

Department for Transport

Survey of Noise Attitudes (SoNA) 2014: Aircraft Noise and Annoyance

Second Edition

Peer Review

Prepared by

Dr Hannah Devine-Wright

Placewise Ltd

&

Stephen Turner, MA, MSc, HonFIOA

Stephen Turner Acoustics Limited

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1 Introduction

- 1.1 Placewise Limited (PW) and Stephen Turner Acoustics Limited (STA) have been commissioned by the Department for Transport (DfT) to carry out a peer review of this second edition of CAP 1506 – Survey of Noise Attitudes 2014 (SoNA2014): Aircraft Noise and Annoyance.
- 1.2 The comments set out below provide the outcome of this peer review. They should be read in conjunction with the report PW/STA3 published as CAP1506c which describes the peer review of the first edition of CAP1506, published in 2017.
- 1.3 The need to publish a second edition of CAP1506 (CAP1506(2)) arose from two issues. Firstly, the discovery, from a separate study carried out by Heathrow Airport Limited, the noise model (ANCON) used to predict the noise exposure for most of the respondents in SoNA2014 underestimated $L_{A\text{Smax}}$ noise levels for several important aircraft types. The second issue concerned the realisation that, in determining average N65 and N70 values in SoNA2014, logarithmic averaging had been inadvertently used instead of arithmetic averaging.

2 Potential Consequences for SoNA2014 Analysis

- 2.1 Whilst it is very disappointing that these issues have occurred, The Environmental Research Consultancy Department of the Civil Aviation Authority (ERCD) should be given credit for identifying them. Furthermore, the peer reviewers concur with the observation set out at paragraph 1.7 of the Preface to CAP 1506(2) that:

Neither of these issues have affected the results for L_{eq} or L_{den} , nor the relationships between those indicators and percentage highly annoyed (in particular the results in Table 25 remain unaffected).