

Decontamination Techniques Used In Decommissioning Activities

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FP6036367€ANTIOXI ANTIOXI€€Decontamination€techniques ...

Decontamination. Decontamination is defined as the removal or reduction of residual radioactive contaminants (sometimes in combination with other hazardous materials) from equipment surfaces (e.g. piping systems, tanks, and components) or from structures (e.g. floors, walls, and ceilings) by means of mechanical, chemical or other techniques to achieve a stated objective or end condition.

(PDF) Radioactive decontamination technique used in ...

Decommissioning techniques In decommissioning, it is important to use mature, reliable technologies that satisfy the requirements of safety, radiation protection and swift project implementation. Technologies are required for various processes: decontamination, dismantling and disassembling of components and buildings.

Decommissioning of Nuclear Facilities Dismantling Technologies

Operators also have more time to secure funds to pay for the decommissioning process over the longer timeframe of the SAFSTOR process. A third technique, known as ENTOMB, involves permanently entombing the entire site in concrete. This method is not used for commercial reactors in the United States, but it has been used in other countries.

Decontamination techniques | Science

Radioactive decontamination technique used in decommissioning of nuclear facilities Article (PDF Available) in Romanian Journal of Physics 59(9-10):912-919 · December 2014 with 140 Reads

Decontamination Techniques Used in Decommissioning Activities

RADIOACTIVE DECONTAMINATION TECHNIQUE USED IN DECOMMISSIONING OF NUCLEAR FACILITIES DANIELA GURAU*, RADU DEJU Horia Hulubei National Institute for Physics and Nuclear Engineering, P.O.B. MG-6, RO-077125 Magurele, Romania. *E-mail addresses: daniela.gurau@ymail.com Received April 4, 2014 The decontamination of equipment and nuclear installations ...

Decontamination for decommissioning: EPRI DfD process ...

US Department of Energy Office of Environmental Management (EM) contractors have used new techniques, including the use of a diamond wire saw, in a collaborative effort to demolish a legacy research reactor at the Idaho National Laboratory (INL). The diamond wire saw, which was used to slice the reactor's concrete shielding.

Decontamination - an overview | ScienceDirect Topics

This chapter presents a brief overview of decontamination processes commonly used in nuclear decommissioning programmes as well as some emerging techniques, including the decontamination of metallic components and equipment, segmented metallic pieces and building surfaces, mainly with regard to their reuse and recycling.

26.8 Decontamination Technologies - IAEA

decommissioning technologies, and in particular decontamination and disassembly techniques and the management of resulting wastes [4-7], were prepared in the early or mid-1980s and mainly reflected decommissioning experience gained on

New Methods and Techniques for Decontamination in ...

Dismantling Techniques, Decontamination Techniques, Dissemination of Best Practice, Experience and Know-how Final Report June 2009 AF-Colenco Ltd, Täfernstrasse 26, CH-5405 Baden, Switzerland Nuclear Research Institute Rez plc, Rez-Husinec cp.130, 25068 Rez, Czech Republic Forschungszentrum Karlsruhe GmbH, Postfach 3640, 76021 Karlsruhe, Germany

Dismantling Techniques, Decontamination Techniques ...

The full scale decommissioning of a reactor requires the use of a variety of decontamination processes, techniques and equipment. In August of 1992, the decommissioning of the Fort St. Vrain High Temperature Gas-Cooled Reactor (HTGR) was initiated by Public Service Company of Colorado.

NEA/RWM/R(2011)2 Radioactive Waste Management Committee

Emerging techniques are under development for use in dismantling nuclear installations Lasers, used in the industry for production machining, needs still developments to be used in decommissioning Arc saw cutting requires very important power source ! (about 1 MW electric power in the above example) 38 International Atomic Energy Agency ...

401 Methods for the Minimization of Radioactive Waste from ...

Decommissioning of Nuclear Facilities Decontamination Technologies Lawrence E. Boing Manila, Philippines, October 2006 2 International Atomic Energy Agency Lesson Objectives • Review basic objectives of decontamination techniques and processes • Review selection criteria and factors for consideration in selecting a decontamination process

Decontamination processes and technologies in nuclear ...

INTERNATIONAL ATOMIC ENERGY AGENCY, New Methods and Techniques for Decontamination in Maintenance or Decommissioning Operations, IAEA-TECDOC-1022, IAEA, Vienna (1998). Download to: EdNote BibTeX *use BibTeX for Zotero

Decontamination Techniques Used In Decommissioning

Decontamination is a major decommissioning activity that may be used to accomplish several goals, such as reducing occupational exposures, limiting potential releases and uptakes of radioactive materials, permitting the reuse of component s, and facilitating waste management.

RADIOACTIVE DECONTAMINATION TECHNIQUE USED IN ...

Decontamination techniques are used to remove adherent radionuclides (contamination). This improves radiation protection, minimises the volume of waste and is a key prerequisite for clearance. Systems and rooms are decontaminated prior to the start of dismantling in order to reduce workers' exposure to radiation.

Decontamination and Dismantling of Nuclear Facilities ...

Experiences & Techniques in the Decommissioning of Old Nuclear Power Plants 255 1. Introduction Decommissioning of a nuclear power plant or other nuclear installations can be defined as the cessation of operations and the withdrawal of the facility from service, followed by its transformation into an out-of-service state and eventually, its

Decommissioning nuclear reactors is a long-term and costly ...

The decommissioning plan should, therefore, detail the correct handling of each item in the facility by its intended disposition. That includes the recommended general and equipment-specific decontamination protocols to be used by specialized service providers.

Decommissioning techniques | Science

techniques used in nuclear industry during the last decades. The ... The goal of this work was to collect together brief descriptions of the decontamination techniques used in nuclear power ... Therefore the methods for decommissioning power plants (e.g. melting of ...

Experiences and Techniques in the Decommissioning of Old ...

In the context of nuclear facility decommissioning, the dismantling and the decontamination techniques represent an important task. In order to meet dismantling requirements, different cutting, separation and handling techniques can be used. For the selection of a dismantling or decontamination technique suitable for

New techniques used in US legacy reactor decommissioning ...

Methods for the minimization of radioactive waste from decontamination and decommissioning of nuclear facilities. – Vienna : International Atomic Energy Agency, 2001. p. ; 24 cm. – (Technical reports series, ISSN 0074-1914 ; no. 401) STI/DOC/010/401 ISBN 92-0-100901-1 Includes bibliographical references. 1. Radioactive waste ...

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