ISSN 1008-2263 CN 11-3945/TE

OIL DEPOT AND GAS STATION



SHIYOUKU YU JIAYOUZHAN

ONE COMPANY. ONE WORLD. ONE SOURCE."



油站安全环保设备专家







www.opwglobal.com.cn

ISSN 1008-2263



中国石化销售有限公司主办

2015 第 1 期

总第137期 Vol.24 Total No.137

万方数据



石油库的办证结

SHI YOU KU YU JIA YOU ZHAN

1992 年创刊(双月刊) 第 24 卷 第 1 期 总第 137 期 2015 年 2 月 20 日出版

编委会名誉主任:李春光 张海潮编委会主任:左兴凯

副主任:郭飞鸿 王文联 王维民 王 靓

特邀顾问: 吕 品 柴志明

委员:

副社长:郭飞鸿 王文联

主编:王维民 副主编:金万刚 责任编辑:张 玉

主管:中国石油化工集团公司 主办:中国石化销售有限公司 编辑出版:《石油库与加油站》杂志社 国内发行:《石油库与加油站》杂志社 地址:北京市东城区广渠家园6号楼 303室

邮编:100022

电话:(010)67006041;67006042

传真:(010)67006043

E - mail;sykjyz@ vip. sina. com 国外发行:中国图书进出口总公司 国外发行代号;2263BM

印刷:廊坊飞腾印刷包装有限公司 厂址:廊坊市安次区永华道25号 邮编:065000

标准连续出版物号: SSN 1008 - 2263 CN 11 - 3945/TE

广告许可证号:京东工商广字第8033号 国内定价:每册12元,全年72元

本刊对所兼图文拥有 版权,未经允许,不得转载 或复制,本刊保留通话的 权利。

部分)

目 次

储	省运技术	
1	加油站埋地双层罐液媒监测系统的应用前景	••••
	王银峰 李晓鹏 尹	强
5	光纤高液位报警器应用中的问题分析及技术改进 郑	纳娜
加气站		
8	液化天然气(LNG)加气站的加注安全措施和管理 邓	万全
油气管道		
11	俄罗斯成品油管道技术标准的先进性研究 赵	磊
安全技术		
15	大型车辆加油过程静电危险因素的分析及试验研究	• • • •
	······李义鹏 盂 鹤 孙立富 张·	云朋
安全管理		
18	加油站油罐清洗中的注意事项 陈	小秋
21	加油站卸油的防溢措施 胡	安华
24	中国石化广东石油仓储分公司安全教育培训的经验 刘	文雄
27	/ 岸基加油站安全管理问题的探讨 茅	兴智
数质量管理		
29	车用汽柴油胶质及其含量测定方法简析 王	海燕
32	长距离管输成品油的质量分析及控制 刘	智
经营管理		
36	建设工程的质量控制与方法 史	文波
39	加油站投资成本全过程控制的措施 张	龙
42	油库工程建设中的常见问题及对策措施 任	周
报道及其他		
[F	后插 1] 《石油库与加油站》杂志投稿须知	
4	2015 年第1期广告目次	
7	《石油库与加油站》杂志 2014 年度合订本征订启事	
17	7 我国石油产量连续 5 年突破 5 亿 t	
35	今年国内外油气供需宽松,价格下行	
44	中国石油化工集团公司 2014 年度安全生产先进光荣榜(销售会	企业



OIL DEPOT AND GAS STATION

Bimonthly, Started Publication in 1992 Vol. 24, No. 1 No. 137 totally Feb 20, 2015

Honorary Chairman of Editorial Committee: Li Chunguang, Zhang Haichao

Chairman of Editorial Committee: Zuo Xingkai Vice Chairman of Editorial Committee: Guo Feihong, Wang Wenlian, Wang Weimin, Wang Liang Special Consultamts: Lu Pin, Chai Zhiming Members: Zhang Xiulai, Wang Hongchuan, Xu Fubin, Zhang ziao, Feng Peiyu, Li Yuxing, Rui Jiqiang, Chen Biwen, Yin Chaoming, Ren Shixian, Du Yubin, Yang Jiming, Huang He, Li Yiqing, Zheng Jinghua, Jia Yuepeng, Luo Kaiyong, Yan Hua, Huang bingli, Liu Xiangbin, Zhang Tianming, Luo Tonghua, Niu Jingmin, Wang Jinpei, Han Qingyue, Liu Huabin, Wang Min, Han Jie, Xia Fengwu, Wang An, Dai Fujun, Zhou Xuehong, Xu Jiangqiao, Liu Sheng, He Ming, Zhang Yi, Bu Wenping, Gao Jinsong, Du Daolin, Shen Qingqi, Du Hongyan, Zhou Jiaxiang, Han Jun, Jin Wangang

Director: Zuo Xingkai

Vice Director: Guo Feihong, Wang Wenlian

Editor-in-Chief: Wang Weimin Vice Editor-in-Chief: Jin Wangang

Editor in Change 7h V.

Editor-in-Charge: Zhang Yu

Responsible Department: China Petrochemical Corporation (SINOPEC)

Sponsor: SINOPEC Sales Company

Publisher: Editorial Office of Oil Depots and Oil

Stations

Distributor (**Domestic**): Editorial Office of Oil Depots and Oil Stations

Address: Building No. 6, Guangqujiayuan, Dongcheng

District, Beijing **Postcode**: 100022

Tel: (010) 67006041; 67006042

Fax: (010) 67006043 E-mail: sykjyz@ vip. sina. com

Distributor (Abroad): China National Publica-

tion Import &Export Corporation

Printer: Fei Teng Printing Co. Ltd of Langfang Address: No. 25, Yonghua Dao Ave Langfang

Postcode: 065000

ISSN 1008-2263; CN11-3945/TE

No. of Ad. License: 8033, Dongcheng District,

Beijing

Domestic Price: RMB72 per year

Copyright gor all originally published reports.

STORAGE TECHNOLOGIES

1 Application Prospect of Liquid Monitoring System for Underground Double - Layer Tank in Gas Station. Wang Yinfeng, Li Xiaopeng, Yin Qiang.

Contents and Abstracts

Abstract: The basic types, principle and characteristics of leak detection systems for underground oil tank in gas station are introduced, and the technical characteristics and application status of liquid monitoring system are illustrated. With the enhancing of people's awareness of environmental protection and the popularizing of double FRP (fiberglass – reinforced plastics) tank, the liquid monitoring system will have broad application prospects in oil tank leak detection of gas station in the future.

Keywords: gas station, double - layer tank, environmental protection, liquid monitoring system.

5 Analysis on Application of Optical Fiber Level Alarm and Technology Improvement. Zheng Nana.

Abstract: The classification and the advantages and disadvantages of level alarm were briefly introduced, and the structure and working principle of the direct type optical fiber level alarm were illustrated. Aiming at the present situation of adopting direct type optical fiber level alarm on light oil loading crane tube in the SINOPEC Luoyang Petrochemical Company and the existed problems of poor corrosion resistance, fragile fiber, the detailed reasons were analyzed, improvement measures were put forward, and the self – detection and other new functions were added, which could improve the safety and reliability, reduce the failure rate and the staff workload.

Keywords: optical fiber, level alarm, probe, technique, measures.

GAS REFUELING STATION

8 Discussion on Safety of Loading Operation in Liquefied Natural Gas (LNG) Refueling Station. Deng Wanguan.

Abstract: The properties of liquefied natural gas, safety protection measures for loading equipment of gas refueling station are briefly introduced. The matters needing attention about loading operation in the gas refueling station, and the general management principles of emergency disposal are described.

Keywords: liquefied natural gas, gas refueling station, safety management.

OIL AND GAS PIPELINE

11 Study on Russian Technical Standards for Oil Product Pipeline. Zhao Lei.

Abstract: The technical standards of oil product pipeline operation in Russia and China are briefly introduced. Through the study on the comprehensive standards of product oil pipeline in Russia, it was discovered that the advanced nature of the standards was mainly reflected in the following aspects: sequential transportation principle for various oil products, mixed oil volume calculation on varying pipeline diameter, the control on mixed oil of initial process, cutting concentration control of the wide range of mixed oil, quantitative calculation of mixed oil blending, and frequency of oil quality detection. In order to improve the operation management level of oil product pipeline in China, the suggestion of pipeline operation and management was put forward according to the Russian standards.

Keywords: oil product pipeline, technical standard, advanced nature, suggestions.

SAFETY TECHNOLOGY

15 Analysis on Electrostatic Risk Factors of Large Vehicle Refueling Process. Li Yipeng, Meng He, Sun Lifu, Zhang Yunpeng.

Abstract: Because in the large vehicle refueling process, the fuel amount is large, once electrostatic discharge occurred, the consequences are very serious. In view of some links of large scale vehicle refueling process, experimental research was carried out. First, a set of simulation test system similar to

large vehicle refueling situation was established, and then the oil tank charge amount, electrostatic potential of oil tank, electrostatic potential of the isolated conductor parameters were detected, among which metal anti – theft net with plastic frame was used as an isolated conductor. The comparison of the test data and test results showed that, when isolated conductors existed in the large vehicle tank pipeline, in case of insulation between tank and ground, the electrostatic potential of isolated conductor and the oil tank may reach 5. 8 kV, with a great probability of electrostatic discharge and electrostatic accident.

Keywords: large vehicle refueling, electrostatic, isolated conductor, electrostatic potential, charge density.

SAFETY MANAGEMENT

18 The Matters Needing Attention in Oil Tank Cleaning Operation in Gas Station. Chen Xiaoqiu.

Abstract: The current situation of oil tank cleaning operation in gas stations and the safety precautions are briefly introduced, and the safety measures that should be adopted in the oil tank cleaning operation are presented in order to avoid production accidents.

Keywords: gas station, oil tank cleaning, security analysis, measures.

21 Investigation on Overflow Preventing Measures for Oil Unloading Operation in Gas Station. Hu Anhua. Abstract: Starting from the current practical problems existed in oil unloading operation in gas stations, the harmfulness of oil overflow and preventing measures in oil unloading operation are expounded, focusing on the analysis of the effect of liquid level instrument, high level alarm, and anti – overflow valve on overflow prevention in gas station.

Keywords: gas station, oil overflow, hazard, measures

24 The Safety Education and Training Experience of the SINOPEC Guangdong Oil Storage Company. Liu Wenxiong.

Abstract: This paper introduces safety education and training experience of the SINOPEC Guangdong Oil Storage Company, such as establishing safety education base through increased investment; compi-

ling teaching materials to specify safety education content; innovating and enriching safety education mode and seizing the key to improve the effectiveness of safety education.

Keywords: oil depots, safety education, experience.

27 Discussion on Safety Management Issues of ShoreBase Gas Station. Mao Xingzhi

Abstract: Because the shore – base gas station combines the characteristics of refueling ship, land – base gas station and small oil depot, there is certain particularity in its security management. Taking a shore – base gas station G in Suzhou city as an example, the existing problems in the daily safety management are pointed out, and the corresponding improvement measures and recommendations are put forward.

Keywords: shore – base gas station, safety management, measures.

QUANTITY AND QUALITY MANAGEMENT

29 Analysis on Determination Method of Gum Content in Gasoline According to the National Standard GB/T 8019—2008. Wang Haiyan.

Abstract: According to the national standard GB/T 8019—2008, the common – used determination method of gum content in gasoline is illustrated in detail from the aspects of the concept, the determination process, and matters needing attention in the determination process, which provides reference for others.

Keywords: gasoline, existent gum, solvent washed gum, unwashed gum.

32 Quality Analysis and Control for Long Distance Oil Products Pipeline. Liu Zhi.

Abstract: The sequential oil transporting method is usually adopted in long distance oil products pipeline, which can inevitably produce mixed oil with an impact on the quality of oil product. Through the analysis of factors influencing the amount of oil mixture and the oil quality index, the measures to reduce oil mixture amount and blending method of mixed oils were discussed.

Keywords: oil products pipeline transportation, se-

quential transportation; quality influence; quality control.

OPERATION MANAGEMENT

36 Quality Control Method of Construction Project. Shi Wenbo.

Abstract: Based on the basic theory of quality control of the construction project, the key points of quality control of the construction project are analyzed, and the role and responsibilities of the construction units in the project quality management are pointed out.

Keywords: construction project, quality control, management.

39 The Whole - Process Control Measures of Investment on Gas Station. Zhang Long.

Abstract: The investment on gas station was analyzed from the aspects of decision – making, prophase demonstration, design, construction, post evaluation, and others, respectively. It is pointed out that the reasonable location is the primary task of investment cost control, the prophase demonstration is the foundation of investment cost control, the design phase is the leading of investment cost control, and the construction cost control and the cost control measures of each link are the key of investment cost control.

Keywords: gas station, investment, cost control, measures.

42 Common Problems in Construction of Oil Depot and Countermeasures. Ren Zhou.

Abstract: In order to ensure the quality and safety of oil depot construction, according to the problems often met in oil depot construction, such as insufficient project preparation, lax selection of the construction team, construction management loopholes, schedule lag, and the uneven quality, the reasons were analyzed, and the countermeasures were proposed from the aspects of prophase preparation, bidding and purchase, and process management, providing reference for the construction and management of oil depot project.

Keywords: oil depot, project construction, problems, countermeasures.



加油站复合管专业服务商

北京市优捷特石油设备科技有限公司

大事记

- NUPIGECO中国区域总代理
- 在全国拥有二十余家二级代理服务商
- 2014年入围中石化复合管道系统供应商名单
- 2014年全国范围安装NUPI复合管道加油站1100余座
- 2014年成功大范围应用于加油站油气回收改造项目









- 意大利NUPIGECO公司是专业复合管制造商
- 年销售复合管25000km
- 符合EN14125、UL971及GB50156标准
- 设立权威独立第三方实验室
- 真双层系统,多点渗漏检测系统
- 全球联保30年,知名保险公司ACE承保











地 址:北京市朝阳区东四环北路6号1号楼1-1602

服务热线: 010-56295527

标准连续出版物号:

网 址: www.youjiete.com

ISSN1008-2263 CN11-3945/TE

广告许可证号:京东工商广字第8033号

定价: 12.00元 全年: 72.00元