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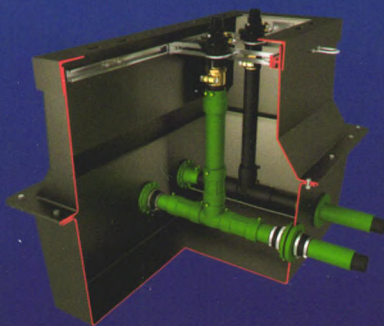


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Contents and Abstracts

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Abstract: The advantages and disadvantages of composite pipeline and steel pipe in gas station are compared, and the quality control points in the design and construction process of composite pipeline are pointed out. The protection measures for the pipeline during construction and the problems needing attention in the acceptance of project are put forward, which provides reference for the construction of the composite pipeline in gas station.

Key words: gas station, composite pipe, selection, design, construction, quality, control.

5 The Application of Swirl Preventer in Process of Highway Oil Unloading. Zhang Peng.

Abstract: In order to solve the problem that the gas and liquid mixed into the pump in the process of highway oil unloading will affect the unloading efficiency and produce a large amount of static electricity, which is prone to cause damage of the pump body and accidents, a swirl preventer is developed. The main structure, working principle, main functions and working characteristics of the device are introduced. The swirl preventer can be used to solve the problem of a large amount of gas into the pipeline. It can automatically liquefy and collect the fog and foam, automatically detect the water mixed in the oil, and send the sound and light alarm in the field and remote transmission and initiate interlock to avoid illegal operation and improve the safety coefficient and work efficiency. The trial in an oil depot has achieved good results showing that it is worthy of popularization and application.

Key words: oil depot, oil unloading, swirl preventer, structure, principle, function, research and development.

7 Discussion on Anti - Corrosion Measures of Load - Bearing Tank Equipment in Gas Station. Chen Zengliang.

Abstract: The reasons causing equipment corrosion in operation well of load - bearing tank in gas station are introduced, the installation of ventilation system

without power is proposed to solve the corrosion problem of equipment in operation wells, and the satisfactory result is achieved through practical application. At the same time, the doubts about the possible safety problems associated with the installation of the ventilation system are eliminated. This provides a new method for gas station to solve the equipment corrosion problem due to the humidity in the operation well of load - bearing tank.

Key words: gas station, load - bearing tank, operation well, equipment, corrosion, solution, measures.

10 Discussion on Construction Method of the Roof Replacement for Concrete - Roof Tank in Cave Depot. Zhang Dongsheng, Li Da, Hu Huayue, Xu Yunming.

Abstract: Because of long service time, the concrete - roof tank in cave depot is out of repair with a hidden danger, and needs to be repaired through roof replacement. Due to the small space of construction in the cave, and the poor bearing capacity of the original tank wall, the traditional roof replacement method is not applicable, the "integral truss lifting" method is put forward and used to implement the roof replacement for concrete - roof tank in cave depot. Four construction steps, i. e., cutting the buried steel plate, installing the central pillar, setting up the lifting device, and manufacturing and installing tank roof, are introduced as well as the problems needing attention. The method has the advantages of simple operation, cost saving, short construction period and high safety coefficient, and can be used as reference for similar construction operations.

Key words: cave depot, concrete - roof tank, roof replacement, construction.

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Key words: oil product pipeline, internal inspection, pipeline defects, finite element analysis, repair, maintenance, measures.

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17 Experimental Analysis of Oil Electrostatic Hazards during Refueling Process and Preventive Measures. Dai Liping, Lou Renjie.

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Key words: automobile, refueling, static electricity, experiment, analysis, prevention, measures.

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21 Thoughts on Hazardous Waste Management in Oil Product Sales Enterprises. Tian Ruihua.

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Key words: oil product, sales enterprise, hazardous waste, management, suggestion.

QUANTITY AND QUALITY MANAGEMENT

23 Discussion on Application of Ground Tank Transfer in Gas Station. Chen Wei.

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Key words: gas stations, measurement, promotion,

ground tank transfer, problems, countermeasures.

27 Difficulties and Suggestions on Quality Management of Vehicle Ethanol Gasoline. Mao Zhong, Hua Hunan.

Abstract: In the face of the overall promotion of vehicle ethanol gasoline in 2020, in view of the strong hydrophilic characteristics of vehicle ethanol gasoline, according to the standard AQ3045 - 2013 " safety standard for storage and transportation of vehicle ethanol gasoline", combined with the actual work, the measures and suggestions for ensuring the quality of vehicle ethanol gasoline are put forward from the four aspects of the related requirements of the storage and transportation equipment, the disposal of the water in oil tank, the sampling inspection (acceptance) and sample retention, and the storage cycle.

Key words: vehicle ethanol gasoline, storage and transportation, quality, management, problem, measures.

30 Design and Application of Hybrid Tank Automatic Metering System with Servo Electronic Densitometer. Miao Weihua.

Abstract: Based on the brief introduction of the form and advantages and disadvantages of the domestic and foreign oil product delivery, in view of the large error of oil density when the measuring liquid level below 3 m using hybrid tank measurement method in domestic oil metering, a hybrid measurement system with a servo on - line electronic device consisting of an original servo liquid level meter and an on - line densitometer is proposed. After a half year trial in an oil depot, satisfactory results were obtained. Compared with manual measurement, the liquid level deviation of the system is less than 3 mm, the density deviation is within 0.5 kg/m^3 , and the temperature deviation is about 0.2°C . Using the system, the average density measurement of oil in the tank, the fixed point measurement, the oil density monitoring and the real - time measurement of the oil density at the bottom of the oil tank can be obtained, and the oil delivery in accordance with the actual density can be realized.

Key words: oil depot, servo electronic densitometer, hybrid automatic metering system, design, application.

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33 Risk Analysis of Mechanized Cleaning of Oil Product Tanks and Prevention. Yan Jin.

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Key words: oil product, storage tank, mechanization, cleaning, safety, risk, analysis, measures.

36 Causes of Responsible Accident in Petroleum Enterprises and Countermeasures. Zhu Hanyue.

Abstract: According to the characteristics of production safety in petroleum enterprises, it is pointed out that the responsible accidents in petroleum enterprises are caused by unsafe behavior of people, unsafe state of objects and management defects, and the countermeasures are put forward to prevent responsible accidents; the first is to improve review mechanism for the applicability of safety management system to achieve the " safety system development"; the second is to enhance the safety awareness, safety skills of the employees and improve the safety business management ability; the third is to clear the enterprise management levels and system problems to ensure the safe production of enterprises.

Key words: petroleum enterprises, production safety, responsibility, accident, analysis, countermeasures.

OPERATION MANAGEMENT

38 A Study on the Construction and Management of the Service Area of Expressway in China. Liu zhi hua

Abstract: This thesis deeply analyzed the feature of management of the Service Area of Expressway in China. Through study of the classic case of operating and management of service area, and analyses of efficient performance between different scale and different mode, this study offered some strategies for the construction and management of expressway in order to provide some suggestions for the sales enterprise.

Key words: Expressway; Service Area; construction and management

42 The Important Role of Asset Evaluation in Gas Station Acquisition. Zou Feng.

Abstract: On the basis of the introduction of the status of the gas station acquisition and the concept of asset evaluation, the important role of asset evaluation in the gas station acquisition and the detailed process of the asset evaluation during gas station acquisition are emphatically interpreted. Some suggestions on the assets evaluation during gas station acquisition are put forward; the first is to standardize the management of property right transaction pricing and promote the orderly flow of enterprise management capital; the second is to reflect reasonably the real assets value of the purchased gas station so as to prevent effectively the loss of enterprise assets; and the third is to provide effective guarantee for the value preservation and appreciation of the state assets.

Key words: gas station, acquisition, asset evaluation, process, function.

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