

Commission Implementing Decision of 26 September 2014 establishing the best available techniques (BAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for the production of pulp, paper and board (notified under document C(2014) 6750) (Text with EEA relevance) (2014/687/EU)

- Article 1 The BAT conclusions for the production of pulp, paper and...  
Article 2 This Decision is addressed to the Member States.

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ANNEX

BAT CONCLUSIONS FOR THE PRODUCTION OF PULP, PAPER AND BOARD

SCOPE

GENERAL CONSIDERATIONS

EMISSION LEVELS ASSOCIATED WITH BAT

AVERAGING PERIODS FOR EMISSIONS TO WATER

REFERENCE CONDITIONS FOR EMISSIONS TO AIR

Conversion to reference oxygen concentration

AVERAGING PERIODS FOR EMISSIONS TO AIR

DEFINITIONS

ACRONYMS

1.1. GENERAL BAT CONCLUSIONS FOR THE PULP AND PAPER INDUSTRY

- 1.1.1. Environmental management system  
BAT 1. In order to improve the overall environmental performance of plants...

Applicability

- 1.1.2. Materials management and good housekeeping  
BAT 2. BAT is to apply the principles of good housekeeping for...  
BAT 3. In order to reduce the release of not readily biodegradable...

- 1.1.3. Water and waste water management  
BAT 4. In order to reduce the generation and the pollution load...  
BAT 5. In order to reduce fresh water use and generation of...

- 1.1.4. Energy consumption and efficiency  
BAT 6. In order to reduce fuel and energy consumption in pulp...

Description

- 1.1.5. Emissions of odour  
BAT 7. In order to prevent and reduce the emission of odorous...  
1.1.6. Monitoring of key process parameters and of emissions to water...

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- BAT 8. BAT is to monitor the key process parameters according to...
- BAT 9. BAT is to carry out the monitoring and measurement of...
- BAT 10. BAT is to carry out the monitoring of emissions to...
- BAT 11. BAT is to regularly monitor and assess diffuse total reduced...
- Description
- 1.1.7. Waste management
  - BAT 12. In order to reduce the quantities of wastes sent for...
- 1.1.8. Emissions to water
  - BAT 13. In order to reduce nutrient (nitrogen and phosphorus) emissions into...
  - Applicability
  - BAT 14. In order to reduce emissions of pollutants into receiving waters,...
  - BAT 15. When further removal of organic substances, nitrogen or phosphorus is...
  - BAT 16. In order to reduce emissions of pollutants into receiving waters...
- 1.1.9. Emissions of noise
  - BAT 17. In order to reduce the emissions of noise from pulp...
- 1.1.10. Decommissioning
  - BAT 18. In order to prevent pollution risks when decommissioning a plant,...
- 1.2. BAT CONCLUSIONS FOR KRAFT PULPING PROCESS
  - 1.2.1. Waste water and emissions to water
    - BAT 19. In order to reduce emissions of pollutants into receiving waters...
    - BAT-associated emission levels
  - 1.2.2. Emissions to air
    - 1.2.2.1. Reduction of emissions in strong and weak odorous gases
      - BAT 20. In order to reduce odour emissions and total reduced sulphur...
      - Applicability
    - 1.2.2.2. Reduction of emissions from a recovery boiler
      - SO<sub>2</sub> and TRS emissions
      - BAT 21. In order to reduce SO<sub>2</sub> and TRS emissions from a...
      - BAT-associated emission levels
      - NO<sub>x</sub> emissions
      - BAT 22. In order to reduce NO<sub>x</sub> emissions from a recovery boiler,...
      - Applicability
      - BAT-associated emission levels
      - Dust emissions
      - BAT 23. In order to reduce dust emissions from a recovery boiler,...
      - Description
      - BAT-associated emission levels
    - 1.2.2.3. Reduction of emissions from a lime kiln
      - SO<sub>2</sub> emissions
      - BAT 24. In order to reduce SO<sub>2</sub> emissions from a lime kiln,...
      - BAT-associated emission levels
      - TRS emissions

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- BAT 25. In order to reduce TRS emissions from a lime kiln,...
  - BAT-associated emission levels
- NOx emissions
- BAT 26. In order to reduce NOx emissions from a lime kiln,...
  - BAT-associated emission levels
- Dust emissions
- BAT 27. In order to reduce dust emissions from a lime kiln,...
  - Description
  - BAT-associated emission levels
- 1.2.2.4. Reduction of emissions from a burner for strong odorous gases...
  - BAT 28. In order to reduce SO2 emissions from the incineration of...
    - BAT-associated emission levels
  - BAT 29. In order to reduce NOx emissions from the incineration of...
    - BAT-associated emission levels
- 1.2.3. Waste generation
  - BAT 30. In order to prevent waste generation and minimise the amount...
    - Applicability
- 1.2.4. Energy consumption and efficiency
  - BAT 31. In order to reduce thermal energy consumption (steam), maximise the...
    - BAT 32. In order to increase the efficiency of power generation, BAT...
- 1.3. BAT CONCLUSIONS FOR THE SULPHITE PULPING PROCESS
  - 1.3.1. Waste water and emissions to water
    - BAT 33. In order to prevent and reduce emissions of pollutants into...
      - BAT-associated emission levels
  - 1.3.2. Emissions to air
    - BAT 34. In order to prevent and reduce SO2 emissions, BAT is...
    - BAT 35. In order to prevent and reduce diffuse sulphur-containing and odorous...
      - BAT 36. In order to reduce NOx emissions from a recovery boiler,...
        - BAT-associated emission levels
      - BAT 37. In order to reduce dust and SO2 emissions from a...
        - BAT-associated emission levels
  - 1.3.3. Energy consumption and efficiency
    - BAT 38. In order to reduce thermal energy consumption (steam), maximise the...
      - BAT 39. In order to increase the efficiency of power generation, BAT...
- 1.4. BAT CONCLUSIONS FOR MECHANICAL PULPING AND CHEMIMECHANICAL PULPING
  - 1.4.1. Waste water and emissions to water
    - BAT 40. In order to reduce fresh water use, waste water flow,...
      - BAT-associated emission levels
  - 1.4.2. Energy consumption and efficiency
    - BAT 41. In order to reduce the consumption of thermal and electrical...
- 1.5. BAT CONCLUSIONS FOR PROCESSING PAPER FOR RECYCLING
  - 1.5.1. Materials management

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- BAT 42. In order to prevent the contamination of soil and groundwater...
- 1.5.2. Waste water and emissions to water
  - BAT 43. In order to reduce fresh water use, waste water flow,...
  - BAT 44. In order to maintain advanced water circuit closure in mills...
    - Applicability
  - BAT 45. In order to prevent and reduce the pollution load of...
    - BAT-associated emission levels
- 1.5.3. Energy consumption and efficiency
  - BAT 46. BAT is to reduce electrical energy consumption within RCF processing...
- 1.6. BAT CONCLUSIONS FOR PAPERMAKING AND RELATED PROCESSES
  - 1.6.1. Waste water and emissions to water
    - BAT 47. In order to reduce the generation of waste water, BAT...
    - BAT 48. In order to reduce fresh water use and emissions to...
    - BAT 49. In order to reduce emission loads of coating colours and...
    - BAT 50. In order to prevent and reduce the pollution load of...
      - BAT-associated emission levels
  - 1.6.2. Emissions to air
    - BAT 51. In order to reduce VOC emissions from off-line or on-line...
  - 1.6.3. Waste generation
    - BAT 52. In order to minimise the amount of solid waste to...
  - 1.6.4. Energy consumption and efficiency
    - BAT 53. In order to reduce the consumption of thermal and electrical...
- 1.7. DESCRIPTION OF TECHNIQUES
  - 1.7.1. Description of techniques for the prevention and control of emissions...
    - 1.7.1.1. Dust
    - 1.7.1.2. NO<sub>x</sub>
    - 1.7.1.3. SO<sub>2</sub>/TRS emissions prevention and control
  - 1.7.2. Description of techniques to reduce fresh water use/waste water flow...
    - 1.7.2.1. Process integrated techniques
    - 1.7.2.2. Waste water treatment
  - 1.7.3. Description of techniques for waste generation prevention and waste management...

Document Generated: 2023-10-21

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- (1) [OJ L 334, 17.12.2010, p. 17.](#)
- (2) [OJ C 146, 17.5.2011, p. 3.](#)
- (3) <https://circabc.europa.eu/w/browse/6516b21a-7f84-4532-b0e1-52d411bd0309>

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**Changes and effects yet to be applied to :**

- [Art. 2 substituted by S.I. 2018/1407 reg. 12\(2\)](#)