### T-410 SCOPE

This Article provides or references requirements for weld examinations, which are to be used in selecting and developing ultrasonic examination procedures when examination to any part of this Article is a requirement of a referencing Code Section. These procedures are to be used for the ultrasonic examination of welds and the dimensioning of indications for comparison with acceptance standards when required by the referencing Code section; the referencing Code Section shall be consulted for specific requirements for the following:

- (a) Personnel qualification/certification requirements
- (b) Procedure requirements/demonstration, qualification, acceptance
- (c) Examination system characteristics
- (d) Retention and control of calibration blocks
- (e) Extent of examination and/or volume to be scanned
- (f) Acceptance standards
- (g) Retention of records
- (h) Report requirements

### T-420 GENERAL

The requirements of this Article shall be used together with Article 1, General Requirements. Refer to:

- (a) Special provisions for coarse grain materials and welds in T-451
- (b) Special provisions for computerized imaging techniques in T-452
- (c) Mandatory Appendix III for Time of Flight Diffraction (TOFD) techniques
- (d) Mandatory Appendix IV for phased array manual rastering techniques
- (e) Mandatory Appendix V for phased array E-scan and S-scan linear scanning examination techniques
- (f) Mandatory Appendix XI for full matrix

### T-410 SCOPE

When this Article is specified by a referencing Code Section, the ultrasonic method described in this Article shall be used together with Article 1, General Requirements. Definitions of terms used in this Article are contained in Article 1, Mandatory Appendix 1, I-121.2, UT – Ultrasonics.

This Article provides or references requirements for weld examinations, which are to be used in selecting and developing ultrasonic examination procedures when examination to any part of this Article is a requirement of a referencing Code Section. These procedures are to be used for the ultrasonic examination of welds and the dimensioning of indications for comparison with acceptance standards when required by the referencing Code section; the referencing Code Section shall be consulted for specific requirements for the following:

- (a) Personnel qualification/certification requirements
- (b) Procedure requirements/demonstration, qualification, acceptance
- (c) Examination system characteristics
- (d) Retention and control of calibration blocks
- (e) Extent of examination and/or volume to be scanned
- (f) Acceptance standards
- (g) Retention of records
- (h) Report requirements

### T-420 GENERAL

For specific applications or techniques refer to the following:

- (a) Special provisions for coarse grain materials and welds in T-451
- (b) Special provisions for computerized imaging techniques in T-452
- (c) Mandatory Appendix III for Time of Flight Diffraction (TOFD) techniques
- (d) Mandatory Appendix IV for phased array manual rastering techniques
| capture (FMC) techniques | (e) Mandatory Appendix V for phased array E-scan and S-scan linear scanning examination techniques  
(f) Mandatory Appendix XI for full matrix capture (FMC) techniques |