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The Tropical Guide to Water Storage Tank Protection An Introduction to Petroleum Fuel Storage Tanks Environmental Protection Environmental Code of Practice for Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products Corrosion Control of Underground Storage Tank Systems by Cathodic Protection Cathodic Protection of Domestic Gas-fired Hot Water Storage Tanks Lightning and Petroleum Storage Tanks: A Scientific Exposition of the Manner by Which Lightning Causes Tank Fires, with Helpful Suggestions and Means Lastfire An Introduction to Petroleum Storage Facilities Handbook of Storage Tank Systems Lightning, and Petroleum Storage Tanks Handbook of Storage Tank Systems Musts for USTs Corrosion Protection of Underground Storage Tanks The Interim Prohibition Environmental Protection Measurement Techniques Related to Criteria for Cathodic Protection of Underground Storage Tank Systems Upgrade Your Underground Storage Tank High-level Waste Storage Tank Farms Don't Wait Until 1998 Corrosion Control Acceptance Criteria for Impressed-Current-Type, Cathodic Protection Systems on Water Storage Tank Interiors External Corrosion of Underground Storage Tank Systems by Cathodic Protection Don't Wait Until 1998 Report to Congress on a Compliance Plan for the Underground Storage Tank Program Don't Wait Until 1998 Oil Storage Tank Fire Record Toxic Substance Storage Tank Assurance and Safety Program Above Ground Storage Tank Oil Spills Interior Lining and Cathodic Protection of Underground Storage Tanks (usts). Study Information Underground Storage Tank Program Environmental Protection Implementation of the Underground Storage Tank Program Underground Storage Tank Program Freeze Protection for Impressed-Current, Cathodic-Protection Anodes in Water Storage Tanks ACT-100® Specification for External Corrosion Protection of Composite Steel Underground Storage Tanks Retrofitting, Replacement Or Removal? Protection

Against Costly Leaks in Underground Petroleum Storage Tanks : a Guide for Tank Owners and Operators Environmental Protection: Improved Inspections and Enforcement Would Ensure Safer Underground Storage Tanks Some European Perspectives on Prevention of Leaks from Underground Oil Storage Systems Underground Storage Tank Program Certification and Licensing Exam

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A survey of manufacturing and installation methods, standards, and specifications of factory-made steel storage tanks and appurtenances for petroleum, chemicals, hydrocarbons, and other flammable or combustible liquids. It chronicles the trends towards aboveground storage tanks, secondary containment, and corrosion-resistant underground steel stora Supply of oil and gas continues to increase as well as natural events such as hurricanes, while engineers and safety managers are not well trained on storage tank engineering and leak detection, one of the most vulnerable and least studied components of oil and gas storage equipment. Above Ground Storage Tank Oil and Chemical Spills gives engineers and researchers a training guide on tank design, tank failure modes and risk analysis. Bridging

between research and application, this reference sends an integrated engineering approach backed by both corporate and academic contributors focused specifically on storage tanks, their spills, case histories, and technical aspects of leakage from storage tanks. Additional topics include regulations, differences between spills from storage tanks and other sources, and supported by extensive data and additional references. Above Ground Storage Tank Oil and Chemical Spills delivers a much-needed knowledge source for today's engineers and managers to keep supply and personnel safe. Learn from both academic and corporate contributors, bridging between research and practical application

Understand lessons learned with case studies and extensive data Know the differences between spills from storage tanks and other sources A survey of manufacturing and installation methods, standards, and specifications of factory-made steel storage tanks and appurtenances for petroleum, chemicals, hydrocarbons, and other flammable or combustible liquids. It chronicles the trends towards aboveground storage tanks, secondary containment, and corrosion-resistant underground steel storage systems. Environmental Protection: Recommendations for Improving the Underground Storage Tank Program A technique was developed for supporting anode assemblies from the bottom of water storage tanks using polyester-type, fiberglass vertical columns. The columns were readily fabricated from the lightweight, non-metallic material; button-type anodes were easily positioned on the columns. The columns were supported in the tank by steel bases welded to the tank bottom. This was a unique departure from convention; impressed-current type anode assemblies are conventionally suspended from the roof of the tank using techniques which subject them to damage during the winter (i.e., icing conditions). It was established that the non-metallic, bottom-supported anode system was a viable approach for supporting anode assemblies in water-storage tanks. Where severe icing occurs, horizontal supports should not be connected between the columns and the tank wall. Equally important, it was found that header cables to the anodes and permanent reference electrode assemblies could be

effectively protected from ice damage by encasing them in polyvinyl chloride conduit anchored to the tank surface. (Author). I am pleased to be here today to discuss the increasing concern that our nation's waters are becoming contaminated with methyl tertiary butyl ether (MTBE). About a third of the states, in certain areas, use gasoline that contains MTBE to help them limit air pollution because it burns cleaner. However, the substance could also pose risks to human health, especially as a contaminant in drinking water wells. One of the primary ways in which the contaminant has migrated into wells and groundwater is from leaking underground tanks used to store gasoline. The Environmental Protection Agency (EPA) has the responsibility through the Underground Storage Tank Program and working primarily through the states to ensure the tanks do not leak, and if they do, that the contamination is cleaned up. However, several studies, including our own report on EPA's implementation of the tank program,¹ showed that many tanks have leaked and continue to leak hazardous substances, such as MTBE and benzene. These leaks, in turn, contaminate soil and groundwater, posing health risks to those who live nearby or drink the water. Such health risks can range from nausea to kidney or liver damage or even cancer. As a result, some communities have closed their drinking water wells. A recent news report illustrates the problem. A school in Roselawn, Indiana, discovered that the children had been using and drinking water with nearly 10 times the EPA-recommended safe level of MTBE. I understand that an investigation is trying to determine whether the MTBE came from a nearby tank and whether it is a factor contributing to the children's nosebleeds and other reported health problems. Introductory technical guidance for civil, mechanical and petroleum engineers interested in design and construction of atmospheric petroleum fuel storage tanks. Here is what is discussed: 1. INTRODUCTION 2. GENERAL REQUIREMENTS 3. GENERAL CRITERIA 4. HORIZONTAL ABOVEGROUND TANKS (SINGLE-WALL STEEL) 5. HORIZONTAL ABOVEGROUND TANKS (DOUBLE-WALL STEEL) 6. HORIZONTAL ABOVEGROUND TANKS (FIRE-RESISTANT) 7. HORIZONTAL ABOVEGROUND TANKS (PROTECTED TANKS)

8. ABOVEGROUND VERTICAL STORAGE TANKS 9. UNDERGROUND HORIZONTAL STORAGE TANKS 10. UNDERGROUND VERTICAL STORAGE TANKS (CUT AND COVER) 11. APPURTENANCES 12. HEATERS 13. UNDERGROUND STORAGE TANK SPILL CONTAINMENT SYSTEMS 14. ABOVEGROUND TANK SPILL CONTAINMENT SYSTEMS 15. MISCELLANEOUS USE TANKS 16. SHIPBOARD OFF-LOAD FUEL STORAGE TANKS. The Army currently operates and maintains more than 300 elevated water storage tanks, all of which require some form of corrosion control. Cathodic protection is a form of corrosion control used to prevent corrosion-induced leaks in steel structures exposed to water. Excerpt from *Lightning and Petroleum Storage Tanks: A Scientific Exposition of the Manner by Which Lightning Causes Tank Fires, With Helpful Suggestions and Means of Protection* There would be no tank fires if you knew how to prevent them, would there? This little book will tell you why your tanks take fire during thunder storms and how to prevent these fires. The lessons taught in this booklet are established on fundamental truths and should be scientifically discussed by all who are interested, for the national welfare. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. This 25th anniversary booklet provides underground storage tank (UST) stakeholders with information about the accomplishments of the tanks program over the past quarter century. EPA and its state, territorial, and tribal partners have worked together and accomplished much to protect our environment from releases at underground tank facilities, such as gas stations. This 20-page booklet includes an overview and discusses inspecting USTs, reusing abandoned

gas stations, updating UST regulations, storing new fuels, and greening UST operations and cleanups. Three identical laboratory model tanks were assembled from a section of 10 inch diameter, uncoated, oxygen concentration cell corroded, steel pipe. The soil bed was chosen to simulate a typical well-aerated topside surface and a wetted bottom with drainage to occur through both the compacted sand on one-half the tank length and granulated crushed stone screenings on the other half of its length. Appropriate reference carbon and zinc electrodes were positioned during backfilling and the potentials of these electrodes were monitored regularly by standard surface electrodes. During phase II of the program, an investigation was carried out on the effect of stray a.c. current up to a very few volts at the soil/metal interface on a cathodically protected coated steel structure. The layout for the series of tests was arranged in a soil-box to simulate the environmental exposure conditions for a typical underground storage tank piping system. This publication provides introductory technical guidance for mechanical engineers, petroleum engineers, civil engineers and other professional engineers and construction managers interested in design and construction of atmospheric storage tanks at petroleum fuel facilities. Here is what is discussed: 1. INTRODUCTION, 2. GENERAL REQUIREMENTS , 3. GENERAL CRITERIA, 4. HORIZONTAL ABOVEGROUND TANKS (SINGLE-WALL STEEL), 5. HORIZONTAL ABOVEGROUND TANKS (DOUBLE-WALL STEEL), 6. HORIZONTAL ABOVEGROUND TANKS (FIRE-RESISTANT), 7. HORIZONTAL ABOVEGROUND TANKS (PROTECTED TANKS), 8. ABOVEGROUND VERTICAL STORAGE TANKS, 9. UNDERGROUND HORIZONTAL STORAGE TANKS, 10. UNDERGROUND VERTICAL STORAGE TANKS (CUT AND COVER), 11. APPURTENANCES, 12. HEATERS, 13. UNDERGROUND STORAGE TANK SPILL CONTAINMENT SYSTEMS, 14. ABOVEGROUND TANK SPILL CONTAINMENT SYSTEMS, 15. MISCELLANEOUS USE TANKS, 16. SHIPBOARD OFF-LOAD FUEL STORAGE TANKS This code comprises a model set of technical requirements designed to protect the environment by preventing product releases from underground storage tanks and piping. The code includes details on application and definitions, registration and approval, site

classification, design and installation, upgrading, operation and maintenance, and withdrawal from service. The document also includes a list of authorities having jurisdiction, and a failure incident report on storage tanks and piping. The Fire Protection functional area for the Hanford Site Tank Farm facilities and support structures is based on the application of relevant DOE orders, regulations, and industry codes and standards. The fire protection program defined in this document may be divided into three areas: (1) organizational, (2) administrative programmatic features, and (3) technical features. The information presented in each section is in the form of program elements and orders, regulations, industry codes, and standards that serve as the attributes of a fire protection program for the Tank Farm facilities. Upon completion this document will be utilized as the basis to evaluate compliance of the fire protection program being implemented for the Tank Farm facilities with the requirements of DOE orders and industry codes and standards. I am here today to discuss our recent report on the Environmental Protection Agency's (EPA) Underground Storage Tank (UST) program. 1 The program is relevant to today's hearing because studies have shown that tanks that leak hazardous substances, such as methyl tertiary butyl ether (MTBE), contaminate the soil or water and can pose health risks ranging from nausea to kidney or liver damage or even cancer. Indeed, leaks of MTBE a fuel additive for reducing emissions and raising octane, but also a suspected carcinogen have been found in drinking water sources and pose a very serious health risk and costly cleanup burden. Leaking underground storage tanks that contain hazardous products, primarily gasoline, can contaminate soil & groundwater. To address this problem, the EPA required tank owners to install leak detection equipment & take measures to prevent leaks. In 1986, the Congress created a federal trust fund to assist states with cleanups. Cleanup progress has been made, but, as of early 2005, cleanup efforts had not yet begun for over 32,000 tanks. The report identified: (1) data on the number & cleanup status of leaking tanks;

(2) funding sources for tank cleanups; & (3) processes used by 5 states with large numbers of leaking tanks -- Calif., Maryland, Mich., N. Carolina, & Penna. -- to identify, assess, & clean up sites. Illustrations.

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