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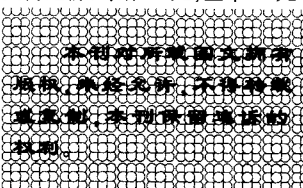
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## 目次

### 储运技术

1 油库静电的成因及预防措施 ..... 李晓鹏 王银锋 杨博

### 油气管道

4 强制排流器在消除埋地金属管道杂散电流干扰中的应用 ... 张超

8 Excel 规划求解在顺序输送计划编制上的应用 .....  
..... 邱东 蔡立 李鹏 杨凯

### 信息技术

13 大型传统企业 IT 运维服务体系的探索与实践 ..... 郭东旭

20 敏捷开发在油品销售行业软件开发中的应用 ..... 李雅彬

### 数质量管理

24 中间馏分油密度、十六烷值等指标之间关系的研究 .....  
..... 杨勇 张凤泉 刘馨璐 董芳

27 混合式油罐测量系统(HTMS)的安装与应用 ..... 吕东风

### 安全管理

30 加油站施工改造中的安全管理 ..... 蒋学书

33 国外某油库爆炸事故教训的思考 .....  
..... 杨洪丽 王志斌 陈宏普 吴占明 马伟平

### 经营管理

37 油品销售企业收购加油站的风险防控 ..... 赵晓慧

41 国有企业业务外包用工风险的监督与防控 ..... 秦元明

### 报道及其他

19 中国石化安全守则

32 《石油库与加油站》杂志2016年度合订本征订启事

36 2017年第3期广告目次

40 《石油库与加油站》杂志投稿须知



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## Contents and Abstracts

### STORAGE TECHNOLOGY

1 The Reasons Causing Static Electricity in Oil Depot and Preventive Measures. Li Xiaopeng, Wang Yinfeng, Yang Bo.

**Abstract:** The definition of static electricity, the generation mechanism, classification of static electricity on oil product, the accumulation and discharge of static electricity, and the conditions of explosion caused by electrostatic discharge in oil depot, are introduced. The process control measures, such as controlling flow rate, improving oil product loading mode, electrostatic grounding and cross connection, using electrostatic conduction coating for inner wall of oil tank, and using electrostatic eliminator, and the management measures, such as avoiding mixing of different materials, strengthening ventilation, improving oil static setting, increasing air humidity, adding antistatic agent, and implementing electrostatic protection of human body, are put forward, providing a reference for the safe operation of oil depot.

**Key words:** oil depot, static electricity, cause, analysis, prevention, measures.

### OIL AND GAS PIPELINE

4 Application of Forced Electric Drainage in Eliminating Stray Current Disturbance of Buried Metal Pipeline. Zhang Chao.

**Abstract:** In view of the situation that the buried metal pipeline is subject to the interference of metro DC stray current, the solution of using forced electric drainage is put forward and applied on an oil product pipeline, achieving a good effect to eliminate the DC stray current, which can greatly reduce the pipeline corrosion problems and improve the operation safety level of pipeline.

**Key words:** oil product pipeline, stray current, corrosion, interference, electric drainage, application.

8 Application of Excel Programming in Plan Formulation of Batching Transport through Oil Products Pipeline. Qiu Dong, Cai Li, Li Peng, Yang Kai.

**Abstract:** In order to solve the problems of low efficiency, error prone calculation and large error in the process of artificial planning of batching transport through oil product pipeline, the method for the planning is proposed by means of Excel planning solution combined with VAB programming. Taking the large - drop oil product pipeline system with single injection point and fixed speed pump as the research object, a quasi steady state multi - objective programming model with the maximum flow rate across the pipeline as object function is established, which applies a hierarchical sequence method to solve the model in two stages, and an example is calculated. This method can greatly improve the work efficiency and accuracy, and effectively guarantee the practical implementation of the plan.

**Key words:** oil product pipeline, batching transportation, planning, Excel, programming solution, application.

### INFORMATION TECHNOLOGY

13 Exploration and Practice of IT Operation and Maintenance System in Large Traditional Enterprises. Guo Dongxu

**Abstract:** Based on the investigation of the norms, standards and practice of IT operation and maintenance system in large enterprises at home and abroad, combining with the IT operation status in a large group corporation, an IT operation and maintenance system for the group corporation is explored and designed, mainly including four aspects of organization, management, tools and technology. The implementation in the actual work has achieved good effects, and improved effectively the IT operation and maintenance level in the group corporation.

**Key words:** large enterprise, IT, operation, maintenance, system, construction, exploration.

20 Application of Agile Development in Software Development of Oil Sales Industry. Li Yabin.

**Abstract:** The software development process using agile development methodology is introduced, and the waterfall modeling and agile development model are compared. The transition path of information system and software development management mode, and the method of applying agile development methodology in information project management of oil product sales industry under the Internet environment are described. The information project platform which can meet the requirement of current business development is set up.

**Key words:** Internet, agile software development,

oil sales industry, application, discussion.

### QUANTITY AND QUALITY MANAGEMENT

24 Study on the Relationship Between Density and Cetane Number of Middle Distillates. Yang Yong, Zhang Fengquan, Liu Xinlu, Dong Fang.

**Abstract:** Selecting 12 kinds of middle distillate samples produced from different processes, including catalytic cracking, delayed coking, hydrotreating, hydrocracking units, according to the relevant standards, the density, cetane number, calorific value of the samples are measured by experiments and analyzed. It is found that in the case without additives, there is the following laws about middle distillates: the density is negatively correlated with cetane number (cetane index) and mass calorific value, and positively correlated with volumetric calorific value; the cetane index calculated by using SH/T 0694 - 2000 standard is usually more than the centane number, but compared with the centane index calculated by using the national standard GB/T 11139 - 1989, it is more close to the centane number; the cetane number (cetane index) was positively correlated with mass calorific value, negatively correlated with volumetric calorific value. Understanding the relationship between the properties can provide a certain guiding significance to the oil quality management.

**Key words:** middle distillate, density, cetane number, calorific value, relationship, research.

27 Installation and Application of Hybrid Tank Measuring System (HTMS). Lü Dongfeng.

**Abstract:** The development process, system structure, and working principle of hybrid tank measurement system (HTMS) and the main factors affecting liquid level measurement accuracy were briefly introduced. The installation method of the HTMS and high precision pressure transducer and the matters needing attention were introduced emphatically, which provides a reference for the related companies to install and apply HTMS.

**Key words:** oil depot, oil tank, hybrid tank measurement system (HTMS), installation, application.

### SAFETY MANAGEMENT

30 Safety Management in Reconstruction of Gas Station. Jiang Xueshu.

**Abstract:** Combining with the practice of gas station reconstruction, the problems of safety management existing in the process of gas station reconstruction were analyzed, such as the low technical level, weak safety awareness, and low level of management. Some countermeasures were put forward for strength-

ening the safety management of gas station construction, i. e. , examining strictly the contractor qualification, formulating a safe construction plan, improving the safety training of construction personnel, strengthening supervision, establishing reward and punishment system, carrying out safety inspection activities, and giving the on - site safety supervision authority to the station leader.

**Key words:** gas station, construction, reconstruction, safety, management, measures.

33 Thoughts on the Lessons from Explosion Accident in a Foreign Oil Depot. Yang Hongli, Wang Zhibin, Chen Hongpu, Wu Zhanming, Ma Weiping.

**Abstract:** The oil depot explosion in the British Buncefield was briefly introduced, and the lessons from the accident and the improvement measures were systematically summarized, including tank safety design, oil depot location, safety design of fire dike, oil depot risk assessment, emergency plan, surrounding regional planning, state supervision mechanism of major hazard, and vapor cloud explosion mechanism. The relevant recommendations on domestic tank safety management were proposed.

**Key words:** foreign, oil depot, storage tanks, explosion, accident, lessons, thought.

#### **OPERATION MANAGEMENT**

37 Risk Prevention and Control in Purchasing Gas Station by Oil Product Sales Enterprises. Zhao Xiaohui.

**Abstract:** Based on the description of the basic concept, nature of purchasing gas station, and the legal risks and characteristics, the prevention measures for legal risks were presented, such as selecting the contract subject according to different circumstances, strengthening due diligence and clarifying ownership

relations, checking assets amount and making assets inventory, establishing a comprehensive purchase price clause, controlling the pace of payment, attaching importance to the transfer of assets and implementing timely transfer of property rights, operating legally and avoiding land use risks, setting up water and power supply to ensure normal operation after acquisition, making a statement of commitment, handling asset insurance and guarding against unexpected risks, providing corresponding guarantee to deal with the defect of sell, and investigating the liabilities for breach of contract and safeguarding the legitimate rights. These could provide reference suggestions for related enterprises to purchase gas stations.

**Key words:** oil product sales enterprise, acquisition, gas station, law, risk, precaution, measures.

41 Supervision and Control of Business Outsourcing Risks in State Owned Enterprises. Qin Yuanming.

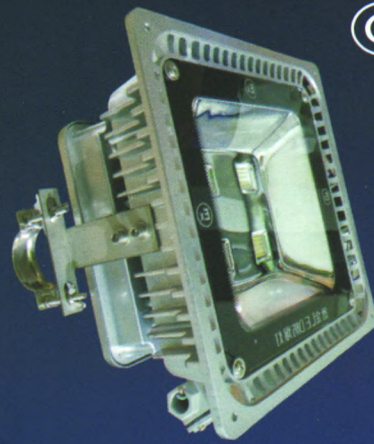
**Abstract:** Based on the introduction of the origin and development status of enterprise business outsourcing, the risks in the business outsourcing were pointed out, such as "false outsourcing, true labor dispatching", mixed employments, stability and cultural integration. The countermeasures for prevention and control of business outsourcing risk were put forward: the first is to choose the contractor considerately; the second is to clear the contract agreement; the third is to avoid mixed employment; the fourth is to change the management mode and construct the dynamic evaluation system for management performance.

**Key words:** state - owned enterprises, business outsourcing, employment, risk, prevention and control, countermeasures.

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