

## Decontamination Techniques Used In Decommissioning Activities

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### Decontamination Techniques Used In Decommissioning

Decontamination techniques. Decontamination techniques are used to remove adherent radionuclides (contamination). This improves radiation protection 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. This is often done by removing not only the radionuclides deposited on the surface, but also a thin layer of the material itself.

### Decontamination techniques | Science

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.

### Decontamination Techniques Used in Decommissioning Activities

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. Research centres, universities and industry have therefore developed a range of conventional dismantling and decontamination techniques for use in the decommissioning of ...

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Decontamination Techniques Chemical Decontamination. Chemical decontamination is one of the best method for most decontamination operations is to... Mechanical Decontamination. Mechanical decontamination can be used especially for industrial decontamination. There are...

### Decontamination Techniques and Methods - Nuclear Power

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### Decontamination processes and technologies in nuclear ...

•APCE Process based on the use of permanganate in alkaline solution •NITROX or CITROX based on the use of nitric or citric acid. •EPRI DFD (Decontamination For Decommissioning) based on the use of fluoroborique acid. Siemens (D) England Russia Westinghouse EPRI

### 26.8 Decontamination Technologies - IAEA

Several decontamination techniques have been developed to support maintenance work in nuclear installations, and have been applied with relative success to decommissioning. Nevertheless, with more decommissioning operations being carried out throughout the world, specific processes have been developed for decommissioning purposes.

### Dismantling Techniques, Decontamination Techniques ...

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

### New Methods and Techniques for Decontamination in ...

2 Radioactive decontamination technique used in nuclear facilities 913 the surface layer. C.H. Jung [2] has reviewed the chemical decontamination processes operating through immersion of components in aggressive chemical solutions. In these applications the chemical decontamination techniques produce large amounts of liquid radioactive waste [3, 4].

### RADIOACTIVE DECONTAMINATION TECHNIQUE USED IN ...

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Decontamination techniques applied during the decommissioning of uranium enrichment facilities should be evaluated to ensure that they have not accrued an undue criticality risk. The introduction of large volumes of neutron moderator through the application of wet abrasive decontamination techniques could result in a criticality incident.

### **Decontamination - an overview | ScienceDirect Topics**

These criteria were used to rank three decontamination techniques new to the ICPP: laser ablation, liquid abrasive blasting and CO<sub>2</sub> pellet blasting, against the standard decontamination techniques of sodium-based chemical cleaning and water/steam jets used.

### **Criteria and evaluation of three decontamination techniques**

- Some of these techniques are already used in the industry, but for other purposes, some others are developed also for decommissioning: •Laser cutting (industrial, but not for typical applications in decommissioning)
- CAMC (mostly developed in the framework of decommissioning)

### **Decommissioning of Nuclear Facilities Dismantling Technologies**

Chemical decontamination is a technique applied to sub-systems of operational LWR plants for the purpose of reducing radiation exposure to plant workers. Several processes are routinely used for this operation, such as the LOMI process originally developed by EPRI.

### **Decontamination for decommissioning: EPRI DfD process ...**

breaks and in decommissioning of a nuclear power plant. The decision to decontaminate should ... The goal of this work was to collect together brief descriptions of the decontamination techniques used in nuclear power applications.

### **FP6036367 ANTIOXI ANTIOXI Decontamination techniques ...**

DECON, short for "decontamination." It is a strategy where workers dismantle a plant shortly after it stops operating. Personnel then decontaminate the facility and its equipment and safely dispose of components a low-level waste disposal site. This method takes around 10 years to complete.

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