

RP Issues at the decommissioning stage of NPPs

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Decommissioning of nuclear power plants (NPPs) is a subject of growing importance for the nuclear industry as the number of facilities in decommissioning increase everywhere in the world. During decommissioning of NPPs, economics, technical and organizational challenges are encountered.

For works performed in decommissioning facilities, feedback from maintenance in operational plants may not be fully considered as activities associated with dismantling have some specificities. The presentation associated with this abstract will address the main challenges encountered during decommissioning works like:

- Age of facilities that implies specificities (old designs, lack of knowledge of history,...);
- Cutting and removal of big components – may be similar to some large tasks performed in plant in operation but need to be adapted;
- Evolving environment (source term, radiological conditions, removal of components,...);
- Presence of multiple pollutants (asbestos, lead, chemicals,...) that will require an integrated risk management
- Radionuclides different from operation (increased risk of internal exposure, lack of feedback,...)

The presentation will focus on some of these topics with an input of some French working groups results as well as Lessons Learned from the ISOE Working Group on Radiological Protection Aspects of Decommissioning Activities at Nuclear Power Plants (WGDECOM).