

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

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.