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petroleum resource base was imminent. This study examines carefully

and guidance that restrict the petroleum industry’s ability to explore for

produce oil and natural gas in wetlands. In particular, federal agency rules require wetland mitigation banks— that could be used to compensate for possible wetland losses—to be fully functional before industry can use them. However, state and local governments often allow for concurrent and in lieu fee banking arrangements; these allow for payments to a group or agency that will undertake wetland restoration or preservation in lieu of managing such activities directly. This study examines those programs, their relationship to the federal permitting process, how they assure mitigation is successful, and how they achieve no overall net loss of wetlands.

February 1995

DP 077
Alternative Wetland Mitigation Programs
The Corps of Engineers and EPA have issued memora-
danda that restrict the petroleum industry’s ability to explore for

and produce oil and natural gas in wetlands. In particular, federal agency rules require wetland mitigation banks—that could be used to compensate for possible wetland losses—to be fully functional before industry can use them. However, state and local governments often allow for concurrent and in lieu fee banking arrangements; these allow for payments to a group or agency that will undertake wetland restoration or preservation in lieu of managing such activities directly. This study examines those programs, their relationship to the federal permitting process, how they assure mitigation is successful, and how they achieve no overall net loss of wetlands.

February 1995

DP 081
Are We Running Out of Oil?
Since the dawn of the petroleum industry in the mid-19th century, there have been recurrent waves of concern that exhaustion of the world’s petroleum resource base was imminent. This study examines carefully both the historical record and the most prominent recent geological assessments. The analysis shows that the obvious concern—that of imminent exhaustion of world oil resources—is actually the most easily dismissed. Nature continues to be quite generous in providing oil resources for development. However, there is a danger that attempts by government to address the non-problem of resource exhaustion will distract from or even aggravate the challenge of removing institutional barriers to supply development.

December 1995

DP 084R
Analysis of the Costs and Benefits of Regulations: Review of Historical Experience
Recent legislative proposals to reform the regulatory process have included the use of benefit cost analysis to decide whether or not a regulation should be implemented. The purpose of this paper is to assess the current practices of benefit cost analysis, primarily through examination of the series of regulatory impact analyses mandated by presidential executive orders. While the record is mixed, it shows that in many, but perhaps not all, cases it is possible to develop a reasonable estimate of the benefits and costs of proposed regulations and to decide among regulatory alternatives on the basis of these analyses.

December 1996

DP 086
Opposition to OCS Development, Historical Context and Economic Considerations
This paper reviews the history of offshore leasing, focusing on the long conflict between the federal government and the states over control of the leasing process. The paper then examines economic aspects of leasing and relates these to the controversy surrounding leasing. The conclusions of the analysis suggest that consideration should be given to sharing a portion of federal offshore revenues with affected coastal communities. This sharing has the potential to reduce opposition to offshore leasing and allow the nation to realize more of the net benefits from tapping offshore oil and natural gas resources.

November 1996

DP 088
Restoring Natural Resources: Legal Background and Economic Analysis
This paper reviews the legislative and legal history behind the resource damage restoration regulations under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Oil Pollution Act (OPA). The damage restoration debate is whether the objective is to restore a natural resource’s lost services or whether to restore the exact chemical, biological, and physical characteristics. This paper reviews the debate over these approaches to restoration and the economic implications of adopting one approach over another. This paper supports a services approach and suggests modifications to the current interpretation of restoration requirements.

October 1997

RESEARCH STUDIES

RS 032
An Empirical Analysis of the Determinants of Petroleum Drilling
December 1983

RS 051
The Use of Economic Incentive Mechanisms in Environmental Management
June 1990

RS 053
Reducing Emissions from Older Vehicles
August 1990

RS 056
Economics of Alternative Fuel Use: Compressed Natural Gas as a Vehicle Fuel
December 1990

RS 064
U.S. Petroleum Supply: History, Prospects, and Policy Implications
September 1992

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RS 056
Economics of Alternative Fuel Use: Compressed Natural Gas as a Vehicle Fuel
December 1990

RS 064
U.S. Petroleum Supply: History, Prospects, and Policy Implications
September 1992
RS 067  
The Cost Effectiveness of Vehicle Inspection and Maintenance Programs  
Several states began automobile inspection and maintenance (I/M) programs during the 1970s as part of their effort to reduce carbon monoxide and ozone precursor emissions. The Clean Air Act Amendments of 1990 further increased the scope of I/M programs. This paper offers an evaluation of inspection and maintenance from the perspective of cost-effectiveness: program costs divided by program effectiveness. Effectiveness is measured in tons of pollutants removed: volatile organic compounds, carbon monoxide, and nitrogen oxides. Where possible, individual program components are evaluated with respect to cost-effectiveness that should be included in assessments of I/M: a formal decision tree model of the I/M process; cost-effectiveness estimates of current and enhanced I/M programs; and alternatives for making I/M more cost-effective.  
December 1993  

RS 074  
Air Emissions Banking and Trading: Analysis and Implications for Wetland Mitigation Banking  
Examines the history of the air emissions banking and trading policy initiated by EPA in the early 1970s and identifies the factors that hindered its success. The lessons learned from the air emissions program are applied to wetland mitigation banking. It is hoped that wetlands banking and trading mechanisms will increase the ability to proceed with economic activity and still preserve wetlands. Potential solutions for avoiding the problems encountered in the air emissions trading program are also discussed.  
February 1994  

RS 075  
Improving Cost-Effectiveness Estimation: A Reassessment of Control Options to Reduce Ozone Precursor Emissions  
Regulators and industry use cost-effectiveness techniques as a decision tool to rank the desirability of emission control strategies. This paper examines the conceptual basis for cost-effectiveness estimates for the control of stationary mobile source emissions focusing on volatile organic compounds that are precursors of ozone. The paper also provides an independent set of cost-effectiveness estimates for enhanced inspection/maintenance programs, vehicle scrappage, the low emission vehicle standard, and reformulated gasoline.  
August 1994  

RS 076  
Payng for Automobile Insurance at the Pump: A Critical Review  
Proponents of pay-at-the-pump (PAP) auto insurance advocate replacing the current system of driver-purchased motor vehicle insurance with a new one where a major portion of the cost of insurance would be paid for by new taxes at the gasoline pump. Some groups and states have given some consideration to a form of PAP insurance. This paper examines efficiency and equity effects of such proposals. It finds the PAP proposals (a) are based on false assumptions of accident causes; (b) are not needed to solve the uninsured motorist problem; (c) incorrectly link promises of large savings to paying for insurance at the pump; and (d) are both inequitable and inefficient.  
December 1994  

RS 082  
Superfund Liability and Taxes: Petroleum Industry Shares in Their Historical Context  
Summarizes historic and current information about petroleum industry Superfund cleanup liability and taxes. It estimates the amount of Superfund taxes paid from 1982 through the early 1990s and then calculates the petroleum industry's share of Superfund taxes. This paper documents the large disparity that exists between the share of Superfund taxes paid by the petroleum industry and the share of contamination that can be attributed to the petroleum industry; the results show that the petroleum industry's share of general Superfund taxes far exceeds its share of cleanup costs.  
July 1996  

RS 094  
How Unilateral Economic Sanctions Affect the U.S. Economy: An Inter-Industry Analysis  
The National Association of Manufacturers (1997) estimates that a total of 61 U.S. laws and executive actions targeting 35 countries and billions of dollars of goods and services have been unilaterally enacted over the 1993-1996 period. Hufbauer et al. (1997) have estimated that U.S. unilateral sanctions in force in 1995 reduced exports by $15 billion to $19 billion in that year, putting at risk 200,000 to 250,000 high-wage export supported jobs. This report provides sector and industry specific breakdowns of such aggregate impacts. Also, the initial impact in a given industry is traced to supporting industries, e.g. to input suppliers, and transport and marketing industries. Thus, while the direct burden of sanctions may fall on a narrow set of industries, the analysis reveals the extent to which the impacts spill over into other sectors of the economy, an area to date that has not received adequate attention. It follows that foregone exports are too narrow a measure of the costs of unilateral economic sanctions. The report also notes that capital goods, energy, chemicals, and agricultural products have been disproportionately impacted by U.S. unilateral sanctions.  
November 1998  

OTHER PUBLICATIONS  
The Economics of Energy Security  
Prepared by Douglas R. Bohi and Michael A. Toman Thisan. This book examines energy security as a basis for designing energy policy. Energy security refers to the loss of economic welfare that may occur as a result of change in price or availability of energy. (ISBN 0-7923-9664-2)  
January 1996  

To order, please visit https://www.springer.com/us/book/9780792396857  

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Spec Q1
Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry—Chinese
Chinese translation of Spec Q1.
9th Edition | June 2013 | Product Number: G0Q109C | Price: $131.00

Spec 2B
Specification for the Fabrication of Structural Steel Pipe—Chinese
Chinese translation of Spec 2B.
Product Number: G02B06C | Price: $90.00

Spec 2F
Specification for Mooring Chain—Chinese
Chinese translation of Spec 2F.
Product Number: G02F06C | Price: $97.00

RP 5A5/ISO 15463:2003
Field Inspection of New Casing, Tubing, and Plain-End Drill Pipe—Chinese
(includes Errata 1 dated December 2009)
7th Edition | June 2005 | Reaffirmed: January 2021
Product Number: GX5A507C | Price: $171.00

RP 5C1
Recommended Practice for Care and Use of Casing and Tubing—Chinese
Chinese translation of RP 5C1.
18th Edition | May 1999 | Reaffirmed: July 2020
Product Number: G05C18C | Price: $124.00

Spec 5CT
Casing and Tubing—Chinese
(includes Errata 1 dated December 2018, Errata 2 dated May 2019, Errata 3 dated June 2020, and Addendum 1 dated January 2021)
Chinese translation of Spec 5CT.
10th Edition | June 2018 | Product Number: GSCT010C | Price: $282.00

Spec 5L
Line Pipe—Chinese
Chinese translation of Spec 5L.
46th Edition | April 2018 | Product Number: G05L46C | Price: $209.00

Spec 5LCP
Specification on Coiled Line Pipe—Chinese
(includes Errata 1 dated July 2007)
Chinese translation of Spec 5LCP.
2nd Edition | October 2006 | Reaffirmed: July 2020
Product Number: G5LCP2C | Price: $112.00

RP 5LT
Recommended Practice for Truck Transportation of Line Pipe—Chinese
Chinese translation of RP 5LT.
Product Number: G5LT01C | Price: $65.00

Spec 5ST
Specification for Coiled Tubing—U.S. Customary and SI Units—Chinese
Chinese translation of Spec 5ST.
1st Edition | April 2010 | Reaffirmed: July 2020
Product Number: G5ST01C | Price: $145.00

Spec 7-1/ISO 10424-1:2004
Specification for Rotary Drill Stem Elements—Chinese
(includes Addendum 1 dated March 2007, Addendum 2 dated August 2009, Addendum 3 dated April 2011, Addendum 4 dated February 2019, and Errata 1 dated July 2020)
1st Edition | February 2006 | Reaffirmed: January 2021
Product Number: GX7101C | Price: $176.00

Spec 7F
Oil Field Chain and Sprockets—Chinese
(includes Errata 1 dated May 2013)
Chinese translation of Spec 7F.
Product Number: G7F008C | Price: $125.00

Spec 7NRV
Specification for Drill String Non-Return Valves—Chinese
(includes Addendum 1 dated December 2019)
Chinese translation of Spec 7NRV.
1st Edition | July 2006 | Reaffirmed: July 2020
Product Number: G7NRV01C | Price: $176.00

Spec 8C
Drilling and Production Hoisting Equipment (PSL 1 and PSL 2)—Chinese
(includes Errata 1 dated May 2014 and Errata 2 dated November 2020)
Chinese translation of Spec 8C.
5th Edition | April 2012 | Reaffirmed: August 2019
Product Number: GX8C05C | Price: $152.00

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<table>
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<th>Spec 11B</th>
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**KAZAKH * **

**RP 5B1**  
Gauging and Inspection of Casing, Tubing and Line Pipe Threads—Kazakh  
(includes Addendum 1 dated September 2004)  
Kazakh translation of RP 5B1.  
Product Number: G05B15K | Price: $154.00

**RP 5L8**  
Recommended Practice for Field Inspection of New Line Pipe—Kazakh  
Kazakh translation of RP 5L8.  
Product Number: G05L82K | Price: $136.00

**RP 7G**  
Recommended Practice for Drill Stem Design and Operating Limits—Kazakh  
(includes Errata 1 dated May 2000, Addendum 1 dated November 2003, and Addendum 2 dated August 2009)  
Kazakh translation of RP 7G.  
Product Number: G07G6AK | Price: $210.00

**TR 10TR1**  
Cement Sheath Evaluation—Kazakh  
Kazakh translation of TR 10TR1.  
2nd Edition | September 2008  
Product Number: G10TR12K | Price: $157.00

**TR 10TR4**  
Selection of Centralizers for Primary Cementing Operations—Kazakh  
Kazakh translation of TR 10TR4.  
1st Edition | May 2008  
Product Number: G10TR40K | Price: $67.00

**TR 10TR5**  
Methods for Testing of Solid and Rigid Centralizers—Kazakh  
Kazakh translation of TR 10TR5.  
1st Edition | May 2008  
Product Number: G10TR50K | Price: $67.00

**RP 13K**  
Recommended Practice for Chemical Analysis of Barite—Kazakh  
Kazakh translation of RP 13K.  
Product Number: G13K03K | Price: $116.00

**RP 49**  
Recommended Practice for Drilling and Well Servicing Operations Involving Hydrogen Sulfide—Kazakh  
Kazakh translation of RP 49.  
3rd Edition | May 2001 | Reaffirmed: January 2013  
Product Number: G4903K | Price: $96.00

**PORTUGUESE * **

**Spec Q1**  
Specification for Quality Management System Requirements or Manufacturing Organizations for the Petroleum and Natural Gas Industry—Portuguese  
Portuguese translation of Spec Q1.  
9th Edition | June 2013 | Product Number: G0Q109P | Price: $131.00

**Std 653**  
Tank Inspection, Repair, Alteration, and Reconstruction—Portuguese  
(includes Addendum 1 dated April 2018, Addendum 2 dated May 2020, and Errata 1 dated March 2020)  
Portuguese translation of Std 653.  
5th Edition | November 2014  
Product Number: C65305P | Price: $255.00

**RP 1168**  
Pipeline Control Room Management—Portuguese  
Portuguese translation of RP 1168.  
2nd Edition | February 2015 | Reaffirmed: October 2021  
Product Number: D11682P | Price: $98.00

**RUSSIAN * **

**Spec Q1**  
Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry—Russian  
Russian translation of Spec Q1.  
9th Edition | June 2013 | Product Number: G0Q109R | Price: $131.00

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<td><strong>Spec 5B</strong> Threading, Gauging, and Inspection of Casing, Tubing, and Line Pipe Threads—Russian Russian translation of Spec 5B. 16th Edition</td>
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### Note

This publication is a new entry in this catalog.
Chapter 5.4
Accessory Equipment for Liquid Meters—Russian
(includes Errata 1 dated May 2015)
Russian translation of Ch. 5.4.
Product Number: H05044R | Price: $102.00

Chapter 5.8
Measurement of Liquid Hydrocarbons by Ultrasonic Flow Meters—Russian
(ANSI/API MPMS Ch. 5.8-2011)
Russian translation of Ch. 5.8.
2nd Edition | November 2011 | Reaffirmed: May 2017
Product Number: H050802R | Price: $94.00

Spec 6A
Specification for Wellhead and Tree Equipment—Russian
(includes Errata 1 dated April 2019, Errata 2 dated June 2020,
Addendum 1 dated July 2020, Errata 3 dated September 2020,
Addendum 2 dated June 2021, and Errata 4 dated September 2021)
Russian translation of Spec 6A.
21st Edition | November 2018
Product Number: GX06A21R | Price: $310.00

Std 6ACRA
Age-Hardened Nickel-Based Alloys for Oil and Gas Drilling and Production Equipment—Russian
(includes Errata 1 dated October 2015, Addendum 1 dated September 2017,
Errata 2 dated February 2018, Addendum 2 dated September 2018, and
Addendum 3 dated February 2019)
Russian translation of Std 6ACRA.
1st Edition | August 2015 | Product Number: G6ACRA1R | $98.00

TR 6AF
Technical Report on Capabilities of API Flanges Under Combinations of Load—Russian
(includes Errata 1 dated March 2017)
Russian translation of TR 6AF.
3rd Edition | September 2008 | Product Number: G6AF03R | Price: $163.00

RP 6DR
Recommended Practice for the Repair and Remanufacture of Pipeline Valves—Russian
Russian translation of Spec RP 6DR.
2nd Edition | May 2012 | Reaffirmed: January 2020
Product Number: G06DR2R | Price: $84.00

Spec 6DSS
Specification for Subsea Pipeline Valves—Russian
(includes Errata 1 dated May 2018, Errata 2 dated July 2018 and
Addendum 1 dated April 2019)
Russian translation of Spec 6DSS.
3rd Edition | August 2017 | Product Number: G6DSS3R | Price: $179.00

Spec 7-1/ISO 10424-1:2004
Specification for Rotary Drill Stem Elements—Russian
(includes Addendum 1 dated March 2007, Addendum 2 dated August 2009,
Addendum 3 dated April 2011, Addendum 4 dated February 2019, and
Errata 1 dated July 2020)
1st Edition | February 2006 | Reaffirmed: January 2021
Product Number: GX7101R | Price: $176.00

Spec 7-2
Threading and Gauging of Rotary Shouldered Connections—Russian
(includes Errata 1 dated August 2017, Errata 2 dated November 2019, and
Addendum 1 dated March 2020)
Russian translation of Spec 7-2.

RP 7G
Recommended Practice for Drill Stem Design and Operating Limits—Russian
(includes Errata 1 dated May 2000, Addendum 1 dated November 2003,
and Addendum 2 dated August 2009)
Russian translation of RP 7G.
Product Number: G07G6AR | Price: $210.00

Spec 7K
Drilling and Well Servicing Equipment—Russian
(includes Errata 1 dated May 2016, Errata 2 dated August 2016, and
Errata 3 dated October 2017)
Russian translation of Spec 7K.
6th Edition | December 2015
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Chapter 8.1
Russian translation of Ch. 8.1.
5th Edition | September 2019
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Chapter 8.3
Standard Practice for Mixing and Handling of Liquid Samples of Petroleum and Petroleum Products—Russian
Russian translation of Ch. 8.3.
2nd Edition | September 2019
Product Number: H08032R | Price: $69.00

Chapter 8.4
Standard Practice for Sampling and Handling of Fuels for Volatility Measurement—Russian
(ASTM D5842)
Russian translation of Ch. 8.4.
5th Edition | May 2020 | Product Number: H08045R | Price: $50.00

Chapter 8.5
(ASTM D8009)
Russian translation of Ch. 8.5.
1st Edition | December 2015 | Product Number: H80501R | Price: $55.00

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Drilling and Production Hoisting Equipment (PSL 1 and PSL 2)—Russian
(includes Errata 1 dated May 2014 and Errata 2 dated November 2020)
Russian translation of Spec 8C.
5th Edition | April 2012 | Reaffirmed: August 2019
Product Number: G08C05R | Price: $152.00

Spec 10A
Cements and Materials for Well Cementing—Russian
(includes Addendum 1 dated November 2019)
Russian translation of Spec 10A.

RP 10B-2
Recommended Practice for Testing Well Cements—Russian
(includes Errata 1 dated June 2006 and Errata 2 dated January 2007)
-supersedes RP 10B-
Russian translation of RP 10B-2.
2nd Edition | April 2013 | Reaffirmed: April 2019
Product Number: G10B202R | Price: $239.00

Spec 10F
Cementing Float Equipment Testing—Russian
(includes Errata 1 dated May 2020 and Errata 2 dated May 2020)
Russian translation of Spec 10F.

TR 10TR1
Cement Sheath Evaluation—Russian
Russian translation of TR 10TR1.
2nd Edition | September 2008
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Russian translation of TR 10TR2.
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Technical Report on Temperatures for API Cement Operating Thickening Time Tests—Russian
Russian translation of TR 10TR3.
1st Edition | May 1999 | Reaffirmed: May 2005
Product Number: G10TR3R | Price: $171.00

TR 10TR4
Selection of Centralizers for Primary Cementing Operations—Russian
Russian translation of TR 10TR4.
1st Edition | May 2008 | Product Number: G10TR40R | Price: $67.00

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Specification for Subsurface Sucker Rod Pump Assemblies, Components, and Fittings—Russian
(includes Addendum 1 dated May 2019)
Russian translation of Spec 11AX.

Spec 11B
Specification for Sucker Rods, Polished Rods and Liners, Couplings, Sinker Bars, Polished Rod Clamps, Stuffing Boxes, and Pumping Tees—Russian
(includes Errata 1 dated October 2010 and Errata 2 dated February 2011)
Russian translation of Spec 11B.
27th Edition | May 2010 | Reaffirmed: January 2019
Product Number: G11B27R | Price: $168.00

Spec 11E
Specification for Pumping Units—Russian
(includes Errata 1 dated August 2015 and Addendum 1 dated April 2018)
Russian translation of Spec 11E.
19th Edition | November 2013
Product Number: G11E019R | Price: $184.00

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Recommended Practice for Electric Submersible Pump Testing—Russian
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**Std 611**
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**Std 614/ISO 10438-1:2007**
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**Std 618**
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(ANSI/API Std 618)
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Russian translation of Std 618.
5th Edition | December 2007 | Reaffirmed: July 2017
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**Std 619/ISO 10440-1:2007**
Rotary-Type Positive Displacement Compressors for Petroleum, Petrochemical and Natural Gas Industries—Russian
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Product Number: CX61905R | Price: $234.00

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Shell-and-Tube Heat Exchangers—Russian
(includes Addendum 1 dated August 2020)
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Product Number: C66009R | Price: $201.00

**Std 661**
Petroleum, Petrochemical, and Natural Gas Industries—Air-Cooled Heat Exchangers for General Refinery Service—Russian
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Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry—Spanish
Spanish translation of Q1.
9th Edition | June 2013
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**Chapter 1**
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Spanish translation of Ch. 1.
2nd Edition | July 1994
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Spanish translation of Ch. 3.1A.
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1st Edition | August 1995 | Reaffirmed: May 2013
Product Number: H03021S | Price: $105.00

Chapter 3.3
Standard Practice for Level Measurement of Liquid Hydrocarbons in Stationary Pressurized Storage Tanks by Automatic Tank Gauging—Spanish
Spanish translation of Ch. 3.3.
1st Edition | June 1996 | Reaffirmed: March 2017
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Standard Practice for Level Measurement of Liquid Hydrocarbons on Marine Vessels by Automatic Tank Gauging—Spanish
Spanish translation of Ch. 3.4.
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1st Edition | February 2006 | Reaffirmed: January 2021
Product Number: GX7101SP | Price: $176.00

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Chapter 8.5
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