

PART 2, S2.6.2

S2.6.2 ULTRASONIC THICKNESS TESTING

Ultrasonic thickness (UT) testing shall be performed to determine boiler plate thickness. UT testing shall be performed by personnel acceptable to the Jurisdiction and the Inspector. The following requirements shall be met, to the extent possible. Performance and results shall be acceptable to the Inspector and, if required, the Jurisdiction.

- a) Equipment, operator, and calibration standards used shall be documented.
- ~~b) To calculate MAWP, ultrasonic thickness testing results in areas of generalized thinning (3 in. [76 mm] in diameter or greater) or where grooved thinning is noted (2 in. [50 mm] in length or greater) are to be used in determining minimum thickness in accordance with S2.10. The MAWP calculation in S2.10 shall be completed based on the thickness data gathered.~~
- ~~e)b)~~ On initial UT of stayed sections, the plate thickness readings should be taken on a grid not exceeding the maximum staybolt pitch. Additional readings may be taken close to each staybolt to determine if localized thinning has occurred. Particular attention should be given to the joint between the staybolt and the plate.
- ~~d)c)~~ On initial UT of unstayed sections, the plate thickness readings should be taken on a grid not exceeding 12 inch (300mm) centers. Additional readings should be taken if conditions warrant.
- ~~e)d)~~ UT test results shall be documented so location of test results can be checked at subsequent UT tests to determine if material loss has occurred.
- ~~f)e)~~ Recurring UT testing shall be performed by randomly checking 10% of original UT checks. Areas of thinning identified during previous inspections shall be given particular attention. If material loss is determined, additional testing may be requested by the Inspector.
- ~~g)f)~~ Particular attention should be placed upon areas that typically exhibit thinning. These areas include the ogee curve, the mudlegs, the fusible plug, around feedwater inlets, and around the firebox door ring.
- ~~h)g)~~ The owner/operator shall maintain the initial and recurring grid mapped UT readings in conjunction with the calculations in permanent boiler records. Documentation shall be available to the Inspector for review and acceptance.

Part 2, Section 11

A

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Intergranular Corrosion

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Jurisdiction

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(Introduction)

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Knuckles

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L

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(3.3.1), (3.4.9), (S1.4.2.1), (S1.4.2.6), (1.4.2.8), (S2.10.6), (S6.6.3.1)

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(2.2.5), (2.2.7), (2.2.10.3), (2.2.10.4), (2.2.12.1), (2.2.12.2), (2.2.12.3), (2.2.12.4), (2.2.12.7), (2.2.12.8), (2.3.3), (2.3.6.2), (2.3.6.3), (2.3.6.5), (2.4.4), (2.4.6), (2.4.7), (2.5.3), (2.5.4), (2.5.5.1), (2.5.5.3), (2.5.7), (2.5.8), (3.3.1), (3.4.8), (3.4.9), (4.3.1.3), (S1.4.1), (S1.4.2.1), (S1.4.2.2), (S1.4.2.3), (S1.4.2.4), (S1.4.2.5), (S1.4.2.6), (S1.4.2.9), (S1.4.2.10), (S1.4.2.11), (S1.4.2.13), (S1.4.2.15), (S1.4.2.16), (S1.4.2.22), (S1.4.2.23), (S1.4.2.24), (S1.4.2.25), (S1.4.2.28), (S1.4.2.29), (S1.4.2.32), (1.4.2.33), (S2.4.3), (S2.5.2.2), (S2.11), (S4.7.1), (S5.3.1), (S5.3.2.1), (S5.3.2.2), (S6.4.7.4.1), (S6.4.7.2), (S6.4.7.4.4.1), (S6.4.7.4.4.2), (S6.4.7.5.1), (S6.4.7.5.2), (S6.4.7.6.2), (S6.5.3.2), (S6.5.5.1), (S6.6.3.1), (S6.13), (S6.13.2), (S6.13.4), (S6.13.6.1), (S6.13.6.7), (S6.13.9), (S6.14), (S6.14.2), (S6.14.3), (S6.14.4), (S6.14.5), (S6.14.6.3), (S6.14.6.4), (S6.15.3), (S6.15.3.1), (S6.15.3.3), (S6.15.3.5), (S6.15.3.6), (S6.16.3), (S6.16.6), (S6.16.7), (S7.1), (S7.4), (S7.6), (S8.4), (S8.5), (S9.3), (S10.4), (S10.6), (S10.10.7)

Leak Testing

(S2.4.4.2), (S6.13.9), (S6.14.2), (S6.14.3)

Level Indicating Device

(2.3.6.4)

Lift Assist Device

(2.5.7)

Ligaments

(3.4.9)

Lighting

(2.2.4), (S1.4.2.27), (S4.6.3), (S6.17)

Limitations (Historical Boilers)

(S2.10.7), (S2.14.1)

Line Corrosion

(3.3.1), (S6.6.3.1)

Linings

(2.3.3), (3.4.4), (S6.4.7.6.1), (S6.13.4), (S6.13.5)

Liquefied Petroleum Gas (LPG)

(S7.1)

Liquid Ammonia Vessels

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Liquid Penetrant Examination

(2.3.3), (4.2.3), (S2.5.4)

Liquid Pressure Test

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Loading

(2.3.5.4), (3.4.1), (4.4.5), (4.4.6), (4.4.7.2), (S1.7), (S2.8.1), (S4.4), (S5.2.1), (S5.3.2), (S5.6), (S6.6.4), (S6.13.3), (S6.13.6), (S6.13.11), (S6.15.1), (S6.17), (S10.10.7)

Local Thinning

(S5.2.2), (S5.3), (S5.3.1)

Locations

(1.5.2.1), (2.2.12.2), (2.2.12.3), (2.3.4), (2.3.5.4), (2.3.6.4), (2.3.6.7), (2.4.4), (2.4.7), (3.4.1), (4.4.7.2), (S1.5.4), (S2.8.1), (S2.10.4.2), (S2.13.2), (S6.6.3.1), (S6.6.4), (S10.8), (S10.9), (9.1)

Locomotive Boilers

Arch Tube

(S1.4.2.17), (S1.5.4)

Ferrules

(S1.4.2.15)

Flue

(S1.4.2.6), (S1.4.2.7), (S1.4.2.12), (S1.4.2.13), (S1.4.2.15), (S1.5.4), (S1.6)

Inspection

(S1.1), (S1.4), (S1.4.1), (S1.4.2), (S1.4.2.3), (S1.4.2.4), (S1.4.2.6), (S1.4.2.8), (S1.4.2.11), (S1.4.2.12), (S1.4.2.14), (S1.4.2.18), (S1.5.4)

Installation

(S1.4.2.26), (S1.4.2.27), (S1.4.2.29)

Storage

(S1.1), (S1.5), (S1.5.1), (S1.5.2), (S1.5.3), (S1.5.4)

Low-Water Fuel Cutoff

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M

Macroscopic Corrosion Environments,

Crevice Corrosion

(3.3.1), (S2.6.3.1)

Erosion

(3.3.1), (S9.3)

Exfoliation

(3.3.1)

Galvanic Corrosion

(3.3.1)

Grooving

(3.3.1)

Line Corrosion

(3.3.1), (S2.6.3.1)

Pitting Corrosion

(3.3.1), (S10.9)

Selective Leaching

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Uniform Corrosion (General)

(3.3.1)

Magnetic Particle Examination

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Materials Preparation

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Materials Selection

(3.3.3), (3.3.3.4), (3.3.3.6), (S6.4.6.3), (S6.6.3.1), (S6.13.11.2), (S6.13.11.3), (S6.13.11.4), (S6.15.1), (S6.18), (S7.10), (S9.3)

Maximum Allowable Working Pressure (MAWP)

(2.3.5.4), (2.5.2), (2.5.5.1), (4.4.7.2), (S2.6.1), (2.6.3.1), (2.6.3.2), (2.6.3.3), (2.6.3.4), (S2.10), (S2.10.3.5), (S2.10.3.6), (S2.10.4), (S2.10.4.1), (S2.10.4.2), (S2.10.7), (S2.11), (S2.13.3), (S2.15), (S6.14.6.2), (S6.14.6.4), (S6.16.6), (S7.10), (S8.4), (S8.5), (S10.6), (9.1)

Metallographic Examination

(4.2.7), (4.4.8.1), (S7.3.1)

Methods,

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(1.5.4), (2.5.8), (S2.4.3), (S6.4.6), (S6.4.6.1), (S6.4.6.3), (S6.4.7.2), (S6.7.4.4.2), (S6.4.7.5.1), (S6.4.7.5.3), (S6.5.4), (S6.5.4.1), (S6.5.4.2), (S6.5.4.3), (S6.5.5.1), (S6.5.5.2), (S6.6), (S6.6.2), (S6.13), (S6.13.2), (S6.13.6), (S6.13.8), (S6.14), (S6.14.1), (S6.14.2), (S6.14.3), (S6.14.4), (S6.14.6.4), (S6.14.7), (S6.14.8), (S6.15.2), (S6.15.3), (S6.15.3.1), (S6.18)

Locomotive Inspection

(S1.4.1)

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Examination/Testing

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Corrosion Fatigue

(3.3.2)

Intergranular Corrosion

(3.3.2)

Stress Corrosion Cracking (SCC)

(3.3.2)

Minimum Thickness

(2.3.6.4), (4.4.7.2), (4.4.8.4), (S2.10.3), (S2.10.6), (S6.6.3.1), (S6.13.1), (S6.13.3), (S6.13.6.7), (S6.13.10.3), (S6.13.11), (S6.13.11.1), (S6.13.11.2), (S6.13.11.3), (S6.18)

Modification

(4.5.6.4)

(DOT)

(S6.2), (S6.4), (S6.4.3), (S6.4.5), (S6.6.2), (S6.7), (S6.8), (S6.13.8), (S6.17)

Mudring

(1.4.2.5), (1.4.2.8), (S1.5.3), (S1.5.4), (S2.13.1)

N

“NR” Accreditation

(Introduction)

Nameplates

(2.5.6.2), (5.2.1), (5.2.2), (S6.5.2), (S7.10)

NBIC Committee

(Foreword), (Introduction), (S4.10), (8.1), (8.5)

Neutralized

(2.5.7)

Nondestructive Examination

(4.2), (S2.4.4.1)

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On Stream

(2.3.2), (4.4.7.2)

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(4.5.5), (S5.1), (S5.2), (S5.2), (S5.2.1), (S5.2.2), (S5.2.3), (S5.5)

Organization

(Foreword), (Introduction), (2.2.10.6), (2.3.6.5), (2.5.7), (2.5.8), (4.3.1.1), (4.3.1.2), (4.4.2), (4.5.1), (4.5.3), (S2.4.3), (S6.9), (S6.16.6), (S6.16.7), (S6.16.8), (S6.17), (S7.6), (S7.7), (S7.8.1), (S7.8.2), (S7.8.3), (S7.8.4), (9.1)

Overheating

(2.2.9), (2.2.10.3), (2.2.12.1), (2.2.12.2), (2.2.12.3), (2.2.12.6), (2.2.12.7), (2.2.12.9), (2.3.6.2), (3.4.7), (3.4.8), (S1.4.2.8), (S1.4.2.17), (S1.4.2.18), (S1.4.2.25), (S1.5.3), (S2.10.4.2), (S2.13.1.2), (S4.7.2), (S10.8)

Overlay

(2.2.12.9), (S4.8.2), (S4.10), (S4.11)

Owner

(Introduction), (1.4), (1.4.1), (1.4.2), (1.5.1), (1.5.2), (1.5.3), (1.5.4), (2.2.6), (2.2.8), (2.2.11), (2.2.12.9), (2.3.5.4), (2.3.6.5), (2.3.6.6), (2.5.7), (4.2), (4.3.1), (4.3.1.2), (4.3.1.3), (4.4.1), (4.4.3), (4.4.7), (4.4.8.1), (4.4.8.2), (4.5.1), (4.5.7), (5.2.1), (5.2.3), (5.3.2), (5.3.3), (S1.3), (S1.5), (S2.3), (S2.4), (S2.4.1), (S2.4.2), (S2.5.2.1), (S2.6.2), (S2.7.3.1), (S2.8), (S2.11), (S2.13), (S3.3), (S4.10), (S5.2), (S6.4.2), (S6.4.6), (S6.4.7.7), (S6.5.1), (S6.5.2), (S6.5.3), (S6.5.3.1), (S6.5.4), (S6.5.5), (S6.5.5.1), (S6.6.3.1), (S6.10), (S6.11), (S6.12), (S6.12.2), (S6.12.3), (S6.13.3), (S6.13.6.1), (S6.13.6.7), (S6.13.7), (S6.13.10), (2.5.3.6), (S6.14.3), (S6.14.5), (S6.14.6.4), (S6.14.9), (S6.15.3.5), (S6.15.3.6), (S6.15.4), (S6.16.8), (S6.17), (S7.1), (S9.3), (S9.4), (S9.5), (S10.7), (S10.11), (9.1)

Owner-User Inspection Organization

(Introduction), (9.1)

P

Parts

(2.1), (2.2.6), (2.2.7), (2.2.10), (2.2.10.3), (2.2.12.3), (2.2.12.8), (2.2.12.9), (2.3.4), (2.3.5), (2.3.6.1), (2.3.6.4), (2.3.6.5), (2.3.6.7), (2.5.3), (2.5.7), (2.5.8), (3.4.1), (3.4.8), (S1.4.2.30), (S1.5.4), (S1.5.5), (S2.10), (S2.10.4), (S2.13.2), (S9.3)

Patch Bolts

(S1.4.2.1)

Patches

(2.3.6.4), (S1.4.2.2), (S2.10.4.2), (S.4.2.17)

Personnel Safety

(Introduction), (1.4), (2.2.6), (2.2.12.9), (4.3.1.3), (4.5.2), (4.5.4), (4.5.6.2), (S2.4), (S6.11)

Piping

(Foreword), (1.3), (1.5), (1.5.1), (2.1), (2.2.5), (2.2.10), (2.2.10.1), (2.2.10.3), (2.2.10.6), (2.2.12.3), (2.2.12.7), (2.2.12.8), (2.3.6.4), (2.3.6.7), (2.4), (2.4.1), (2.4.2), (2.4.3), (2.4.4), (2.4.5), (2.4.6), (2.4.7), (2.4.8.1), (2.4.8.2), (2.4.8.3), (2.5.4), (2.5.5.1), (2.2.5.2), (2.5.8), (S1.4.2.26), (S1.4.2.27), (S1.4.2.28), (S1.4.3), (S1.5.2), (S1.5.4), (S1.5.5), (S2.8.1), (S2.9), (S2.9.1), (S2.11), (S2.13.1.1), (S2.13.2), (S2.13.3), (S4.2), (S4.7.3), (S4.10), (S6.4.7.4.1), (S6.4.7.4.2), (S6.4.7.4.4.1), (S6.4.7.4.4.2), (S6.5.3), (S6.10), (S6.12.1), (S6.13.1), (S6.13.2), (S6.13.4), (S6.13.9), (S6.13.10.2), (S6.14), (S6.14.5), (S6.14.6.4), (S6.16.3), (S6.17), (S8.5), (S10.5), (9.1)

Pitting Corrosion

(2.3.6.1), (2.4.4), (3.3.1), (4.4.8.7), (S2.6.3.2), (S6.6.3.1), (S6.14), (S6.14.5), (S10.9)

Pneumatic Testing

(S6.13.6.1)

Portable Tank (DOT)

(S6.14), (S6.14.1), (S6.14.2), (S6.14.3), (S6.14.4), (S6.14.5), (S6.14.6), (S6.14.6.1), (S6.14.6.2), (S6.14.6.3), (S6.14.6.4), (S6.14.7), (S6.14.8), (S6.14.9), (S6.17)

Post Inspection Activities

(1.5), (1.5.4), (2.3.2), (S2.4.2), (S6.11), (S6.12.3)

Postweld Heat Treatment

(2.3.6.4), (2.3.6.5), (3.4.3), (3.4.4), (S6.6.4), (S6.13.6.3), (S6.15.1)

Pre-Inspection Activities

(1.5.2), (2.2.3), (S6.12.1), (S6.16.2), (S7.2)

Preservation

(S1.5.2), (S1.5.4), (S2.13.1.1), (S2.13.2)

Pressure Control

(2.2.12.7), (2.3.6.7), (S8.5)

Pressure Gages

(1.5.2), (2.2.10.4), (2.3.5.1), (2.3.6.5), (2.3.6.7), (2.4.8.1), (S2.4.3), (S6.12.1), (S7.10)

Pressure Relief Device

(1.5), (1.5.1), (2.1), (2.2.5), (2.2.10.5), (2.2.12.8), (2.3.5.2), (2.3.6.4), (2.3.6.6), (2.3.6.7), (2.5.1),

(2.5.3), (2.5.4), (2.5.5.3), (2.5.6), (2.5.7), (2.5.8), (4.3.1.2), (S2.8.1), (S6.4.7.5.1), (S6.4.7.5.2), (S6.4.7.5.3), (S6.13.2), (S6.13.6), (S6.13.6.7), (S6.14.3), (S6.14.4), (S6.14.5), (S6.14.6), (S6.15.3.2), (S6.15.3.5), (S6.16.1), (S6.16.2), (S6.16.3), (S6.16.4), (S6.16.5), (S6.16.6), (S6.16.7), (S6.16.9), (S8.2), (S8.5)

Pressure-Retaining

(Foreword), (Introduction), (1.4.1), (1.5), (1.5.2), (1.5.3), (1.5.4), (1.6), (2.1), (2.2.12.9), (2.3.6.4), (2.5.2), (3.1), (3.2), (3.3.1), (3.3.2), (3.4), (3.4.9), (4.1), (4.2), (4.2.1), (4.2.8), (4.3.1), (4.3.1.1), (4.3.1.2), (4.3.1.3), (4.4), (4.4.1), (4.4.2), (4.4.3), (4.4.4), (4.4.5), (4.4.6), (4.4.7), (4.4.7.1), (4.4.7.2), (4.4.7.3), (4.4.8), (4.4.8.1), (4.4.8.2), (4.4.8.3), (4.4.8.4), (4.4.8.5), (4.4.8.6), (4.4.8.7), (5.2.1), (5.3.2), (6.1), (S2.6), (S4.3), (S5.3.1), (S6.2), (S6.13.1), (S10.2), (9.1)

Pressure-Retaining Item (PRI)

(Foreword), (Introduction), (1.4.1), (1.5), (1.5.2), (1.5.3), (1.5.4), (1.6), (2.1), (2.3.6.4), (2.5.2), (3.1), (3.2), (3.3.1), (3.3.2), (3.4), (3.4.9), (4.1), (4.2), (4.2.1), (4.2.8), (4.3.1), (4.3.1.1), (4.3.1.2), (4.3.1.3), (4.4), (4.4.1), (4.4.2), (4.4.3), (4.4.4), (4.4.5), (4.4.6), (4.4.7), (4.4.7.1), (4.4.7.2), (4.4.7.3), (4.4.8), (4.4.8.1), (4.4.8.2), (4.4.8.3), (4.4.8.4), (4.4.8.5), (4.4.8.6), (4.4.8.7), (5.2.1), (5.3.2), (6.1), (S2.6), (S4.3), (S5.3.1), (S6.2), (S6.13.1), (S9.1), (S9.2.1), (S9.2.2), (S9.3), (S9.4), (S9.5), (S10.2), (9.1)

Pressure Testing

(2.5.3), (2.5.7), (4.3.1), (4.3.1.1), (4.3.1.2), (4.3.1.3), (4.4.8.5), (S2.4.4.2), (S2.6.1), (S2.7.3.1), (S2.11), (S2.13.3), (S5.6), (S6.4.6.2), (S6.13), (S6.13.4), (S6.13.6.2), (S6.13.6.3), (S6.13.6.4), (S6.13.6.5), (S6.14.6), (S6.14.6.2), (S6.16.6), (S6.16.7), (S6.18), (S7.7), (S9.3), (8.4)

Pressure Vessels

(Foreword), (Introduction), (1.5), (1.5.3), (2.1), (2.2.12.6), (2.2.12.7), (2.3.1), (2.3.2), (2.3.3), (2.3.4), (2.3.5), (2.3.5.2), (2.3.5.4), (2.3.6.4), (2.3.6.5), (2.3.6.6), (2.3.6.8), (2.5.4), (2.5.5.2), (2.5.5.3), (2.5.8), (3.3.1), (3.4.1), (3.4.3), (4.4.7.2), (S3.1), (S3.4), (S5.1), (S5.3.2), (S6.5.3), (S10.1), (S10.5), (S10.10.1), (S10.10.7)

Provisions for Expansion/Support

(2.4.7)

Pumps

(S1.5.4)

Q

Qualifications

Inspector

(S4.5), (S6.4.4), (S10.3)

Quick-Disconnect Couplings

(2.4.8.3)

R

“R” Certificate Holder

(S1.3), (5.2.3), (9.1), (S7.10), (S10.7)

Radiography

(2.3.3), (2.3.6.4), (2.3.6.7), (2.4.4), (4.2.5),
(4.4.7.2), (S7.3.1), (9.1)

Records Review

(2.2.11), (2.3.5.4)

Re-ending

(S1.4.2.15), (9.1)

Reference to Other Codes and Standards

(Introduction), (1.3)

Remaining Service Life Assessment

(4.4.4), (4.4.5), (S10.6), (S10.8)

Reinforced Thermoplastic

(S4.5), (S10.1)

Reinforced Thermosetting Plastic

(S4.1), (S4.6.2)

Renewal

(S7.9)

Repair

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(1.5.2.1), (2.2.10.6), (2.2.11), (2.2.12.2),
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NBIC PART 3, 5.13

All NBIC report forms are posted on the National Board website, under the “National Board Inspection Code” tab.

Part 3, Section 11

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Jaeger Type No. 1

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(S1.2.6), (S1.2.6.1), (S1.2.6.2),
(S1.2.6.3), (S1.2.9.2), (S1.2.9.4),
(S1.2.9.6), (S1.2.9.7), (S1.2.10),
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“NR” Certificate Holder

(1.8.1), (1.8.2), (1.8.3), (1.8.4), (1.8.5), (1.8.6.2), (1.8.7.2), (1.8.8.1), (1.8.8.2), (1.8.9), (5.13.5), (5.13.5.1), (5.13.6), (S9.1)

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(3.3.3), (3.3.5), (3.3.5.1), (3.3.5.2), (3.4.3),
(3.4.4), (3.4.4.1), (4.5.1), (5.2.2), (5.13.4.1),
(S3.2), (S4.6), (S4.16.3), (S4.17.3), (S4.17.4),
(S4.17.5), (S6.8), (S6.10), (S7.6), (S7.10.1),
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(2.5.3.6), (S3.2), (S4.10.1), (S4.10.3), (S6.8.2),
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Inspector

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(2.5.3.3), (2.5.3.4), (2.5.3.5), (2.5.3.6),

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(1.8.7.2), (2.2.6.1), (3.3.2), (4.2), (4.5.1), (4.5.3),
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(S4.16.4), (S6.10), (S7.2), (S7.3), (S7.7), (S7.8),
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“R” Certificate Holder

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(2.2.5), (2.2.6.1), (3.2.1), (3.2.2), (3.2.4), (3.3.2),
(3.3.4.9), (3.4.1), (3.4.2), (3.4.4.1), (4.2), (4.4),
(5.2), (5.2.1), (5.2.2), (5.4), (5.5), (5.6), (5.7.1),
(5.7.3), (5.13.4.1), (S1.1.1), (S3.2), (S4.2),
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Radiography

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(S2.13.9.2), (S2.13.9.3), (S2.13.10.3),
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