The 2001 Edition of the Code contains both U.S. Customary and SI units. In all cases, the U.S. Customary units are the standard and SI units are provided for the convenience of the user.

ELECTRONIC STRESS TABLES ON CD-ROM (EST)

The 2001 ASME Electronic Stress Tables CD-ROM exists to provide convenient electronic access to certain information concurrently published in Section II, Part D, of the ASME Boiler and Pressure Vessel Code. It is designed as a companion tool to the printed book and is provided only as part of a book subscription. In the event of any discrepancies between data in the printed book and the electronic product, the printed book remains the publication of record.

SUMMARY OF CHANGES

The 2001 Edition of this Code contains revisions in addition to the 1998 Edition with 1999 and 2000 Addenda. The revisions are identified with the designation **01** in the margin and, as described in the Foreword, become mandatory six months after the publication date of the 2001 Edition. To invoke these revisions before their mandatory date, use the designation "2001 Edition" in documentation required by this Code. If you choose not to invoke these revisions before their mandatory date, use the designation "1998 Edition through the 2000 Addenda" in documentation required by this Code.

Changes given below are identified on the pages by a margin note, **01**, placed next to the affected area.

Page	*Location*	*Change*
10–13	Table 1A, Line 36	For Sections I and VIII, Division 1, Carbon steel SA/EN 10028-2 P295GH added
14–17	Table 1A, Lines 12 & 13	For I and VIII-1, SA/EN 10028-2 P295GH added
	Table 1A, Line 14	For VIII-1, SA-226 2 deleted
	Table 1A, Line 20	For VIII-1, SA-266 2 added
30–33	Table 1A, Line 6	For Sections I, III, and VIII-1, for 1Cr–$^{1}/_{2}$Mo SA-234 WP12, stress for 1100°F corrected by errata to read 2.8
50–53	Table 1A, Lines 16 & 17	(1) For III and VIII-1, for Mn–$^{1}/_{4}$Mo SA-372 D, stress lines revised and lines merged (2) For III, Note W1 replaced by W15
54–57	Table 1A, Line 14	(1) For VIII-1, $^{1}/_{2}$Ni–$^{1}/_{2}$Mo–V SA-541 3 Class 2 added (2) For III, External Pressure Chart added
	Table 1A, Line 22	For VIII-1, $^{3}/_{4}$Ni–$^{1}/_{2}$Mo–$^{1}/_{3}$Cr–V SA-508 2 Class 2 added
	Table 1A, Line 23	(1) For VIII-1, SA-541 2 Class 2 added (2) For III, External Pressure Chart added
	Table 1A, Line 25	(1) For VIII-1, $^{3}/_{4}$Ni–$^{1}/_{2}$Mo–Cr–V SA-508 3 Class 2 added (2) For III, External Pressure Chart added
62–65	Table 1A, Line 15	For III, for 8Ni SA-522 II, Note G41 and stress value for 150°F added

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Page	*Location*	*Change*
	Table 1A, Lines 16 & 17	For III and VIII-1, for SA-553 II, Note G6 deleted and Note G41 added
	Table 1A, Lines 18 & 19	For III, for 9Ni SA-333 8, Note G41 and stress value for 150°F added
	Table 1A, Line 20	For VIII-1, for SA-333 8, Note G41 added
	Table 1A, Line 21	For VIII-1, for SA-333 8, Note G41 added and stress line revised
	Table 1A, Line 22	For VIII-1, for SA-333 8, Note G41 added
	Table 1A, Lines 23 & 24	For III, for SA-334 8, Note G41 and stress value for 150°F added
	Table 1A, Line 25	For VIII-1, for SA-334 8, Note G41 added
	Table 1A, Line 26	For VIII-1, for SA-334 8, Note G41 added and stress line revised
	Table 1A, Line 27	For VIII-1, for SA-334 8, Note G41 added
	Table 1A, Line 28	For III and VIII-1, for SA-353, Note G41 added
	Table 1A, Line 29	For VIII-1, for SA-353, Note G41 added and stress line revised
	Table 1A, Line 30	For III, for SA-353, Note G41 and stress value for 150°F added
	Table 1A, Lines 31 & 32	For VIII-1, for SA-420 WPL8, Note G41 added
	Table 1A, Line 33	For III and VIII-1, for SA-522 I, Note G41 added
	Table 1A, Line 34	For VIII-1, for SA-522 I, Note G41 added
	Table 1A, Lines 35 & 36	For III and VIII-1, for SA-553 I, Note G41 added
	Table 1A, Line 38	(1) For I and VIII-1, 29Ni–20Cr–3Cu–2Mo SA-351 CN7M added (2) For III, Max. Temp Limit and stress line revised
	Table 1A, Line 39	For I and VIII-1, SA-351 CN7M added
66–69	Table 1A, Lines 3–12	For I, 16Cr–12Ni–2Mo SA-182 F316L, SA-336 F316L, SA-213 TP316L, and SA-240 316L added
	Table 1A, Lines 14–19	For I, SA-249 TP316L and SA-312 TP316L added
	Table 1A, Lines 23 & 24	For I, SA-479 316L added
70–73	Table 1A, Lines 37 & 38	For I, SA-240 316H added
78–81	Table 1A, Lines 36–38	For I, 18Cr–8Ni SA-182 F304L and SA-336 F304L added
82–85	Table 1A, Lines 1–6	For I, SA-182 F304L, SA-213 TP304L, and SA-240 304L added
	Table 1A, Lines 8–13	For I, SA-249 TP304L and SA-312 TP304L added
	Table 1A, Lines 17 & 18	For I, SA-479 304L added
86–89	Table 1A, Lines 17 & 18	For I, SA-240 304H added
102–105	Table 1A, Lines 5 & 6	For I, 18Cr–10Ni–Cb SA-240 347H added
114–117	Table 1A, Lines 5 & 6	For I, 18Cr–10Ni–Ti SA-240 321H added

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122–125	Table 1A, Lines 14 & 16	For III, 20Cr–18Ni–6Mo SA-351 CK3MCuN and SA-182 F44 added
	Table 1A, Line 18	For III, SA-249 added
	Table 1A, Lines 20 & 22	For III, SA-312 added
	Table 1A, Lines 24 & 26	For III, SA-358 and SA-403 added
	Table 1A, Line 27	For III and VIII-1, SA-240 added
	Table 1A, Line 28	For VIII-1, SA-240 added
	Table 1A, Line 29	(1) For III, SA-240 added (2) For VIII-1, Size/Thickness added, and Min. Tensile Strength, Min. Yield Strength, and stress line revised
	Table 1A, Line 30	For VIII-1, for SA-240, Size/Thickness added, and Min. Tensile Strength, Min. Yield Strength, and stress line revised
130–133	Table 1A, Lines 3 & 4	For VIII-1, 23Cr–4Ni–Mo–Cu–N SA-789 added
146	Table 1A	Note G6 deleted
147	Table 1A	Notes G41, G42, and G43 added
148	Table 1A	Note W15 added after renumbering previous W14 and W15 as W13 and W14, respectively
166–169	Table 1B, Lines 6 & 7	For III and VIII-1, for A95154 O and H34 SB-210, Size/Thickness corrected by errata to read 0.010–0.450
202–205	Table 1B, Line 12–24	For I and VIII-1, N06045 Solution ann. SB-166, SB-167, SB-168, SB-366, SB-516, SB-517, and SB-564 added
	Table 1B, Lines 25–36	For VIII-1, for N06059 Annealed SB-366, and Solution ann. SB-564, SB-574, SB-575, and SB-619, External Pressure Chart revised
206–209	Table 1B, Lines 1–4	For VIII-1, for Solution ann. SB-622 and SB-626, External Pressure Chart revised
218–221	Table 1B, Lines 17–29	For VIII-1, N08031 Solution ann. SB-366, SB-564, SB-581, SB-619, SB-622, SB-625, and SB-626 added
238–241	Table 1B, Lines 13–25	For VIII-1, N10629 Solution ann. SB-333, SB-335, SB-366, SB-564, SB-619, SB-622, and SB-626 added
	Table 1B, Line 26	For VIII-1, for N10665 Annealed SB-366, stress line revised
242–245	Table 1B, Lines 17–23	For VIII-1, R20033 Solution ann. SB-366, SB-564, SB-619, SB-622, SB-625, SB-626, and SB-649 added
246–249	Table 1B, Lines 3 & 4	For III and VIII-1, R50250 Annealed SB-337 replaced by SB-861 and SB-862
	Table 1B, Lines 12 & 13	For III and VIII-1, R50400 Annealed SB-337 replaced by SB-861 and SB-862

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Page	*Location*	*Change*
	Table 1B, Lines 21 & 22	For III and VIII-1, R50550 Annealed SB-337 replaced by SB-861 and SB-862
	Table 1B, Line 23	For VIII-1, for R52250 Annealed SB-265, Condition added
	Table 1B, Lines 32 & 33	For III and VIII-1, R52400 Annealed SB-337 replaced by SB-861 and SB-862
	Table 1B, Lines 34–36	For VIII-1, for R52402 Annealed SB-265 and SB-338, Condition added
250–253	Table 1B, Lines 8 & 9	For VIII-1, R53400 Annealed SB-337 replaced by SB-861 and SB-862
	Table 1B, Lines 17 & 18	For III and VIII-1, R56320 Annealed SB-337 replaced by SB-861 and SB-862
	Table 1B, Lines 19–21	For VIII-1, for R60702 Annealed SB-493 and SB-523, Condition added
	Table 1B, Lines 22 & 23	For VIII-1, for Annealed SB-550 and SB-551, Product Form revised and Condition added
	Table 1B, Lines 24–27	For VIII-1, for Annealed SB-658 and R60705 Annealed SB-493 and SB-523, Condition added
	Table 1B, Lines 28 & 29	For VIII-1, for Annealed SB-550 and SB-551, Product Form revised and Condition added
	Table 1B, Line 30	For VIII-1, for Annealed SB-658, Condition added
292–294	Table 2A, Line 13	(1) For Section VIII, Division 2, $^{1}/_{2}$Ni–$^{1}/_{2}$Mo–V SA-541 3 Class 2 added (2) For III, External Pressure Chart added
	Table 2A, Line 21	For VIII-2, $^{3}/_{4}$Ni–$^{1}/_{2}$Mo–$^{1}/_{3}$Cr–V SA-508 2 Class 2 added
	Table 2A, Line 22	(1) For VIII-2, SA-541 2 Class 2 added (2) For III, External Pressure Chart added
	Table 2A, Line 24	(1) For VIII-2, $^{3}/_{4}$Ni–$^{1}/_{2}$Mo–Cr–V SA-508 3 Class 2 added (2) For III, External Pressure Chart added
296–298	Table 2A, Lines 36 & 37	For VIII-2, for 8Ni SA-553 II, Note G5 deleted
300–302	Table 2A, Lines 11 & 12	For VIII-2, for 9Ni SA-553 I, Note G5 deleted
351	Table 2A	Note G5 deleted
370–372	Table 2B, Line 28	For III, N08825 Annealed SB-425 added
374–376	Table 2B, Line 12	For VIII-2, for R50250 Annealed SB-348, Product Form revised and External Pressure Chart added
	Table 2B, Line 15	For VIII-2, Smls. ann. SB-337 replaced by SB-861
	Table 2B, Line 16	For VIII-2, for Wld. ann. SB-338, Note G8 added
	Table 2B, Line 17	For VIII-2, Wld. ann. SB-337 replaced by SB-862 and Note G8 added

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Page	Location	Change
	Table 2B, Line 19	For VIII-2, for R50400 Annealed SB-348, Product Form revised
	Table 2B, Line 22	For VIII-2, Smls. ann. SB-337 replaced by SB-861
	Table 2B, Line 23	For VIII-2, for Wld. ann. SB-338, Note G8 added
	Table 2B, Line 24	For VIII-2, Wld. ann. SB-337 replaced by SB-862 and Note G8 added
	Table 2B, Line 26	For VIII-2, for R50550 Annealed SB-348, Product Form revised
	Table 2B, Line 29	For VIII-2, Smls. ann. SB-337 replaced by SB-861
	Table 2B, Line 30	For VIII-2, for Wld. ann. SB-338, Note G8 added
	Table 2B, Line 31	For VIII-2, Wld. ann. SB-337 replaced by SB-862 and Note G8 added
	Table 2B, Line 33	For VIII-2, for R52400 Annealed SB-348, Product Form revised
	Table 2B, Line 36	For VIII-2, Smls. ann. SB-337 replaced by SB-861
	Table 2B, Line 37	For VIII-2, for Wld. ann. SB-338, Note G8 added
	Table 2B, Line 38	For VIII-2, Wld. ann. SB-337 replaced by SB-862 and Note G8 added
378–380	Table 2B, Line 5	For VIII-2, R53400 Smls. ann. SB-337 replaced by SB-861
	Table 2B, Line 6	For VIII-2, for Wld. ann. SB-338, Note G8 added
	Table 2B, Line 7	For VIII-2, Wld. ann. SB-337 replaced by SB-862 and Note G8 added
	Table 2B, Line 13	For III, R56320 Smls. ann. SB-337 replaced by SB-861 and Product Form revised
	Table 2B, Lines 14 & 15	For III, for Wld. ann. SB-338 and SB-363, Note G8 added
	Table 2B, Line 16	For III, Wld. ann. SB-337 replaced by SB-862, Product Form revised, and Note G8 added
390–393	Table 3, Lines 36 & 37	For III, for 18Cr–10Ni–Cb SA-193 B8C Class 1, stress value for 300°F corrected by errata to read 16.4; line merged with VIII-1 and VIII-2 line
424, 425	Table U, Lines 6 & 19	Carbon steel SA/EN 10028-2 P295GH added
	Table U, Line 20	SA-226 2 deleted
440, 441	Table U, Line 20	For Mn–$^1/_4$Mo SA-372 D, tensile strength values for 200°F through 1000°F added
446, 447	Table U, Line 8	For 29Ni–20Cr–3Cu–2Mo SA-351 CN7M, tensile strength values for 200°F through 700°F added

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Page	*Location*	*Change*
460, 461	Table U, Line 33	For 20Cr–18Ni–6Mo SA-240, Min. Tensile Strength and all tensile strength values revised
462, 463	Table U, Line 26	23Cr–4Ni–Mo–Cu–N SA-789 with Size/Thickness ≤ 1 in. added
474, 475	Table U, Lines 7–13	N06045 SB-166, SB-167, SB-168, SB-366, SB-516, SB-517, and SB-564 added
478, 479	Table U, Lines 16–22	N08031 SB-366, SB-564, SB-581, SB-619, SB-622, SB-625, and SB-626 added
480, 481	Table U, Lines 8 & 9	N08367 Solution ann. SB-675 and SB-676 added
	Table U, Line 10	For Solution ann. SB-688, Size/Thickness revised
	Table U, Line 11	Solution ann. SB-690 added
	Table U, Line 13	For Solution ann. SB-804, Size/Thickness added
	Table U, Lines 14 & 15	For Solution ann. SB-675 and SB-676, Size/Thickness added, and Min. Tensile Strength and all tensile strength values revised
	Table U, Line 16	For Solution ann. SB-688, Size/Thickness revised
	Table U, Line 17	Solution ann. SB-688 with Min. Tensile Strength 104 ksi deleted
	Table U, Line 18	For Solution ann. SB-690, Size/Thickness added, and Min. Tensile Strength and all tensile strength values revised
	Table U, Line 19	Solution ann. SB-804 added
482, 483	Table U, Lines 35–37	N10629 SB-333, SB-335, and SB-366 added
484, 485	Table U, Lines 1–4	SB-564, SB-619, SB-622, and SB-626 added
	Table U, Lines 20–26	R20033 SB-366, SB-564, SB-619, SB-622, SB-625, SB-626, and SB-649 added
486, 487	Table U, Line 11	R50250 Annealed SB-337 replaced by SB-861 and Product Form revised
	Table U, Line 12	Annealed SB-862 added
	Table U, Line 13	For R50400 SB-367, tensile strength values for 600°F through 700°F deleted
	Table U, Line 15	For R50550 SB-367, tensile strength value for 600°F deleted
	Table U, Line 21	Annealed SB-337 replaced by SB-861 and Product Form revised
	Table U, Line 22	Annealed SB-862 added
	Table U, Line 23	For R52250 Annealed SB-265, Condition added
	Table U, Line 26	For R52402 Annealed SB-265, Grade added
488, 489	Table U, Line 1	For R56320 Annealed SB-363 WPT9, Product Form revised

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	Table U, Line 4	Annealed SB-337 replaced by SB-861 and Product Form revised
	Table U, Line 5	Annealed SB-862 added
	Table U, Line 6–8	For R60702 Annealed SB-493 and SB-523, Condition added
	Table U, Lines 9 & 10	For Annealed SB-550 and SB-551, Product Form revised and Condition added
	Table U, Line 11	For Annealed SB-658, Condition added
500–503	Table Y-1, Line 6	Carbon steel SA/EN 10028-2 P295GH added
	Table Y-1, Lines 19–22	SA/EN 10028-2 P295GH added
	Table Y-1, Line 23	SA-226 2 deleted
532–535	Table Y-1, Line 23	For Mn–$^1/_4$Mo SA-372 D, yield strength values for 150°F through 1000°F added
540–543	Table Y-1, Lines 1–5	For 2Ni–1$^1/_2$Cr–$^1/_4$Mo–V SA-723 1, yield strength values for 750°F through 950°F added
	Table Y-1, Lines 14–18	For 2$^3/_4$Ni–1$^1/_2$Cr–$^1/_2$Mo–V SA-723 2, yield strength values for 850°F through 950°F revised and values for 1000°F deleted
	Table Y-1, Lines 35–39	For 4Ni–1$^1/_2$Cr–$^1/_2$Mo–V SA-723 3, yield strength values for 850°F through 950°F revised
544–547	Table Y-1, Line 11	For 29Ni–20Cr–3Cu–2Mo SA-351 CN7M, yield strength values for 200°F through 700°F added
572–575	Table Y-1, Line 33	For 20Cr–18Ni–6Mo SA-240, Min. Tensile Strength, Min. Yield Strength, and all yield strength values revised
576–579	Table Y-1, Line 26	23Cr–4Ni–Mo–Cu–N SA-789 with Size/Thickness ≤ 1 in. added
604–607	Table Y-1, Lines 27–33	N06045 Solution ann. SB-166, SB-167, SB-168, SB-366, SB-516, SB-517, and SB-564 added
616–619	Table Y-1, Lines 1–7	N08031 Solution ann. SB-366, SB-564, SB-581, SB-619, SB-622, SB-625, and SB-626 added
	Table Y-1, Lines 27 & 28	N08367 Solution ann. SB-675 and SB-676 added
	Table Y-1, Line 29	For Solution ann. SB-688, Size/Thickness revised
	Table Y-1, Line 30	Solution ann. SB-690 added
	Table Y-1, Line 32	For Solution ann. SB-804, Size/Thickness added
	Table Y-1, Lines 33 & 34	For Solution ann. SB-675 and SB-676, Size/Thickness added, and Min. Tensile Strength, Min. Yield Strength, and all yield strength values revised

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Page	*Location*	*Change*
	Table Y-1, Line 35	For Solution ann. SB-688, Size/Thickness revised
	Table Y-1, Line 36	Solution ann. SB-688 with Min. Tensile Strength 104 ksi deleted
	Table Y-1, Line 37	For Solution ann. SB-690, Size/Thickness added, and Min. Tensile Strength, Min. Yield Strength, and all yield strength values revised
	Table Y-1, Line 38	Solution ann. SB-804 added
624–627	Table Y-1, Lines 18–24	N10629 Solution ann. SB-333, SB-335, SB-366, SB-564, SB-619, SB-622, and SB-626 added
628–631	Table Y-1, Lines 5–11	R20033 Solution ann. SB-366, SB-564, SB-619, SB-622, SB-625, SB-626, and SB-649 added
	Table Y-1, Line 20	R50250 Annealed SB-363 deleted
	Table Y-1, Line 22	Annealed SB-337 replaced by SB-861 and Product Form revised
	Table Y-1, Line 23	Annealed SB-862 added
	Table Y-1, Line 24	For R50400 SB-367, yield strength values for 550°F and 600°F revised, and values for 650°F and 700°F deleted
	Table Y-1, Lines 25–27	Annealed SB-265, SB-338, and SB-348 added
	Table Y-1, Line 28	For Annealed SB-381, yield strength values for 150°F through 500°F revised, and values for 550°F through 850°F deleted
	Table Y-1, Lines 29 & 30	Annealed SB-861 and SB-862 added
	Table Y-1, Line 34	R50550 Annealed SB-363 deleted
	Table Y-1, Line 35	For Annealed SB-367, Condition added, and yield strength values for 550°F and 600°F deleted
	Table Y-1, Line 37	Annealed SB-337 replaced by SB-861 and Product Form revised
	Table Y-1, Line 38	Annealed SB-862 added
632–635	Table Y-1, Line 1	For R52250 Annealed SB-265, Condition added
	Table Y-1, Line 2	For R52400 Annealed SB-265, yield strength values for 150°F through 600°F revised, and values for 650°F through 850°F deleted
	Table Y-1, Lines 3–7	Annealed SB-338, SB-348, SB-381, SB-861, and SB-862 added
	Table Y-1, Lines 8–10	R53400 Annealed SB-265, SB-338, and SB-348 added
	Table Y-1, Line 11	For Annealed SB-381, yield strength values for 150°F through 600°F revised, and values for 650°F through 850°F deleted
	Table Y-1, Lines 12 & 13	Annealed SB-861 and SB-862 added

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Page	Location	Change
	Table Y-1, Lines 14–21	R56320 Annealed SB-265, SB-338, SB-348, SB-363, SB-381, SB-861, and SB-862 added
	Table Y-1, Lines 22–24	For R60702 Annealed SB-493 and SB-523, Condition added
	Table Y-1, Lines 25 & 26	For Annealed SB-550 and SB-551, Product Form revised and Condition added
	Table Y-1, Line 27	For Annealed SB-658, Condition added
638, 639	Table Y-3, Line 2	Carbon steel SA-105 added
640, 641	Table Y-3, Line 7	For 15Cr–5Ni–3Cu SA-705 XM-12 H1100, Notes and yield strength values for 200°F through 550°F added
642, 643	Table Y-3, Line 7	For 2Ni–1 1/2Cr–1/4Mo–V SA-723 1 Class 1, yield strength values for 400°F through 650°F and 750°F revised, and value for 800°F added
	Table Y-3, Line 8	For SA-723 1 Class 2, yield strength values for 400°F through 600°F and 750°F revised, and value for 800°F added
	Table Y-3, Line 9	For SA-723 1 Class 3, yield strength values for 400°F through 650°F and 750°F revised, and value for 800°F added
	Table Y-3, Lines 10 & 11	For SA-723 1 Classes 4 and 5, yield strength values for 400°F through 650°F revised
	Table Y-3, Line 12	For 2 3/4Ni–1 1/2Cr–1/2Mo–V SA-723 2 Class 1, yield strength values for 400°F through 650°F and 750°F revised, and value for 800°F added
	Table Y-3, Line 13	For SA-723 2 Class 2, yield strength values for 400°F through 600°F and 750°F revised, and value for 800°F added
	Table Y-3, Line 14	For SA-723 2 Class 3, yield strength values for 400°F through 650°F and 750°F revised, and value for 800°F added
	Table Y-3, Lines 15 & 16	For SA-723 2 Classes 4 and 5, yield strength values for 400°F through 650°F revised
	Table Y-3, Line 24	For 4Ni–1 1/2Cr–1/2Mo–V SA-723 3 Class 1, yield strength values for 400°F through 650°F and 750°F revised, and value for 800°F added
	Table Y-3, Line 25	For SA-723 3 Class 2, yield strength values for 400°F through 600°F and 750°F revised, and value for 800°F added
	Table Y-3, Line 26	For SA-723 3 Class 3, yield strength values for 400°F through 650°F and 750°F revised, and value for 800°F added
	Table Y-3, Lines 27 & 28	For SA-723 3 Classes 4 and 5, yield strength values for 400°F through 650°F revised
646	Table Y-3	Notes (19) through (22) incorporated into Table Y-3's new 550°F column and new Note (19) added

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Page	*Location*	*Change*
714	Fig. NFN-22	Revised
720	Notes to Figures	General Note and Note (12) added
753	Table NFN-22	Values for 1,350°F through 1,500°F added
767–772	3-500	Subparagraph (d) added
	Fig. 3-500.1	Added
	Fig. 3-500.2	Added
	Fig. 3-500.3	Added
	3-800	Subparagraph (h) added
785	Appendix 8	Added

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