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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 components, and facilitating waste management.

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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

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of conventional dismantling and decontamination techniques for use in the decommissioning of ...

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~~Decontamination Techniques and Methods - Nuclear Power~~

Bing: Decontamination Techniques Used In Decommissioning 6
Decontamination before Dismantling Objectives : Reduction of occupational Exposure Pipe Line System Decontamination Closed system

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Pool, Tank Open system head2right Chemical Method head2right Mechanical method head2right

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~~Decontamination Techniques Used In Decommissioning Activities~~ Interest in biological or electrodecontamination techniques has decreased in the last few years. Both techniques are slow decontamination processes. Thermal treatments should be highlighted as promising emerging decontamination techniques for building

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surfaces . Primarily applicable to the removal of coatings but also for stripping and delamination of thin mineral or organic layers, thermal processes either work by applying or withdrawing heat from the surface to be treated.

~~Decontamination processes and technologies in nuclear ...~~

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 ...~~

chemical solutions [5]. The chemical gels are used as carriers of chemical decontamination agents. This method is efficient in situations where a longer contact is required, together with the need to minimize the radioactive waste. The chemical decontamination process with gel consists of applying by spraying or

~~RADIOACTIVE DECONTAMINATION TECHNIQUE USED IN ...~~

- APCE Process based on the use of permanganate in alkaline solution
- NITROX or CITROX based on the use of nitric or citric acid. •EPRI

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DFD (Decontamination For Decommissioning) based on the use of fluoroborique acid. Siemens (D) England Russia Westinghouse EPRI

~~26.8 Decontamination Technologies — IAEA~~

Decommissioning – the process of taking plant, equipment and buildings out of normal use and leaving in a safe condition by the removal of bulk explosives. Decontamination - the process of removing the residue (of explosives or ingredients used in their manufacture) from plant, equipment, buildings.

~~CBI Decontamination final version~~

- 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~~

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In decommissioning reliable decontamination techniques are available for all relevant cases of application. Decontamination techniques can be used also, if building structures are contaminated directly. The surface is removed - usually by means of milling techniques or needle guns.

~~Technical aspects of decommissioning - BASE~~

We have also carried out blockage removal and pipework cleaning in nuclear facilities, minimising effluent production, utilising techniques such as water jetting, mechanical scouring, chemical dissolution and pressure pulsing. We also produce decontamination strategies and option studies fully underpinned by technical assessments and experience.

~~Nuclear Decommissioning & Operational Support Cumbria ...~~

The Chernobyl nuclear power plant in Ukraine is to become a "testing ground" for South Korean technologies for the treatment of radioactively contaminated materials, Oleksandr Skomarokhov, ChNPP deputy director of radioactive waste management, announced on 28 October.

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~~South Korea to test decontamination technology at ...~~

Using lasers as an alternative for nuclear decommissioning Using one laser, configured in two different ways, TWI's team has shown that both tube cutting for size reduction and concrete scabbling for removal of contaminated surface layers can be conducted in a safe, remote and efficient manner.

The objective of this book is to present a comprehensive picture, first of the fundamentals of general contamination of solid surfaces and water, and in the second part, to review the main practical procedures and means of applied decontamination used in the fields of activity. The most emphasis on radioactive contamination deals with

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decontamination of the operational facilities in nuclear power plants. Other special decontamination branches of current interest are also dealt with briefly. The art of decontamination is being enriched by the progress achieved in relevant scientific disciplines and employs these relative advances. The current volume discusses in detail the following trends in decontamination: Firstly, the development and use of new decontamination methods that are highly efficient, non-aggressive to decontaminated materials, and economically feasible; secondly, the utilization of progressive elements of automation and robotics; thirdly, the development and use of such decontamination formulations that would minimize the volume of wastes and would produce wastes in a form in which they could be either easily further treated or safely disposed of without risk to human health or the environment; finally, the choice of suitable materials used both for the structural and the technological parts of nuclear installations with regard to their minimal contaminability and ease of decontamination.

Past decontamination and solvent recovery activities at the Idaho Chemical Processing Plant (ICPP) have resulted in the accumulation of 1.5 million gallons of radioactively contaminated sodium-bearing liquid waste. Future decontamination activities at the ICPP could

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result in the production of 5 million gallons or more of sodium-bearing waste using the current decontamination techniques of chemical/water flushes and steam jet cleaning. With the curtailment of reprocessing at the ICPP, the focus of decontamination is shifting from maintenance for continued operation of the facilities to decommissioning. As decommissioning plans are developed, new decontamination methods must be used which result in higher decontamination factors and generate lower amounts of sodium-bearing secondary waste. The primary initiative of the WINCO Decontamination Development Program is the development of methods to eliminate/minimize the use of sodium-bearing decontamination chemicals. One method that was chosen for cold scoping studies during FY-93 was abrasive grit blasting. Abrasive grit blasting has been used in many industries and a vast amount of research and development has already been conducted. However, new grits, process improvements and ICPP applicability was investigated. This evaluation report is a summary of the research efforts and scoping tests using the liquid abrasive grit blasting decontamination technique. The purpose of these scoping tests was to determine the effectiveness of three different abrasive grits: plastic beads, glass beads and alumina oxide.

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Reports and articles on decommissioning have been reviewed to determine the current technology status and also attempt to identify potential decommissioning problem areas. It is concluded that technological road blocks, which limited decommissioning facilities in the past have been removed. In general, techniques developed by maintenance in maintaining the facility have been used to decommission facilities. Some of the more promising development underway which will further simplify decommissioning activities are: electrolytic decontamination which simplifies some decontaminating operations; arc saw and vacuum furnace which reduce the volume of metallic contaminated material by a factor of 10; remotely operated plasma torch which reduces personnel exposure; and shaped charges, water cannon and rock splitters which simplify concrete removal. Areas in which published data are limited are detailed costs identifying various components included in the total cost and also the quantity of waste generated during the decommissioning activities. With the increased awareness of decommissioning requirements as specified by licensing requirements, design criteria

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for new facilities are taking into consideration final decommissioning of buildings. Specific building design features will evolve as designs are evaluated and implemented.

The Savannah River Site is investigating decontamination technology to improve current decontamination techniques, and thereby reduce radiation exposure to plant personnel, reduce uptake of radioactive material, and improve safety during decontamination and decommissioning activities. When decontamination chemicals are applied as foam and gels, the contact time and cleaning ability of the chemical increases. Foam and gel applicators apply foam or gel that adheres to the surface being decontaminated for periods ranging from fifteen minutes (foam) to infinite contact (gel). This equipment was started up in a cold environment. The desired foam and gel consistency was achieved, operators were trained in its proper maintenance and operation, and the foam and gel were applied to walls, ceilings, and hard to reach surfaces. 17 figs.

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