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STORAGE TECHNOLOGIES

1. Discussion on Transforming Option for a $10 \times 10^4 \text{ m}^3$ Floating Roof Tank. Zhang Yi, Li Jianmin.

Abstract: According to the requirement of an enterprise, a $10 \times 10^4 \text{ m}^3$ floating roof tank built in 2001 for storage of crude oil needed to be transformed into a vault tank with internal floating roof for storage of diesel. The status of the tank needs to be transformed and the main transformation items are introduced, and the feasibility of transforming option is discussed from the aspects of technology, construction period and investment.

Keywords: oil tanker, transformation, option, discussion.

3. Prevention of Soil Squeezing Effect in Construction of Adjacent Tanks and Safety Control Measures. Wu Gangjian, Mao Pingyao, Zhang Peijun.

Abstract: The static pressure tubal piling construction of tank can produce soil squeezing effect, causing the destruction of soil around the pile, generating the phenomena of soil displacement, surging, pile floating, which results in damage and destruction of the pile itself and the adjacent tank. The preventive measures of anti-squeezing effect in pile construction are varied, combining engineering geology and construction characteristics, applying comprehensive anti-squeezing options, the better control effect can often be achieved. Combining the pile foundation construction and the surrounding tank safety control of No. 456 tanks group of SinoChem in Nantong, integrating the application of various control measures affecting soil squeezing, the adverse effects

of the squeezing stress of piling on the pile itself and surrounding of tank are solved, which provides reference of security monitoring and preventive measures for the piling construction of static pressure tubal pile of adjacent tanks.

Keywords: static pressure tubal piling construction, soil squeezing effect, stress release hole, security monitoring.

7. Operation, Maintenance and Troubleshooting of Hydraulic Unloading Submersible Pump. Li Xiangbin, Shen Jigang, Wei Jie.

Abstract: The features, structure and working principle of hydraulic submersible pump installed with unloading crane for railway tanker are introduced, with which there is no air resistance and cavitations phenomena in the crane and pump during unloading, which can improve greatly unloading operation conditions, shorten working time, avoid loss of railway capacity, and reduce environmental pollution of oil products. And according to the performance features of hydraulic unloading submersible pump, the maintenance and troubleshooting methods are presented.

Keywords: hydraulic submersible pump, operation, maintenance, troubleshooting.

GAS REFUELING STATION

9. Discussion on Double - Tanks Process and Loss of LNG Refueling Station. He Caining, Lu Yi.

Abstract: Based on the analysis of single - tank process used in LNG refueling station with large loss, the double - tanks unloading process is introduced and recommended for application. The application results show that double - tanks unloading process can solve the problem of large loss brought by single - tank process.

Keywords: gas refueling station, double - tanks unloading process, loss.

SAFETY TECHNOLOGY

11. Discussion on Guarding Methods Against Theft for Oil Product During Road Transport. Lei Zhuangji.

Abstract: The current common - used guarding

methods against theft for oil product during road transport are described. The advantages and disadvantages of various methods are analyzed, and the integrated monitoring system for tankers is emphasized in detail, in order to provide reference to the relevant managers.

Keywords: oil product, road transport, theft prevention, investigation.

14. The Common Problems Existed in Gas Station Electrical System and Prevention. Zhang Quankui, Nie Shiquan, Kong Youming

Abstract: According to the problems existing in the aspects about design and selection, installation and management, prevention of lightning and electromagnetic pulse in the gas station electrical system, the cause of the problems is analyzed, and prevention and treatment measures to solve the problem are proposed.

Keywords: gas station, electrical system, problem, prevention.

QUANTITY AND QUALITY MANAGEMENT

18. Analysis on Effect of Antiknock Additives and Components in Gasoline and Supervision. Zheng Dongqian.

Abstract: The types and mechanism of gasoline antiknock additives are introduced briefly. The properties of unconventional antiknock additives and components and their hazard to gasoline quality and vehicles are explained. Three effective detecting methods are presented, and some advices on supervision of unknown additive and component are proposed as well.

Keywords: gasoline, unconventional additives, quality supervision.

SAFETY MANAGEMENT (HSE ACTIVITIES ESSAY)

22. Cause of Fire Accidents in Gas Stations and Fire Safety Management. Luo Yilin.

Abstract: By analyzing the causes of fire accidents and fire safety management in gas stations, the key points of fire safety management in gas stations are pointed out, hoping that by understanding and pre-

vention, fire accidents in gas station can be effectively controlled and prevented.

Keywords: gas station, fire accident, fire safety management.

25. The Current Gas Station Safety Management Problems and Countermeasures. Xiang Dong.

Abstract: The current problems existing in gas station safety management are described from six aspects, such as “ ‘fatigue’ of security awareness of employees, lack of normal human safe behavior”. In order to solve these problems, four areas of improvements and suggestions are proposed.

Keywords: gas station, safety management, problem, countermeasure.

29. Experience of Emergency Plan Management of East China Pipeline Network. Xue Haibo.

Abstract: The emergency plan management experience of SINOPEC East China Pipeline Network is introduced, i. e., first, focusing on “combination” during the development of emergency plan; second, taking effort on the implementation of the plan; third, paying more attention to the fulcrum of security mechanism.

Keywords: East China Pipeline Network, emergency plan, management, experience.

31. Prevention Measures for Extreme Weather Damage in Gas Station Design. Zhang Long.

Abstract: The problem of how to fully consider avoiding the typical natural disasters damage such as snow, storms, and floods in the gas stations design process is analyzed, and the concrete solutions are proposed.

Keywords: gas station design, natural disaster, prevention measures.

OPERATION MANAGEMENT

33. Introduction on Application of ERP in Oil Depot Business Management and Consideration of Integration. Bian Juying.

Abstract: By analyzing the application of ERP system in oil depot business management, for the

problems in business management, the prevention and control methods are presented. The ideas for integration and development are proposed to realize optimization of resources application.

Keywords: ERP, oil depot management, application analysis, consideration.

36. The Effect of Refueling Stations Construction Specifications on Investment and Operation of Gas Stations. Huang Huasheng.

Abstract: The effect of newly released national standard GB 50156—2012 “Code for design and construction of filling station” on investment and operation of gas stations is analyzed. According to the new specification, rational planning of the construction of gas stations, improving land utilization, enhancing self - service, half self - service stations construction, increasing product variety, improving economic efficiency of enterprises, and promoting sustainable development are proposed.

Keywords: refueling stations, investment, operation

NON - OIL BUSINESS

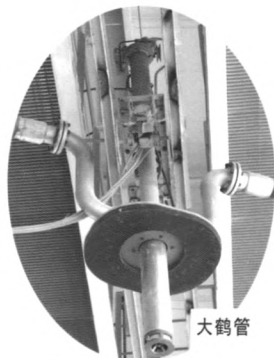
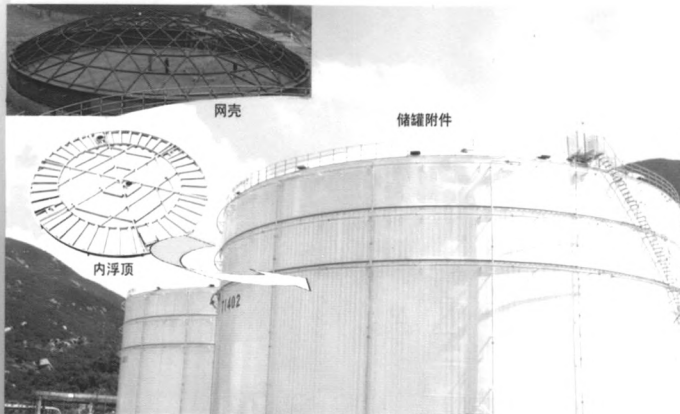
39. Discussion on Relationship Management of Suppliers for Convenience Store in Gas Station. Jiang Zhihong.

Abstract: The relationship management issues of enterprise with suppliers for gas station convenience store are discussed. Through strict suppliers selection, enterprise can strengthen suppliers evaluation and classification management, realize active guide, adjustment and cooperative relations with suppliers and business model, through the integration of resources of both sides, play both competitive advantage of both sides, and achieve the purposes of reducing costs, finding new profit growth point, and improving the business quality of gas station convenience store.

Keywords: gas station convenience store, supplier, relationship management.

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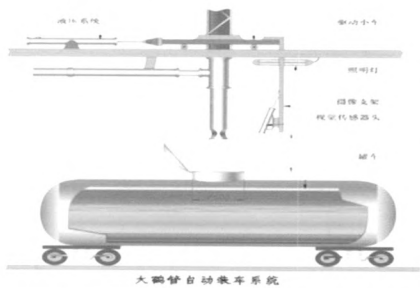
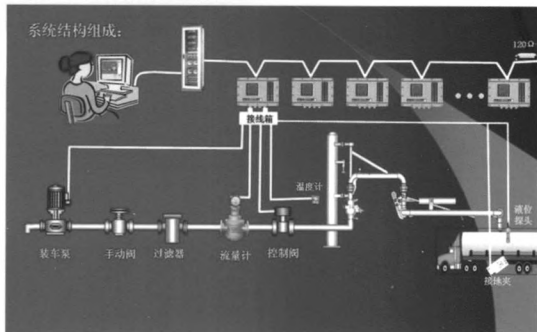
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