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Methods for

Assessing the performance characteristics of ultrasonic flaw detection equipment —

**Part 1: Overall performance: on-site
methods**

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British Non-ferrous Metals Federation	United Kingdom Atomic Energy Authority
Institute of Physics	Welding Institute

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Contents

	Page
Cooperating organizations	Inside front cover
Foreword	ii
1 Scope	1
2 References	1
3 Terms and definitions	1
4 Range of checks	1
5 Linearity of the time base	1
6 Calibration of the time base	2
7 Linearity of equipment gain	2
8 Probe index	3
9 Beam angle	3
10 Sensitivity and signal-to-noise ratio	4
11 Beam alignment (squint)	4
12 Beam width in vertical plane	5
13 Pulse duration	5
Standards publications referred to	Inside back cover

Foreword

This British Standard, which is a revision of the 1968 edition of BS 4331-1, has been prepared under the direction of the Mechanical Engineering Standards Committee. Experience in the application of the previous edition has indicated that this Part of the standard should essentially be concerned with the routine practical checking of ultrasonic flaw detection equipment either on site or on the shop floor.

This revision accordingly describes the checks which are considered particularly suitable to be carried out by the operator of the equipment on site to ensure that it is functioning satisfactorily for the purpose of the tests to be conducted. No equipment other than standard steel calibration blocks in accordance with BS 2704 is required.

For detailed checking of the electrical performance of the equipment, reference should be made to Part 2 of this standard; guidance on the in-service monitoring of contact probes is provided in Part 3. It is emphasized that personnel responsible for assessing performance characteristics should be fully conversant with the equipment and with its application to meet the requirements of relevant testing standards.

The methods described in this standard would not normally be applicable to automated ultrasonic testing systems nor to equipment intended for medical or biological use, in both of which special considerations arise.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.