INDEX

Access door PWT-14, PWT-15, PFT-40, PFT-42
Access openings PG-44, PFT-42
Accumulation test of safety valve capacity PG-70
Adamson furnace PFT-16
Allowable working pressure *(see Working pressure)*
ANSI Standard steel pipe flanges and fittings PG-42
Appliances and fittings . . . . . PG-42, PG-58 to PG-60
Application of Code . . . . . Preamble
Approval of new materials under Code . . . . . A-75 to A-80
  unidentified materials PG-10
Assembly, field PG-107
Attachment of piping to boiler outlets PG-59, PFT-49
Automatic shutoff valves on water gages PG-60, A-18

Backing rings for welded pipe joints PW-41
Bars *(see Crown bars, Steel bars, etc.)*
Beading tube ends PFT-12
Bending stresses on welding joints PW-9
Blowdown for safety valves PG-72
Blowoff piping and fittings PG-42, PG-59
Boiler external piping . . . . . Figs. PG-58.3.1 & PG-58.3.2
Boiler parts, permissible specifications for PG-9
Boilers, scope of Section I . . . . . Preamble
Box header sheets, welded joints between PWT-12
  Fig. PWT-12.1, Fig. PWT-12.2
Braced and stayed surfaces . . . . . PG-46 to PG-49, PFT-22
  to PFT-32
Brackets, fusion welded PG-55, PFT-46
Brass and copper pipe PG-9
  screwed or flanged type fittings or valves PG-8,
  PG-42
Brown furnaces PFT-18
Btu of various A-17
Bushing, boiler, for pipes . . . . . PG-59, Fig. PG-59.1

Cast, iron, flanged and threaded fittings PG-42
  for boiler and superheater connections PG-8
Castings, quality factors, for steel PG-25
  for pressure parts PG-8
Castings, permissible specifications for PG-8
Check valves in feedpipe . . . . . PG-58, Figs. PG-58.3.1 &
  PG-58.3.2
Circular furnaces PFT-15
Circumferential joint *(see Joints)*
Cleanout door in setting PWT-15, PFT-42
Cocks *(see Blowoff piping & fittings)*
Code application, stamp *(see Stamp; Stamping)*
Coil-type hot water boilers PG-2
Combustion chamber, materials for PG-6
  sling stays PFT-13.2
  tubesheets of PFT-13
Cones, truncated PFT-23.4
Connections, area of, with two or more safety
    valves PG-71
  welded, for nozzles PG-42, PG-43
  expanded, for openings PG-39
  pipe, welded PW-41
  studded, for openings PG-39
  threaded, for openings PG-39
  to safety valves PG-71
  to steam gages PG-60
  to test gages PG-60
  water column PG-60
  welded, for openings PG-39, PW-15, PW-16
Copper and brass pipe PG-9
  screwed or flanged type fittings or valves PG-8,
  PG-42
  tubes, working pressure of PFT-12
Corner radius of unstayed dished head PG-29
Corrugated furnaces PFT-18, PFT-19
Cover plates, material PG-44
Cross-pipe materials PG-5
Crown bars and girder stays PFT-30
Curved stayed surface, subject to internal
    pressure PFT-23
Cutting of plates PG-76, PW-29
Cylindrical and noncylindrical pressure parts,
    fusion welding . . . . . Part PW

Data Report Forms . . . . . PG-112, A-350 to A-357
  Master Data Report Form PG-113
Defects, in welded joints, repairing of PW-40
Definitions of fusion welding processes PW-1
Deformation test, hydrostatic PG-18, PG-100, A-22
Design rules PG-16
Diagonal stays, stresses in PFT-32
Discharge pipe from safety valves PG-71, PFT-44
Dished heads PG-29

convex to pressure PG-29
corner radius PG-29
flanged-in manhole PG-29, PG-34
depth of flange PG-34
radius PG-29
staying PG-30
thickness PG-29
Distortion of welded drums or shells PG-80
Dome plates, thickness PFT-9
Domes PFT-45
seamless, construction PG-7, PFT-45
Door frame rings, holes, welded latches PWT-14
material PFT-5
size PWT-15, PFT-42
Drains PG-59
from economizers, waterwalls, or water screens PG-59
from superheater PG-59
Drilling, tube holes PG-79, PFT-12
Drum forgings, material PG-7
with integral heads PG-7
Drums, boiler, pipe or tubing for PG-9
computations of openings in . . . . . A-65 to A-69
distortion PG-80
fusion welding . . . . . Part PW
inspection . . . . . PW-46 to PW-53
material PW-5
longitudinal joints *(see Joints)*
mud drum, material PWT-5
seamless construction PG-7
Ductile iron, flanged fittings PG-42

Efficiency PG-27, PG-52, PG-53
Electric boilers . . . . . PG-16, PG-58, PG-67, PG-70, PG-105, PG-106, PG-112, PMB-2, PMB-10, PMB-17, Part PEB, Data Report Form P-2A, A-351
Existing installations, repairs to A-64
Explosion doors in setting PWT-14

Facing dimensions for steel flanges PG-42
Factors of safety *(see Safety factors)*
Feedpipe, fittings and valves PG-58, PG-59
Feedpumps PG-61
Feedwater heaters, optional requirements when located within scope of Section I rules . . . . . Part PFH
Feedwater heaters, provisions to prevent overpressure PG-58
Field assembly PG-107
Firebrick casing for blowoff pipe PG-59
Fired steam boiler, definition . . . . . Preamble
Firing doors PWT-14, PWT-15, PFT-42
Fittings, and appliances, application requirements for boiler proper PG-59
flanged connections PG-42
material of, between boiler and valves PG-58
Flanges, blind, thickness of PG-31
cast iron or steel PG-42
material of PG-58
pipe PG-42
steel, facing dimensions of PG-42
Flat heads PG-31
Flat plate in corner joints, inspection and repair of PG-93
Flat surfaces, on dished head PG-30
to be stayed . . . . . PG-46, PFT-24 to PFT-26
Flues, circular, pressure on PFT-51
Forgings, permissible specifications for PG-7
Fox furnace PFT-18
Furnaces, Adamson type PFT-16
Brown PFT-18
Code stamping . . . . . PG-106 to PG-111
combined plain and corrugated type PFT-19
corrugated PFT-18
Fox PFT-18
Leeds suspension bulb PFT-18
material for PG-6
maximum allowable working pressure . . . . . PFT-14 to PFT-19
Morison PFT-18
plain circular PFT-15
Purves PFT-18
Ring reinforced type PFT-17
staying for vertical firetube boiler PFT-23
vertical boilers PFT-23
Fusible plugs . . . . . A-19 to A-21
tubes for PWT-9
typical forms of . . . . . Fig. A-10
Fusion welding *(see Welding)*

Gage cocks PVG-10
Gage glass, body and connector material PG-12
Gages *(see Steam; Test; Water glasses, etc.)*
Gaskets, manhole PG-44
Girder stays and crown bars PFT-30

Handhole plates, material of PG-44
Handhole, in HRT boilers PFT-43
in shell or unstayed head, design PG-44
in vertical boilers PFT-43
Hangers to support boilers PG-55, PFT-46
Headers, box type PWT-12
Heads, area to be stayed PWT-13, PFT-24, PFT-25
dished PG-30
flat PG-31
segments of area to be stayed PFT-25
staying PFT-24, PFT-25

with manholes PFT-27
Heating surface, estimating steaming capacity A-44
Hemispherical dished heads. PG-29
High-temperature water boilers. PG-2, PG-61
Holes, for screw stays PG-82
for tubes PG-79, PFT-12
spacing PG-52, PG-53
tube *(see Tube holes)*
Hydrostatic pressure test PG-99
fusion welded boilers PW-54
proof testing. PG-100, A-22

Identification of plates PG-77
Inspection PG-90
and repair of flat plate in corner joints PG-93
at place of manufacture PG-90
authority use of symbol PG-105
of welded drums during construction. PG-90
openings PG-44, PFT-43
Insulation of blowoff pipe PG-59
Internal collecting pipe. PG-71
Inward-opening firing doors PWT-14
Iron wrought, for waterleg and doorframe rings PFT-5
Iron, cast *(see Cast iron)*

Joints, buttwelded, definition. PW-1
electric resistance buttwelded PW-27
fusion welded PW-27
postweld heat treatment PW-39
preheating PW-38, A-100
longitudinal, of plain circular furnaces PFT-14
pipe radiography PW-11, PW-14
welded, design of PW-9
welded, between staybolted box header sheets PWT-12
welded, reinforcement PW-35
welded, test requirements for . . . . . PW-46 to PW-54

Latches, firing door. PWT-14
Leeds suspension bulb furnace PFT-18
Ligaments. PG-27, PG-52, PG-53
efficiency PG-27, PG-52, PG-53
diagrams. . . . . Figs. PG-52.1 & PG-52.6
Limits of Code piping
drum type boiler . . . . . .Fig. PG-58.3.1
forced flow steam generator with no fixed steam and waterline . . . . . .Fig. PG-58.3.2
Limits of compensation for openings. PG-36
Liquid penetrant examination and acceptance standards PG-25
methods for A-270
Load, on structural attachments to tubes . . . . . PW-43, A-71 to A-74
Locomotive type boiler, dome diameter PFT-45
waterleg and doorframe rings PFT-5
Longitudinal joints *(see Joints)*
Lugs, support and attachment PG-55
to support HRT boilers PFT-46

Machining plates for welding PW-29
Magnetic particle examination and acceptance standards PG-25
methods for A-260
Malleable iron, screwed fittings PG-42
Manholes, below tubes in HRT boiler. PFT-43
attachment of frames to shells or heads PFT-45
covers, forming of, materials PG-44
elliptical, size. PG-44
gaskets, bearing surface PG-44
in a shell or unstayed head, sizes and design. PG-44
in dished heads PG-34
in firetube boilers, location of. PFT-43
ring, material of PG-11
Manufacturers' Data Report . . . . . PG-112, A-350 to A-356
Manufacturers' stamping of boiler PG-106
Materials, acceptable for fusion welding. PW-5
approval of new . . . . . PG-5, A-75 to A-80
door frames and waterlegs. PFT-5
for welded piping PW-5
selection PG-5
specifications for. . . . . PG-6 to PG-9
stays and staybolts PG-15
stress values, maximum allowable
ferrous . . . . . A-24, Table PG-23.1
nonferrous . . . . . .A-256, Table PG-23.2, A-26, Table PG-23.3
under tolerance PG-16
unidentified PG-10
Maximum allowable working pressure *(see Working pressure)*
Metric conversion tables . . . . . follows A-356
Miniature boilers . . . . . Part PMB
Morison furnace PFT-18
Mud drums *(see Drums)*
Muffler on safety valve PG-71

New materials, approval of . . . . . PG-5, A-75 to A-80
Nipple or pipe connections, threaded joints for PG-39
Nondestructive examinations. . . . . .PG-25, PW-11, Table PW-11
Nondestructive testing personnel qualification and certification PG-25, PW-51, PW-52
Nonferrous tubes and pipes, specifications for. PG-9
Nonpressure parts, welded. PW-39, PW-54
Nonpressure parts, welded. PW-39, PW-54
Numbers, serial, manufacturer's PG-106

Ogee flanged construction PFT-5

Openings and reinforcements, in shells, headers and heads PG-32
between boiler and safety valve PG-71, PFT-44
inspection, handhole or washout, in shell or unstayed head PG-44
in wrapper sheets PFT-41
in formed heads. PG-34
reinforcement computation examples. . . . . A-65 to A-70
Operator qualifications for welding PW-28
Organic fluid vaporizer generators . . . . . Part PVG

Partial Data Reports PG-112
Parts, miscellaneous pressure PG-11
nonpressure, welded PW-39
Pipe connections, welded. PW-15
Pipe nozzle in shell, computation of A-68
Pipes, attachment to boiler. PG-59, PW-35, PFT-48, PFT-49
blowoff *(see Blowoff piping)*
collecting, internal PG-71
for watertube boilers. PWT-9
nonferrous PG-9
or tubes, thickness PG-27
surface blowoff PG-59
threads, number. . . . . .PG-39, Table PG-39
undertolerance PG-16
water column. PG-60
Piping, and connections included with boiler . . . . . PG-11, PG-58, Figs. PG-58.3.1 & PG-58.3.2
authority, use of symbol PG-108
blowoff *(see Blowoff piping)*
connected to boiler outlets. PG-58, PG-59
feed PG-59
welded qualification of process and operators for. PW-28
Plate, thickness of shell or dome after forming PFT-9
undertolerance PG-16
Plates, cutting PG-76
for stayed flat surfaces. PG-46
identification PG-77
manhole, material PG-44
preparation for welding PW-29
steel *(see Steel plates)*
steel, tensile strength of . . . . . PG-23, Table PG-23.1
thickness, outside limits in specifications PG-5
minimum PG-16, PG-27, PG-29, PG-34, PFT-9
welded, cutting PW-29
Plugs, fusible . . . . . .A-19 to A-21
Postweld heat treatment . . . . . .PW-39, Table PW-39
Preamble
Preheating. PW-38, A-100
Pressure, maximum allowable working *(see Working pressure; also Shell, Tubes, etc.)*
Pressure parts, included with boiler . . . . . .PG-11, PG-58, Figs. PG-58.3.1 & PG-58.3.2
postweld heat treatment PW-39
Pressure test, hydrostatic *(see Hydrostatic pressure test)*
Proof tests to establish maximum allowable working pressure A-22, A-23
Pumps or injectors for feeding boiler. PG-61
Purves furnace PFT-18

Qualification of welding procedures and operators PW-28
Quality control system PG-105, A-300
Quality factors for steel castings. PG-25

Radiographic examinations . . . . . .PG-25, PW-11, Table PW-11
acceptance standards for castings PG-25
acceptance standards for welds (when mandatory). PW-51
of welded butt joints. . . . . .PW-11, Table PW-11
Referenced standards PG-3, A-360
Reheaters, safety valves PG-68
Reinforced openings, for pipe connections PW-15
in dished heads PG-29
in unstayed flat heads. PG-31
nozzle PW-15
Reinforcement of welded joints, limits of PG-33
Reinforcements, of welded joints PW-35
Relieving, stress, in fusion welded joints *(see Postweld heat treatment)*
Repairing defects in welded joints PW-40
Repairs, existing installations A-64
Report, Manufacturers' Data PG-112, PG-113
Reservoirs on steam mains PG-59
Resistance, electric, butt welded joints PW-27
Ring joint flanges, facing dimensions of PG-42
Rings, backing, for welded pipe joints PW-41
waterleg and door frame PFT-5
Riveted boilers. A-30
Rods for stays, support of PFT-28
Rolling and expanding tube. PWT-11, PFT-12

Safety valves . . . . . PG-67 to PG-73, PG-105, PG-110, PVG-12, A-12 to A-17, A-44 to A-48
additional, existing installations A-48
capacity, examples of checking . . . . . .A-12 to A-17
methods of checking PG-70
casing PG-69
connections PG-67.5, PG-71, PFT-44
constructions PG-67, PG-68
design requirements PG-73
discharge capacity. PG-67, PG-68, PG-70, PVG-12
discharge pipe PG-71
duplex. PG-71

economizer . . . PG-67
existing installations . . . A-44, A-45
forced circulation boilers . . . PG-72
inspection of mfr. and assembly . . . PG-73
markings required . . . PG-110
marking to constitute guarantee . . . PG-69
material selections . . . PG-73
maximum rise in pressure . . . PG-67
mechanical requirements . . . PG-73
method of checking safety valve capacity . . . A-12 to A-17
minimum requirements for . . . PG-67
mounting . . . PG-71
muffler on . . . PG-71
organic fluid vapor generators . . . PVG-1
outdoor shield . . . PG-71
popping point tolerance . . . PG-72
power actuated . . . PG-67
required on boiler . . . PG-67
seats . . . PG-67, PG-73
setting . . . PG-67, PG-72
springs . . . PG-72, PG-73
stamping . . . PG-105, PG-110
superheater . . . PG-68
test accumulation . . . PG-70
existing installations . . . A-46
testing . . . PG-69, PG-73
twin . . . PG-71
Scope of Code . . . Preamble, PG-1
Screwed fittings or valves *(see Fittings)*
Screwed stays, supporting of . . . PFT-28
Seamless drums or shells . . . PG-7
(see Tubes)
Selection of materials . . . PG-5
Serial number . . . PG-106
Setting boilers, outside suspension . . . PFT-46
Setting safety valves . . . PG-67
Shell or drum, allowable pressure on . . . PG-27
fusion welding . . . Part PW
longitudinal joints of . . . PFT-10
material for welded shells . . . PW-5
openings in, computation of . . . A-65 to A-70
plate, thickness . . . PFT-9
seamless construction . . . PG-7
Shutoff valves, automatic on water gages . . . PG-60
on water column connection . . . PG-60
Sling stays . . . PFT-13, PFT-30
Socket type joint connections of pipe . . . PW-41
Sootblower connection to superheater outlet . . . PG-68
Spacing between stays . . . PFT-27
Specifications for materials . . . PG-5 to PG-13
Stamp, Code symbol . . . PG-105, Fig. PG-105.1 to Fig. PG-105.4
boilers . . . PG-106
field assembled boilers . . . PG-108
Stamping, location . . . PG-111
pressure piping . . . PG-109
safety valves . . . PG-110
shell plates, furnace sheets and heads . . . PG-77, PG-106
transferring markings . . . PG-77, PG-106
Staybolts, adjacent to edges of surface . . . PG-48, Fig. A-8
adjacent to furnace door . . . PFT-27, Fig. A-8
allowable stress . . . PFT-28
detailed and proportions . . . PG-47, PG-49, PFT-27, Fig. A-8
flexible, with welded cover cap . . . PFT-29
holes for . . . PG-82
material . . . PG-13
pitch . . . PG-46, PFT-27
stresses . . . PFT-23, PFT-28
welded . . . PW-19
Stayed surfaces . . . PG-46 to PG-49, PW-19, PWT-13, PFT-22 to PFT-32, A-8, Fig. A-8
curved surfaces . . . PFT-23
flat surfaces . . . PG-46
Stayed wrapper sheet . . . PFT-23, Fig. PFT-23.1
Staying, dished heads . . . PG-30
furnaces . . . PFT-23
segments of heads . . . PFT-25
with manhole openings . . . PFT-27, Fig. A-8
segments of tube sheets . . . PFT-25
Stay rods, ends riveted over . . . PFT-28
Stay tubes . . . PFT-31
Stays and staybolts . . . PG-13, PG-46 to PG-49, Fig. PG-46.2, PW-19, PFT-22 to PFT-32, PW-19, A-8, A-10, Table A-4, Fig. A-8
allowable stress on . . . PFT-28
area to be supported . . . PFT-26
diagonal stays . . . PFT-32
ends of . . . PG-46, PF-47, PW-19, PFT-22 to PFT-32
fusion welding of . . . PW-19
girder . . . PFT-30
length between supports . . . PFT-28
material of . . . PG-13
screwed, diameter . . . PG-49, PFT-28, A-8
supporting . . . PFT-28
sling . . . PFT-13
stress on . . . PFT-28
stresses, in diagonal stays . . . PFT-32
through-stays . . . PG-46, PFT-24, PFT-28
upset for threading . . . PG-47
welded, cross-sectional area . . . PW-19
Stay tubes, area to be supported by . . . PFT-31
Steam cleaners . . . PG-2

Steam gages PG-60
and connections PG-60
dial, graduation of PG-60
test connection PG-60
Steam generating capacity, examples of checking . . . . . A-12 to A-17
Steam mains PG-59
Steam outlets PG-59
Steel, cast, fittings or valves PG-42
wrought or cast, for boiler and superheater parts PG-9
flange PG-42
for watertube boilers PG-5
Steel bars for boiler parts PG-13
Steel fittings, flanged PG-42
terminating flanges for PG-42
working pressure for PG-42
Steel plate, tensile strength of PG-23
Steel plates, exposed to fire PG-6
Stock parts, cast, forged, or rolled PG-11
Stop valves *(see Valves)*
Strength, of circumferential welded joints PW-41
of structure that cannot be calculated, test PG-100, A-22
Stresses allowable in ferrous materials . . . . . PG-23, A-24, Table PG-23.1
in nonferrous materials . . . . . PG-23, A-25, Table PG-23.2, A-26, Table PG-23.3
Stress relieving of fusion welded joints *(see Postweld heat treatment)*
Structural attachments to tubes, computation of loading on . . . . . PW-43, A-71 to A-74
Structural reinforcement for heads PG-30
Studded connections PG-39
connection in shell, computation of A-67
Superheater, drains PG-59
material for PG-9
safety valve on PG-68
shutoff valve PG-59
tubes, welded PW-41
tubes and nipples . . . . . PWT-9, PWT-11, Fig. PWT-11
Surface blowoff PG-59
Suspension type of boiler setting PFT-46

Tell tale holes, drilling PG-47, PW-19, PFT-29
Temperature of metal during hydrostatic test PG-99
Tension test of joint specimen PW-53
Test, hydrostatic, of fusion welded drums PW-54
hydrostatic pressure *(see Hydrostatic pressure test)*
nondestructive, of welded joints PW-51, PW-52
of safety valve capacity PG-70
existing installations . . . . . A-44 to A-48
of structure of which the strength cannot be calculated PG-100, A-22
requirements for fusion welded joints . . . . . PW-46 to PW-54
Test gage, connection PG-60
Test gages PG-99, A-23
Thickness of plates, undertolerance PG-16
Threaded connections, flanged in shell, computation of A-66
Threads, fitting into pipe or nipple PG-59
pipe, number for boiler connection . . . . . Table PG-39
Through-stays PG-46, PFT-24
Tin for fusible plugs A-19
Transfer of markings on plate PG-77
Truncated cones, pressure on PFT-23.4
Tube ends, expanding . . . . . PWT-11, Fig. PWT-11
firetube boiler PFT-12
flaring . . . . . PWT-11, Fig. PWT-11
watertube boilers and superheaters . . . . . PWT-11, Fig. PWT-11
Tube holes, and ends . . . . . PG-79, PFT-12, PWT-11, Fig. PWT-11
diagonal, in shell or drum PG-52
drilling or punching PG-79
in shell or drum PG-52, PG-53
pitch PG-52, PG-53
sharp edges, removed PG-79
Tubes, and pipes, nonferrous PG-27
attachments, typical structural . . . . . PW-43, A-71 to A-74
for firetube boilers PFT-12
stay PFT-31
structural attachments, load on . . . . . PW-28, PW-43, A-71 to A-74, Figs. A-71 to A-74
thickness PG-27, PG-43, PWT-9, PWT-10
undertolerance PG-16
welded connections of PW-41
working pressure PG-27
Tubesheets, combustion chambers PFT-13
cylindrical, ligaments in PG-52
insertion of, in shell PFT-11
thickness of PFT-9
unstayed, space allowed PFT-25
Tube spacing PG-52

Ultrasonic examinations . . . . . PW-11, Table PW-11
acceptance standards for welds PW-52
of welded butt joints . . . . . PW-11, Table PW-11
Unfired steam boiler, classification . . . . . Preamble
Unreinforced openings, dished heads PG-29
in shell, computation of A-65
nozzles PW-15, PW-16
Unreinforced welded joints, holes in PW-14
Unstayed circular furnaces, rules for PFT-15

Unstayed flat heads, reinforced openings in PG-35
thickness PG-31
unreinforced openings in PG-32
Unsymmetrical spacing of staybolts PG-46.7

Valves PG-58, PG-59
automatic, on water gages PG-60, A-18
blowoff *(see Blowoff valves)*
bodies or fittings, thickness PG-42
cast iron PG-8
drain *(see Drains)*
flanges of PG-42
material PG-11
on steam outlet PG-59
on supply line PG-59
on water fronts PG-60
on water column PG-60
safety *(see Safety valves)*
stop PG-59
Vertical firetube boilers
handholes in PFT-43
manholes in PFT-43
washout openings PFT-43
waterleg and doorframe ring PFT-5

Washout openings PFT-43
in shell or unstayed head PG-44
Water column, and connection PG-60
design and material of PG-60
shutoff valves on PG-60
Water fronts, valves on PG-60.5
Water gage glass, lowest visible part of PG-60
Water gages, automatic A-18
Water glasses PG-60
Waterleg flanges, joined by welding PFT-21, PWT-12
Waterleg joints, formed by welding . . . . . Fig. PFT-21
Water level indicators PG-60
Waterside fusible plugs A-20
rings, material of PFT-5
Welded connections of superheater tubes PW-41
Welded joints, between staybolted box header sheets PWT-12
electric resistance butt PW-27
inspection during fabrication PW-46
longitudinal and circumferential PW-35
postweld heat treatment PW-39
preheating PW-38
radiographic testing PW-51
repair of defects in PW-40
unreinforced, holes in PW-14
Welded pipe connections PW-41
Welded piping connecting to boiler outlets PW-35
Welded stays PW-19
Welding . . . . . Part PW
materials acceptable for PW-5
of nozzles PW-16
of stays, fusion PW-19, PFT-24
operator, qualification of PW-28
preparation of base metal for PW-29
processes, acceptable PW-27
procedure, qualification of PW-28
terms, definitions of PW-1, PW-27
test requirements . . . . . PW-46 to PW-54
Wet-bottom boilers, height from floor line PFT-46
Working pressure, for braced and stayed surfaces PG-46
for steel fittings PG-42
for tubes, of firetube boilers PFT-12
of watertube boilers PG-27
maximum PG-21, PG-27
on flat surfaces PG-46
on shells PG-21
Wrapper sheet of locomotive type boiler PFT-23
Wrought iron *(see Iron)*
Wrought steel *(see Steel)*