Changes to legislation: There are outstanding changes not yet made to Commission Implementing Decision of 26 March 2013 establishing the best available techniques (BAT) conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for the production of cement, lime and magnesium oxide (notified under document C(2013) 1728) (Text with EEA relevance) (2013/163/EU). Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

Commission Implementing Decision of 26 March 2013 establishing the best available techniques (BAT) conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for the production of cement, lime and magnesium oxide (notified under document C(2013) 1728) (Text with EEA relevance) (2013/163/EU)

Article 1 The BAT conclusions for the production of cement, lime and...

Article 2 This Decision is addressed to the Member States. Signature

ANNEX

BAT CONCLUSIONS FOR THE PRODUCTION OF CEMENT, LIME AND MAGNESIUM OXIDE

SCOPE

'3.1. Production of cement, lime and magnesium oxide', which involve:

NOTE ON THE EXCHANGE OF INFORMATION

DEFINITIONS

Definition for certain products Definition for certain air pollutants Abbreviations

GENERAL CONSIDERATIONS

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

BAT CONCLUSIONS

- 1.1 General BAT conclusions
 - 1.1.1 Environmental management systems (EMS)
 - 1. In order to improve the overall environmental performance of the...

Applicability

- 1.1.2 Noise
 - 2. In order to reduce/minimise noise emissions during the manufacturing processes...
- 1.2 BAT conclusions for the cement industry
 - 1.2.1 General primary techniques
 - 3. In order to reduce emissions from the kiln and use...
 - 4. In order to prevent and/or reduce emissions, BAT is to...

 Description
 - 1.2.2 Monitoring
 - 5. BAT is to carry out the monitoring and measurements of...

 Description
 - 1.2.3 Energy consumption and process selection

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1.2.3.1 Process selection

6. In order to reduce energy consumption, BAT is to use...

Description

Applicability

BAT-associated energy consumption levels

1.2.3.2 Energy consumption

7. In order to reduce/minimise thermal energy consumption, BAT is to...

Description

8. In order to reduce primary energy consumption, BAT is to...

Description

Applicability

9. In order to reduce primary energy consumption, BAT is to...

Description

Applicability

10. In order to reduce/minimise electrical energy consumption, BAT is to...

1.2.4 Use of waste

- 1.2.4.1 Waste quality control
 - 11. In order to guarantee the characteristics of the wastes

Description

- 1.2.4.2 Waste feeding into the kiln
 - 12. In order to ensure appropriate treatment of the wastes used...
- 1.2.4.3 Safety management for the use of hazardous waste materials
 - 13. BAT is to apply safety management for the storage, handling...

1.2.5 Dust emissions

- 1.2.5.1 Diffuse dust emissions
 - 14. In order to minimise/prevent diffuse dust emissions from dusty operations,...
 - 15. In order to minimise/prevent diffuse dust emissions from bulk storage...
- 1.2.5.2 Channelled dust emissions from dusty operations
 - 16. In order to reduce channelled dust emissions, BAT is to...

Description

BAT-associated emission levels

- 1.2.5.3 Dust emissions from kiln firing processes
 - 17. In order to reduce dust emissions from flue-gases of kiln...

BAT-associated emission levels

- 1.2.5.4 Dust emissions from cooling and milling processes
 - 18. In order to reduce dust emissions from the flue-gases of...

BAT-associated emission levels

1.2.6 Gaseous compounds

- 1.2.6.1 NOx emissions
 - 19. In order to reduce the emissions of NOx from the...

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BAT-associated emission levels

20. When SNCR is used, BAT is to achieve efficient NOx...

Applicability

BAT-associated emission levels

1.2.6.2 SOx emissions

21. In order to reduce/minimise the emissions of SOx from the...

Description

BAT-associated emission levels

22. In order to reduce SO2 emissions from the kiln, BAT...

Description

Applicability

1.2.6.3 CO emissions and CO trips

1.2.6.3. Reduction of CO trips

23 In order to minimise the frequency of CO trips

Description

1.2.6.4 Total organic carbon emissions (TOC)

In order to keep the emissions of TOC from the...

1.2.6.5 Hydrogen chloride (HCl) and hydrogen fluoride (HF) emissions

> 25. In order prevent/reduce the emissions of HCl from flue-gases of...

BAT-associated emission levels

26. In order to prevent/reduce the emissions of HF from the...

BAT-associated emission levels

1.2.7 PCDD/F emissions

In order to prevent emissions of PCDD/F or to keep...

BAT-associated emission levels

Metal emissions 1.2.8

> 28. In order to minimise the emissions of metals from the...

> > BAT-associated emission levels

1.2.9 Process losses/waste

> 29. In order to reduce solid waste from the cement manufacturing...

> > Description

BAT conclusions for the lime industry 1.3

> 1.3.1 General primary techniques

30. In order to reduce all kiln emissions and use energy...

Applicability

31. In order to prevent and/or reduce emissions, BAT is to...

Description

Applicability

1 3 2 Monitoring

> BAT is to carry out monitoring and measurements of process... 32. Description

Energy consumption 1.3.3

33. In order to reduce/minimise thermal energy consumption, BAT is to...

BAT-associated consumption levels

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34. In order to minimise electrical energy consumption, BAT is to...

Description – Technique (b)

- 1.3.4 Consumption of limestone
 - 35. In order to minimise limestone consumption, BAT is to use...
- 1.3.5 Selection of fuels
 - 36. In order to prevent/reduce emissions, BAT is to carry out...

Description

Applicability

- 1.3.5.1 Use of waste fuels
 - 1.3.5.1. Waste quality control
 - 37. In order to guarantee the characteristics of waste to be...
 - 1.3.5.1.2Waste feeding into the kiln
 - 38. In order to prevent/reduce emissions occurring from the use of...
 - 1.3.5.1. Safety management for the use of hazardous waste materials
 - 39. In order to prevent accidental emissions, BAT is to use...

Description

- 1.3.6 Dust emissions
 - 1.3.6.1 Diffuse dust emissions
 - 40. In order to minimise/prevent diffuse dust emissions from dusty operations,...

Applicability

- 41. In order to minimise/prevent diffuse dust emissions from bulk storage...
- 1.3.6.2 Channelled dust emissions from dusty operations other than those from...
 - 42. In order to reduce channelled dust emissions from dusty operations...

BAT-associated emission levels

- 1.3.6.3 Dust emissions from kiln firing processes
 - 43. In order to reduce dust emissions from the flue-gases of...

BAT-associated emission levels

- 1.3.7 Gaseous compounds
 - 1.3.7.1 Primary techniques for reducing emissions of gaseous compounds
 - 44. In order to reduce the emissions of gaseous compounds (i.e....
 - 1.3.7.2 NOx emissions
 - 45. In order to reduce the emissions of NOX from the...

BAT-associated emission levels

46. When SNCR is used, BAT is to achieve efficient NOx...

Applicability

BAT-associated emission levels

- 1.3.7.3 SOx emissions
 - 47. In order to reduce the emissions of SOx from the...

BAT-associated emission levels

1.3.7.4 CO emissions and CO trips

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1.3.7.4. ICO emissions

48. In order to reduce the emissions of CO from the...

BAT-associated emission levels

1.3.7.4.2Reduction of CO trips

49. In order to minimise the frequency of CO trips when...

Description

Applicability

1.3.7.5 Total organic carbon emissions (TOC)

50. In order to reduce the emissions of TOC from the...

Applicability

BAT-associated emission levels

- 1.3.7.6 Hydrogen chloride (HCl) and hydrogen fluoride (HF) emissions
 - 51. In order to reduce the emissions of HCl and the...

Applicability

BAT-associated emission levels

- 1.3.8 PCDD/F emissions
 - 52. In order to prevent or reduce the emissions of PCDD/F...
 BAT-associated emission levels
- 1.3.9 Metal emissions
 - 53. In order to minimise the emissions of metals from the...

BAT-associated emission levels

- 1.3.10 Process losses/waste
 - 4. In order to reduce the solid wastes from the lime...
- 1.4 BAT conclusions for the magnesium oxide industry
 - 1.4.1 Monitoring
 - 55. BAT is to carry out monitoring and measurements of process...

 Description
 - 1.4.2 Energy consumption
 - 56. In order to reduce thermal energy consumption, BAT is to... BAT-associated consumption levels
 - 57. In order to minimise electrical energy consumption, BAT is to...
 - 1.4.3 Dust emissions
 - 1.4.3.1 Diffuse dust emissions
 - 58. In order to minimise/prevent diffuse dust emissions from dusty operations,...
 - 1.4.3.2 Channelled dust emissions from dusty operations other than kiln firing...
 - 59. In order to reduce channelled dust emissions from dusty operations...

BAT-associated emission levels

- 1.4.3.3 Dust emissions from the kiln firing process
 - 60. In order to reduce dust emissions from the flue-gases of...

BAT-associated emission levels

- 1.4.4 Gaseous compounds
 - 1.4.4.1 General primary techniques for reducing emissions of gaseous compounds
 - 61. In order to reduce the emissions of gaseous compounds (i.e....

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1.4.4.2 NOx emissions

62. In order to reduce the emissions of NOx from the...

BAT-associated emission levels

1.4.4.3 CO emissions and CO trips

1.4.4.3.1CO emissions

63. In order to reduce the emissions of CO from the...

Applicability

BAT-associated emission levels

1.4.4.3.2 Reduction of CO trips

64. In order to minimise the number of CO trips when...

Description Applicability

1.4.4.4 SOx emissions

65. In order to reduce the emissions of SOx from the... BAT-associated emission levels

1.4.5 Process losses/waste

66. In order to reduce/minimise process losses/waste, BAT is to reuse...

Applicability

67. In order to reduce/minimise process losses/waste, BAT is to utilise...

Applicability

68. In order to reduce/minimise process losses/waste, BAT is to reuse.

Applicability

- 1.4.6 Use of wastes as fuels and/or raw materials
 - 69. In order to guarantee the characteristics of waste to be... Applicability

DESCRIPTION OF TECHNIQUES

- 1.5 Description of techniques for the cement industry
 - 1.5.1 Dust emissions
 - 1.5.2 NOx emissions
 - 1.5.3 SOx emissions
- 1.6 Description of techniques for lime industry
 - 1.6.1 Dust emissions
 - 1.6.2 NOx emissions
 - 1.6.3 SOx emissions
- 1.7 Description of techniques for the magnesia industry (dry process route)...
 - 1.7.1 Dust emissions
 - 1.7.2 SOx emissions

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- (1) OJ L 334, 17.12.2010, p. 17.
- (2) OJ C 146, 17.5.2011, p. 3.
- (3) http://circa.europa.eu/Public/irc/env/ied/library?l=/ied_art_13_forum/opinions_article

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View outstanding changes

Changes and effects yet to be applied to:

- Art. 2 substituted by S.I. 2018/1407 reg. 10(2)