

Hydrocarbon management

HM 32

Guide to hydrocarbon management at petroleum
product marketing and distribution terminals

3rd edition

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GUIDE TO HYDROCARBON MANAGEMENT AT PETROLEUM PRODUCT
MARKETING AND DISTRIBUTION TERMINALS

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CONTENTS

	Page
Foreword	10
Acknowledgements	11
1 Introduction and scope	12
2 Health and safety and regulatory compliance	13
2.1 General	13
2.2 Training	13
2.3 First aid	13
2.4 Site emergency plan	14
2.5 Inhalation of vapour and mist	14
2.6 Level measurement and sampling	15
2.6.1 Tanks	15
2.6.2 Road and rail tankers	16
2.6.3 Marine operations	17
2.6.4 Smoking	17
3 Liquid level measurement	18
3.1 General	18
3.2 Level measurement methods	18
3.2.1 Introduction	18
3.2.2 Manual gauging	21
3.2.3 Automatic level gauges	22
3.3 Tank reference height	24
3.4 Measurement of free water	25
3.4.1 Measuring the oil-water interface level	26
3.5 Effect of tank design and condition on gauging accuracy	27
4 Temperature measurement	28
4.1 Introduction	28
4.2 Factors affecting temperature measurement	28
4.3 Temperature measuring instruments	29
4.3.1 Electronic thermometers	29
4.3.2 Accuracy of temperature measurement	30
4.3.3 Conventional (non-electronic) equipment	31
4.4 Verification of thermometer accuracy	31
4.4.1 Electronic thermometers	31
4.4.2 Conventional liquid-in-glass thermometers	33
4.5 Volume-weighted average temperatures	33
4.6 Frequency of level and temperature measurements of tank contents	34
4.7 Procedure for the manual measurement of temperature in tanks	34
4.7.1 Using a portable electronic tank thermometer	34
4.7.2 Sample-based temperature methods	36
4.8 Temperature measurement specific to marine	36
4.8.1 General	36
4.8.2 Precautions when measuring temperatures of vessel cargoes	36

Contents continued

	Page
5 Density measurement	37
5.1 Introduction	37
5.2 Significance of density	37
5.2.1 Obtaining volume correction factors	37
5.2.2 Obtaining mass or weight from volume measurements	38
5.2.3 Density as a quality control factor	38
5.3 Density measuring instruments	38
5.3.1 Digital density meters	38
5.3.2 Glass hydrometers	39
5.4 Test temperature	39
5.4.1 General	39
5.4.2 Laboratory oscillating U-tube density meter	39
5.4.3 Hydrometer method	40
6 Sampling	41
6.1 Introduction	41
6.2 Equipment	41
6.2.1 Manual sampling equipment	41
6.2.2 In-line sampling	43
6.2.3 Sample handling and storage	43
6.3 Sampling from vertical tanks	44
6.3.1 General	44
6.3.2 All-levels samples, and running samples	45
6.3.3 Bottom sampling	45
6.3.4 Composite sample	45
6.4 Horizontal tanks, road tankers and railcars	46
6.5 Vessels' tanks	46
6.6 Causes of error in sampling	47
7 Storage tanks and pipelines	48
7.1 Tankage	48
7.1.1 General	48
7.1.2 Fixed roof tanks	48
7.1.3 Floating-roof tanks	48
7.1.4 Horizontal cylindrical tanks	49
7.2 Tank calibration	49
7.3 Operational considerations	50
7.4 Water draining	50
7.5 Accounting considerations	51
7.6 Special case – storage cavern	51
7.7 Terminal pipelines	51
7.8 Effects of measurement uncertainty on the loss accounting balance	52
7.9 Control of physical loss from tankage	52
7.9.1 Physical loss	52
7.9.2 Evaporation	52
7.9.3 Water draining	54
7.9.4 Leakage	55
7.9.5 Other sources of loss	55

Contents continued

	Page
8 Metered receipts and outputs	56
8.1 General	56
8.2 Types of meter	56
8.2.1 Displacement (PD) meters	56
8.2.2 Turbine meters	57
8.2.3 Coriolis meters	58
8.2.4 Ultrasonic meters	58
8.3 Selection of meters	59
8.4 Performance requirements	59
8.4.1 Meter accuracy	59
8.4.2 Meter proving and performance requirements	60
8.4.3 Linearity factor	60
8.4.4 Meter body temperature correction	61
8.4.5 Meter monitoring	61
8.5 Loading rack meters	61
8.6 Proving of meters	61
8.6.1 Frequency of proving	61
8.7 Proving equipment and systems	62
8.7.1 General	62
8.7.2 Proving conditions	63
8.7.3 Guidance on proving	63
8.8 Pressure correction	63
9 Weighed receipts and outputs	65
9.1 General	65
9.2 Types of weighbridge	65
9.2.1 Mechanical weighbridges	65
9.2.2 Electronic load-cell weighbridges	66
9.3 Indicating equipment	66
9.4 Accuracy	66
9.5 Proving	67
9.6 Weighing operations	67
9.6.1 General	67
9.6.2 Road tankers – manual weighing	68
9.6.3 Road vehicles – automatic procedure	68
9.6.4 Railcars	69
9.7 Conversion of weight-in-air to mass	69
9.8 Weighing LPG	71
10 Pipeline receipts and outputs	72
10.1 General principles	72
10.2 Pipeline receipts	72
10.2.1 Operations prior to receipt	72
10.2.2 Operations during receipt	73
10.2.3 Operations after receipt	73
10.2.4 Calculation of receipt loss	74
10.3 Pipeline outputs	74
10.3.1 Operations prior to output	74
10.3.2 Operations during output	74

Contents continued

	Page
10.3.3 Operations after output	74
10.3.4 Calculation of output loss	74
10.4 Interfaces/buffers/slops	75
10.5 Loss monitoring.	75
11 Rail receipts and outputs	76
11.1 General principles	76
11.2 Rail receipts.	76
11.2.1 Operations prior to receipt.	76
11.2.2 Operations during receipt.	77
11.2.3 Operations after receipt	77
11.2.4 Calculation of receipt (transit) loss	77
11.3 Rail outputs.	77
12 Road receipts and outputs.	78
12.1 General principles	78
12.2 Road outputs.	78
12.3 Road receipts.	78
12.3.1 General	78
12.3.2 Operations prior to receipt	78
12.3.3 Operations during receipt.	79
12.3.4 Operations after receipt	79
12.3.5 Calculation of receipt (transit) loss	80
13 Marine receipts and outputs	81
13.1 Introduction	81
13.1.1 General	81
13.1.2 Appointment of cargo inspectors	82
13.1.3 Use of vessel's cargo measurement figures.	82
13.1.4 Letters of protest and statements of fact	82
13.1.5 Pipeline fill	83
13.2 Vessel discharge (outturn)	83
13.2.1 Before discharge	83
13.2.2 During discharge	84
13.2.3 After discharge	85
13.3 Shore tank receipts	85
13.3.1 Before shore receipt.	85
13.3.2 During shore receipt.	86
13.3.3 After completion of shore receipt.	87
13.3.4 Calculation of receipt (outturn) loss/gain	87
13.4 Vessel loading	87
13.4.1 Shore operations	87
13.4.2 Onboard prior to loading	88
13.4.3 Onboard during loading.	89
13.4.4 Onboard on completion of loading	89
13.4.5 Calculations on completion of loading	91
13.5 Reconciliation procedures for receipts	91

Contents continued

	Page
14 Third party storage and throughputting	92
14.1 Introduction	92
14.1.1 Independent inspection	92
14.1.2 Audits rights	92
14.1.3 Commingled stock	92
15 Hydrocarbon management – monitoring and objectives	93
15.1 Introduction	93
15.2 Background.	93
15.3 Standard temperature accounting	94
15.3.1 Introduction	94
15.3.2 Application of correction factors	94
15.4 Sources of loss.	96
15.4.1 Loss/gain due to measurement error	96
15.4.2 Physical loss	97
15.4.3 Product mis-routing 'losses'	98
15.5 Impact of error	98
15.5.1 Random error.	98
15.5.2 Systematic bias error	98
15.5.3 Spurious error	99
15.6 Loss/gain percentage divisors.	99
15.7 Objectives – bulk oil operations	99
15.7.1 Scope and methods	99
15.7.2 Choice of method	100
15.7.3 Loss tolerance vs. time	100
15.8 Objectives – packed product operations.	101
15.9 Vapour recovery	101
15.10 Supplementary monitoring techniques.	101
15.11 Monitoring – summary	103
16 Settlement of disputes.	105
16.1 General principles	105
16.1.1 Quantity disputes	105
16.1.2 Loss trigger levels	105
16.1.3 Quality disputes	106
16.2 Data required for dispute settlement	106
16.2.1 Disputes involving vessel or barge transfer quantities	106
16.2.2 Disputes concerning inventory or throughput losses	107
16.2.3 Disputes concerning product quality issues.	107
16.3 Data analysis	107
16.4 Resolution of disputes	108
17 Hydrocarbon management practices for product distribution pipelines.	109
17.1 General.	109
17.2 Physical measurement	109
17.3 Measurement of observed volumes	109
17.4 Meter factor generation – proving sequence	110

Contents continued

	Page
17.5 Temperature measurement	110
17.6 Density measurement	111
17.7 Monitoring of pipeline balance	111
18 Control charts for monitoring performance.	113
18.1 Control charts	113
18.1.1 Construction of control charts	113
18.1.2 Use of control charts	113
 Annexes	
Annex A Procedures for making allowance for pipeline contents during a product transfer.	116
A.1 Introduction	116
A.2 Effect of line contents on a receipt calculation	116
A.2.1 Problem	116
A.2.2 Evaluation.	116
A.2.3 Conclusions from the example	117
A.3 Operational procedures	118
A.3.1 Line pigging	118
A.3.2 Internal circulation of shore lines.	118
A.3.3 Line displacement between vessel and shore.	118
A.3.4 High-point valve and sight glass method.	119
A.3.5 Line pressing.	119
 Annex B Examples of industry loss control levels.	120
B.1 Introduction	120
B.2 Transit losses	120
B.3 Working losses.	120
B.3.1 Monthly basis	120
B.3.2 Annual basis	121
 Annex C References.	122
C.1 References	122
C.2 Bibliography.	125
 Annex D Abbreviations and acronyms.	126

List of Figures and Tables

	Page
Figures	
Figure 1	Dipping and ullaging (using dip weight and tape method) 20
Figure 2	Vapour lock valve and schematic (images supplied by UK Sampling Gauges Ltd.) 42
Figure 3	Relationship between analysis period and percentage tolerance. 101
Figure 4	Shewart control chart 114
Figure 5	Moving average chart 114
Figure 6	Reconciliation chart 115
Tables	
Table 1	Effect of change in temperature on the density of petroleum products 28
Table 2	Minimum number of temperature measurement locations for various depths of product 35
Table 3	Sampling scheme for horizontal tanks, road tankers and railcars 46
Table 4	Weight-in-air – mass conversion 70
Table 5	Pipeline temperaure effect. 117

FOREWORD

The Hydrocarbon Management Committee (HMC) of the Energy Institute (EI) is responsible for the production and maintenance of documents covering the various aspects of hydrocarbon management.

Membership of the HMC is made up of representatives from oil companies, equipment manufacturers, cargo inspectors, technical development organisations, Her Majesty's Revenue and Customs (HMRC), National Weights and Measures Laboratory, regulatory authorities and independent consultants. Liaison is maintained with parallel working groups and committees of the American Petroleum Institute (API), and is extended where appropriate to embrace other organisations in other countries concerned with hydrocarbon management.

HM 32. *Guide to hydrocarbon management at petroleum product marketing and distribution terminals* is recommended for general adoption, but should be read and interpreted in conjunction with weights and measures, safety, and other regulations in force in the particular country in which it is to be applied. Such regulatory requirements shall have precedence over corresponding clauses in the guide, except where the requirements of the guide are more rigorous, when its use is recommended. The Energy Institute disclaims responsibility for any personal injury or loss or damage to property, howsoever caused, arising from the use or abuse of any part or section of the *Guide to hydrocarbon management at petroleum product marketing and distribution terminals*.

A number of other guidelines and standards published by the Energy Institute, the American Petroleum Institute, International Standards Organization (ISO) and other guidance and standards development organisations are called up in this guide and a list is given in Annex C. Users should ensure that the latest editions of these documents are used.

From 2004 all IP Petroleum Measurement Manual Parts and IP Petroleum Measurement Papers have been renumbered as EI Hydrocarbon Management guides.

In line with EI policy the comma is used as the decimal marker.

Users are invited to send comments or details of experience with the use of this document to:

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1 INTRODUCTION AND SCOPE

The control of oil loss, both real and apparent, is a critical objective in the management of petroleum product terminals. This document provides advice on operational and procedural measures for the control of both apparent loss (i.e. that caused by measurement errors and incorrect or inadequate accounting procedures), and physical loss at petroleum storage installations, including airports, where product is received, stored, and despatched by pipeline, sea, road or rail systems. It excludes the storage and handling of crude oil.

Guidelines and information are provided for management, supervisors and operators, to enable them to acquire a sound understanding of the fundamental factors involved in oil measurement and the significance of each factor in the achievement of accurate measurement.

The contents are presented in relatively uncomplicated terms, yet in sufficient detail to obviate the need to resort to separate reference books on each subject to obtain a general understanding. Specialist works are listed, which should be consulted where in-depth information is needed.

The document offers operational procedures for each mode of product receipt and dispatch that, if observed, can result in accurate measurement and effective loss control. In addition, it provides detailed guidance on stock control and loss monitoring procedures at storage installations, and advice on the settlement of measurement disputes that may arise in product transfer and storage operations.