

Text of Oral Submission to Open Floor Hearing 2 – Dr David Moore

I am Dr David Moore and I am an Interested Party. I am a Chartered Engineer, and a Fellow of the Institution of Mechanical Engineers.

I submitted a 38-page Written Representation on the 10th October in respect of Tritax's Noise and vibration report. The approach and questions from the Examining Authority I heard yesterday strongly suggest that nobody with an Acoustics background has properly understood either Tritax's report or my Written Representation.

In view of this, I am concentrating here on just one of Tritax's failings, which in itself is grave enough to wash away all of the latter part of Tritax's report and results. The errors I am talking about here are of the order of 15 to 20dB, which is a game changer.

Much of Tritax's report depends upon the values of the existing noise levels at the Noise Sensitive Receptors, or NSRs. There are two key parameters here, called background noise and ambient noise.

Tritax's report first gathers noise data at six Noise Monitoring Positions or NMPs positioned beside the rail track or the road and from which it derives those same two key parameters of background noise and ambient noise. Of course these values are **local** to the track (or road). Let's talk track here.

Tritax then apply both of those values directly to the NSRs. Now, for the background noise, this is an accepted thing to do. But for the ambient noise it is certainly not the accepted thing to do and in fact it is gravely wrong. This is because an attenuation must be applied to reflect that the NSR is further away from the track than the Noise Monitoring Position where the **local** measurement was made.

Three of these NSRs for example are located at approximately 430 metres away from the track, and so an attenuation of 16dB needs to be applied. So the ambient noise attributed by Tritax to those NSRs of 59.2dB should in fact be 43.2dB.

This methodological error percolates down through the remainder of Tritax's report, and in fact would inevitably grow in dB stature because of the effect upon the rating values that are subsequently applied. So, a new Noise report.

I beseech you, in the strongest possible terms, get Tritax's report and my Written Representation in front of somebody with a strong technical Acoustics background.

Now would be best, while there is still time for Tritax and Interested Parties to respond, and the Proposed Development is not yet built.

I have only a 3 minute window, and so have described only one thing.

Thank you.