

1.3.5. TESTING INTEGRITY OF MANUAL PHASED ARRAY ULTRASONIC INSPECTION

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S-Scan sector scan imaging is most commonly used for manual ultrasonic inspection with use of phased array technology. Very convincing S-Scan screen makes an impression of complete coverage of the insonified cross-section of the object under test however simple steering of the ultrasonic beam does not provide the needful testing integrity. The effects influencing testing integrity are highlighted and the practical measures to rectify them are discussed in the lecture.