

# Main changes in BV NI 611 Guidelines for Fatigue Assessment of Ships and Offshore Units

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Main changes in Bureau Veritas Guidelines for the Fatigue Assessment of Ships and Offshore Units, November 2020 edition, regarding the previous edition (September 2016)

- In addition to steel materials, NI 611 is also applicable to stainless steel and aluminium alloys
- Modification due to IACS CSR Rule Change Notice 1 July 2018 (See Sec 3)
- Clarification of applicable SN curves in particular for cut edges details (See Sec 9)
- Modification of mean stress correction factor to take into account the residual stress relaxation (shakedown effect). Introduction of a mean stress correction factor for direct calculation (See Sec 10)
- Clarification of stress to be used for spectral analysis (See Sec 11 [3.3])
- Modification of intermittent wetting footprint for spectral analysis in short-term and long-term approach (See Sec 11 [3.9])
- Clarification of stress to be used for time-domain analysis (See Sec 11 [4.2])
- Introduction of stress long-term distribution as Weibull function for crack propagation (See Sec 12 [5.4])
- Introduction of fatigue strength for aluminium alloys plated welded details (see Appendix 2)
- Correction of various editorial mistakes.