

## PART 3 — REPAIRS AND ALTERATIONS

### TABLE OF CONTENTS

National Board Contact Information .....	ii
NB Board of Trustees / Advisory Committee Members.....	iii
National Board Members .....	iv
NBIC Committee Structure .....	vi
National Board Inspection Code Edition / Addendum.....	x
Foreword .....	xi
Introduction .....	xiii
 Section 1      General and Administrative Requirements .....	 13
1.1      Scope .....	14
1.2      Construction Standards for Pressure-Retaining Items .....	14
1.3      Inspector .....	15
1.3.1      Authorization .....	15
1.3.2      Acceptance Inspection .....	15
1.4      Definitions Relating to Pressure Relief Devices .....	15
1.5      Accreditation .....	15
1.5.1      Accreditation Process.....	16
1.5.2      Scope Issuance and Revision to a Quality System .....	16
1.6      Accreditation of "R" Repair Organizations .....	16
1.6.1      Scope .....	16
1.6.2      Prerequisites for Issuing a National Board <i>Certificate of Authorization</i> .....	17
1.6.3      Procedure for Obtaining or Renewing a National Board <i>Certificate of Authorization</i> .....	17
1.6.4      National Board "R" Symbol Stamp .....	18
1.6.5      Quality System .....	19
1.6.5.1      Outline of Requirements for a Quality System for Qualification For the National Board "R" <i>Certificate of Authorization</i> .....	19
1.7      Accreditation of "VR" Repair Organizations.....	21
1.7.1      Scope .....	21
1.7.2      Jurisdictional Participation .....	21
1.7.3      General Rules .....	22
1.7.4      Repair of Nuclear Valves .....	22
1.7.5      Issuance and Renewal of the "VR" <i>Certificate of Authorization</i> .....	22
1.7.5.1      General .....	22
1.7.5.2      Issuance of Certificate.....	22
1.7.5.3      Renewal of Certificate .....	22
1.7.5.4      Review of Applicant's Facility .....	23
1.7.5.5      Verification Testing .....	23
1.7.5.6      Verification Testing Alternatives .....	24
1.7.6      Use of the "VR" Authorization .....	24
1.7.6.1      Technical Requirements.....	24
1.7.6.2      Stamp Use .....	25

1.7.6.3	Return of Stamp.....	25
1.7.6.4	Multiple Locations.....	25
1.7.6.5	<i>Certificate of Authorization</i> Contents .....	25
1.7.6.6	Changes to Certificates of Authorization .....	25
1.7.6.7	Issuance of More Than One "VR" Symbol Stamp to a <i>Certificate of Authorization</i> Holder .....	25
1.7.7	Quality System .....	25
1.7.7.1	General .....	25
1.7.7.2	Written Description .....	26
1.7.7.3	Review .....	26
1.7.7.4	Maintenance of Controlled Copy.....	26
1.7.7.5	Outline of Requirements for a Quality System .....	26
1.7.8	ASME "V", "HV", or "UV" Certificate Holders .....	29
1.8	"NR" Accreditation Requirements.....	30
1.8.1	Scope .....	30
1.8.2	Prerequisites for Issuing a National Board "NR" <i>Certificate of Authorization</i> .....	30
1.8.3	Procedures for Obtaining or Renewing a National Board "NR" <i>Certificate of Authorization</i> .....	31
1.8.4	National Board "NR" Symbol Stamp .....	33
1.8.5	Quality System Program.....	33
1.8.5.1	Outline of Requirements for a Quality System Program for Qualification for the National Board "NR" Symbol Stamp .....	33
1.8.6	Interface with the Owners Repair / Replacement Program .....	40
Section 2	Welding and Heat Treatment.....	41
2.1	Scope .....	42
2.2	Welding .....	42
2.2.1	Welding Procedure Specifications .....	42
2.2.2	Standard Welding Procedure Specifications .....	42
2.2.3	Performance Qualification .....	42
2.2.4	Welding Records .....	42
2.2.5	Welders' Identification .....	42
2.2.6	Welders' Continuity .....	43
2.3	Standard Welding Procedure Specifications .....	43
2.4	AWS Reference Standards .....	49
2.5	Heat Treatment .....	49
2.5.1	Preheating .....	49
2.5.2	Postweld Heat Treatment (PWHT).....	51
2.5.3	Alternative Welding Methods Without Postweld Heat Treatment.....	52
2.5.3.1	Welding Method 1 .....	53
2.5.3.2	Welding Method 2 .....	53
2.5.3.3	Welding Method 3 .....	55
2.5.3.4	Welding Method 4 .....	55
2.5.3.5	Welding Method 5 .....	57
Section 3	Requirements for Repairs and Alterations .....	59
3.1	Scope .....	60
3.2	General Requirements for Repairs and Alterations .....	60
3.2.1	Material Requirements for Repairs and Alterations .....	60
3.2.2	Replacement Parts .....	60
3.2.3	Drawings .....	61
3.2.4	Design Requirements for Repairs and Alterations .....	61
3.2.5	Calculations .....	61

3.3	Repairs to Pressure-Retaining Items .....	62
3.3.1	Defect Repairs .....	62
3.3.2	Routine Repairs .....	62
3.3.3	Examples of Repairs .....	62
3.3.4	Repair Methods .....	63
3.3.4.1	Scope .....	63
3.3.4.2	Defect Repairs .....	64
3.3.4.3	Wasted Areas .....	66
3.3.4.4	Seal Welding .....	70
3.3.4.5	Re-Ending or Piecing Pipes or Tubes .....	71
3.3.4.6	Patches .....	72
3.3.4.7	Stays .....	74
3.3.5	Repair of ASME Section VIII, Division 2 or 3, Pressure Vessels .....	74
3.3.5.1	Scope .....	74
3.3.5.2	Repair Plan .....	74
3.4	Alterations .....	74
3.4.1	Re-Rating .....	74
3.4.2	Alterations Based on Allowable Stress Values .....	75
3.4.3	Examples of Alterations .....	75
3.4.4	Alteration of ASME Code Section VIII, Division 2 or 3, Pressure Vessels .....	76
3.4.4.1	Alteration Plan .....	76
Section 4	Examination and Testing.....	77
4.1	Scope .....	78
4.2	Nondestructive Examination .....	78
4.3	Pressure Gages, Measurement, Examination, and Test Equipment .....	78
4.4	Examination and Test for Repairs and Alterations .....	78
4.4.1	Test or Examination Methods Applicable to Repairs .....	79
4.4.2	Test or Examination Methods Applicable to Alterations.....	80
4.5	Pressure Relief Valve Performance Testing and Testing Equipment .....	81
4.5.1	Test Medium and Testing Equipment .....	81
4.5.2	Owner-User ASME Code Section VIII Steam Testing .....	82
4.5.3	Lift Assist Testing .....	82
4.5.4	Pressure Test of Parts .....	82
Section 5	Certification / Documentation and Stamping.....	85
5.1	Scope .....	86
5.2	Documentation .....	86
5.2.1	Preparation of Form R-1 (Repairs) .....	86
5.2.2	Preparation of Form R-2 (Alterations) .....	86
5.3	Distribution of Form R-1 .....	87
5.4	Distribution of Form R-2 .....	87
5.5	Registration of "R" Forms – General .....	87
5.5.1	Registration for Repairs .....	87
5.5.2	Registration for Alterations .....	87
5.5.3	Registration for Fiber-Reinforced Vessels .....	87
5.5.4	Registration for Nuclear Repair/Replacement Activities .....	87
5.5.5	Registration for Graphite Vessels.....	88
5.6	Form "R" Log .....	88
5.7	Stamping Requirements for Repairs and Alterations.....	88
5.7.1	General .....	88
5.7.2	Stamping Requirements for Repairs .....	88
5.7.3	Stamping Requirements for Alterations .....	88
5.8	Removal of Original Stamping or Nameplate .....	88

5.9	Stamping Requirements for Pressure Relief Devices .....	89
5.9.1	Nameplates .....	89
5.9.2	Repair Nameplate .....	89
5.9.3	Changes to Original Pressure Relief Valve Nameplate Information ...	89
5.9.4	Test Only Nameplate .....	90
5.9.5	Replacement of Illegible or Missing Nameplates .....	90
5.9.6	Requirements for Stamping and Nameplate Information .....	90
5.9.6.1	Scope .....	90
5.9.6.2	General Requirements for Stamping and Nameplates ....	91
5.9.6.3	Additional Stamping Requirements for Repairs .....	91
5.9.6.4	Additional Stamping Requirements for Alterations and Re-Ratings .....	91
5.9.6.5	Additional Stamping Requirements for Parts .....	91
5.10	Alternative Marking and Stamping for Graphite Pressure Equipment .....	91
5.11	Stamping for Fiber Reinforced Vessels .....	92
5.11.1	Removal of Original Stamping or Nameplate .....	92
5.11.2	Stamping for Repairs .....	92
5.11.3	Stamping for Alterations .....	93
5.12	Stamping Requirements for Yankee Dryers .....	93
5.13	Repair and Alteration Forms and Guidelines for Completing Forms .....	94
5.13.1	<i>Form R-1 Report of Repair</i> .....	95
5.13.2	<i>Form R-2 Report of Alteration</i> .....	96
5.13.3	<i>Form R-3 Report of Fabricated Parts</i> .....	98
5.13.4	<i>Form R-4 Report Supplementary Sheet</i> .....	100
5.13.4.1	Guide for Completing National Board Form "R" Reports.....	101
5.13.5	<i>Form NR-1 Nuclear Components and Systems in Nuclear Power Plants</i> .....	104
5.13.6	<i>Form NVR-1 Nuclear Pressure Relief Devices</i> .....	106
5.13.6.1	Guide for Completing National Board Form NR-1 and NVR-1 Reports.....	107
Section 6	Supplements .....	109
Supp. 1	Steam Locomotive Firetube Boiler Repairs .....	110
S1.1	General Requirements .....	110
S1.1.1	Federal Railroad Administration (FRA) .....	110
S1.1.2	Requirements for Welding Activities .....	110
S1.1.3	Materials.....	110
S1.1.3.1	Material List for Steam Locomotive Boilers .....	110
S1.1.4	Formula and Calculations for Steam Locomotive Boilers .....	111
S1.2	Locomotive Firetube Boiler Repairs .....	111
S1.2.1	Repair of Staybolt Holes .....	111
S1.2.2	Threaded Staybolts .....	111
S1.2.3	Ball Socket-Type Flexible Staybolts, Sleeves, and Caps .....	113
S1.2.4	Seal Welded Staybolts .....	113
S1.2.5	Welded Installation of Staybolts .....	113
S1.2.6	Diagonal Braces, Gusset Braces, and Throat Sheet/Tubesheet Braces .....	116
S1.2.7	Threaded Studs .....	116
S1.2.8	Patch Bolts .....	117
S1.2.9	Flues, Arch Tubes, Circulators, Thermic Siphons .....	117
S1.2.9.1	Flue and Tube Re-Ending .....	117
S1.2.9.2	Arch Tubes .....	117
S1.2.9.3	Tube Wall Thickness for Arch Tubes .....	119
S1.2.9.4	Thermic Siphons .....	119

S1.2.9.5	Circulators .....	119
S1.2.10	Repairs and Alterations to Boiler Barrel Unstayed Areas .....	119
S1.2.11	Repairs and Alterations to Boiler Barrel Stayed Area .....	121
S1.2.11.1	Firebox Sheet Repair .....	121
S1.2.11.2	Firebox Patches .....	121
S1.2.11.3	Repair of Stayed Firebox Sheets Grooved or Wasted at the Mudring .....	122
S1.2.11.4	Mudring Repairs .....	122
S1.2.11.5	Repair of Firebox and Tubesheet Knuckles .....	123
S1.2.11.6	Tubesheet Repairs .....	126
S1.2.12	Seams and Joints .....	126
S1.2.12.1	Caulking Riveted Seams and Rivet Heads .....	126
S1.2.12.2	Threaded Openings in Vessel Walls, Bushings, and Welded Nozzles (Washout Plug Holes and Other Connections) .....	126
S1.2.13	Fittings and Gages .....	127
S1.2.13.1	Water Gage Connection .....	127
Supp. 2	Historical Boilers .....	128
S2.1	Scope.....	128
S2.2	Introduction .....	128
S2.3	Responsibilities .....	128
S2.4	Repairs and Alterations .....	128
S2.5	Construction Standards .....	128
S2.6	Accreditation .....	129
S2.7	Materials.....	129
S2.7.1	Material List for Historical Boilers Repairs .....	129
S2.7.2	Replacement Parts .....	130
S2.8	Welded Repair Inspection .....	130
S2.9	Welding.....	130
S2.10	Heat Treatment .....	130
S2.11	Nondestructive Examination .....	130
S2.12	Documentation.....	130
S2.13	Repair Methods.....	130
S2.13.1	Repair of Threaded Staybolt Holes.....	131
S2.13.2	Installation of Threaded Staybolts .....	131
S2.13.3	Seal Welding of Threaded Staybolts .....	132
S2.13.4	Installation of Welded Staybolts.....	132
S2.13.5	Threaded Studs.....	133
S2.13.6	Patch Bolts .....	134
S2.13.7	Flue and Tube Re-Ending .....	134
S2.13.8	Flue and Tube Installation.....	134
S2.13.9	Repairs and Alterations to Unstayed Areas.....	136
S2.13.9.1	Weld Buildup of Wastage and Grooving in Unstayed Areas.....	136
S2.13.9.2	Welded Repair of Cracks in Unstayed Areas .....	137
S2.13.9.3	Welded Flush Patches in Unstayed Areas .....	137
S2.13.9.4	Repair of Cracks, Grooving, and Wastage Using a Riveted Patch in Unstayed Areas .....	138
S2.13.10	Repairs and Alterations to Stayed Areas .....	139
S2.13.10.1	Weld Buildup of Wastage and Grooving in Stayed Areas .....	139
S2.13.10.2	Welded Repair of Cracks in Stayed Areas.....	139
S2.13.10.3	Welded Flush Patches in Stayed Areas .....	139
S2.13.10.4	Repair of Stayed Firebox Sheets Grooved or Wasted at the Mudring.....	140

S2.13.11 Repair of Firebox and Tubesheet Knuckles.....	141
S2.13.11.1 Weld Buildup of Wastage and Grooving in Firebox and Tubesheet Knuckles .....	141
S2.13.11.2 Welded Repair of Cracks in Firebox and Tubesheet Knuckles.....	141
S2.13.11.3 Welded Flush Patches in Firebox and Tubesheet Knuckles.....	142
S2.13.12 Repair of Tubesheets.....	142
S2.13.12.1 Weld Buildup of Wastage and Grooving in Tubesheets .....	142
S2.13.12.2 Welded Repair of Cracks in Tubesheets.....	142
S2.13.12.3 Welded Flush Patches in Tubesheets .....	144
S2.13.13 Seams, Joints, and Rivets .....	145
S2.13.13.1 Caulking Riveted Seams and Rivet Heads .....	145
S2.13.13.2 Rivet Holes.....	145
S2.13.13.3 Assembly of Riveted Joints.....	145
S2.13.13.4 Riveting .....	145
S2.13.13.5 Seal Welding Seam, Joints, and Rivet Heads .....	146
S2.13.14 Repair of Openings .....	146
S2.13.14.1 Repair of Threaded Openings .....	146
S2.13.14.2 Repair of Handhole Openings .....	149
S2.13.14.3 Repair of Fusible Plug Opening .....	150
Supp. 3 Repair and Alteration of Graphite Pressure Equipment .....	151
S3.1 Scope .....	151
S3.2 Repairs .....	151
S3.3 Repairs of a Routine Nature .....	153
S3.4 Alterations .....	153
S3.5 Repair Guide for Impervious Graphite .....	153
S3.5.1 Introduction .....	153
S3.5.2 Typical Graphite Fractures .....	154
S3.5.2.1 Major Fracture .....	154
S3.5.2.2 Intermediate Fracture .....	154
S3.5.2.3 Minor Fracture .....	154
S3.5.3 Graphite Repair by Plug Stitching .....	157
S3.5.3.1 Plug Stitching Procedure .....	157
S3.5.3.2 Figures – Typical Plug Stitching Procedure .....	158
S3.5.4 Re-impregnation of Graphite Parts (Tubesheets, Heads, and Blocks) .....	158
S3.5.4.1 Control of Impregnation Material .....	159
S3.5.4.2 Finishing the Repair .....	159
Supp. 4 Repair and Alteration of Fiber-Reinforced Thermosetting Plastic Pressure Equipment .....	160
S4.1 Scope .....	160
S4.2 Inspector Qualifications .....	160
S4.3 Tools .....	160
S4.4 Limitations .....	161
S4.5 Repair Limitations for Filament Wound Vessels .....	161
S4.6 Vessels Fabricated Using Elevated Temperature Cured Resin Systems .....	161
S4.7 Code of Construction.....	161
S4.8 Materials.....	162
S4.9 Replacement Parts.....	162
S4.10 Secondary Bonding .....	162
S4.10.1 Secondary Bonding Procedure Specifications .....	162
S4.10.2 Performance Qualifications .....	162
S4.10.3 Records .....	162

	S4.10.4 Secondary Bonder's Identification .....	163
	S4.10.5 Secondary Bonder's Continuity .....	163
S4.11	Curing.....	163
S4.12	Nondestructive Examination .....	163
S4.13	Pressure and Acoustic Emission Tests.....	163
	S4.13.1 Pressure Gages, Measurement, and Examination and Test Equipment.....	163
S4.14	Acceptance Inspection.....	168
	S4.14.1 Stamping.....	168
	S4.14.2 Documentation .....	168
	S4.14.3 Registration of Documentation .....	168
	S4.14.4 Distribution of Documentation.....	168
S4.15	Pressure Testing For Repairs .....	168
S4.16	Additional Requirements for Repairs .....	169
	S4.16.1 Scope .....	169
	S4.16.2 Drawings .....	169
	S4.16.3 Repair Plan .....	169
	S4.16.4 Routine Repairs .....	169
	S4.16.5 Repair Methods .....	170
S4.17	Additional Requirements for Alterations .....	170
	S4.17.1 Scope .....	170
	S4.17.2 Design .....	170
	S4.17.3 Alteration Plan .....	170
	S4.17.4 Calculations.....	170
	S4.17.5 Re-Rating .....	170
	S4.17.6 Pressure Testing.....	171
S4.18	Repair and Alteration Methods .....	172
	S4.18.1 General Requirements .....	172
	S4.18.2 Classification of Repairs .....	172
	S4.18.2.1 Type 1a – Repair of the Corrosion Barrier .....	173
	S4.18.2.2 Type 1b – Repair of the Corrosion Barrier for Vessels with Precision Bores .....	175
	S4.18.2.3 Type 2 – Corrosion Barrier and Internal Structural Layer Repairs .....	177
	S4.18.2.4 Type 3 – External Structural Layer Repairs .....	177
	S4.18.2.5 Type 4 – Alterations .....	179
	S4.18.2.6 Type 5 – Miscellaneous General External Repairs or Alterations .....	179
	S4.18.2.7 Type 6 – Thermoplastic Repairs .....	179
	S4.18.2.8 Type 7 – Gel Coat Repairs .....	179
Supp. 5	General Requirements for Repairs and Alterations to Yankee Dryers .....	181
	Scope .....	181
S5.2	Examinations and Test Methods.....	181
S5.3	Yankee Dryer Repair Methods .....	181
	S5.3.1 Replacement Parts for Yankee Dryers .....	181
S5.4	Repair Guide for Yankee Dryers .....	181
S5.5	Procedures That Do Not Require Stamping or Nameplate Attachment .....	182
S5.6	Damage Repair .....	182
	S5.6.1 Repair of Local Thinning .....	182
	S5.6.2 Treatment of Crack-Like Flaws .....	183
	S5.6.3 Driven Plug Repair .....	184
S5.7	Alterations to Yankee Dryers .....	184
	S5.7.1 Scope .....	184
	S5.7.2 Alteration Types .....	184
Supp. 6	Repair, Alteration, and Modification of DOT Transport Tanks .....	185

S6.0	General Requirements .....	185
S6.1	Scope.....	185
S6.2	Construction Standards .....	185
S6.3	Accreditation .....	185
S6.4	Materials.....	185
S6.5	Replacement Parts.....	185
S6.6	Authorization .....	186
S6.7	Inspection.....	186
	S6.7.1 Inspector Duties for Repairs, Alterations, and Modifications .....	186
S6.8	Welding.....	187
	S6.8.1 Welding Procedure Specification .....	187
	S6.8.2 Standard Welding Procedure Specifications .....	187
	S6.8.3 Performance Qualification .....	188
	S6.8.4 Welding Records.....	188
	S6.8.5 Welders' Identification .....	188
	S6.8.6 Welders' Continuity .....	188
S6.9	Heat Treatment .....	188
	S6.9.1 Preheating.....	188
	S6.9.2 Postweld Heat Treatment .....	188
	S6.9.3 Alternatives to Postweld Heat Treatment .....	189
S6.10	Nondestructive Examination .....	189
S6.11	Coatings and Linings.....	190
S6.12	Measurement, Examination, and Test Equipment .....	190
S6.13	Acceptance Inspection.....	190
S6.14	Stamping.....	190
	S6.14.1 Removal of Original Stamping or Nameplate .....	190
S6.15	"TR" Forms .....	190
	S6.15.1 Registration of "TR" Forms .....	190
	S6.15.2 Form "TR" Log .....	190
S6.16	Additional Requirements for Repairs, Alterations, or Modifications .....	191
	S6.16.1 Scope .....	191
	S6.16.2 Repairs of Defects .....	191
	S6.16.3 Modifications .....	191
	S6.16.4 Drawings.....	191
	S6.16.5 Authorization .....	191
S6.17	Examination and Test .....	191
	S6.17.1 Methods.....	191
	S6.17.2 Stamping.....	192
	S6.17.3 Documentation .....	192
S6.18	Preparation of TR Forms .....	192
	S6.18.1 Distribution .....	192
	S6.18.2 Registration .....	192
S6.19	Repairs, Alterations, or Modification Reports.....	192
	S6.19.1 Registration of Form TR-1 and Form TR-2 .....	193
	S6.19.2 General Requirements "TR" Stamping and Nameplates.....	193
	S6.19.3 Stamping of the "TR" Symbol .....	194
Supp. 7	Requirements for Repairs to Pressure Relief Devices .....	195
S7.1	Scope .....	195
S7.2	General Requirements .....	195
S7.3	Weld Repairs to Pressure Relief Valve Parts .....	195
S7.4	Materials for Pressure Relief Devices .....	196
S7.5	Replacement Parts for Pressure Relief Devices .....	196
S7.6	Initial Adjustments to Pressure Relief Valves .....	197
S7.7	Field Repair .....	197
S7.8	Audit Requirements .....	197

S7.9	Use of Owner-User Personnel .....	197
S7.10	Guide to Jurisdictions for Authorization of Owners-Users to Make Adjustments to Pressure Relief Valves .....	198
	S7.10.1 General .....	198
	S7.10.2 Training .....	198
	S7.10.3 Documentation .....	198
	S7.10.4 Quality System .....	198
	S7.10.5 External Adjustments .....	199
	S7.10.6 Repairs .....	199
S7.11	Training and Qualification of Personnel .....	199
	S7.11.1 General .....	199
	S7.11.2 Contents of Training Program .....	199
	S7.11.3 Qualification of Personnel .....	199
	S7.11.4 Annual Review of Qualification .....	199
S7.12	Welding for Pressure Relief Valves .....	199
	S7.12.1 Welding Procedure Specifications .....	200
	S7.12.2 Standard Welding Procedure Specifications .....	200
	S7.12.3 Performance Qualification .....	200
	S7.12.4 Welding Records .....	200
	S7.12.5 Welders' Identification .....	200
	S7.12.6 Welders' Continuity .....	200
S7.13	Heat Treatment .....	201
	S7.13.1 Preheating .....	201
	S7.13.2 Postweld Heat Treatment .....	201
S7.14	Recommended Procedures for Repairing Pressure Relief Valves .....	201
	S7.14.1 Introduction .....	201
	S7.14.2 Spring-Loaded Pressure Relief Valves .....	201
	S7.14.3 Pilot Operated Safety Relief Valves .....	203
Supp. 8	Recommended Guide for the Design of a Test System for Pressure Relief Devices in Compressible Fluid Service .....	206
S8.1	Introduction .....	206
S8.2	General .....	206
S8.3	Test System Description .....	206
S8.4	Test Vessel Sizing Data .....	208
S8.5	Tables, Charts, and Figures .....	208
Supp. 9	Procedures to Extend the "VR" Certificate of Authorization and Stamp to ASME "NV" Stamped Pressure Relief Devices .....	210
S9.1	Introduction .....	210
S9.2	Administrative Procedures .....	210
S9.3	General Rules .....	210
Section 7	NBIC Policy for Metrication .....	213
7.1	General .....	214
7.2	Equivalent Rationale .....	214
7.3	Procedure for Conversion .....	214
7.4	Referencing Tables .....	215
Section 8	Preparation of Technical Inquiries to the National Board <i>Inspection Code Committee</i> .....	219
8.1	Introduction .....	220
8.2	Inquiry Format .....	220
8.3	Code Revisions or Additions .....	221
8.4	Code Interpretations .....	221

8.5	Submittals .....	221
Section 9	Glossary of Terms.....	223
9.1	Definitions .....	224
Section 10	NBIC Approved Interpretations .....	227
10.1	SCOPE .....	228
10.2	Index of Interpretations .....	228
10.3	Subject Index of Interpretations.....	232
Section 11	Index .....	235