石油库与加油站

SHI YOU KU YU JIA YOU ZHAN

1992年创刊(双月刊)
第19卷 第3期
总第109期
2010年6月20日出版

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
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国外发行:中国图书进出口总公司
国外发行代号:2263BM
印刷:廊坊市光达胶印厂
厂址:廊坊市光明东道4号
邮编:065000
标准连续出版物号:ISSN 1008-2263 CN 11-3945/TE
广告许可证号:京朝工商广字第0135号
国内定价:每册10元,全年60元

目 次

OIL DEPOT AND GAS STATION

Bimonthly, Started Publication in 1992
Vol. 19, No. 3
No. 109 totally
Jun 20, 2010

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. 12, Jinganli, Chaoyang District, Beijing
Postcode: 100028
Tel: (010) 64618538 **Fax:** (010) 64668601
E-mail: sykjyz@sina.com
Distributor (Abroad): China National Publication Import &Export Corporation
Printer: Guang Da Printing Plant of Langfang
Address: No. 4, Guangming Dongdao Ave Langfang
Postcode: 065000
ISSN 1008—2263
CN11—3945/TE
No. of Ad. License: 0135, Chaoyang District, Beijing
Domestic Price: RMB60 per year

Contents and Abstracts

Abstract: The risks faced by the domestic petroleum and petrochemical enterprises were analyzed comprehensively from four aspects: firstly, the international political risk shows rising trend; secondly, the risk in the international oil market increases; thirdly, the environmental risk caused by climate changes is rising; and the fourth, the operating risk of petroleum and petrochemical enterprises is also rising. It was proposed that the improvement of risk control ability of petroleum and petrochemical enterprises could be considered from the aspects of governance structure, strengthening risk consciousness, perfecting organizing system and warning system.

Keyword: petroleum and petrochemical enterprise, risk, risk control ability.

Abstract: It is suggested that under the premise of following the government's program, according to the cost optimal principle, the location of distributing oil depot attached to oil product pipeline should be optimized using mathematic model based on measuring latitude and longitude of gas station. Taking a discharge oil depot which is planned to be constructed as an example, the application of the model and benefit prediction is carried out.

Keyword: oil product pipeline, discharge oil depot, location, oil product redistribution, benefit.

SAFETY MANAGEMENT

7. Strengthen Responsibility, Consolidate Basis, Strive to Improve Equipment Management Level. SINOPEC Fujian Oil Products Company.

Keyword: oil products company, fundamental work, equipment management.

9. Implementing "Three – Card – One – Table" Management to Improve HSE System Operation. Huang Biansheng, Huang Zhizhou.

Abstract: The problems existing in practicing HSE system were pointed out. The corresponding measures were presented by No.. 7101 Oil Depot of PetroChina Sichuan Dazhou Sales Company that "three – card – one – table" management was implemented on oil depot operation site, including using post management card to normalize staff' s operation, using risk management card to reduce post hazard factors, using emergency handle card to improve staff emergency handling ability, and using inspection table to guarantee HSE system implementation.

Keyword: oil depot, HSE system, three – card – one – table.

12. Analysis on the Features of Oil Stealing Crime by Drilling Hole on Pipeline and Discussion on the Prevention Measures. Chen Zhenyou.

Abstract: Based on the analysis on the features of oil stealing crime by drilling hole on pipeline, combining working experience, the measures were proposed to reinforce prevention inside enterprise and to cooperate with the public security departments to increase the striking force on the oil stealing crime, and establish long – term administrative and control mechanism.

Keyword: oil transportation pipeline, oil stealing by drilling hole, prevention measure.

QUANTITY AND QUALITY MANAGEMENT

15. Study on the Accuracy Variation Between Rapid Detecting Method and Tradition Method for Gasoline Octane Number. Yan Delin.

Abstract: Starting from the contradiction of high speed and accuracy in the course of oil product quality detection, the advantages and disadvantages of rapid detecting method (referring to mid – infrared gasoline analyzer) and tradition method (referring to octane machine) for gasoline octane number were analyzed. Based on the data of two detecting methods accumulated in the practice, comparing the gasoline octane numbers measured by the two methods, using statistical software for analysis, the accuracy of rapid detecting method was evaluated, the factors influencing variation were found and analyzed, which showed the difference between rapid detecting method and tradition method for gasoline octane number was indistinctive, and the accuracy of rapid detecting method could meet the service requirement.

Keyword: octane number, detecting method, tradition method, accuracy, variation.

20. The Application of Oil Loss Management System Based on V_{20} Platform in Gas Station. Zhou Mingde, Zhu Yunlong, Cai Yuzong.

Abstract: The contradictions and problems existing in the oil loss management of gas station at present were analyzed. The ideas and measures were proposed that when being purchased, sold, and stored, the oil volume should be converted to the volume at 20℃ to manage and account the oil loss. The practice and exploration of an enterprise to apply information method, strengthen quantity base management, establish the system of supervision, analysis and examination during the implementation

of V_{20} examination and management was introduced.

Keyword: gas station, V_{20} platform, oil loss, quantity management.

24. The Application of Water Removing Filter Core Tailored for Gas Station. Li Chunming, Qian Jianyue.

Abstract: The performance of water removing filter core was introduced. The water removing performance when refueling was tested in laboratory, and based upon this, the application test was carried out in gas station and compared with paper filter core. The cost of water removing filter core was analyzed. The significance of applying water removing filter core for the quality management in gas station was pointed out.

Keyword: gas station, water removing filter core, application.

SAFETY TECHNOLOGIES

27. Discussion on Fire Fighting Tactical Measures in Gas Station. Fan Maokui, Fan Hongjun.

Abstract: Starting from the status of fire disaster in domestic gas station, according to fire features and process of gas station, combining the typical fire fighting examples in domestic gas stations and basic fire fighting principle, the fire fighting tactical measures in gas station were described.

Keyword: gas station fire disaster, fire fighting, tactical measure.

30. Discussion on Safety Status of Buried Tank in Gas Station. Zhou Xuhui.

Abstract: Combining the management of buried tank in gas station abroad, the safety status and safety supervision of buried tank in domestic gas station was discussed from the aspects of design standard, structural form, design points, manufacture and inspection, and leakage prevention measures.

Keyword: gas station, buried tank, double wall tank, safety management.

STORAGE TECHNOLOGIES

35. Discussion on Evaluation Method for Energy Consumption of Oil Product Pipeline. Shi Yanwei.

Abstract: The energy consumption of pipeline operation is evaluated by comprehensive oil transportation energy consumption (kWh/104t·km) at present. However, due to the various diameters and different geographic environment of pipelines, the index could not indicate the energy consumption status of pipeline operation objectively and completely in the practical operation. The current energy consumption of oil product pipelines under SINOPEC was analyzed briefly, the reasons causing different electricity consumption was explained, and a novel energy consumption evaluation method was explored.

Keyword: oil product pipeline, energy consumption, evaluation method.

40. Application of Horizontal Directional Driller in the Project of Large Diameter Pipeline Crossing Shuiyangjiang River. Li Xiaoye, Li Shulei.

Abstract: Using the relevant theory of directional crossing, the basic parameters was determined, and combining the complex geological condition of long – distance large diameter pipeline crossing Shuiyangjiang River, the quantitative value of critical crossing parameters were obtained. Based on the calculation, analysis and research on the critical parameters, the suitable option for the project was determined, which resulted in good application effect.

Keyword: horizontal directional driller, large diameter pipeline, Shuiyangjiang River, crossing project.