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Key words: gas station, oil tank, modification, lining technology, application, prospect.

5 Application of Magnetic Suction Type Wire Pipe Bracket on Oil Tanks. Wu Longhai, Yi Wei.

Abstract: At present, there are two ways to install the fixed pipe bracket of telecommunication cable for oil tanks, by climbing the staircase outside of oil tank or using the original wire pipe support. Both the two installation methods need to clean the tank, carry on the detection of the combustible gas concentration, and use the electric (gas) welding and the electric drill, with the defects of complicated operation, large amount of work, many hidden dangers, long construction time, high cost, and unsatisfactory effect. Therefore, a magnetic suction type wire pipe bracket is proposed for installation of the communication cable on oil tank with the advantage of simple operation, low consumption of time and materials, no hidden danger and long service life, and is worth popularizing.

Key words: magnetic suction type, fixed bracket, oil tank, installation, cable, application.

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7 Application of Outlier Mining Technology in Leak Detection of Oil Product Pipeline. Zhang Hongkui, Chen Jingjun, Liu Ruizhe.

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Key words: oil product, oil pipeline, leakage, monitoring, outlier mining technology, application.

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Key words: oil product, oil pipeline, internal inspection, defect, evaluation, maintenance, response.

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15 Integration of All Kinds of Information Systems of Oil Depot Using Platform Method. Teng Tianjiao.

Abstract: At present, three major independent information systems in some oil depots, viz. logistics management system, fire control system and on-site monitoring and prevention system are operated independently. Therefore, there are many problems, such as the systems are not systematic, the linkage between the systems cannot be realized, the cost of investment and operation and maintenance is high, the workload is increased and the operation is too dependent on the operator. The integrated platform solution is proposed, including comprehensive control center, system optimization, linkage, construction of signal transmission network between trunk and branches, modular design of detection unit and simplification of information display unit, which can reduce the operation cost and workload, improve work efficiency and the management level of oil depot.

Key words: oil depots, information systems, platform, integration, optimization, solution.

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Key words: oil product sales enterprises, Internet of Vehicles, large data, comprehensive service platform, construction.

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Key words: gas station, environmental pollution, ways, prevention and control, measures.

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Key words: ship refueling operation, occupational disease, hazard, investigation, evaluation, prevention.

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Key words: middle infrared spectrometer, vehicle gasoline, detection, research octane number, database, establishment.

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Key words: oil product, testing, laboratory, apparatus, equipment, management.

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Key words: sales enterprises, commissioned gas stations, safety, management, problems, countermeasures.

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Key words: oil depot, construction, safety, management, measures.

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Key words: smart gas station, concept, characteristics, construction, measures.

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