

Memorandum

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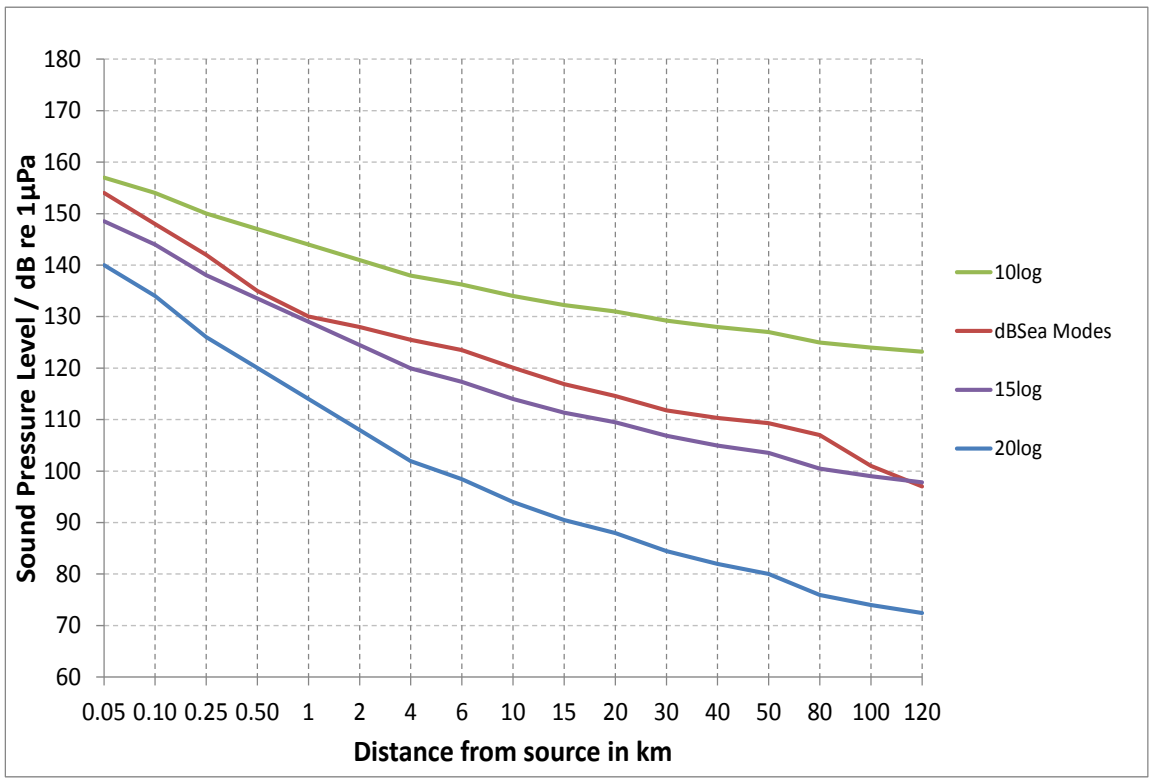
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Subject TTRL - Distance Reduction Data

From

File/Ref No. 60540430 Date 22-May-2017

The DMC requested that I expand the distance attenuation data to closer distances to the proposed activity. Accordingly, I have included distances down to 50 metres. I have also included a 15log.R geometric calculation to compare against the 'spherical' 20log and 'cylindrical' 10log calculations. The dBSea Modes output from the complex noise modelling is also included. With spherical modelling the sound level reduces by 6 dB every time the distance is doubled, whereas with cylindrical spreading the sound level reduction is 3 dB for each doubling of distance.



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