

Commission Implementing Decision of 9 October 2014 establishing best available techniques (BAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions, for the refining of mineral oil and gas (notified under document C(2014) 7155) (Text with EEA relevance) (2014/738/EU)

- Article 1 The BAT conclusions for the refining of mineral oil and...
Article 2 This Decision is addressed to the Member States.

ANNEX

BAT CONCLUSIONS FOR THE REFINING OF MINERAL OIL AND GAS

SCOPE

GENERAL CONSIDERATIONS

Averaging periods and reference conditions for emissions to air
Conversion of emissions concentration to reference oxygen level
Averaging periods and reference conditions for emissions to water

DEFINITIONS

- 1.1. General BAT conclusions for the refining of mineral oil and...
- 1.1.1. Environmental management systems
BAT 1. In order to improve the overall environmental performance of plants...
Applicability
 - 1.1.2. Energy efficiency
BAT 2. In order to use energy efficiently, BAT is to use...
 - 1.1.3. Solid materials storage and handling
BAT 3. In order to prevent or, where that is not practicable,...
 - 1.1.4. Monitoring of emissions to air and key process parameters
BAT 4. BAT is to monitor emissions to air by using the...
BAT 5. BAT is to monitor the relevant process parameters linked to...
BAT 6. BAT is to monitor diffuse VOC emissions to air from...
Description
 - 1.1.5. Operation of waste gas treatment systems
BAT 7. In order to prevent or reduce emissions to air, BAT...
Description
BAT 8. In order to prevent and reduce ammonia (NH₃) emissions to...
BAT 9. In order to prevent and reduce emissions to air when...
 - 1.1.6. Monitoring of emissions to water
BAT 10. BAT is to monitor emissions to water by using the...
 - 1.1.7. Emissions to water
BAT 11. In order to reduce water consumption and the volume of...
BAT 12. In order to reduce the emission load of pollutants in...
BAT 13. When further removal of organic substances or nitrogen is needed,...

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- 1.1.8. Waste generation and management
 - BAT 14.In order to prevent or, where that is not practicable,...
 - BAT 15.In order to reduce the amount of sludge to be...
 - BAT 16.In order to reduce the generation of spent solid catalyst...
- 1.1.9. Noise
 - BAT 17.In order to prevent or reduce noise, BAT is to...
- 1.1.10. BAT conclusions for integrated refinery management
 - BAT 18.In order to prevent or reduce diffuse VOC emissions, BAT...
- 1.2. BAT conclusions for the alkylation process
 - 1.2.1. Hydrofluoric acid alkylation process
 - BAT 19.In order to prevent hydrofluoric acid (HF) emissions to air...
 - Description
 - Applicability:
 - BAT 20.In order to reduce emissions to water from the hydrofluoric...
 - 1.2.2. Sulphuric acid alkylation process
 - BAT 21.In order to reduce the emissions to water from the...
- 1.3. BAT conclusions for base oil production processes
 - BAT 22.In order to prevent and reduce the emissions of hazardous...
- 1.4. BAT conclusions for the bitumen production process
 - BAT 23.In order to prevent and reduce emissions to air from...
- 1.5. BAT conclusions for the fluid catalytic cracking process
 - BAT 24.In order to prevent or reduce NOX emissions to air...
 - I. Primary or process-related techniques, such as:
 - II. Secondary or end-of-pipe techniques, such as:
 - BAT 25.In order to reduce dust and metals emissions to air...
 - I. Primary or process-related techniques, such as:
 - II. Secondary or end-of-pipe techniques, such as:
 - BAT 26.In order to prevent or reduce SOX emissions to air...
 - I. Primary or process-related techniques, such as:
 - II. Secondary or end-of-pipe techniques, such as:
 - BAT 27.In order to reduce carbon monoxide (CO) emissions to air...
- 1.6. BAT conclusions for the catalytic reforming process
 - BAT 28.In order to reduce emissions of polychlorinated dibenzodioxins/furans (PCDD/F) to...
- 1.7. BAT conclusions for the coking processes
 - BAT 29.In order to reduce emissions to air from the coking...
 - BAT 30.In order to reduce NOX emissions to air from the...
 - Description
 - Applicability
 - BAT 31.In order to reduce SOX emissions to air from the...
 - BAT 32.In order to reduce dust emissions to air from the...
- 1.8. BAT conclusions for the desalting process
 - BAT 33.In order to reduce water consumption and emissions to water...
- 1.9. BAT conclusions for the combustion units
 - BAT 34.In order to prevent or reduce NOX emissions to air...
 - I. Primary or process-related techniques, such as:
 - II. Secondary or end-of-pipe techniques, such as:
 - BAT 35.In order to prevent or reduce dust and metal emissions...
 - I. Primary or process-related techniques, such as:
 - II. Secondary or end-of-pipe techniques, such as:
 - BAT 36.In order to prevent or reduce SOX emissions to air...
 - I. Primary or process-related techniques based on a selection or a...
 - II. Secondary or end-of-pipe techniques:

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- BAT 37. In order to reduce carbon monoxide (CO) emissions to air...
- Description
- 1.10. BAT conclusions for the etherification process
- BAT 38. In order to reduce emissions to air from the etherification...
- BAT 39. In order to prevent upset of the biotreatment, BAT is...
- 1.11. BAT conclusions for the isomerisation process
- BAT 40. In order to reduce emissions to air of chlorinated compounds,...
- 1.12. BAT conclusions for the natural gas refinery
- BAT 41. In order to reduce sulphur dioxide emissions to air from...
- BAT 42. In order to reduce nitrogen oxides (NOX) emissions to air...
- BAT 43. In order to prevent emissions of mercury when present in...
- 1.13. BAT conclusions for the distillation process
- BAT 44. In order to prevent or reduce waste water flow generation...
- Applicability
- BAT 45. In order to prevent or reduce water pollution from the...
- BAT 46. In order to prevent or reduce emissions to air from...
- Applicability
- 1.14. BAT conclusions for the products treatment process
- BAT 47. In order to reduce emissions to air from the products...
- Applicability
- BAT 48. In order to reduce waste and waste water generation when...
- 1.15. BAT conclusions for storage and handling processes
- BAT 49. In order to reduce VOC emissions to air from the...
- Description
- Applicability
- BAT 50. In order to reduce VOC emissions to air from the...
- BAT 51. In order to prevent or reduce emissions to soil and...
- BAT 52. In order to prevent or reduce VOC emissions to air...
- 1.16. BAT conclusions for visbreaking and other thermal processes
- BAT 53. In order to reduce emissions to water from visbreaking and...
- 1.17. BAT conclusions for waste gas sulphur treatment
- BAT 54. In order to reduce sulphur emissions to air from off-gases...
- 1.18. BAT conclusions for flares
- BAT 55. In order to prevent emissions to air from flares, BAT...
- BAT 56. In order to reduce emissions to air from flares when...
- 1.19. BAT conclusions for integrated emission management
- BAT 57. In order to achieve an overall reduction of NOX emissions...
- Description
- Table 18 BAT-associated emission levels for NO_x emissions to air when applying...
- Notes:
1. The applicable reference conditions for oxygen are those specified in...
 2. The weighing of the emission levels of the individual units...
 3. In case of substantial and structural fuel changes which are...
- BAT 58. In order to achieve an overall reduction of SO₂ emissions...
- Description
- Table 19 BAT-associated emission levels for SO₂ emissions to air when applying...
- Notes:

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1. The applicable reference conditions for oxygen are those specified in...
2. The weighing of the emission levels of the individual units...
3. In case of substantial and structural fuel changes which are...

GLOSSARY

- 1.20. Description of techniques for the prevention and control of emissions...
 - 1.20.1. Dust
 - 1.20.2. Nitrogen oxides (NOX)
 - 1.20.3. Sulphur oxides (SOX)
 - 1.20.4. Combined techniques (SOx, NOx and dust)
 - 1.20.5. Carbon monoxide (CO)
 - 1.20.6. Volatile organic compounds (VOC)
 - 1.20.7. Other techniques
- 1.21. Description of techniques for the prevention and control of emissions...
 - 1.21.1. Waste water pretreatment
 - 1.21.2. Waste water treatment

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- (1) [OJ L 334, 17.12.2010, p. 17.](#)
- (2) [OJ C 146, 17.5.2011, p. 3.](#)

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Changes and effects yet to be applied to :

- [Art. 2 substituted by S.I. 2018/1407 reg. 13\(2\)](#)