, such as hydrogen damage.

Damage Distance - The damage distance is measured distance between the extent of the damage being evaluated and the nearest separate damaged region. In most cases, this distance is used to protect against interaction of multiple separate regions of damage and may be used as a criteria for combining regions of damage. The software does not currently handle the input of multiple regions of damage, and combination of damaged regions must be done manually based on the rules in the governing damage part in API 579.

— LOADING CONSIDERATIONS

Critical Exposure Temperature - The critical exposure temperature is the minimum metal temperature that a component could be subject to at a significant stress level. It may conservatively set to the coldest environmental temperature based on operation or atmospheric conditions. The critical exposure temperature is used for evaluations where the material toughness is a function of temperature and brittle fracture is a concern. This applies to multiple parts in API 579.

Operating Envelope - An operating envelope is a series of pressure-temperature pairs that describe a typical transient operating condition for a component. Start up or shut down conditions should be used for components with steady state operation. The operating envelope is used in conjunction with the Part 3 brittle fracture screening rules and typically only needs to be considered for cold temperature operating conditions.

— INSPECTION REQUIREMENTS

General Requirements - The general inspection requirements based on damage mechanism is provided in Table 2. Thickness readings for Type B components are required to be taken within a thickness averaging zone as

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