

July 3, 2013

Dear *Guide* Purchaser,

Enclosed is ANSI/GPTC Z380, *Guide for Gas Transmission and Distribution Piping Systems*, 2012 Edition, including Addenda 1-3.

Your purchase entitles you to receive future notification of the issuance of addenda. Addenda are formatted to enable the replacement of pages in your *Guide* with updated pages. Addenda will be available for free downloading from the GPTC webpage at www.aga.org/gptc or paper copies may be purchased at www.aga.org/pubs for a nominal fee.

On behalf of the Gas Piping Technology Committee and the American Gas Association, thank you for your purchase and interest in the *Guide*.

Sincerely,



Secretary
GPTC Z380

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GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS

2012 EDITON

January 2012

The changes in this new edition are marked by wide vertical lines inserted to the left of modified text, overwriting the left border of most tables, or a block symbol (■) where needed. The Federal Regulations were not changed; however, 3 PHMSA forms and related instructions have been updated. Seventeen (17) GPTC transactions affected 42 sections of the Guide.

Editorial updates include application of the Editorial Guidelines, updating reference titles, adjustments to page numbering, and adjustment of text on pages. A major review of the document provided numerous publication and editorial refinements for improved format, consistency, and clarity. Additionally, the Index was enhanced to include coverage for Subpart P. Since the Guide is being republished, editorial updates and refinements are too numerous to universally mark.

The following table shows the affected sections.

Amdt. or Docket Number: FS Amendment
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Guide Section	Reason For Change	Affected Pages
Part 191 191.1	TR11-06	2
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192.939	TR04-45	440
192.945	TR11-07	445

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192.947	TR07-19	446
192.951	TR11-06	449
GMA G-191-1	TR11-06	477
GMA G-191-2	Updated PHMSA Form & Instructions	46 PHMSA numbered pages following 480
GMA G-191-5 (Prev. 4)	Updated PHMSA Form & Instructions	54 PHMSA numbered pages following 486
GMA G-191-6 (Prev. 5)	Updated PHMSA Form & Instructions	36 PHMSA numbered pages following 488
GMA G-192-1	TR04-45, TR06-42, TR07-22, TR08-14, TR10-44, TR11-02, TR11-07	497, 499, 500, 502, 503, 507, 508, 517
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GMA G-192-8	TR11-13	563 thru 567, 575 thru 579, 581
GMA G-192-13	TR11-18	637
GMA G-192-14	TR06-42	639 thru 644
INDEX	TR08-44	688, 690

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GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS

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ADDENDUM 1, July 2012

The changes in this addendum are marked by wide vertical lines inserted to the left of modified text, overwriting the left border of most tables, or a block symbol (■) where needed. No Federal Regulations were amended. Ten GPTC transactions affected 12 sections of the Guide.

Editorial updates include application of the Editorial Guidelines, updating reference titles, adjustments to page numbering, and adjustment of text on pages. Editorial updates as indicated "EU" only affected those areas listed.

The following table shows the affected sections, the pages to be removed, and their replacement pages.

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Guide Section	Reason For Change	Pages to be Removed	Replacement Pages
Title Page	EU	i/ii	i/ii
Table of Contents	EU	ix/x	ix/x
Membership List	EU	lix/lx thru lxxvii/lxxviii	lix/lx thru lxxvii/lxxviii
191.1	TR12-10	1/2	1/2
Subpart A 192.1	TR11-20, TR12-10	15/16	15/16
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Subpart L 192.614	TR10-32, TR12-15	253/254, 255/256	253/254, 255/256
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192.921	TR04-50	379/380	379/380
192.937	TR04-50	435/436, 437/438	435/436, 436(a)/436(b), 437/438
GMA G-192-1	TR11-10, TR11-28, TR12-08, TR12-10	501/502, 503/504, 507/508, 509/510, 517/518	501/502, 503/504, 507/508, 508(a)/508(b), 509/510, 517/518

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ADDENDUM 2, December 2012

The changes in this addendum are marked by wide vertical lines inserted to the left of modified text, overwriting the left border of most tables, or a block symbol (■) where needed. No Federal Regulations were updated by amendment. Six GPTC transactions affected 7 sections of the Guide.

Editorial updates include application of the Editorial Guidelines, updating reference titles, adjustments to page numbering, and adjustment of text on pages. While only significant editorial updates are marked, all affected pages carry the current addendum footnote. Editorial updates to text as indicated "EU" affected 14 sections of the Guide.

The following table shows the affected sections, the pages to be removed, and their replacement pages.

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Guide Section	Reason For Change	Pages to be Removed	Replacement Pages
Title Page	EU	i/ii	i/ii
Table of Contents	EU	v/vi	v/vi
Membership List	EU	lix/lx thru lxxvii/lxxviii	lix/lx thru lxxvii/lxxviii
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Subpart H 192.363	TR10-04	165/166	165/166
192.381	TR10-04	169/170 thru 175/176	169/170 thru 175/176
192.383	TR10-04		
Subpart L 192.619	TR11-12	275/276	275/276
Subpart O 192.907	EU	355/356	355/356
192.921	TR11-41	377/378, 379/380	377/378, 379/380
192.925	EU	389/390, 399/400 thru 403/404	389/390, 399/400 thru 403/404
192.927	EU	413/414	413/414
192.935	EU	431/432	431/432
192.939	EU	441/442	441/442
GMA G-191-6	EU	13 pages of superceded forms and 21 pages of superceded instrurctions	13 pages of revised forms and 19 pages of revised instructions
GMA G-192-1	EU	515/516 thru 519/520	515/516 thru 519/520
GMA G-192-1A	EU	521/522	521/522

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ADDENDUM 3, March 2013

The changes in this addendum are marked by wide vertical lines inserted to the left of modified text, overwriting the left border of most tables, or a block symbol (■) where needed. No Federal Regulations were updated by amendment. Eight GPTC transactions affected 11 sections of the Guide.

Editorial updates include application of the Editorial Guidelines, updating reference titles, adjustments to page numbering, and adjustment of text on pages. While only significant editorial updates are marked, all affected pages carry the current addendum footnote. Editorial updates to text as indicated "EU" affected 19 sections of the Guide.

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Guide Section	Reason For Change	Pages to be Removed	Replacement Pages
Title Page	EU	i/ii	i/ii
Table of Contents	EU	vii/viii	vii/viii
Foreward	EU	xiii/xiv	xiii/xiv
Membership List	EU	lix/lx thru lxvii/lxviii	lix/lx thru lxvii/lxviii
Subpart D 192.147	EU	77/78	77/78
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Subpart F 192.273	EU	123/124	123/124
Subpart I 192.476	EU	199/200	199/200
Subpart L 192.605	TR10-08	235/236	235/236
192.613	TR08-43	249/250 thru 261/262	249/250 thru 261/262
192.614	TR08-01		
192.615	TR08-01		
192.616	TR12-20	271/272	271/272
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Subpart M 192.703	TR08-01	297/298, 299/300	297/298, 299/300
Subpart N 192.803	EU, TR10-08	333/334 thru 341/342	333/334 thru 341/342
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Subpart O 192.909	EU	357/358	357/358
192.911	EU	359/360, 365/366, 367/368	359/360, 365/366, 367/368
192.927	EU	415/416	415/416
192.937	EU (Correcting Addendum number and date)	436(a)/436(b)	436(a)/436(b)
GMA G-191-5	Updated PHMSA Form and Instructions	54 PHMSA numbered pages following page 486	49 PHMSA numbered pages following page 486
GMA G-192-1	EU, TR07-27, TR08-43, TR12-20	503/504 thru 517/518	503/504 thru 517/518
GMA G-192-8	EU, TR10-10, TR11-21, TR11-22	555/556 thru 559/560, 567/568 thru 571/572	555/556 thru 559/560, 567/568 thru 571/572
GMA G-192-11	EU	589/590	589/590
GMA G-192-11A	EU	611/612	611/612

Guide Section	Reason For Change	Pages to be Removed	Replacement Pages
GMA G-192-13	TR07-27	635/636, 637/638	635/636, 637/638
GMA G-192-18	EU	669/670	669/670

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PLEASE NOTE

Addenda to this Guide will also be issued periodically to enable users to keep the Guide up-to-date by replacing the pages that have been revised with the new pages. It is advisable, however, that pages which have been revised be retained so that the chronological development of the Federal Regulations and the Guide is maintained.

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Guide for Gas Transmission and Distribution Piping Systems

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PREFACE

The guide material presented in the Gas Piping Technology Committee's (GPTC) Guide for Gas Transmission and Distribution Piping Systems (Guide) contains information and some "how to" methods to assist the operator in complying with the Code of Federal Regulations (CFR), Title 49 as follows:

- Part 191 -- Transportation of Natural and Other Gas by Pipeline: Annual Reports, Incident Reports, and Safety-Related Condition Reports
- Part 192 -- Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards

Parts 191 and 192 are typically referred to hereinafter as the "Regulations."

The recommendations contained in the Guide are based on sound engineering principles developed by a committee balanced in accordance with accepted committee procedures and must be applied by the use of sound and competent judgment. The guide material is advisory in nature and contains guidance and information for consideration in complying with the Regulations. As such, it is not intended for public authorities or others to adopt the Guide in mandatory language, in whole or in part, in laws, regulations, administrative orders, ordinances, or similar instruments as the sole means of compliance.

The operator is cautioned that the guide material may not be adequate under all conditions encountered, and should not restrict the operator from using other methods of complying with the Regulations. Following the Guide does not ensure that an operator is automatically in compliance with the requirements of Parts 191 and 192. Operators of intrastate facilities are also cautioned that some states have additional or more stringent requirements than Parts 191 and 192.

HISTORY

The Natural Gas Pipeline Safety Act became effective on August 12, 1968. It required the Secretary of Transportation to adopt interim rules within three months which were to consist of the existing state standards, where such standards existed, or the standards common to a majority of states where no state standard existed, and to establish minimum federal standards within twenty-four months. The safety standard for gas pipelines and mains, in the majority of the states, was the American National Standard Code for Pressure Piping, Gas Transmission and Distribution Piping Systems, B31.8. Thus, the interim minimum safety standards were essentially B31.8 Code requirements.

Between August 12, 1968 and August 12, 1970, the Office of Pipeline Safety (OPS) of the United States Department of Transportation (DOT) developed safety standards which would be applicable to gas facilities, with the exception of rural gas gathering systems. As a result, Title 49 Part 192 of the Code of Federal Regulations (CFR) "Transportation of Natural and Other Gas by Pipelines: Minimum Federal Safety Standards" became effective November 12, 1970.

Since the sponsoring organization of the ANSI B31.8 Committee was The American Society of Mechanical Engineers (ASME), the ASME initiated discussions with the DOT/OPS, in an effort to establish the future role of the B31.8 Code Committee with respect to pipeline safety. As a result of those discussions, the ASME decided to form the ASME Gas Piping Standards Committee. The title of the Committee was changed to the Gas Piping Technology Committee (GPTC) on September 20, 1982.

The first edition of the "Guide for Gas Transmission and Distribution Piping Systems" was published on December 15, 1970. It was essentially a compilation of the Federal Safety Standards and the then current ANSI B31.8 Code material that was relevant to the Part 192 requirements. Subsequent editions and addenda to the "Guide" had "how to" Guide Material directly following each of the standards of 49 CFR Part 192, and numerous guide appendices. Part 191 was subsequently added to the 1995 edition of the Guide.