Marine Traffic Noise Impact Assessment

Marine Traffic Noise Impact Assessment Methodology

A.1.1.1.1 A summary of equations adopted in the marine traffic noise assessment is given in table below:

 Table A1.1 Summary of equations for marine traffic noise assessment

| Parameters | Equations |
|----------------|--|
| SEL, dB(A) | $SEL = L_{max} + 10 \log(kd/V),$ |
| | where |
| | Lmax = Measured marine traffic passby noise level, dB(A) |
| | k = Empirical constant |
| | d = Perpendicular distance between measurement location and |
| | the marine traffic, m |
| | V = Speed of the marine traffic, m/s |
| Leq 1hr, dB(A) | $L^{eq\;1hr}=SEL-10log(d^{1}\!/d)-10log(T)+10log(N)+FC$ |
| | where |
| | d1 = Perpendicular slant distance between marine traffic and |
| | NSR, m |
| | T = Time period under consideration (3600), s |
| | N = Number of marine traffic |
| | FC = With 3 dB(A) facade correction |

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