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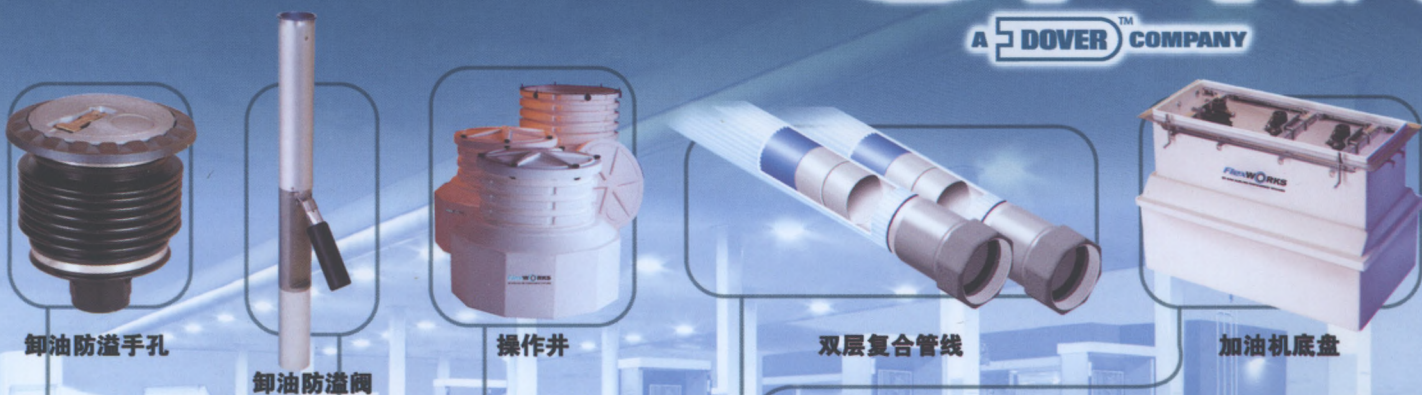
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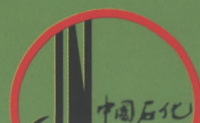
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Contents and Abstracts

STORAGE TECHNOLOGIES

1. The Revamp Program of Common Refueling Gun to Prevent Oil Outburst Accident. Song Xinyong.

Abstract: The situations causing the baffle of common refueling gun not return are analyzed, which could result in oil outburst during next refueling operation, leading to potential accidents in gas station. Based on the deep understanding of the working principle of baffle return of common refueling gun, a revamp option is adopted that a hole is opened on gauntlet and an obstacles screws which length can be adjusted is installed in refueling gun holder, which make the baffle return automatically. By the application, the oil outburst is avoided, which reduce operation cost of the enterprise and eliminate the hidden danger.

Keywords: gas station, refueling gun baffle, automatic return, revamp program.

3. Study on Mobile Jet Pumping Device for Underground Tank. Wang Zhaohui, Shi Yongchun, Qin Yong.

Abstract: The importance of developing mobile jet pumping device for underground tank is stated. Two process flows are designed for different operation modes. According to the general operation requirement, the performance parameter, detailed size, and the model of ancillary mobile pump are determined by calculation.

Keywords: underground tank, jet pump, development.

GAS REFUELING STATION

5. Planning and Construction of LNG Stations in SINOPEC Beijing Oil Product Company. Ni Jin.

Abstract: Combining the whole development status of gas refueling station industry in Beijing

City, based on the analysis of the market environment faced and the market share occupied by SINOPEC Beijing Oil Product Company, the relevant issues, such as types, quantity, scale and layout, involved in the planning of natural gas refueling stations are preliminary explored, which provides theoretical basis for SINOPEC Beijing Oil Product Company to carry out early industry research and development planning studies, to promote the reasonable planning of LNG refueling station and advancing earlier as possible.

Keywords: natural gas, gas refueling station, planning, layout.

SAFETY TECHNOLOGY

9. Discussion on Lightning Protection Design of Refueling Stations. Liao Zhenshu, Xiong Dan.

Abstract: Two important issues involved in lightning protection design of refueling stations, i. e. the classification of lightning protection grade of station building and awnings, and selection of lightning protection measures for awnings, are discussed. The relevant standards and specifications are used and compared, and the inconsistency of these standards and specifications is pointed out. The practicality of routine methods is discussed, and the safety and practicality of the method of adopting double metal plates or single metal plate and ceiling as awning are pointed out. And the revision advice for the relevant standards and specifications is proposed.

Keywords: refueling station, station building, awning, lightning protection, lightning protection belt.

SAFETY MANAGEMENT

12. Discussion on Habitual Illegal Behavior in Gas Station. Xiong Bo.

Abstract: The manifestations of habitual illegal behavior of gas station employees and the formation reasons are introduced, and the measures to correct habitual illegal behavior are highlighted.

Keywords: gas station, habitual illegal behavior, manifestation, reason, measure.

15. The Measures for Hot Work in Oil Depot. Nie Shiquan, Wang Weifeng.

Abstract: Combining the five oil tank fire incidents

caused by hot work happened in recent years, the profound lessons existing in the aspects of program, plan, advance – phrase preparation, and guardianship process management of hot work in oil depot are analyzed. The standardized management ideas for whole process of hot work are discussed, that is, straightening out the hot work procedures is the precondition, perfecting hot work program is the assurance, regulating hot work preparation is the foundation, refining the guardianship process management is the crux, which possesses significance for ensuring the safety of hot work.

Keywords: oil depot, hot work, fire incident, safety management, countermeasure.

19. Discussion on Integrated Prevention and Control System for Unsafe Behavior in Oil Depot. Zhu Jiancheng, Wang Feng.

Abstract: From the aspects of risk prevention and systematic management control, the idea of integrated prevention and control of unsafe behavior in oil depot is proposed. Aiming at the two principal subjects of manages and employees, the integrated prevention and control system for unsafe behavior in oil depot is constructed. For the management and control of employees' unsafe behavior, the problems about three aspects of learning, consciousness and action should be solved; for the managers, the problems about the aspects of safety knowledge management, safety consciousness, work behavior management and performance feedback should be solved; and the detailed prevention and control measures are proposed.

Keywords: oil depot, unsafe behavior, safety management.

QUANTITY AND QUALITY MANAGEMENT

23. Crucial Links Control in the Application of LIMS in Quality Management in Oil Products Sales Enterprise. Zhou Jinguang, Wang Weimin.

Abstract: The Laboratory Information Management System (LIMS) is introduced. The application scope of LIMS is expanded, which makes it suitable for quality management in oil products sales enterprise. The crucial links control and considerations in applying LIMS to establish quality management system in oil products sales enterprise are

pointed out.

Keywords: LIMS, oil products distribution, oil quality management.

25. Analysis on Uncertainty of Measuring Gasoline Distillation Characteristic. Wang Shoucheng.

Abstract: Adopting the methods of type A and B assessment of uncertainty, the measuring process of gasoline distillation characteristic is investigated, and the factors influencing gasoline vaporizing temperatures and the relationship between these factors are found out. The uncertainty of measuring results is analyzed and assessed, and then the uncertainty of measuring gasoline distillation range is determined.

Keywords: gasoline, distillation characteristics, measurement, uncertainty, analysis.

28. Discussion on New Method of Distillation Test. Wang Haiyan, Xiayuanpeng, Cai Huifang.

Abstract: The main changes in new national standard of test method for petroleum products distillation are described from various aspects. With regard to the new standard, the authors proposed their opinion and advices for the inadequacies to provide reference for peers.

Keywords: distillation test, new method, main change, discussion.

OPERATION MANAGEMENT

31. International Comparison and Development Prospect Analysis for China's Gas Station Industry. Yin Qiang.

Abstract: Selecting 11 mayor countries in the world from North America, Europe and Asia as samples, the car population, the density of road network, the gas station quantity, and the amount of retail fuel are compared with China, the development course of gas station industry in some developed countries and the influencing factors are introduced. Accordingly the quantities of gas stations in China by 2020 are simulated and forecasted from the data based on three different scenarios, and the development prospect of gas station industry is analyzed. It is concluded that transforming gas station to service station is the trend in which non - oil business will lead the development of gas station in-

dustry; opening market and oil price will determine the developing process of gas station industry; the country's policy orientation (such as pricing mechanism, environmental regulations) will impact decisively the development of gas station industry.

Keywords: gas station, industry development, data analysis, prospect forecast.

37. Review of Retail Network Development of SINOPEC. Sun Xiuming.

Abstract: At the beginning of SINOPEC' foundation, according to the status that the development of sales enterprise was limited seriously, SINOPEC made a strategic decision to accelerate the development of retail network and seize terminal market. The background, content, and the implementation of the strategic decision to develop retail network are introduced, and the effect achieved by the development and construction of retail network is pointed out. By reviewing the development of retail network of sales enterprise, it is realized that sales enterprise should develop the retail network while persist in giving priority to efficiency, adhere to the standardized management and deal with competition and cooperation relations.

Keywords: petrochemical sales enterprise, retail network development, review, experience.

40. Investigation on Occupational Stress of Gas Station Employee and Establishment of Employee Assistance Program. Wang Yuwei.

Abstract: Based on the investigation of employee occupational stress in oil product sales enterprise, through the analysis of occupational stress status, occupational stress source, the requirement of employee assistance program (EAP) by employees in the base, and the organization environment for implementing EAP, the feasibility for implementing EAP in oil products sales enterprise was demonstrated. The basic elements, basic principle, service content and operation scheme for establishing EAP suitable for enterprise features were proposed, which lay the foundation for application study of EAP in oil products sales enterprise.

Keywords: gas station employee, stress management, employee assistance program.