



VISUAL NOx RATING SCALE

AUSTRALIAN EXPLOSIVES
INDUSTRY AND SAFETY GROUP

2011





Australian Explosives Industry And Safety Group Inc.

Code of Practice

**PREVENTION AND
MANAGEMENT OF
BLAST GENERATED NO_x
GASES IN SURFACE BLASTING**






**Edition 2
August 2011**

Australian Explosives Industry And Safety Group Inc.



APPENDIX 2 - VISUAL NOx GASES RATING SCALE

The following table, together with the Field Colour Chart in Appendix 3, details how NOx gases from a surface blast can be assessed.

Level	Typical Appearance
Level 0 No NOx gas	
Level 1 Slight NOx gas	
1A Localised	
1B Medium	
1C Extensive	
Level 2 Minor yellow/orange gas	
2A Localised	
2B Medium	
2C Extensive	
Level 3 Orange gas	
3A Localised	
3B Medium	
3C Extensive	
Level 4 Orange/red gas	
4A Localised	
4B Medium	
4C Extensive	
Level 5 Red/purple gas	
5A Localised	
5B Medium	
5C Extensive	

Assessing the amount of NOx gases produced from a blast will depend on the distance the observer is from the blast and the prevailing weather conditions. The intensity of the NOx gases produced in a blast should be measured on a simple scale from 0 to 5 based on the table above. The extent of the NOx gases also needs to be assessed and this should be done on a simple scale from A to C where:-




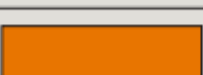
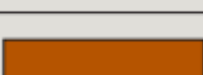
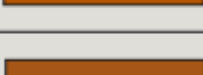
- A = Localised (ie NOx Gases localised across only a few blast holes)
- B = Medium (ie NOx Gases from up to 50% of blast holes in the shot)
- C = Extensive (ie Extensive generation of NOx Gases across the whole blast)

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APPENDIX 3 - FIELD COLOUR CHART

Pantone colour numbers have been included in the following Field Colour Chart to ensure colours will be produced correctly thereby ensuring a reasonable level of standardisation in reporting NOx gas events across the blasting industry.

Level	Colour	Pantone Number
Level 0 No NOx gas		Warm Grey 1C (RGB 244, 222, 217)
Level 1 Slight NOx gas		Pantone 155C (RGB 244, 219, 170)
Level 2 Minor yellow/orange gas		Pantone 157C (RGB 237, 160, 79)
Level 3 Orange gas		Pantone 158C (RGB 232, 117, 17)
Level 4 Orange/red gas		Pantone 1525C (RGB 181, 84, 0)
Level 5 Red/purple gases		Pantone 161C (RGB 99, 58, 17)