

★中国核心期刊 (遴选) 数据库收录期刊
★中国学术期刊综合评价数据库 (CAJCED) 统计源期刊

ISSN 1008-2263
CN 11-3945/TE

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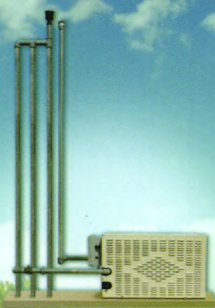


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ISSN 1008-2263



9 771008 226006



中国石化销售有限公司主办

2013 第4期

第22卷 总第128期

Vol.22 Total No.128



石油库与加油站

SHI YOU KU YU JIA YOU ZHAN

1992年创刊(双月刊)

第22卷 第4期

总第128期

2013年8月20日出版

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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:ISSN 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

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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

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Distributor (Abroad): China National Publication Import & Export Corporation

Printer: Fei Teng Printing Co. Ltd of Langfang

Address: No.25, Yonghua Dao Ave Langfang

Postcode: 065000

ISSN 1008—2263; **CN**11—3945/TE

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

Domestic Price: RMB72 per year

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Contents and Abstracts

STORAGE TECHNOLOGIES

1. Development and Application of Oil Vapor Recovery Seals Device for Highway Oil Delivery Top Loading Platform. Cai Zengshan.

Abstract: The oil vapor recovery seals device for top loading platform in highway oil delivery system developed by the SINOPEC Shanghai Oil Products Company and its application are introduced. The R & D background, working principle, and main features of oil vapor recovery seals device for top loading platform in highway oil delivery system are presented, and the cost for equipment revamp and the projected benefit produced from the application of the device are calculated, indicating that it will bring significant economic and social benefits.

Keywords: oil depot, top loading for road tankers, vapor recovery, seals device, research and development, application.

4. Application of Bottom Loading Systems for Highway Fuel Dispatching in Oil Depot Design. Lu Xu.

Abstract: The advantages of bottom loading technology for highway fuel dispatching in oil depot are introduced, such as high flowrate, low energy consumption, high efficiency, safety and environment-friendly production. Combining the experience of oil depot design, the issues about vehicle location, selection of crane position, pipeline pressure relief, pipeline design, process scheme and pipeline venting of bottom loading system for highway fuel dispatching are discussed.

Keywords: oil depot, highway fuel dispatching, bottom loading system, design, application.

OIL AND GAS PIPELINE

8. Implementation of HSE Management in Construction of Shijiazhuang – Taiyuan Pipeline Project. Zhang Xuewen.

Abstract: During the construction of Shijiazhuang – Taiyuan pipeline project by SINOPEC Sales Company under the difficult conditions of complex geological and topographical, topography broken, fragile ecology, and poor social supports, the practice and experience on insisting people – oriented, strict and effective implementation of HSE management system, and achieving good economic and social benefits are described.

Keywords: HSE management, Shijiazhuang – Taiyuan pipeline, implementation.

INFORMATION TECHNOLOGY

11. Analysis on the Role of Integrated Network Management System in IT Operation and Maintenance. Qin Yanbin

Abstract: The construction and application of integrated network management system in Beijing Oil Products Company are described. According to the actual business operation, maintenance and management requirements, the approach of the integrated network management system to combine with operation and maintenance management system, and link with Beijing Oil Products Company Information Department at the daily operation and maintenance is emphatically analyzed, in order to achieve improved management level of information infrastructure.

Keywords: network management; information; operation and maintenance.

15. Disaster Recovery Strategy and Scheme Determination for Data Center. Li Lian.

Abstract: With the increasing of enterprise information degree, the data loss caused by disaster event and economic loss due to business interruption increase gradually, which give the important significance to establishing disaster recovery system for data center. The strategy for establishing disaster recovery system for data center and the determina-

tion of technical scheme are introduced, which provide reference for practical implementation of disaster recovery system for data center.

Keywords: data center, disaster recovery, strategy, scheme.

ENVIRONMENT PROTECTION

19. Suggestions on Transformation of Oil Vapor Recovery System. Xian Aiguo.

Abstract: By summing up the experience of the SINOPEC Beijing Oil Product Company on oil vapor recovery, the key considerations in the renovating construction of oil vapor recovery system are pointed out to strengthen the safety management of the construction. Some suggestions for the renovation of the oil vapor recovery are proposed.

Keywords: oil vapor recovery, air tightness, fluid resistance, suggestion.

22. Discussion on Energy Saving Way for Large Scale Tank of High Pour Point Crude. Zhang Wu, Li Shun.

Abstract: According to high energy consumption for heating the tank of high pour point crude in oil depot of the Dalian Oil Storage And Transportation Company, the energy saving ways are discussed by calculation method. Taking the 10 thousand m³ floating roof tank for Dal high pour point crude as an example which is heated by saturated steam as heat source, the heat needed and steam consumed for natural cooling after oil discharge, storage and transportation are calculated, and then according to the crude discharge and transportation temperature, the natural cooling time, heating time and heat needed for the tank are calculated. The energy saving target could be achieved through adjusting application area of tank heater properly, controlling the pressure of heating steam reasonably and reducing steam consumption.

Keywords: high pour point crude, storage tank, energy saving way, steam pressure, heating time.

QUANTITY AND QUALITY MANAGEMENT

27. Application of HIMS Measurement System in Oil Tanks. Rui Jiqiang.

Abstract: HIMS (Hybrid Inventory Management System) measurement system, commonly referred to as a hybrid measurement system, combined HTG (Hydrostatic Tank Gauging) measuring system for measuring mass directly and high - precision level meter, integrated the advantage of HTG system to measure accurate mass and the advantages of high - precision level meter to accurately measure liquid level, and formed a more powerful measurement system. This system is not only able to measure the exact level, but also able to measure the accurate mass, and played an important role in the process of the measurement and transfer of liquid chemical products currently.

Keywords: tank, HIMS, measurement, application.

32. Discussion on Oil Loss or Profit Rate Assessment after Canceling Temperature Compensation. Feng Yufei, Wang Rui, Li Xiang, Huang Xiaoliang, Zhang Qiong

Abstract: According to the problem how to set oil loss or profit rate specification for oil products sales enterprise after canceling temperature compensation, SINOPEC Shaanxi Oil Products Company, taking the monthly subordinate municipal branches as the calculation cycle, referring to combining method of irrelevant quantity in uncertainty algorithm, investigated the effect of intake temperature and storage temperature on oil loss or profit rate. The results show that the measured data and calculated method is reasonable, which can be used to verify the oil loss and profit after canceling temperature compensation. But when discovering irrational data, the time of field measurement tends to lag behind, which means the horizontal tank data collected instantly is not often representative.

Keywords: warm oil delivery ratio, turnover frequency, temperature and density measurement point, loss or profit rate.

SAFETY MANAGEMENT (HSE ACTIVITIES ESSAY)

35. Thought on Strengthening Safety Education of Oil Depot and Gas Station Staff. Yu Hanghui.

Abstract: Stating from two kind of safety behavior, "I should be safe" and "I want safety", the necessity to enhance employee safety education is analyzed. And from six aspects of human safety psychology, the overall quality, safety behavior, thought disorder, safety oversight, and safety responsibility, the methods and measures of safety education are emphasized in order to achieve intrinsic safety.

Keywords: oil depot, gas station, safety education, intrinsic safety.

38. Four points and Four Aspects about HSE Management in Hunan Oil Products Pipeline Operation. Pan Dingquan.

Abstract: According to the features and operation status of Hunan oil products pipeline, four key points of HSE management in pipeline operation and four aspects of experience in implementation of HSE management are summarized, which provides reference for HSE management of other pipeline operation.

Keywords: oil products pipeline, operation, HSE management, experience.

OPERATION MANAGEMENT

40. Discussion on Part - Time Employment. Wang Wenlian.

Abstract: In order to improve labor productivity, further control total employment, and improve the developing quality and efficiency of enterprises, the part - time employment is explored as a supplementary of the full - time employment. The concept and features of part - time employment are elaborated and compared with full - time employment, and the applicable situation, management, cost estimation, and the problem needing attention of part - time employment are presented.

Keywords: part - time, full - time, employment, management, discussion.