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SUPERVISION OF A HAZARDOUS WASTE REPOSITORY

THE ENVIRONMENTAL MONITORING OF A RADIOACTIVE WASTE REPOSITORY, THE SAFETY ZONES

In the paper the problems connected with the storage of radioactive waste as a part of the dangerous waste group and applying the attitude to facility management was elaborated. The theme focuses on the storage of the energetic waste, applying the concepts and terminology of nuclear energetics.

One result of the paper is the zones denotation of a typical surface storage. The second one is the division of measurements for environmental safety from the technological main process, which in practice is closely applicable. We differ slightly from today's practice in both cases at the classification and at dividing into groups also.

To approach the theme a systematization of today's practice concepts was needed. The requirements for the plan and for the modification of a self-dependent repository or in a power plant located one can be approached to each other with the consequent application of the gathered concepts which are hardly available for facility managers. The unified requirements for the facilities of the waste repository provide the possibility of the change of the technical experiences, the separation of the business process and the application of the facility management principle approach.

There is no compilation of this area so this paper's survey can be applied for the planning operations of a new nuclear waste repository as a reference book. The systematization will provide help with the technological literature to the expert who works in a non nuclear area.

The paper summarizes the types of radioactive waste, gives the main processes of storage from many security view points, and the part processes of the security works.

For the generalization of the results the layout and buildings of a typical repository is presented.

The view of safety regulation system and the international benchmarking are the objectives of the paper, which also contains how to put the zone definition principle into practice. The classifications of the repository plant and the rooms of the production building based on zone principle are drawn up in the paper.

The measurements of the supervision related to the plant operational environment have great importance from the view of facility management. The environmental supervision system mentioned in the paper is first suitable for putting the principles into practice and to prepare the undertaking of an enterprise.