**INSTITUTE OF ACOUSTICS**

**IOA CONSULTATION DOCUMENT ON THE**

**SUPPLEMENTARY GUIDANCE NOTES**

**NOVEMBER 2013**

**FOREWARD**

\*\* PLEASE READ \*\*

This consultation document has been produced by a working group on behalf of the Institute of Acoustics consisting of the following members:

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A series of six Supplementary Guidance Notes (SGN) has been produced to supplement the IOA document ‘A GOOD PRACTICE GUIDE TO THE APPLICATION OF ETSU-R-97 FOR THE ASSESSMENT AND RATING OF WIND TURBINE NOISE’ which is available on the IOA website at the following link: <http://www.ioa.org.uk/pdf/ioa-gpg-on-wtna-issue-01-05-2013.pdf> (checked 04.11.13).

Any comments on the documents should be sent to ETSUCONSULT@IOA.ORG.UK

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**Supplementary Guidance Notes**

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| **Number** | **Title** | **Information** |
| **1** | **Data Collection** | Equipment specifications; measurement surveys:Practical considerations and set-up guidance and examples. |
| **2** | **Data Processing &** **Derivation of ETSU-R-97 background curves** | Data filtering, processing and regression analysis for different types of noise environments. |
| **3** | **Sound Power Level Data** | Manufacturer’s data and warranties analysis. |
| **4** | **Wind Shear** | Wind speed references and long-term data analysis. |
| **5** | **Post Completion measurements** | Examples, considerations and strategies. |
| **6** | **Noise Propagation over water for on-shore wind turbines** | Noise propagation for on – shore turbines, or those close to the shore over large bodies of water. |

The closing date for the receipt of comments is **Friday 24th January 2014**. Late comments may not be reflected in the final documents.

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# Introduction to the consultation

## Background

### The Institute of Acoustics Noise Working Group (IOA NWG) has prepared six Supplementary Guidance Notes for the purpose of consultation to IOA Members and other interested parties on what should be considered good practice in the application of ETSU-R-97 for wind turbine noise assessment.

### The IOA NWG has tried to set out the main issues in a way that explains the rationale behind those issues. The intention of the IOA NWG post-consultation is to be as definitive on what can be considered as “good practice” as possible for the final documents, but at this consultation stage, some aspects have been discussed in more depth to promote discussion, and to ensure that an informed response to the consultation can be provided.

### The Institute of Acoustics is also holding a workshop where members can discuss the issues in more depth.

### Feedback is encouraged on all aspects of the documents, whether positive or negative, with suggestions for omissions and amendments as appropriate. Please amend the box sizes as appropriate to your response.

# Consultation Responses

## SGN 1

### Please provide comment in relation to the SGN dealing with Data Collection:

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## SGN 2

### Please provide comment in relation to the SGN dealing with Data Processing & Derivation of ETSU-R-97 background curves:

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## SGN 3

### Please provide comment in relation to the SGN dealing with Sound Power Level Data:

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## SGN 4

### Please provide comment in relation to the SGN dealing with Wind Shear:

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## SGN 5

### Please provide comment in relation to the SGN dealing with Post Completion measurements:

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## SGN 6

### Please provide comment in relation to the SGN dealing with Noise Propagation over water for on-shore wind turbines:

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## Publication & Your details

### It is the intention of the working group to publish any / all responses received (removing the contact details). Please confirm that you would be happy for this by ticking the box below.

I agree to the IOA publishing my response (please tick as appropriate)

I do not agree to the IOA publishing my response (please tick as appropriate)

### Please provide your name and contact details in case the working group wishes to clarify any of the points raised in your feedback:

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The IOA NWG thanks you for your help in completing this document.

Richard Perkins

Working Group Chair