

DISCIPLINE INFORMATION NOTE

Fire & Explosion - General

DIN No	CD5/049	Issue Date	December 2005
Open Government Status	Fully Open	Review Date	December 2008

THE HOIS2000 INTERACTIVE KNOWLEDGE BASE FOR NDT

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Introduction, Technical Information, Recommend a Technique, Access, Conclusions

1. INTRODUCTION

As members of HOIS2000, a Joint Industry Project dedicated to promoting and developing Non Destructive Testing (NDT) on behalf of the oil and gas industries, HSE has full and free access rights to an Interactive Knowledge Base (IKB) covering all aspects of NDT.

This DIN gives a brief outline on what the IKB can offer and information on how to access the information. It is recommended that to fully appreciate the possibilities of the IKB, users browse the technical information and test the 'Recommend a technique' on a component for which they have some experience.

2. TECHNICAL INFORMATION

The IKB is a database containing a wealth of information on both traditional and advanced NDT techniques for metal components. It places special emphasis on the capability of each technique as applied to a large variety of inspection situations by using published data on probabilities of detection and performance data drawn up by committees of experts.

The technical information gives details on the basic science behind each technique followed by information on the techniques status – mature, emerging or new to market. There are details on materials and geometries, equipment suppliers, applicable standards, personnel certification as well as pictures of equipment and output screens.

It is recommended that the technical information within the IKB should be used to assess any NDT report found during an Inspection to ensure that the limitations of the technique as used have been fully understood by the client.

3. RECOMMEND A TECHNIQUE

'Recommend a technique' is an interactive tool which prompts you to detail your required inspection by a series of questions. These relate to the component shape and material, access, available funds etc. The more questions that you can answer the more confidence you can have in the techniques that are recommended.

The recommendations come in a final report giving each technique a percentage – the nearer to 100% the better the match. But it is important to look at the detail of the report, not just the percentages, as a good technique may have a low score due to, for example, a

request for a hard copy of the NDT report where the technique gives a report on screen only.

It is recommended that Inspectors use the 'recommend a technique' where they find that the technique used does not appear to be correct from the limitations given in the 'technical information'.

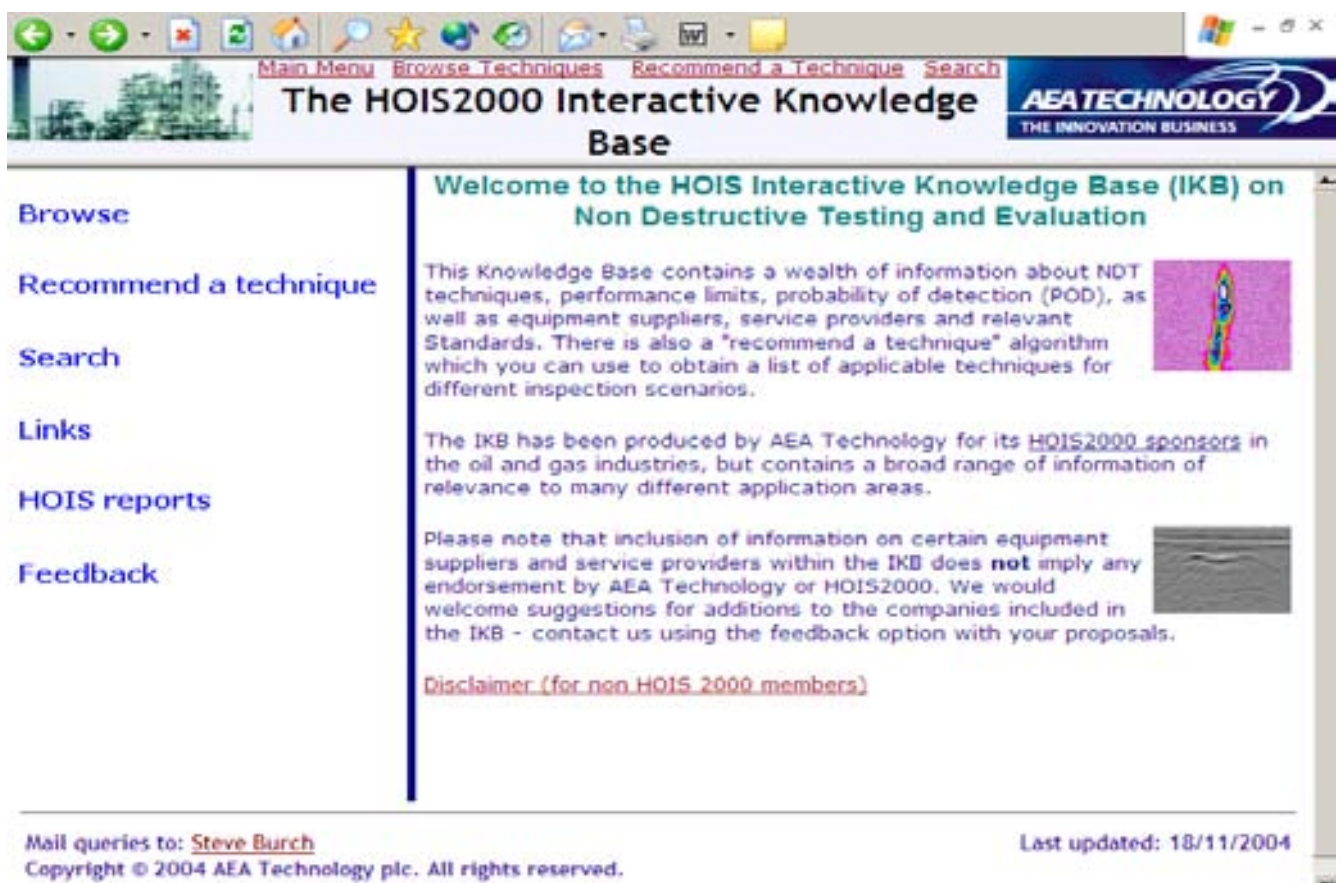
4. ACCESS

The IKB can be accessed at <http://hois-ikb.aeat.co.uk/application2000/> and then entering a user name and password – these can be obtained from Raman Patel in HID OSD. If any user has comments on the IKB these should also be directed to Raman Patel, as he is the HSE project officer for the HOIS2000 contract.

The Dti are setting up a very similar website with AEAT for an IKB for composite materials. This is freely available at the following web address - www.netcomposites.com/ikb

5. CONCLUSIONS

The IKB is free for all HSE/HSL users and it is recommended that the technical information is used to help check that NDT is being correctly applied. Where there is doubt the 'recommend a technique' should be used to check for alternative NDT solutions.



The screenshot shows a web browser window displaying the 'The HOIS2000 Interactive Knowledge Base' website. The browser's address bar shows the URL <http://hois-ikb.aeat.co.uk/application2000/>. The website has a navigation menu with links for 'Main Menu', 'Browse Techniques', 'Recommend a Technique', and 'Search'. The main content area is titled 'Welcome to the HOIS Interactive Knowledge Base (IKB) on Non Destructive Testing and Evaluation'. It contains three paragraphs of text, each accompanied by a small image: a vertical crack in a material, a close-up of a surface, and a grayscale image of a crack. The text describes the IKB's purpose, its production by AEA Technology, and includes a disclaimer for non-members. The footer contains contact information for Steve Burch and a copyright notice for 2004 AEA Technology plc.

Mail queries to: [Steve Burch](mailto:Steve.Burch@aeat.co.uk)
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Last updated: 18/11/2004