

MANDATORY APPENDIX I
GLOSSARY OF TERMS FOR NONDESTRUCTIVE EXAMINATION

Existing	Proposed
<p>I-121.2 UT — Ultrasonics.</p> <p><i>attenuator</i>: a device for altering the amplitude of an ultrasonic indication in known increments, usually decibels.</p> <p>←</p> <p><i>automated ultrasonic examinations (AUT)</i>: a technique of ultrasonic examination performed with equipment and search units that are mechanically mounted and guided, remotely operated, and motor-controlled (driven) without adjustments by the technician. The equipment used to perform the examinations is capable of recording the ultrasonic response data, including the scanning positions, by means of integral encoding devices such that imaging of the acquired data can be performed.</p>	<p><u>Insert</u></p> <p><i>automated scanner</i>: automated scanners are fully mechanized, and, after being attached to the component, maintain an index and offset position of the search unit and are manipulated by using an independent motor controller without being handled during operation.</p>
<p>←</p> <p><i>loss of back reflection</i>: an absence or significant reduction in the amplitude of the indication from the back surface of the part under examination.</p> <p>←</p> <p><i>Manual Ultrasonic Examinations (MUT) or Encoded Manual Ultrasonic Examinations (EMUT)</i>: a technique of ultrasonic examination performed with search units that are manipulated by hand without the aid of any mechanical guidance system. Manual techniques may be encoded such that imaging of the acquired data can be performed.</p>	<p><u>Insert</u></p> <p><i>manual scanning</i>: a technique of ultrasonic examination performed with search units that are manipulated by hand, and without data collection.</p>
<p>←</p> <p><i>noise</i>: any undesired signal (electrical or acoustic) that tends to interfere with the reception, interpretation, or processing of the desired signal.</p> <p>←</p> <p><i>nonparallel or longitudinal scan</i>: a scan whereby the probe pair motion is perpendicular to the ultrasonic beam (e.g., parallel to the weld axis).</p>	<p><u>Insert</u></p> <p><i>nonautomated scanner</i>: nonautomated scanners are operated without a mechanical means of holding an index or search unit offset position. Nonautomated scanners are propelled manually by the operator and have no means of holding or maintaining probe position once released.</p>
<p>Corrected Definition Text</p>	<p>Highlighted text above previously said "Manual"</p>
<p>←</p> <p><i>SAFT-UT</i>: Synthetic Aperture Focusing Technique for ultrasonic testing.</p> <p>←</p> <p><i>scanning</i>: the movement of a search unit relative to the test piece in order to examine a volume of the material.</p>	<p><u>Insert</u></p> <p><i>semiautomated scanner</i>: semiautomated scanners are manually adjustable, have mechanical means to maintain an index of the search unit while maintaining the search unit offset position, but must still be propelled manually by the operator. This scanner does have mechanical means to retain its position while attached to the component once released by the operator.</p>
<p>I-130 UT — ULTRASONICS</p>	<p>Delete I-130 and the four definitions associated with I-130</p>