



Decommissioning Waste Handling

Best Practice in Decommissioning – Sella Park

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24 March 2010

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Decommissioning and Waste Management

- The first by-product of any decommissioning project large or small is waste
- Waste will be produced at the first decommissioning activity in any programme
- The nature of the waste may vary greatly but waste will always need early consideration



Waste Considerations (1)

- **The Contract scope**
- **Nature of facility to be decommissioned**
- **Types of waste (non hazardous, hazardous, radioactive)**
- **Waste characterisation**
- **Provenance**
- **Facility attributes**
- **Segregation and establishment of physically separate routes**

Waste Considerations (2)

- **Cost benefit analysis**
- **Waste processing facility (surface decontamination, size reduction)**
- **Programme sequencing**
- **Waste disposal routes available**
- **Establishment of new waste routes/approvals**
- **Transport and waste package requirements**
- **Dedicated Waste Team (training and appointments)**

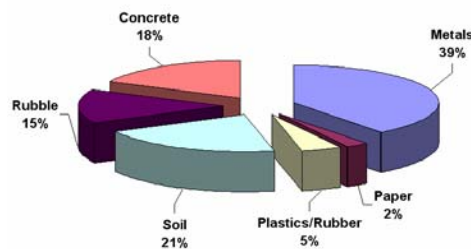
The Contract Scope

- Define and clarify waste responsibilities within the contract for the contractor and the client
- Clearly define the types of waste within the contract scope
- Recycling and Re-use
- Identify and produce the waste strategy



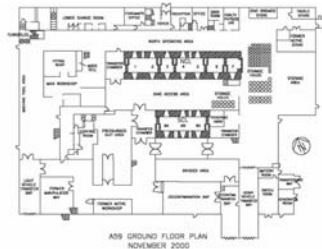
Waste Characterisation

- All waste to be included
- Active waste criterion to be clearly understood and agreed
- Review and explore routes available



Segregation by use of physically separate routes

- Utilise existing facility attributes
- Establish temporary waste processing facilities
- Train the team



Segregation by use of physically separate routes



Confirm transport and waste package requirements

- Confirm transport and package requirements in accordance with the contract
- Ensure procedures and authorisations are in place



Examples of Waste Handling in Decommissioning

Examples of Decommissioning and Waste Management

- In situ surface decontamination
- Monitoring
- Segregation (removal of activity or active items)
- Innovative size reduction
- Sentencing
- Lifting and handling
- Waste packing

In Situ Surface Decontamination



Monitoring



Size reduction



De-cladding cave station blocks using a Petrogen Oxy-gasoline torch (WBS_4.15.2-4.2.8)



Segregation



Innovative size reduction



Innovative size reduction



Size reduction and sentencing



Lifting and Handling



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Lifting and Handling



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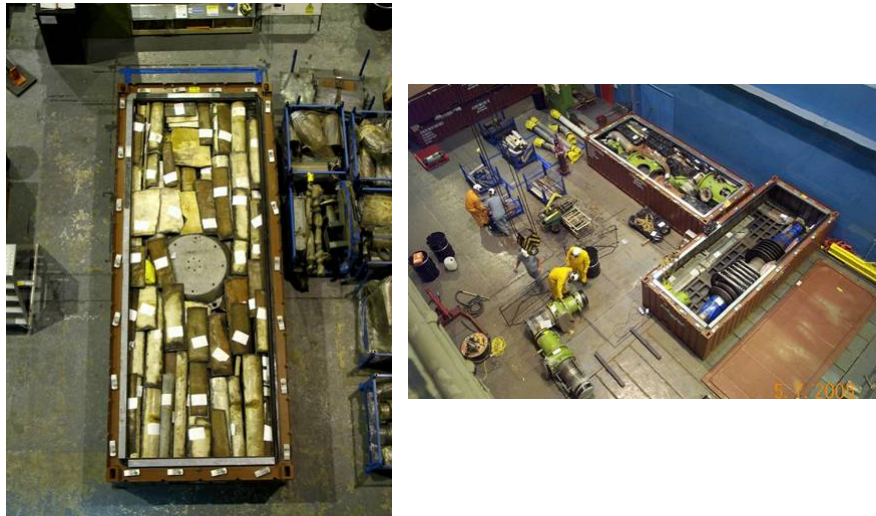
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Waste Packing



Summary

- Decommissioning and Waste Management
- Establish your waste strategy very early
- Consider waste processing in your programme
- Consider recycling, re-use
- Cost savings
- Communication and training