

Analysis of inspection issues in water storage power plants





Overview

This review presents a structured and data-driven synthesis of 185 peer-reviewed articles, sourced from journals indexed in MDPI and Elsevier, as well as through the Google Scholar search engine, published between 2019 and 2025.



Analysis of inspection issues in water storage power plants



[Water storage and emerging challenges in a changing ...](#)

Key Messages Water storage allows public water systems to function by helping to maintain pressure in distribution pipes, balancing ...

Microsoft Word

The scales of pumped storage power plant development projects and the proportion of the pumped storage capacity as a percentage of the total capacity of the entire power network are ...



[Nuclear - Compliance and Inspection Services](#)

MISTRAS NDE inspection and maintenance services identify defects and damage in Nuclear Power Plant assets to prevent the risk of a costly and hazardous ...

Design and analysis of a wall-climbing robot for water ...

Design and analysis of a wall-climbing robot for water wall inspection of thermal power plants
Correspondence Yundou Xu, Parallel Robot ...



[Power Plant Asset Integrity Management](#)

Effective Asset Integrity Management in Power Plants Effective asset integrity management in the thermal, hydro and geothermal power industries is critical to optimizing production ...



[A Contribution to Water Hammer Analysis in Pumped ...](#)

The operation of pumped-storage power plants induces a highly transient fluid flow in the penstock of high head water power plants. In the ...



[Electric Power Generation Inspection \[Guide, Tools](#)

Power plant failures are costly, but traditional inspections often miss hidden threats. Drones offer a clearer vision, exploring high and hard-to ...





A new setting criterion of tailrace surge chambers for pumped-storage

Abstract To determine the conditions under which a pumped-storage power plant (PSPP) requires a tailrace surge chamber and to account for the time sequence superposition ...



Guidelines for Tank Inspections

Through previous research on the integrity of buried pipe at nuclear power plants, the Electric Power Research Institute (EPRI) has recognized a growing need for plants to engage in tank ...

[PUMPED STORAGE HYDRO-ELECTRIC PROJECT ...](#)

Pumped Storage Technical Guidance This document provides criteria for Pumped Storage Hydro-Electric project owners to assess their facilities and programs against. This document ...



[Review of Fault Detection and Diagnosis Methods in ...](#)

Combining a thematic and quantitative approach, this article aims to support researchers, engineers, and decision-makers in developing more ...



Benefits of Submersible Robotic Tank Inspections for Power ...

Square Robot offers a transformative solution for utilities through its submersible, autonomous inspection robot. This innovation conducts inspections while tanks remain in operation, even ...



Fatigue life prediction of steel spiral cases in pumped-storage power

The above two technological trends in pumped-storage power plants have thrown out new challenges to the structural safety of those powerhouses. A representative challenge ...

(PDF) Technical Challenges and Environmental Governance in ...

This paper uses the methods of literature review and practical experience induction to conduct a detailed analysis of the technical issues in the construction of pumped ...





[\(PDF\) Issues for Nuclear Power Plants Steam ...](#)

PDF , On Mar 16, 2011, Lucia Bonavigo and others published Issues for Nuclear Power Plants Steam Generators , Find, read and cite all the research you ...

[Review of Global Regulations for Anhydrous Ammonia ...](#)

Ammonia production, from its overall environmental impact, is considered a "rather clean technology," characterized by low emissions and low energy consumption as well as little or no ...



[Balance of Plant and In-service Inspections](#)

Within the nuclear industry, WesDyne has extensive experience with both pressurized water reactor and boiling water reactor plants throughout the world ...

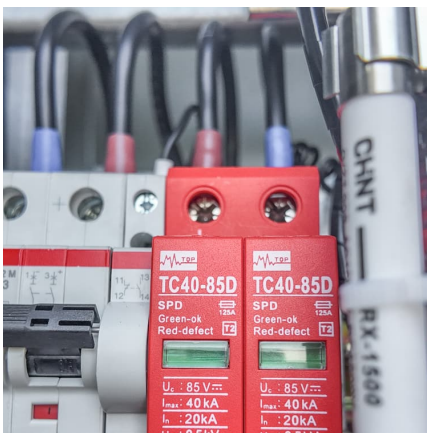
Fatigue life analysis of hydropower pipelines using the analytical

The most important loads include those generated in peaking power plants, for example in pumped-storage power plants, whose primary purpose is intervention in the system ...



Preventive Maintenance for Small Public Water Systems ...

Chemical additions should be checked routinely for solution used per gallon of water used for easier tracking on chemical feed pump reliability and water quality. Monitoring the raw ...



SPCC Guidance for Regional Inspectors, December 16, 2013

7.1 Introduction The inspection, evaluation and testing requirements of the SPCC rule are intended to prevent, predict and detect potential integrity or structural issues before they cause ...



(CN 96-024) IP 62002 Inspection of Structures, Passive ...

62002-01 INSPECTION OBJECTIVES 01.01 Evaluate by visual examination and/or review of licensee documentation the condition of structures. passive components. and civil engineering ...





Fact Sheet

The Public Water System Supervision (PWSS) program is designed to protect human health by ensuring the safety of drinking water. PWSs are often inspected by states, territories, and ...



[RG 1.127, Rev. 2, "Criteria and Design Features for ..."](#)

Regulatory Guide 3.11, "Design, Construction, and Inspection of Embankment Retention Systems at Uranium Recovery Facilities," (Ref. 3) contains guidance for the design and construction of ...

Fire Water Storage Tank Inspections

As Western Texas's leading provider of fire water tank inspections, we utilize ROV (Remotely Operated Vehicles) and certified commercial divers to conduct detailed, non ...



[SEDIMENT MANAGEMENT IN HYDRO POWER...](#)

3. Sediment- Source and associated problems for Hydro Power Plants Sedimentation embodies the process of erosion, transportation, deposition and the compaction of sediments. Erosion ...



Hazards Identification and Risk Assessment in Thermal ...

Abstract-- The thermal power plant is a large electricity generation industry. It consist a number of process by mean to generate electricity by use of fossil fuel. It also consist several major ...



Risk management: A tool for improving nuclear power plant ...

These techniques can be expanded, however, to measure and assess the risk of non-nuclear events, such as protecting plant investment, maintaining plant availability, and analysis of re ...

[Expert Nuclear Power Plant Inspection Services . UCC](#)

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