

Obsolete Pesticides Conference Utrecht  
Milieukontakt International  
26 September 2008

## Monitoring and Validation

## Alternative Technologies

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## Topics

- Evaluation prior to process selection
- Building monitoring into permitting process
- Monitoring of performance
- Waste and treatment reports
- Operational logbooks

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## Evaluation

- **Operational Experience**
- **Overall Waste and Material Balance**
- **Process Description**
- **Operations Costs**
- **Investment Costs**

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## Build Monitoring into Permitting Process

1. **Contractual Relationship**
2. **EIA/IPPC**
3. **Start Up and Operational Periods**

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## Monitoring of Performance

1. **Continuous Monitoring**
2. **Authorised Measurement**
3. **Semi Continuous Measurement**
  - 3.1 POP's target chemicals
  - 3.2 Breakdown products
  - 3.3 Dioxins
4. **Site Inspections**

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## Waste and Treatment Reports

1. **Monthly Waste Report**
  - 1.1 Input and Output Quantities
  - 1.2 Analytical Results
  - 1.3 Certificates of Exported Materials

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## Logbook

1. **Agreed Format and Content**
  - 1.1 Plants running/shutdown each shift
  - 1.2 Input quantities
  - 1.3 Materials removed after QC confirmation
  - 1.4 Re-processed materials
  - 1.5 Energy consumption
  
2. **Weekly Inspection of Logbook(s)**
  - 2.1 Standardised format facilitates inspection
  - 2.2 Mechanism for answering questions

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## Validation

1. **Yearly Waste Report**
2. **Financial Evaluation**
3. **Does it make Sense?**