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OIL DEPOT AND GAS STATION

# 石油库与加油站

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**Abstract:** In view of the disadvantages of traditional lamps of high energy consumption, low color rendering, and short service life, the advantages of LED, such as long service life, low power, small volume, high brightness, less heat radiation, firmness and durability, etc., are introduced. Based on the investigation of lamps used in domestic gas stations, the effects of LED lamps applied in two gas stations are analyzed, and some advices are proposed for the application of LED lamps in gas stations in the future.

**Key words:** gas station, application, LED lamp, effect, analysis.

5 The Selection Idea of Double - Layer Oil Tank in China. Cao Chen.

**Abstract:** The present situation of the application of double - layer tanks in the gas station in China is introduced, and the definition, main characteristics and the function of the double - layer oil tank are described. The idea of selecting double tank is proposed from a global, scientific, regulatory perspective.

**Key words:** gas station, double - layer tank, type selection, idea, discussion.

9 Discussion on Transformation of Dynamic Sealing of Oil Tank Electric Valve. Wang Xuejun.

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**Key words:** oil tank, electric valve, dynamic seal, leakage, solution.

## OIL AND GAS PIPELINE

11 Detection and Control of Current Leakage of Cathodic Protection System for Buried Steel Pipeline. Li Xiaoyue, Kao Dandan, Xu Keming, Guo Hongyin.

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**Key words:** buried pipeline, cathodic protection, current leakage, control, measures.

## SAFETY TECHNOLOGY

14 Research on Advanced Operation Management Standards of Oil Depot Fire Protection System in America. Sun Cuilin, Li Nianjie, Meng Hulin, Li Gen, Ma Weiping.

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**Key words:** the United States, oil depot, fire protection system, management standard, research.

17 Design of Foam Extinguishing System for Tank Farm in Oil Depot. Wang Wenjuan, Jia Li.

**Abstract:** The general technical requirements for foam extinguishing system in oil depot are introduced. Taking the design of foam extinguishing system for fixed roof tank as an example, according to the known conditions, the parameters including foam mixture volume, number of foam generators, foam

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**Key words:** oil depot, tank farm, foam, fire extinguishing system, design.

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**Abstract:** Based on the measurement of filter blocking tendency of diesel denoted by time, according to the rule of measuring uncertainty, the mathematical model was established and used to analyze and evaluate the uncertainty components in the determination process. It is pointed out that the uncertainty of diesel blocking tendency time measured mainly come from the effluence of repeatability test, pressure of the vacuum pump, measurement of samples volume, determination of stopwatch time and temperature of the sample, and the feasibility and accuracy of the method was scientifically evaluated.

**Key words:** diesel fuel, blocking, tendency, determination time, uncertainty, evaluation.

22 Feasibility Study of Jet Fuel Quality Monitoring Based on HACCP. Zhu Jianjun, Wang Li.

**Abstract:** The basic principle of the Hazard Analysis and Critical Control Point (HACCP), as a guarantee to prevent food from biological, chemical, and physical hazards, and the relation with the Good Manufacturing Practices (GMP) and the Sanitation Standard Operating Procedures (SSOP) are introduced, and the importance of jet fuel quality monitoring is emphasized. The ideas of monitoring jet fuel quality using HACCP is proposed, together with the possible problems that should.

**Key words:** HACCP, jet fuel, quality monitoring, feasibility, discussion.

26 Optimization of Determining Method of Chlorine Content in Gasoline by Microcoulometry. Zheng Chunling, Liu Zhonghua.

**Abstract:** According to the problems existing currently in determination of chlorine content in gasoline using microcoulometry, such as the instable baseline, low conversion rate, over-adjusting peak, and tailed peak, the effects of five factors, including bias voltage, sampling resistance, gain, gas flow

rate, sample volume on the test results is discussed. The optimized test conditions are proposed, laying the foundation for the accurate determination of chlorine content in gasoline.

**Key words:** microcoulometry, gasoline, chlorine content, determination conditions, optimization.

### **SAFETY MANAGEMENT**

29 Using Safety Psychology to Improve Safety Management Level of Gas Station. Zhang Qi.

**Abstract:** The basic concept of safety psychology is briefly introduced, and from the two aspects of unsafe factors of psychological disorders and individual adverse psychological factors, the violations phenomenon is analyzed. The measures to improve gas station safety management using safety psychology are proposed: the first is to change the simplex training method and implement diverse safety education; the second is to improve the working environment and optimize the working conditions; the third is to play the role of incentives and mobilize the enthusiasm for the safety management; the fourth is to alleviate psychological pressure and enhance the self-relaxation ability of employee.

**Key words:** gas station, application, safety psychology, safety management, measures.

32 Hazard Analysis of Oil Transportation by Road and Countermeasures. Zhang Rong

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**Key words:** oil product, tanker, hidden danger, analysis, countermeasures.

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**Abstract:** Taking the SINOPEC Shanghai Oil Products Company as an example, the origin, function and significance of external procurement of oil products by SINOPEC Corp., and the formulating principles, methods, processes of the price inquiry and comparison mechanism are introduced. The implementation of the procurement mechanism shows its

advantages of being open and transparent, maximizing the resource benefit, protecting business personnel, and improving market competitiveness, and the disadvantages of longer decision-making process and difficult contract execution, providing a reference for procurement business of oil products.

**Key words:** oil product, external procurement, price inquiry and comparison, mechanism, discussion.

37 Measures of and Effects Executing "One Station, One Strategy" Marketing Mode in Gas Stations. Huang Naiwen.

**Abstract:** The practices and effectiveness of executing different marketing strategy in different gas stations ("One Station, One Strategy") of SINOPEC Jiangsu Nantong Oil Products Company is introduced: the first is to establish a business philosophy of "strong retail leading to a powerful company" through the implementation of differentiated service, strict examination, and on-site guidance; the second is to improve customer files, optimize consumption environment, and develop delivery service; the third is to develop the business of different products according to the location of gas stations.

**Key words:** gas station, marketing, measures, effect.

39 Research on Continual Improvement of Customer Satisfaction in Gas Station. Nan Jianfei.

**Abstract:** The relations of the customer satisfaction with continual improvement are described, and the significance and reasons of the continual improvement of customer satisfaction in gas station are analyzed. The in-depth investigation, data analysis, factor screening and the implementation workflow which are required for the continual improvement of gas station customer satisfaction are introduced, some strategies for the continual improvement of customer satisfaction are put forward, the common-used methods for the continual improvement of customer satisfaction are presented, such as telephone access, issuing questionnaire, on-site visits, and conversation, providing a reference for oil products sales enterprises to improve customer relationship management level and customer satisfaction.

**Key words:** oil product sales enterprise, customer satisfaction, continual improvement, discussion.

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