

Dismantle/De-commission and Disposal of a UIC Machine

At the end of life of the UIC machine dismantling requires special attention in order to maximize health and environmental safety. All procedures should be risk assessed by a qualified Health, Safety and Environmental Management specialist. An environmental plan must be in place to provide specific guidance on how the environment will be protected from ground, water and air emissions.

It is important that all equipment used in the dismantling process should contain no reactive metal parts. Contact between certain metals could result in an explosion. Similarly, a robust emergency plan must be in place to deal with any unforeseen incidents.

DISMANTLING PROCEDURES

- All procedures should be risk-assessed by a qualified health, safety and environmental management specialist.
- An environmental plan must be in place to provide guidance on how the environment will be protected from ground, water and air emissions.
- All equipment used in the process should contain no reactive metal parts.
- Steps should be taken to reduce the flammable atmosphere.
- An emergency plan must be in place to deal with unforeseen incidents.

WORKER SAFETY

Worker safety issues should be paramount throughout any decontamination and dismantling process. A range of actions can be taken to maximize worker safety and health.

- **EXPERIENCE AND TRAINING:** Workers should have experience and be provided with training on hazards and precautions to be taken.
- **MASK AREA:** A mask area should be established around the worksite: inside of this area appropriate respiratory protective equipment should be worn. Lead-in-air measurements should be taken at regular intervals around the mask area perimeter.
- **PROTECTIVE EQUIPMENT:** Personal protective equipment should be donned, if necessary, in a designated clean area and doffed in a designated dirty area to avoid cross-contamination. Contaminated equipment should be decontaminated immediately after use.
- **LEAD TESTING:** Blood and urine of all workers should be tested for lead content prior to the start of the project and once the project is completed. These tests should be conducted by a laboratory with experience and proven competence to carry them out.