

# Protection of the Environment Operations (Clean Air) Regulation 2010

under the

Protection of the Environment Operations Act 1997

Her Excellency the Governor, with the advice of the Executive Council, has made the following Regulation under the *Protection of the Environment Operations Act* 1997.

### FRANK SARTOR, MP

Minister for Climate Change and the Environment

# Explanatory note

The object of this Regulation is to remake, with some amendments, the *Protection of the Environment Operations (Clean Air) Regulation 2002* which is repealed on 1 September 2010 by section 10 (2) of the *Subordinate Legislation Act 1989*.

The Regulation revises the local government areas in which the control of burning provisions apply, provides for an automatic exemption from the requirement to fit certain anti-pollution devices to certain table-top trucks used on farms (an application for exemption is currently required), revises the percentage ethanol content for petrol to be considered *prescribed blended petrol* and makes other minor amendments.

This Regulation makes provision with respect to the following:

- (a) domestic solid fuel heaters,
- (b) the control of burning,
- (c) emissions from motor vehicles and motor vehicle fuels,
- (d) emissions from activities and plant,
- (e) the control of volatile organic liquids,
- (f) limits on the sulphur content of liquid fuel,
- (g) the offences under this Regulation that may be dealt with by way of a penalty notice,
- (h) savings and formal matters.

This Regulation is made under the *Protection of the Environment Operations Act 1997*, including sections 128 (1), 154 (1) (definition of *prescribed anti-pollution device*) and (2), 159, 161 (5) and (7), 222 and 323 (the general regulation-making power) and Schedule 2.

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Clause 1 Protection of the Environment Operations (Clean Air) Regulation 2010

Part 1 Preliminary

# Protection of the Environment Operations (Clean Air) Regulation 2010

under the

Protection of the Environment Operations Act 1997

# Part 1 Preliminary

#### 1 Name of Regulation

This Regulation is the *Protection of the Environment Operations (Clean Air) Regulation 2010.* 

#### 2 Commencement

This Regulation commences on 1 September 2010.

**Note.** This Regulation replaces the *Protection of the Environment Operations* (*Clean Air*) *Regulation 2002* which is repealed on 1 September 2010 by section 10 (2) of the *Subordinate Legislation Act 1989*.

#### 3 Definitions

(1) In this Regulation:

Approved Methods (Modelling and Assessment) Publication means the document entitled Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales prepared by the EPA and published in the Gazette, as in force from time to time.

*Approved Methods (Sampling and Analysis) Publication* means the document entitled *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales* prepared by the EPA and published in the Gazette, as in force from time to time.

*CEM*, together with a number, means a monitoring method of that number prescribed by the Approved Methods (Sampling and Analysis) Publication.

*Central Coast Metropolitan Area* means the local government areas of Gosford City and Wyong.

Greater Metropolitan Area means:

- (a) the Central Coast Metropolitan Area, and
- (b) the Newcastle Metropolitan Area, and
- (c) the Sydney Metropolitan Area—B, and
- (d) the Wollongong Metropolitan Area, and

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Clause 3 Part 1

(e) the local government areas of Cessnock City, Kiama, City of Lithgow, Maitland City, Mid-Western Regional, Muswellbrook, Port Stephens, Shoalhaven City and Singleton.

*monitoring method* means a continuous emissions monitoring method prescribed by the Approved Methods (Sampling and Analysis) Publication.

*Newcastle Metropolitan Area* means the local government areas of Lake Macquarie City and Newcastle City.

*Sydney Metropolitan Area* means the local government areas of Ashfield, Auburn, Bankstown City, Blacktown City, Botany Bay City, Burwood, Camden, Campbelltown City, Canada Bay, Canterbury City, Fairfield City, Hawkesbury City, Holroyd City, Hornsby, Hunter's Hill, Hurstville City, Kogarah, Ku-ring-gai, Lane Cove, Leichhardt, Liverpool City, Manly, Marrickville, Mosman, North Sydney, Parramatta City, Penrith City, Pittwater, Randwick City, Rockdale City, Ryde City, Strathfield, Sutherland Shire, City of Sydney, The Hills Shire, Warringah, Waverley, Willoughby City and Woollahra.

*Sydney Metropolitan Area—B* means the local government areas of Ashfield, Auburn, Bankstown City, Blacktown City, Blue Mountains City, Botany Bay City, Burwood, Camden, Campbelltown City, Canada Bay, Canterbury City, Fairfield City, Hawkesbury City, Holroyd City, Hornsby, Hunter's Hill, Hurstville City, Kogarah, Ku-ring-gai, Lane Cove, Leichhardt, Liverpool City, Manly, Marrickville, Mosman, North Sydney, Parramatta City, Penrith City, Pittwater, Randwick City, Rockdale City, Ryde City, Strathfield, Sutherland Shire, City of Sydney, The Hills Shire, Warringah, Waverley, Willoughby City, Wingecarribee, Wollondilly and Woollahra.

*test method* means a test method prescribed by the Approved Methods (Sampling and Analysis) Publication.

the Act means the Protection of the Environment Operations Act 1997.

*TM*, together with a number, means a test method of that number prescribed by the Approved Methods (Sampling and Analysis) Publication.

*Wollongong Metropolitan Area* means the local government areas of Shellharbour City and Wollongong City.

(2) Notes included in this Regulation do not form part of this Regulation.

Clause 4 Protection of the Environment Operations (Clean Air) Regulation 2010

Part 2 Domestic solid fuel heaters

# Part 2 Domestic solid fuel heaters

#### 4 Definitions

In this Part:

*central heating appliance* has the meaning given to it in Standard 4013. *certificate of compliance* means a certificate issued by a body approved by the EPA, being a certificate certifying that all heaters of a particular model comply with Standard 4013.

*certificate of exemption* means a certificate issued by a body approved by the EPA, being a certificate exempting all heaters of a particular model from compliance with Standard 4013.

*heater* means any solid fuel burning appliance that is designed, manufactured or adapted for domestic use.

*model* of heater means a particular design of heater made by a particular manufacturer.

**Standard 4013** means the document entitled AS/NZS 4013:1999, *Domestic solid fuel burning appliances—Method for determination of flue gas emission*, published by Standards Australia and as in force from time to time.

#### 5 Application of Part

This Part applies to heaters (including the wholesale and retail sale of heaters). However, this Part does not apply to the wholesale and retail sale of heaters of the following kind:

- (a) any masonry appliance built on site,
- (b) any central heating appliance,
- (c) any cooking stove appliance as defined in Standard 4013,
- (d) any appliance intended for use solely for heating water,
- (e) any appliance intended for use solely for distributing heat through ducts.

#### 6 Requirement for certificates of compliance

- (1) A person must not sell a heater to any other person unless:
  - (a) the heater is marked in accordance with Standard 4013, and
  - (b) a certificate of compliance is in force in relation to heaters of the same model as that heater, and

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(c) in the case of a sale to a person whose business includes the wholesale or retail sale of heaters, a copy of the certificate has been given to the purchaser.

Maximum penalty: 200 penalty units (in the case of a corporation) or 100 penalty units (in the case of an individual).

(2) This clause does not apply to a heater of a model for which a certificate of exemption is in force.

#### 7 Interference with heaters

- (1) A person must not:
  - (a) alter the structure, exhaust system or inlet air system of any heater of a model to which a certificate of compliance or certificate of exemption relates, or
  - (b) mark on a heater that it complies with Standard 4013 if the heater is not of a model that is the subject of a certificate of compliance.Maximum penalty: 200 penalty units (in the case of a corporation) or 100 penalty units (in the case of an individual).
- (2) This clause extends to any person who causes or permits the doing of a thing that is prohibited under this clause.
- (3) Nothing in this clause makes it an offence for a person to carry out any repair work on any heater (including repairs or alterations in accordance with a notice under section 96 of the Act).

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Part 3 Control of burning

# Part 3 Control of burning

# Division 1 Preliminary

#### 8 Definitions

In this Part:

approval means an approval in force under Division 3.

*domestic waste* means waste (other than vegetation) that is of a kind and quantity ordinarily generated on domestic premises.

*domestic waste management services* has the same meaning as it has in the *Local Government Act 1993*.

**Note.** The *Local Government Act 1993* defines **domestic waste management services** as services comprising the periodic collection of domestic waste from individual parcels of rateable land and services that are associated with those services.

#### **9** Application of Part

This Part does not apply to or in respect of the following:

- (a) the carrying out of emergency bush fire hazard reduction work (within the meaning of the *Rural Fires Act 1997*),
- (b) the destruction, by means of burning, of any prohibited plant or prohibited drug under the *Drug Misuse and Trafficking Act 1985*,
- (c) the destruction, by means of burning, of an animal that has died, or is reasonably suspected to have died, as the result of a disease proclaimed under the *Stock Diseases Act 1923* or an emergency animal disease (within the meaning of the *Animal Diseases (Emergency Outbreaks) Act 1991*).

**Note.** In addition to section 133 of the Act (which allows the EPA to prohibit the burning of fires in the open or in incinerators) and the prohibitions imposed by this Part, other legislative controls exist in relation to the lighting of fires (for example, see the *Rural Fires Act 1997*, the *Native Vegetation Act 2003* and the *Threatened Species Conservation Act 1995*).

### Division 2 Control of burning generally

#### 10 General obligation to prevent or minimise air pollution

(1) A person who burns anything in the open or in an incinerator must do so by such practicable means as are necessary to prevent or minimise air pollution.

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Control of burning

Part 3

- (2) Without limiting subclause (1), the means of preventing or minimising air pollution may include the following:
  - (a) taking into account the potential for smoke impacting on any person having regard to:
    - (i) wind direction, and
    - (ii) weather conditions, and
    - (iii) the length of time that the material being burnt is likely to burn,
  - (b) taking reasonable measures to ensure that the material being burnt is not wet,
  - (c) burning only material that is suitable for disposal by burning, having regard to possible effects on human health and the environment.

#### 11 Prohibition on burning certain articles

- (1) A person must not burn a prohibited article:
  - (a) in the open, or
  - (b) in an incinerator that is not authorised or controlled by a licence under the Act.

- (2) It is not an offence under this clause to burn a tyre for the purposes of the giving of instruction in methods of fire fighting by an officer or member of a fire fighting authority (within the meaning of the *Rural Fires Act 1997*), or by a fire control officer (within the meaning of the *Rural Fires Act 1997*), when acting in his or her official capacity.
- (3) The EPA may, by written notice given to a public authority, exempt the public authority from the operation of subclause (1).
- (4) The EPA may grant such an exemption only in relation to the burning of prohibited articles in the course of any of the following activities:
  - (a) research to improve safety in relation to the flammability of materials and smoke reduction (including the development of testing procedures),
  - (b) training of fire-fighters,
  - (c) rating of the effectiveness of fire extinguishers and fire suppression systems,
  - (d) testing undertaken to certify that manufactured or imported products comply with Australian Standards or International Standards or meet any legislative requirements placed on them.

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Part 3 Control of burning

- (5) An exemption:
  - (a) is subject to any conditions that may be specified in the written notice by which it is granted, and
  - (b) may be amended or revoked by means of a further written notice given to the public authority, and
  - (c) unless sooner revoked by the EPA, remains in force:
    - (i) for a period of 12 months from the date it is granted, or
    - (ii) for such other period as is specified in the written notice by which it is granted, and
  - (d) extends to apply to any person acting at the direction of the public authority to which it is granted.
- (6) In this clause, *prohibited article* means any of the following:
  - (a) tyres,
  - (b) coated wire,
  - (c) paint containers and residues,
  - (d) solvent containers and residues,
  - (e) timber treated with copper chromium arsenate (CCA) or pentachlorophenol (PCP).

# Division 3 Control of burning in local government areas

#### 12 Offences

- (1) A person must not burn anything:
  - (a) in the open, or
  - (b) in an incinerator,

in a local government area specified in Part 1 of Schedule 8 except in accordance with an approval.

Maximum penalty: 100 penalty units (in the case of a corporation) or 50 penalty units (in the case of an individual).

- (2) A person must not burn any vegetation:
  - (a) in the open, or
  - (b) in an incinerator,

in a local government area specified in Part 2 of Schedule 8 except in accordance with an approval.

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- (3) A person must not burn anything (other than vegetation):
  - (a) in the open, or
  - (b) in an incinerator,

in a local government area specified in Part 3 of Schedule 8 except in accordance with an approval.

- (4) It is not an offence under this clause:
  - (a) to cook or barbecue in the open, or to light, maintain or use a fire for recreational purposes such as camping, picnicking, scouting or other similar outdoor activities, so long as only dry seasoned wood, liquid petroleum gas (LPG), natural gas or proprietary barbecue fuel (including a small quantity of fire starter) is used, or
  - (b) to burn vegetation, in the course of carrying on agricultural operations, on premises on which the vegetation grew, including:
    - (i) the burning of vegetation for the purposes of clearing (other than for construction), or
    - (ii) the burning of stubble, orchard prunings, diseased crops, weeds or pest animal habitats on farms, or
    - (iii) the burning of pasture for regenerative purposes, or
  - (c) to burn anything for the purposes of the giving of instruction in methods of fire fighting by any of the following persons when acting in his or her official capacity:
    - (i) an officer or member of a fire fighting authority (within the meaning of the *Rural Fires Act 1997*),
    - (ii) a fire control officer (within the meaning of the *Rural Fires Act 1997*),
    - (iii) an industrial fire control officer, or
  - (d) to burn anything under the authority of, and in accordance with, a bush fire hazard reduction certificate issued under the *Rural Fires Act 1997*, or
  - (e) to burn anything in an incinerator that is authorised or controlled by a licence under the Act, or
  - (f) to burn anything in an incinerator that:
    - (i) is equipped with a primary and secondary furnace, and
    - (ii) is designed, maintained and operated in a manner that ensures the maintenance of appropriate temperatures for the complete combustion of anything that the incinerator is

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Part 3 Control of burning

designed to burn and prevents the escape of sparks or other burning material, and

- (iii) is equipped with suitable equipment that is designed, maintained and operated for the purposes of controlling air impurities in the exhaust gas once the incineration process has been completed, and
- (iv) is not installed in a residential building comprising home units, flats or apartments, or
- (g) to burn air impurities by the process known as flaring if the flare is designed, maintained and operated so as to prevent or minimise air pollution.

Note. See clause 49 (a) for an operating requirement for flares.

(5) It is not an offence under subclause (3) to burn domestic waste on residential premises in a local government area specified in Part 3 of Schedule 8, being premises on which the waste was generated, if domestic waste management services are not available to those premises.

#### 13 Approval for certain fires or incinerators

**Note.** An approval may be granted so as to permit burning in circumstances where it would otherwise be prohibited under this Division.

However, burning may still be prohibited by an order of the EPA under section 133 of the Act or by an order under the *Rural Fires Act 1997*.

- (1) The EPA may grant an approval for the purposes of this Part:
  - (a) to any class of persons—by means of a notice published in the Gazette, or
  - (b) to any particular person—by means of a written notice given to the person.
- (2) The council of a local government area specified in Part 2 of Schedule 8 may grant an approval for the purposes of this Part in respect of the burning of dead and dry vegetation on the premises on which the vegetation grew in the local government area:
  - (a) to any class of persons—by means of a notice published in a local newspaper circulating in the local government area, or
  - (b) to any particular person—by means of a written notice given to the person.
- (3) Before granting an approval for the purposes of this Part, the EPA or local council concerned must take the following matters into consideration:
  - (a) the impact on regional air quality and amenity,
  - (b) the impact on local air quality and amenity,

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- (c) the feasibility of re-use, recycling or other alternative means of disposal,
- (d) any opinions of the sector of the public likely to be affected by the proposed approval,
- (e) in the case of an approval under subclause (2) (a)—any opinions of the EPA in relation to the proposed approval.

#### (4) An approval:

- (a) is subject to such conditions (if any) as are specified in the notice by which the approval is granted, and
- (b) may be amended or revoked by means of a notice given or published in the same way as the original notice granting the approval was given or published, and
- (c) remains in force for a period of 12 months (or such other period as is specified in, or implied by, the approval) from the date it is granted unless sooner revoked by the authority that granted it.

Clause 14 Protection of the Environment Operations (Clean Air) Regulation 2010

Part 4 Motor vehicles and motor vehicle fuels

# Part 4 Motor vehicles and motor vehicle fuels

#### Division 1 Interpretation

#### 14 Definitions

In this Part:

**ADR** or **Australian Design Rule** means a national standard under the *Motor Vehicle Standards Act 1989* of the Commonwealth as in force from time to time.

complying exhaust pipe—see clause 18.

*diesel engine* means an engine that is designed to operate on automotive diesel fuel.

*excessive air impurities* has the same meaning as it has in Part 5.8 of the Act.

**goods vehicle** means a motor vehicle constructed primarily for the carriage of goods, but does not include a special purpose motor vehicle. **manufacturer's gross vehicle mass**, in relation to a vehicle, means the maximum loaded mass of the vehicle:

- (a) specified by the manufacturer, or
- (b) specified by the Roads and Traffic Authority in circumstances in which:
  - (i) the manufacturer is unknown, or
  - (ii) the manufacturer has failed to specify a maximum loaded mass for the vehicle, or
  - (iii) the manufacturer has specified a maximum loaded mass for the vehicle, but the vehicle has been modified to the extent that the manufacturer's specification is no longer appropriate for the vehicle.

*motor bus* means a passenger vehicle that seats more than 9 adult persons (including the driver).

*motor cycle* includes a motor tricycle and a motor cycle combination.

*passenger vehicle* means a motor vehicle constructed primarily for the carriage of persons, but does not include a motor cycle.

petrol has the same meaning as it has in Part 5.8 of the Act.

*prescribed anti-pollution device* has the same meaning as it has in Part 5.8 of the Act.

*refine*, in relation to petrol, includes refine crude petroleum or shale oil. *registered*, in relation to a motor vehicle, means registered under the *Road Transport (Vehicle Registration) Act 1997.* 

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*spark-ignition engine* means an engine that is designed to operate on petrol, liquefied petroleum gas or compressed natural gas, being an engine that has its air-fuel mixture ignited by means of an electrical spark.

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*special purpose motor vehicle* means a fork lift truck or motor vehicle constructed principally for off-road agricultural use or for use in road or building site construction work, and includes:

- (a) a tractor, harvester, header, thresher, swather, baler, cuber, loader, digger, bulldozer, excavator, grader, scraper and roller, and
- (b) a mobile crane the engine of which is used for the purpose of both lifting loads and propelling the vehicle,

but does not include any vehicle constructed on a chassis of a type normally used in the construction of a goods vehicle.

supply includes:

- (a) sell by wholesale, retail, auction or tender, and
- (b) offer to supply, and
- (c) barter or exchange, and
- (d) supply for profit, and
- (e) consign or deliver for sale, and
- (f) cause or permit anything referred to above.

# Division 2 Air impurities

#### 15 Excessive air impurities

- (1) This clause applies to motor vehicles propelled by a spark-ignition or diesel engine.
- (2) For the purposes of section 154 (2) (a) of the Act, a motor vehicle emits excessive air impurities if, when in operation, it emits air impurities in excess of such a standard of concentration that air impurities are visible for a continuous period of more than 10 seconds when determined in accordance with TM-31.
- (3) For the purposes of section 154 (2) (b) of the Act, a motor vehicle emits excessive air impurities if, when tested in accordance with TM-31, it emits air impurities in excess of an amount per test that results in air impurities being visible for a continuous period of more than 10 seconds.

Clause 16 Protection of the Environment Operations (Clean Air) Regulation 2010

Part 4 Motor vehicles and motor vehicle fuels

#### 16 Motor vehicles emitting excessive air impurities

- An owner of a motor vehicle is guilty of an offence if the vehicle emits excessive air impurities while being used.
   Maximum penalty: 400 penalty units (in the case of a corporation) or 200 penalty units (in the case of an individual).
- (2) It is a defence to a prosecution for an offence under this clause if the owner proves that the motor vehicle was at the time of the commission of the offence a stolen motor vehicle or a motor vehicle illegally taken or used.
- (3) It is a defence to a prosecution for an offence under this clause if the defendant proves that the motor vehicle:
  - (a) was constructed or has been modified solely for use in motor racing or off-road motor sport, and
  - (b) was not registrable under the *Road Transport (Vehicle Registration) Act 1997.*

# Division 3 Prescribed anti-pollution devices

#### 17 Prescribed anti-pollution devices

For the purposes of the definition of *prescribed anti-pollution device* in section 154 (1) of the Act, each of the following devices is prescribed as a device that is designed or intended to minimise air pollution caused by motor vehicles:

- (a) an evaporative emission control system—being a system of devices and equipment that is designed to trap the evaporative emissions from a motor vehicle's fuel tank and fuel supply system and so restrict their release to the atmosphere,
- (b) a fuel supply system—being a system of devices and equipment that is designed:
  - (i) to convey fuel to a direct injection engine, or
  - (ii) to convey fuel to an engine's air intake system, to mix the fuel with air and to convey the mixture of fuel and air into the engine,
- (c) an engine ignition system—being a system of devices and equipment that is designed to ignite the fuel, or the mixture of fuel and air, in a motor vehicle's engine,
- (d) an engine management system—being a system of devices and equipment that is designed to control the operation of a motor vehicle's fuel supply system and engine ignition system,

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- (e) a smoke-limiting throttle control system—being a system of devices and equipment that is designed to limit the maximum rate at which fuel can go into a diesel-engined motor vehicle and so reduce the amount of smoke emitted by the motor vehicle while it is being accelerated,
- (f) an exhaust gas recirculation system—being a system of devices and equipment that is designed to convey exhaust gases from a spark ignition engine to the engine's air intake system for the purpose of reducing the amount of oxygen in the mixture of air and fuel going into the engine and so reducing the amount of oxides of nitrogen emitted by the engine,
- (g) a catalytic converter system—being a system of devices and equipment that is designed to induce a catalytic reaction between the various exhaust gases that are emitted from a motor vehicle's engine and so reduce the emission of air impurities by the motor vehicle,
- (h) a complying exhaust pipe.

### 18 Fitting of certain anti-pollution devices to be compulsory

A motor vehicle that is propelled by a diesel engine and that has a manufacturer's gross vehicle mass of more than 4.5 tonnes must be fitted with a *complying exhaust pipe* which means, for the purposes of this Regulation:

- (a) in the case of a motor vehicle for which, as at the date of its manufacture, an Australian Design Rule prescribed requirements with respect to the exhaust pipe to be fitted to it, a vertical exhaust pipe that complies with those requirements, or
- (b) in any other case, an exhaust pipe:
  - (i) that terminates 150 millimetres or more above the highest part of the vehicle's cab, and
  - (ii) whose exhaust vent is directed upwards (within 30 degrees of the vertical) and away from the nearside of the vehicle.

### 19 Complying exhaust pipe not required for certain vehicles

The following motor vehicles are not required to have a complying exhaust pipe:

- (a) a motor vehicle that was manufactured before 1 January 1976,
- (b) a motor vehicle that was ordered from the manufacturer before 1 July 1974,
- (c) a motor bus that was manufactured before 1 January 1977,
- (d) a special purpose motor vehicle,

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- (e) a motor vehicle used exclusively for the control of bush fires,
- (f) a motor vehicle fitted with hydraulically operated elevating work platforms,
- (g) a motor vehicle used exclusively to fuel aircraft,
- (h) a motor vehicle having a diesel engine of a type certified in writing by the EPA as not requiring a complying exhaust pipe,
- (i) a motor vehicle manufactured in compliance with ADR 80/01, ADR 80/02 or any subsequent ADR that imposes emission limits no less stringent than ADR 80/02,
- (j) a motor vehicle that:
  - (i) is a rigid table-top truck, and
  - (ii) is used predominantly to transport hay or other flammable farm produce, and
  - (iii) is usually garaged on a farm,
- (k) a motor vehicle that is registered outside New South Wales,
- (1) a motor vehicle that is sold in New South Wales for delivery outside New South Wales.

### Division 4 Use and maintenance of motor vehicles

#### 20 Maintenance of vehicles

For the purposes of section 159 of the Act, a motor vehicle that is required to have a complying exhaust pipe must be maintained so that the exhaust pipe is free of holes (other than holes necessary for the effective operation of the exhaust system).

#### 21 Use of motor vehicle requires anti-pollution device

(1) An owner of a motor vehicle who uses the motor vehicle, or causes or allows it to be used, must ensure that each anti-pollution device that is required by this Regulation to be fitted to the motor vehicle is fitted to the motor vehicle in the required manner.

- (2) It is a defence to a prosecution for an offence under this clause if the defendant proves that, at the time the offence was committed:
  - (a) the defendant had reasonable grounds to believe, and did believe, that the motor vehicle was fitted with every prescribed anti-pollution device required by this Regulation to be fitted to the motor vehicle, and

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- (b) the defendant took all reasonable steps to ensure that every such device was fitted in the required manner.
- (3) It is a defence to a prosecution for an offence under this clause if the defendant proves that the motor vehicle:
  - (a) was constructed or has been modified solely for use in motor racing or off-road motor sport, and
  - (b) was not registrable under the *Road Transport (Vehicle Registration) Act 1997.*

#### 22 Maintenance, service and adjustment of motor vehicles

- An owner of a motor vehicle who uses the motor vehicle, or causes or allows it to be used, must ensure that the motor vehicle is serviced, maintained or adjusted as required by this Regulation.
   Maximum penalty: 400 penalty units (in the case of a corporation) or 200 penalty units (in the case of an individual).
- (2) It is a defence to a prosecution for an offence under this clause if the defendant proves that the defendant took all reasonable steps to ensure that the motor vehicle was serviced, maintained or adjusted as required by this Regulation.

#### 23 Removal or adjustment of anti-pollution devices

- (1) The owner of a motor vehicle who uses the motor vehicle, or causes or allows it to be used, must ensure that at the time of that use, any anti-pollution device that has been fitted to the motor vehicle has not been:
  - (a) removed, disconnected or impaired, or
  - (b) adjusted or modified and the adjustment or modification results in the emission of excessive air impurities by the motor vehicle.

- (2) It is a defence to a prosecution for an offence under this clause if the defendant proves:
  - (a) that the removal, disconnection, impairment, adjustment or modification was done:
    - (i) in order to service, repair or replace the anti-pollution device or to improve its efficiency with respect to minimising air pollution, or
    - (ii) in order to facilitate the use of a motor vehicle for motor racing or off-road motor sport (being a motor vehicle that immediately before that removal or other action was not registrable under the *Road Transport (Vehicle*)

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*Registration) Act 1997*) and that the vehicle is to be used in that condition only in the competition itself, or

- (b) that, at the time the offence was committed:
  - (i) the defendant had reasonable grounds to believe, and did believe, that any anti-pollution device that had been fitted to the motor vehicle continued to be fitted to the motor vehicle, and
  - (ii) the defendant took all reasonable steps to ensure that the device was properly maintained.
- (3) In this clause, *anti-pollution device* means a prescribed anti-pollution device or any other device that is designed to minimise air pollution.

#### 24 Notices to repair motor vehicles

For the purposes of section 161 (5) and (7) of the Act, the prescribed label is a label in or to the effect of Form 1 in Schedule 1.

#### Division 5 Transfer of petrol

#### 25 Transfer of petrol into fuel tanks of motor vehicles

- (1) This clause applies to all premises from which petrol is sold to the public.
- (2) The occupier of premises to which this clause applies must not, at those premises, transfer, or allow the transfer of, any petrol into a motor vehicle's fuel tank except by means of a petrol delivery hose whose nozzle is fitted with an automatic over-fill protection device. Maximum penalty: 40 penalty units.
- (3) A person must not, at premises to which this clause applies, transfer petrol into the fuel tank of a motor vehicle by means of a petrol delivery hose unless the nozzle of the hose is inserted as far as it will go into the fuel tank's fill-pipe.

Maximum penalty: 8 penalty units.

- (4) In this clause, *automatic over-fill protection device* means a device:
  - (a) that immediately cuts off the flow of petrol into the fuel tank when the tip of the nozzle becomes immersed in petrol, and
  - (b) that is properly installed and efficiently maintained.

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### Division 6 Petrol volatility

#### 26 Definitions

In this Division:

*base petrol* means petrol that does not contain ethanol.

*blend*, in relation to petrol, means combine petroleum-based products with ethanol.

*low volatility zone* means the area consisting of the following local government areas:

Ashfield, Auburn, Bankstown City, Blacktown City, Blue Mountains City, Botany Bay City, Burwood, Camden, Campbelltown City, Canada Bay, Canterbury City, Cessnock City, Fairfield City, Gosford City, Hawkesbury City, Holroyd City, Hornsby, Hunter's Hill, Hurstville City, Kiama, Kogarah, Ku-ring-gai, Lake Macquarie City, Lane Cove, Leichhardt, City of Lithgow, Liverpool City, Maitland City, Manly, Marrickville, Mosman, Muswellbrook, Newcastle City, North Sydney, Parramatta City, Penrith City, Pittwater, Port Stephens, Randwick City, Rockdale City, Ryde City, Shellharbour City, Shoalhaven City, Singleton, Strathfield, Sutherland Shire, City of Sydney, The Hills Shire, Warringah, Waverley, Willoughby City, Wingecarribee, Wollondilly, Wollongong City, Woollahra, Wyong.

*month*, in relation to summer, includes each of the periods from 15 November to 30 November (inclusive) and 1 March to 15 March (inclusive).

*monthly volumetric average vapour pressure* of petrol means the monthly volumetric average vapour pressure of the petrol as calculated in accordance with clause 27.

*petrol supplier* means a person who imports petrol into this State for supply by the person (whether the petrol was obtained from another State or Territory or from another country) or refines or blends petrol in this State.

*prescribed blended petrol* means petrol containing 4 per cent or more of ethanol by volume but not more than 10 per cent of ethanol by volume.

*summer* of a particular year means the period commencing on 15 November in that year and ending on 15 March (inclusive) in the following year.

*vapour pressure* of petrol means the volatility of the petrol at 37.8 degrees Celsius measured:

(a) in accordance with ASTM D4953-06 *Standard Test Method for Vapor Pressure of Gasoline and Gasoline-Oxygenate Blends (Dry Method)* as in force from time to time and as published by ATSM International, or

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(b) in accordance with such other method as the EPA may approve in writing in respect of petrol supplied by a particular petrol supplier (such approval may be made on application by the petrol supplier and the EPA may, by notice in writing given to the petrol supplier, revoke or vary any such approval).

#### 27 Monthly volumetric average vapour pressure

- (1) For the purposes of this Division, *monthly volumetric average vapour pressure* of petrol supplied in a particular month of summer by a petrol supplier is to be calculated as follows:
  - (a) a sample is to be taken from each batch of the petrol supplied in the month by the petrol supplier,
  - (b) the vapour pressure of each sample taken is to be multiplied by a fraction that equals the volume of the petrol in the batch from which the sample was taken divided by the total volume of the petrol supplied in the relevant month,
  - (c) the figures calculated in accordance with paragraph (b) for each sample of petrol are to be added together and the resulting figure is the monthly volumetric average vapour pressure.
- (2) One test method only is to be used in measuring vapour pressure to calculate the monthly volumetric average vapour pressure for a particular month.

#### 28 Vapour pressure of petrol

- (1) A petrol supplier must not supply petrol in the low volatility zone in any summer if the vapour pressure of the petrol is more than:
  - (a) in the case of prescribed blended petrol—71 kPa, or
  - (b) in the case of any other petrol—64 kPa.

Maximum penalty: 400 penalty units (in the case of a corporation) or 200 penalty units (in the case of an individual).

(2) A petrol supplier who imports petrol into this State, or refines petrol in this State, must ensure that the monthly volumetric average vapour pressure of so much of that petrol (other than blended petrol) as is supplied by the petrol supplier in the low volatility zone in a summer is not more than 62 kPa.

- (3) It is a defence to any proceedings against a person for an offence under subclause (1) if the defendant establishes that:
  - (a) the petrol concerned was prescribed blended petrol, and

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- (b) the defendant had reasonable grounds to believe, and did believe, that the vapour pressure of the base petrol used in the blended petrol complied with subclause (1) (b) based on documentation supplied to the defendant by the supplier of the base petrol, and
- (c) the defendant did not know, and had no reasonable grounds to suspect, that the documentation was false or misleading in a material respect.
- (4) It is a defence to any proceedings against a person for an offence under this clause if the defendant establishes that the petrol concerned:
  - (a) was supplied by way of retail sale by the defendant from a petrol service station, and
  - (b) was stored, immediately before the commencement of the summer in which it was supplied, at the petrol service station.
- (5) It is a defence to any proceedings against a person for an offence under this clause if the defendant establishes that the petrol concerned was supplied solely for one of the following purposes and the defendant believed on reasonable grounds that the petrol would be used solely for that purpose:
  - (a) use in a motor vehicle in a motor racing event conducted on a motor vehicle racing ground in respect of which a licence is in force under the *Motor Vehicle Sports (Public Safety) Act 1985* or in a test of a motor vehicle for any such event,
  - (b) use in a motor vehicle in a Homebush motor race authorised to be conducted under the *Homebush Motor Racing (Sydney 400) Act 2008* or in a test of a motor vehicle for any such event,
  - (c) the purpose of testing to determine the composition, quality or characteristics of the petrol.
- (6) A person is not guilty of an offence against subclause (1) or (2) in respect of any act or omission that was authorised or required by an order, proclamation, regulation or direction made or given under Part 6 of the *Energy and Utilities Administration Act 1987*.
- (7) If such an order, proclamation, regulation or direction is in force for part of a month in summer, it is taken, for the purposes of subclause (6) (in so far as it relates to an offence against subclause (2)), to have been in force for the whole of the month.
- (8) In this clause, *petrol service station* has the same meaning as it has in Part 6.

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#### 29 Record keeping

(1) A petrol supplier who supplies petrol in the low volatility zone during summer must keep records in relation to that petrol, in accordance with this clause, for a period of at least 2 years.

- (2) The following records are to be kept in relation to petrol that is prescribed blended petrol:
  - (a) if the petrol was blended in a tanker truck:
    - (i) the volume of prescribed blended petrol contained in each tanker truck, and
    - (ii) the ethanol content by volume of the petrol in each tanker truck,
  - (b) if the petrol was blended otherwise than in a tanker truck:
    - (i) the volume of prescribed blended petrol in each batch, and
    - (ii) the ethanol content by volume of each batch.
- (3) The following records are to be kept in relation to blended petrol that is not prescribed blended petrol:
  - (a) if the petrol was blended in a tanker truck:
    - (i) the vapour pressure of at least 4 samples of blended petrol taken each month from different tanker trucks on separate days and at regular intervals, and
    - (ii) the date or dates on which the vapour pressure of the samples was tested, and
    - (iii) the test method used to determine the vapour pressure of the blended petrol, and
    - (iv) the volume of blended petrol contained in each tanker truck from which the samples of petrol were taken for testing, and
    - (v) the volume of blended petrol contained in each tanker truck from which a sample was not taken for testing, and
    - (vi) the ethanol content by volume of each tanker truck of petrol from which the samples were taken for testing,
  - (b) if the petrol was blended otherwise than in a tanker truck:
    - (i) the vapour pressure of a sample of blended petrol taken from each batch, and
    - (ii) the date or dates on which the vapour pressure of the samples was tested, and

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- (iii) the test method used to determine the vapour pressure of the blended petrol, and
- (iv) the volume of blended petrol in each batch, and
- (v) the ethanol content by volume of each batch.
- (4) The following records are to be kept in relation to petrol that is not blended:
  - (a) the monthly volumetric average vapour pressure of the petrol,
  - (b) the vapour pressure of each sample of petrol from each batch tested to calculate the monthly volumetric average vapour pressure of the petrol,
  - (c) the date or dates on which the vapour pressure of the samples was tested,
  - (d) the test method used to determine the vapour pressure of the petrol,
  - (e) the volume of petrol in each batch.
- (5) A petrol supplier who blends petrol, but does not import petrol into this State or refine petrol in this State, is not required to keep the records referred to in subclause (4).

#### 30 Reporting

- (1) A petrol supplier who supplies petrol in the low volatility zone during any month in summer must, within 14 days after the end of the month, provide a report to the EPA in a form approved by the EPA and containing the following information in relation to that petrol:
  - (a) the monthly volumetric average vapour pressure of any petrol supplied in that month that was not blended petrol,
  - (b) the maximum vapour pressure of any blended petrol that was not prescribed blended petrol, that was supplied in that month and from which samples were taken for the purposes of this Division,
  - (c) the maximum vapour pressure of any petrol that was not blended petrol, that was supplied in that month and from which samples were taken under this Division,
  - (d) the total volume of prescribed blended petrol supplied in that month,
  - (e) the total volume of other blended petrol supplied in that month,
  - (f) the total volume of petrol supplied in that month that was not blended petrol.

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(2) A petrol supplier who blends petrol, but does not import petrol into this State or refine petrol in this State, is not required to provide the information referred to in subclause (1) (a) and (f).

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# Division 1 Preliminary

#### 31 Definitions

(1) In this Part, and in Schedules 2–7:

*approved circumstances* are defined by clause 41 (in relation to scheduled premises) and clause 46 (in relation to non-scheduled premises).

*development application* has the same meaning as it has in the *Environmental Planning and Assessment Act 1979*.

*development consent* has the same meaning as it has in the *Environmental Planning and Assessment Act 1979*.

*dioxin* means any of the following:

- (a) 2,3,7,8 tetrachlorodibenzodioxin (TCDD),
- (b) 1,2,3,7,8 pentachlorodibenzodioxin (PeCDD),
- (c) 1,2,3,4,7,8 hexachlorodibenzodioxin (HxCDD),
- (d) 1,2,3,6,7,8 hexachlorodibenzodioxin (HxCDD),
- (e) 1,2,3,7,8,9 hexachlorodibenzodioxin (HxCDD),
- (f) 1,2,3,4,6,7,8 heptachlorodibenzodioxin (HpCDD),
- (g) octachlorodibenzodioxin (OCDD).

*emission unit* means an item of plant that forms part of, or is attached to, some larger plant, being an item of plant that emits, treats or processes air impurities or controls the discharge of air impurities into the atmosphere.

*furan* means any of the following:

- (a) 2,3,7,8 tetrachlorodibenzofuran (TCDF),
- (b) 2,3,4,7,8 pentachlorodibenzofuran (PeCDF),
- (c) 1,2,3,7,8 pentachlorodibenzofuran (PeCDF),
- (d) 1,2,3,4,7,8 hexachlorodibenzofuran (HxCDF),
- (e) 1,2,3,6,7,8 hexachlorodibenzofuran (HxCDF),
- (f) 1,2,3,7,8,9 hexachlorodibenzofuran (HxCDF),
- (g) 2,3,4,6,7,8 hexachlorodibenzofuran (HxCDF),
- (h) 1,2,3,4,6,7,8 heptachlorodibenzofuran (HpCDF),
- (i) 1,2,3,4,7,8,9 heptachlorodibenzofuran (HpCDF),
- (j) octachlorodibenzofuran (OCDF).

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*Group*, in relation to any activity or plant, means the Group to which the activity or plant belongs pursuant to its classification:

- (a) in relation to any activity or plant carried out or operated on scheduled premises, under Division 2, or
- (b) in relation to any activity or plant carried out or operated on non-scheduled premises, under Division 3.

*non-scheduled premises* means premises (other than scheduled premises) at which an activity is carried on or plant is operated.

non-standard fuel means any fuel other than a standard fuel.

*principal toxic air pollutant* means any one or more of the following elements, compounds or classes of compounds:

- (a) acrolein,
- (b) acrylonitrile,
- (c) alpha chlorinated toluenes and benzoyl chloride,
- (d) arsenic and arsenic compounds,
- (e) benzene,
- (f) beryllium and beryllium compounds,
- (g) 1,3-butadiene,
- (h) cadmium and cadmium compounds,
- (i) chromium VI compounds,
- (j) 1,2-dichloroethane (ethylene dichloride),
- (k) dioxins or furans,
- (l) epichlorohydrin,
- (m) ethylene oxide,
- (n) formaldehyde,
- (o) hydrogen cyanide,
- (p) MDI (diphenylmethane diisocyanate),
- (q) nickel and nickel compounds,
- (r) PAH, as benzo[a]pyrene equivalent,
- (s) pentachlorophenol,
- (t) phosgene,
- (u) propylene oxide,
- (v) TDI (toluene-2,4-diisocyanate and toluene-2, 6-diisocyanate),
- (w) trichloroethylene,
- (x) vinyl chloride.

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*scheduled premises* means premises at which a scheduled activity is carried on.

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*standard fuel* means any unused and uncontaminated solid, liquid or gaseous fuel that is:

- (a) a coal or coal-derived fuel (other than any tar or tar residues), or
- (b) a liquid or gaseous petroleum-derived fuel, or
- (c) a wood or wood-derived fuel, or
- (d) bagasse.

*Type 1 substance* means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements. *Type 2 substance* means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements.

volatile organic compound (VOC) means any chemical compound that:

- (a) is based on carbon chains or rings, and
- (b) contains hydrogen, and
- (c) has a vapour pressure greater than 2mm of mercury (0.27 kPa) at 25°C and 101.3 kPa,

and includes any such compound containing oxygen, nitrogen or other elements, but does not include methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonate salts.

- (2) For the purposes of this Part, plant is in *normal operation* if it is operating at a constant rate, whether or not it is operating at full capacity.
- (3) Subject to clause 33 (4), any activity or plant that belongs to both Group 6 and another group is taken to belong to Group 6.

### Division 2 Standards for scheduled premises

#### 32 General grouping of activities and plant

- (1) Subject to this Division, an activity carried out, or plant operated, on scheduled premises:
  - (a) belongs to *Group 1* if:
    - (i) it commenced to be carried on, or to operate, before 1 January 1972, or
    - (ii) it commenced to be carried on, or to operate, on or after 1 January 1972 as a result of a pollution control approval granted under the *Pollution Control Act 1970* pursuant to an application made before 1 January 1972, or

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- (b) belongs to *Group 2* if it commenced to be carried on, or to operate, on or after 1 January 1972 as a result of a pollution control approval granted under the *Pollution Control Act 1970* pursuant to an application made on or after 1 January 1972 and before 1 July 1979, or
- (c) belongs to *Group 3* if it commenced to be carried on, or to operate, on or after 1 July 1979 as a result of a pollution control approval granted under the *Pollution Control Act 1970* pursuant to an application made on or after 1 July 1979 and before 1 July 1986, or
- (d) belongs to *Group 4* if it commenced to be carried on, or to operate, on or after 1 July 1986 as a result of a pollution control approval granted under the *Pollution Control Act 1970* pursuant to an application made on or after 1 July 1986 and before 1 August 1997, or
- (e) belongs to *Group 5* if it commenced to be carried on, or to operate, on or after 1 August 1997 as a result of:
  - (i) a pollution control approval granted under the *Pollution Control Act 1970* pursuant to an application made on or after 1 August 1997 and before 1 July 1999, or
  - (ii) an environment protection licence granted under the *Protection of the Environment Operations Act 1997* pursuant to an application made on or after 1 July 1999 and before 1 September 2005, or
- (f) belongs to *Group 6* if it commenced to be carried on, or to operate, on or after 1 September 2005, as a result of an environment protection licence granted under the *Protection of the Environment Operations Act 1997* pursuant to an application made on or after 1 September 2005.
- (2) Any activity or plant that would, but for this subclause, belong to Group 6 is taken to belong to Group 5 if it is the subject of a development consent in respect of which the EPA had given general terms of approval (within the meaning of section 93 of the *Environmental Planning and Assessment Act 1979*) before 1 September 2005.

#### 33 Emission units taken to be in Group 6

- (1) An emission unit is taken to belong to Group 6 if:
  - (a) the emission unit is in Group 1, 2, 3, 4 or 5 and is altered as a result of:
    - (i) the modification of development consent under section 96 (2) of the *Environmental Planning and*

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Assessment Act 1979 pursuant to an application made on or after 1 September 2005, or

- (ii) the variation of the licence for the plant, and
- (b) the effect of the alteration is that there is an increase in the emission of air impurities, or a change in the nature of the air impurities emitted or the intensity with which air impurities are emitted, from the plant of which the emission unit forms part, or to which it is attached.
- (2) If, in relation to plant operated in the Greater Metropolitan Area, an emission unit in Group 1, 2, 3, 4 or 5 is replaced, the replacement emission unit is taken to belong to Group 6.
- (3) An emission unit is not taken to belong to Group 6 by virtue of subclause (1) or (2) if the conditions of the licence for the activity or plant of which it forms part, or to which it is attached, state that it is taken to belong to Group 1, 2, 3, 4 or 5.
- (4) Plant that belongs to Group 1, 2, 3, 4 or 5 remains in that Group despite any alteration or replacement, as referred to in subclause (1) or (2), of an emission unit that forms part of, or is attached to, that plant.

#### 34 Phasing out of Group 1

- (1) Any activity or plant that, immediately prior to 1 January 2008 belonged to Group 1 is taken to belong to Group 2.
- (2) An activity or plant is not taken to belong to Group 2 by virtue of subclause (1) if the conditions of the licence for the activity or plant state that it is taken to belong to Group 1.
- (3) An application for the variation of the conditions of a licence for the purpose of including a statement referred to in subclause (2):
  - (a) in the case of an application for the first such variation, must have been made on or before 1 January 2007, and
  - (b) in the case of an application for any subsequent variation, must be made no later than 12 months before the date on which the current variation expires pursuant to subclause (4).
- (4) A variation of the conditions of a licence under this clause expires at the end of 5 years after the date on which notice of the variation is given to the holder of the licence under section 58 of the Act.

#### 35 Phasing out of Group 2

(1) On and from 1 January 2012, any activity or plant that, immediately prior to that date, belonged to Group 2 (including any activity or plant previously in Group 1) is taken to belong to Group 5.

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- (2) An activity or plant is not taken to belong to Group 5 by virtue of subclause (1) if the conditions of the licence for the activity or plant state that it is taken to belong to Group 1 or 2.
- (3) An application for the variation of the conditions of a licence for the purpose of including a statement referred to in subclause (2) must be made:
  - (a) in the case of an application for the first such variation, on or before 1 January 2011, and
  - (b) in the case of an application for any subsequent variation, no later than 12 months before the date on which the current variation expires pursuant to subclause (4).
- (4) A variation of the conditions of a licence under this clause expires at the end of 5 years after the date on which notice of the variation is given to the holder of the licence under section 58 of the Act.

#### 36 Alternative standards imposed by licence conditions

An application for the variation of the conditions of a licence for any activity, plant or emission unit for the purpose of including a statement referred to in clause 33 (3), 34 (2) or 35 (2) is to be accompanied by a report containing each of the following:

- (a) particulars of the concentration or rates at which air impurities are emitted as a result of the carrying out of the activity or operation of the plant, based on sampling, analysis and monitoring carried out in accordance with the Approved Methods (Sampling and Analysis) Publication,
- (b) the results of an air pollutant impact assessment, conducted in accordance with the Approved Methods (Modelling and Assessment) Publication, in relation to:
  - (i) the activity, plant or emission unit concerned, and
  - (ii) any other activity carried on, or plant or emission unit operated, at the scheduled premises concerned,
- (c) details of any pollution reduction programs that have been established in relation to the activity, plant or emission unit,
- (d) details of any control equipment that has been installed in relation to the activity, plant or emission unit,
- (e) such other information as may be relevant to demonstrate the acceptability of impacts associated with the alternative standards arising from the proposed variation of conditions.

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#### 37 Determination of application for variation of licence

- (1) In determining an application to vary the conditions of a licence for any activity or plant for the purposes of clause 33, 34 or 35, the EPA must consider the impact on local and regional air quality and amenity of a decision to grant the application, having regard to:
  - (a) any pollution reduction programs that have been established, or that the holder of the licence has agreed to establish, in relation to the activity or plant, and
  - (b) any control equipment that has been installed, or that the holder of the licence has agreed to install, in relation to the activity or plant, and
  - (c) any load reduction agreement that has been entered into between the EPA and the applicant under Division 4 of Part 1 of Chapter 2 of the *Protection of the Environment Operations (General) Regulation 2009*, and
  - (d) the principles of ecologically sustainable development set out in section 6 (2) of the *Protection of the Environment Administration Act 1991*, and
  - (e) such other matters as are relevant.
- (2) A statement referred to in clause 33 (3), 34 (2) or 35 (2) that is included in the conditions of the licence for any activity, plant or emission unit pursuant to an application made in accordance with clause 36 may not state that the activity or plant belongs to a Group with a lower number than that of the Group to which the activity or plant previously belonged.
- (3) Nothing in this clause prevents the EPA, when granting an application to vary the conditions of a licence under this clause, from including other conditions in the licence, including conditions imposing more stringent standards of concentration than those applicable to the Group to which the activity or plant will belong as a consequence of the variation.

**Note.** Refusal of an application to vary the conditions of a licence may be appealed under section 287 of the Act. In this regard, an application is taken to have been refused if it is not granted within 60 days after it is duly made.

#### 38 Prescribed standards of concentration for air impurities

- (1) For the purposes of section 128 (1) of the Act, the prescribed standards of concentration for emissions of air impurities are:
  - (a) in relation to any plant referred to in Schedule 2, the standards of concentration specified in that Schedule in relation to that plant, and

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- (b) in relation to any activity or plant specified in Schedule 3 in respect of a particular purpose, the standards of concentration specified in Schedule 3 in relation to that activity or plant and that purpose, and
- (c) in relation to any activity or plant specified in Schedule 4 (other than those covered by Schedule 2 or 3), the standards of concentration specified in Schedule 4 in relation to that activity or plant.
- (2) For the purposes of this clause, a requirement in Schedule 2, 3 or 4 that a standard of concentration for volatile organic compounds or carbon monoxide be met is satisfied if either of those standards is met.

#### **39** Determining whether standards have been exceeded

- (1) For the purpose of determining whether or not a standard of concentration prescribed by Schedule 2, 3 or 4 for an air impurity has been exceeded, the following procedures are to be applied:
  - (a) a sampling or monitoring position is to be selected in accordance with:
    - (i) TM-1, if the concentration is to be determined in accordance with the relevant test method, or
    - (ii) CEM-1 (if measuring opacity) or CEM-2 (in any other case), if the concentration is to be determined in accordance with the relevant monitoring method,
  - (b) the concentration of the air impurity is to be determined in accordance with the relevant test method, or relevant monitoring method, for the air impurity, using the relevant averaging period,
  - (c) the concentration determined under paragraph (b) (otherwise than for smoke) is to be expressed by reference to the relevant reference conditions for the standard of concentration after determining the following:
    - (i) the moisture content of the sample, determined in accordance with TM-22,
    - (ii) the temperature and pressure at the sampling position, determined in accordance with TM-2,
    - (iii) if a relevant reference condition is a specified percentage of carbon dioxide—the concentration of carbon dioxide emitted, determined in accordance with TM-24 or CEM-3,
    - (iv) if a relevant reference condition is a specified percentage of oxygen—the concentration of oxygen emitted, determined in accordance with TM-25 or CEM-3,

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- (d) the concentration determined under paragraph (b) for smoke (if determined as opacity) is to be expressed by reference to the relevant reference conditions for the standard of concentration.
- (2) For the purposes of this clause:
  - (a) a reference to the *relevant test method* or *relevant monitoring method*, in relation to an air impurity, is a reference to the test method or monitoring method specified in Part 1 of Schedule 5 in relation to that air impurity, and
  - (b) a reference to the *relevant averaging period*, in relation to an air impurity, is a reference to:
    - (i) the averaging period specified in Part 2 of Schedule 5 in relation to that air impurity, or
    - (ii) such other averaging period as may be specified in the conditions of the relevant licence, and
  - (c) a reference to the *relevant reference conditions*, in relation to any air impurity emitted from an activity or plant, is a reference to:
    - (i) the reference conditions specified in Part 3 of Schedule 5 in relation to that air impurity and that activity or plant, or
    - (ii) such other reference conditions as may be specified in the conditions of the relevant licence.

### 40 Dioxins and furans

- (1) For the purpose of determining whether or not a standard of concentration prescribed by Schedule 2, 3 or 4 for dioxins or furans has been exceeded, the following procedures are to be applied in addition to the procedures set out in clause 39:
  - (a) the unweighted concentration of each dioxin or furan is to be determined in accordance with TM-18, using the measuring period specified in that test method,
  - (b) the unweighted concentration of each dioxin or furan so determined is to be multiplied by the toxic equivalence factor set out in the Table to this clause in respect of that dioxin or furan.
- (2) For the purposes of clause 38, the concentration of dioxins and furans is taken to be the sum of the amounts calculated under subclause (1) (b).

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Substance	Toxic Equivalence Factor
Dioxins	
2,3,7,8 tetrachlorodibenzodioxin (TCDD)	1.0
1,2,3,7,8 pentachlorodibenzodioxin (PeCDD)	1.0
1,2,3,4,7,8 hexachlorodibenzodioxin (HxCDD)	0.1
1,2,3,6,7,8 hexachlorodibenzodioxin (HxCDD)	0.1
1,2,3,7,8,9 hexachlorodibenzodioxin (HxCDD)	0.1
1,2,3,4,6,7,8 heptachlorodibenzodioxin (HpCDD)	0.01
octachlorodibenzodioxin (OCDD)	0.0001
Furans	
2,3,7,8 tetrachlorodibenzofuran (TCDF)	0.1
1,2,3,7,8 pentachlorodibenzofuran (PeCDF)	0.05
2,3,4,7,8 pentachlorodibenzofuran (PeCDF)	0.5
1,2,3,4,7,8 hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,6,7,8 hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,7,8,9 hexachlorodibenzofuran (HxCDF)	0.1
2,3,4,6,7,8 hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,4,6,7,8 heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8,9 heptachlorodibenzofuran (HpCDF)	0.01
octachlorodibenzofuran (OCDF)	0.0001

#### 41 Approved circumstances in relation to smoke emissions

- (1) For the purposes of Schedules 2, 3 and 4 (otherwise than in relation to ceramic works referred to in Schedule 3), the *approved circumstances*, in relation to the emission of smoke from any activity or plant in Group 1, are:
  - (a) that the smoke is emitted:
    - (i) for a period of no more than 20 minutes per 24 hours, after lighting a boiler or incinerator from cold, being the period during which the boiler or incinerator is brought up to normal operation, or

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- (ii) in the case of a boiler burning up to 1 tonne of fuel per hour (unless subparagraph (i) applies)—for a period of no more than 10 minutes per 8 hours, or
- (iii) in the case of a boiler burning more than 1 tonne but less than 5 tonnes of fuel per hour (unless subparagraph (i) applies)—for a period of no more than 20 minutes per 8 hours, and
- (b) that all practicable means are employed to prevent or minimise the emission of smoke during that period.
- (2) For the purposes of Schedule 3 (in relation to ceramic works referred to in that Schedule), the *approved circumstances*, in relation to the emission of smoke from any activity or plant in Group 1, are:
  - (a) that the smoke is emitted for a period of no more than 10 minutes per hour, and
  - (b) that all practicable means are employed to prevent or minimise the emission of smoke during that period.
- (3) For the purposes of Schedules 2, 3 and 4, the *approved circumstances*, in relation to the emission of smoke from any activity or plant in Group 2, 3, 4, 5 or 6, are:
  - (a) that smoke is emitted, as a result of blowing soot from a boiler, for a period of no more than 10 minutes per 8 hours, and
  - (b) that all practicable means are employed to prevent or minimise the emission of smoke during that period.

### 42 Alternative standard for hydrogen sulfide emissions

- (1) The EPA may grant an approval to an occupier of scheduled premises for an alternative standard of concentration for hydrogen sulfide emissions.
- (2) If an occupier has been granted such an approval, and the occupier complies with the alternative standard of concentration and any other conditions specified in the approval, the occupier is exempt from the operation of section 128 of the Act, in so far as that section relates to the emission of hydrogen sulfide.
- (3) Before granting an approval under this clause the EPA:
  - (a) must take into consideration the impact of the approval on local and regional air quality and amenity, and
  - (b) must be satisfied that it is not practicable for the occupier to comply with the standards prescribed by clause 38 by implementing operational changes to plant or practices, and

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- (c) must be satisfied that the alternative standard of concentration for hydrogen sulfide emissions has been calculated in accordance with the Approved Methods (Modelling and Assessment) Publication.
- (4) The EPA is to grant an approval under this clause by means of a written notice given to the occupier.
- (5) An approval under this clause:
  - (a) is subject to any conditions that may be specified in the approval (including the method of measuring the concentration of hydrogen sulfide emissions), and
  - (b) may be amended or revoked by the EPA by means of a written notice given to the occupier.

# Division 3 Standards for non-scheduled premises

# 43 Grouping of activities and plant

- (1) Subject to subclause (2), an activity carried out, or plant operated, on non-scheduled premises:
  - (a) belongs to *Group* A if:
    - (i) it commenced to be carried on, or to operate, before 1 August 1997, or
    - (ii) it commenced to be carried on, or to operate, on or after 1 August 1997 as a result of development consent granted pursuant to a development application made before 1 August 1997, or
  - (b) belongs to *Group B* if it commenced to be carried on, or to operate, on or after 1 August 1997 as a result of development consent granted pursuant to a development application made on or after 1 August 1997 and before 1 September 2005, or
  - (c) belongs to *Group C* if it commenced to be carried on, or to operate, on or after 1 September 2005 as a result of development consent granted pursuant to a development application made on or after 1 September 2005.
- (2) If, in relation to plant operated in the Greater Metropolitan Area, an emission unit in Group A or B is replaced, the replacement emission unit is taken to belong to Group C.

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#### 44 Prescribed standards of concentration for air impurities

For the purposes of section 128 (1) of the Act, the prescribed standards of concentration for the emission of air impurities in relation to any activity carried on, or plant operated, at non-scheduled premises are as set out in Schedule 6.

#### 45 Determining if standards have been exceeded

- (1) For the purpose of determining whether or not a standard of concentration prescribed by Schedule 6 for an air impurity has been exceeded, the following procedures are to be applied:
  - (a) a sampling or monitoring position is to be selected in accordance with:
    - (i) TM-1, if the concentration is to be determined in accordance with the relevant test method, or
    - (ii) CEM-1 (if measuring opacity) or CEM-2 (in any other case), if the concentration is to be determined in accordance with the relevant monitoring method,
  - (b) the concentration of the air impurity is to be determined in accordance with the relevant test method, or relevant monitoring method, for the air impurity, using the relevant averaging period,
  - (c) the concentration determined under paragraph (b) (otherwise than for smoke) is to be expressed by reference to the relevant reference conditions for the standard of concentration after determining the following:
    - (i) the moisture content of the sample, determined in accordance with TM-22,
    - (ii) the temperature and pressure at the sampling position, determined in accordance with TM-2,
    - (iii) if a relevant reference condition is a specified percentage of carbon dioxide—the concentration of carbon dioxide emitted, determined in accordance with TM-24 or CEM-3,
    - (iv) if a relevant reference condition is a specified percentage of oxygen—the concentration of oxygen emitted, determined in accordance with TM-25 or CEM-3,
  - (d) the concentration determined under paragraph (b) for smoke (if determined as opacity) is to be expressed by reference to the relevant reference conditions for the standard of concentration.

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- (2) For the purposes of this clause:
  - (a) a reference to the *relevant test method* or *relevant monitoring method*, in relation to an air impurity, is a reference to the test method or monitoring method specified in Part 1 of Schedule 7 in relation to that air impurity, and
  - (b) a reference to the *relevant averaging period*, in relation to an air impurity, is a reference to the averaging period specified in Part 2 of Schedule 7 in relation to that air impurity, and
  - (c) a reference to the *relevant reference conditions*, in relation to any air impurity emitted from an activity or plant, is a reference to the reference conditions specified in Part 3 of Schedule 7 in relation to that air impurity and that activity or plant.

### 46 Approved circumstances in relation to smoke emissions

- (1) For the purposes of Schedule 6, the *approved circumstances* for marine vessels are:
  - (a) that the smoke is emitted from a marine vessel:
    - (i) for the period the vessel is approaching, leaving or manoeuvring at a berth, or
    - (ii) for a period of no more than 30 minutes per 24 hours, after lighting a boiler, being the period during which the boiler is brought up to normal operation, and
  - (b) that all practicable means are employed to prevent or minimise the emission of smoke during that period.
- (2) For the purposes of Schedule 6, the *approved circumstances* for premises other than marine vessels are:
  - (a) that the smoke is emitted from the premises:
    - (i) for a period of no more than 20 minutes per 24 hours, after lighting a boiler or incinerator from cold, being the period during which the boiler or incinerator is brought up to normal operation, or
    - (ii) for a period of no more than 10 minutes per 8 hours, as a result of blowing soot from a boiler, and
  - (b) that all practicable means are employed to prevent or minimise the emission of smoke during that period.

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# Division 4 Group 6 treatment plants

#### 47 Definition

In this Division, *Group 6 treatment plant* means afterburners and other thermal treatment plant, flares and vapour recovery units and other non-thermal treatment plant that are in Group 6.

#### 48 Application of Division

This Division applies only in respect of Group 6 treatment plant.

#### 49 Operation of Group 6 treatment plant

An occupier of premises on which any Group 6 treatment plant is operated must ensure that:

- (a) any flare operated for the treatment of air impurities is operated in such a way that a flame is present at all times while air impurities are required to be treated, and
- (b) either or both of the following requirements relating to the operation of any such plant are complied with:
  - (i) the requirements in clauses 50 and 51,
  - (ii) the requirements in clause 52.

Maximum penalty: 400 penalty units (in the case of a corporation) or 200 penalty units (in the case of an individual).

#### 50 Residence time

- (1) An afterburner, other than one that employs a catalytic control system, must be operated in such a way that the time between an air impurity entering and exiting the afterburner is:
  - (a) more than 2 seconds if the air impurity originates from material containing any principal toxic air pollutant, or
  - (b) more than 0.3 seconds in any other case.
- (2) An enclosed ground-level flare for the treatment of landfill gas must be operated in such a way that the time between landfill gas entering and exiting the flare is more than 0.6 seconds.
- (3) For the purposes of this clause, the time elapsing between an air impurity (including landfill gas) entering and exiting an afterburner or flare is to be calculated:
  - (a) using the volumetric flow rate for the air impurity, as determined in accordance with TM-2 or CEM-6, and
  - (b) using a 1 hour rolling averaging period.

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#### 51 Combustion temperature

- (1) An afterburner, other than one that employs a catalytic control system, must be operated in such a way that the temperature for the combustion of an air impurity by the afterburner is:
  - (a) more than 980°C if the air impurity originates from material containing any principal toxic air pollutant, or
  - (b) more than  $760^{\circ}$ C in any other case.
- (2) An enclosed ground-level flare for the treatment of landfill gas must be operated in such a way that the temperature for the combustion of landfill gas by the flare is more than 760°C.
- (3) A reference in this clause to the temperature for the combustion of an air impurity (including landfill gas) is a reference to that temperature as determined in accordance with TM-2, using a 1 hour rolling averaging period.

#### 52 Destruction efficiency

- (1) Group 6 treatment plant (other than flares) must be operated in such a way that the destruction efficiency of the plant, in relation to an air impurity entering the plant, is:
  - (a) if the air impurity originates from material containing any principal toxic air pollutant—more than 99.9999%, or
  - (b) in any other case—more than 99.99%.
- (2) An enclosed ground-level flare for the treatment of landfill gas must be operated in such a way that the destruction efficiency of the flare, in relation to landfill gas entering the flare, is more than 98%.
- (3) A reference in this clause to the destruction efficiency of Group 6 treatment plant in relation to an air impurity (including landfill gas) is a reference to the destruction efficiency of the plant, in relation to the air impurity, calculated by using the following equation:

$$DE = [1 - (MW_{out}/MW_{in})] \times 100$$

where:

**DE** is the destruction efficiency, expressed as a percentage.

 $MW_{out}$  is the mass emission rate of the air impurity in exhaust emissions prior to its release to the atmosphere using a 1 hour rolling averaging period.

 $MW_{in}$  is the mass feed rate of the air impurity in a waste feedstream using a 1 hour rolling averaging period.

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# Division 5 Miscellaneous

#### 53 Emission points

- (1) For the purposes of section 128 (1) of the Act, the point at which the standard of concentration, or rate of emission, of air impurities resulting from the carrying on of any activity, or the operation of any plant, on any premises is not to be exceeded is a point between:
  - (a) the point of origin of the air impurities, that is:
    - (i) the point where the air impurities originate, or
    - (ii) if the air impurities subsequently pass through any control equipment—the point where the air impurities emerge from that equipment, and
  - (b) the point of release of the air impurities, that is:
    - (i) the point where the air impurities pass into the atmosphere, or
    - (ii) if air, gas or vapour is added to the air impurities before that point after passing through any control equipment, the point immediately before the point where the air, gas or vapour is added.
- (2) In any case where there is more than one point of release applying in relation to any activity or plant, a reference in subclause (1) to the point of release is a reference to all of the points of release applying in relation to the activity or plant.

### 54 Combination of air impurities from 2 or more sources

- (1) This clause applies to an air impurity that is combined with any air impurity of the same kind, or with any other air, gas or vapour, from any other source on scheduled premises before being emitted.
- (2) For the purposes of section 128 (1) of the Act, the prescribed standard of concentration for the emission of an air impurity to which this clause applies is to be determined in accordance with TM-38.
- (3) Nothing in this clause authorises the emission of an air impurity in excess of the standard of concentration prescribed for the emission of the air impurity by Divisions 2 and 3.
- (4) A reference in this clause to a source is a reference to an activity or item of plant.

#### 55 Standards of concentration not to affect other controls

For the avoidance of doubt, this Part does not authorise the occupier of premises to carry on an activity, or operate any plant, in or on the premises in such a manner as to cause or permit the emission of air

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impurities in excess of those allowed by any other controls that apply in respect of the activity or plant (such as a licence or a development consent granted under the *Environmental Planning and Assessment Act 1979*).

#### 56 Exemptions relating to start-up and shutdown periods

The standards of concentration prescribed by this Part do not apply to or in relation to any plant during the following periods:

- (a) a *start-up* period—that is, while the plant is being brought up to normal operation following a period of inactivity,
- (b) a *shutdown* period—that is, while the plant is being taken out of service from normal operation to inactivity.

**Note.** While the standards prescribed by this Part do not apply, the occupier of the premises concerned will be subject to the requirements of section 128 (2) of the Act in relation to the prevention and minimisation of air pollution.

#### 57 Exemption relating to emission of smoke

- (1) The EPA may, by written notice given to a public authority, exempt the public authority from the operation of section 128 of the Act and Divisions 2 and 3, in so far as those provisions relate to the emission of smoke.
- (2) The EPA may only grant such an exemption in relation to smoke emitted in the course of the following activities:
  - (a) research to improve safety in relation to the flammability of materials and smoke reduction (including the development of testing procedures),
  - (b) training of fire-fighters,
  - (c) rating of the effectiveness of fire extinguishers and fire suppression systems,
  - (d) testing undertaken to certify that manufactured or imported products comply with Australian Standards or International Standards or meet any legislative requirements placed on them.
- (3) Before granting an exemption under this clause, the EPA:
  - (a) must take into consideration the impact of the exemption on local and regional air quality and amenity, and
  - (b) must be satisfied that it is not practicable for the public authority to comply with the provisions referred to in subclause (1), in relation to the emission of smoke, by implementing operational changes to plant or practices.

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- (4) An exemption under this clause:
  - (a) is subject to any conditions that may be specified in the written notice by which it is granted, and
  - (b) may be amended or revoked by means of a further written notice given to the public authority, and
  - (c) unless sooner revoked by the EPA, remains in force:
    - (i) for a period of 12 months from the date it is granted, or
    - (ii) for any other period specified in the written notice by which it is granted, and
  - (d) extends to apply to any person acting at the direction of the public authority to which it is granted.

#### 58 Limits on sulfur content of liquid fuel

- (1) A person must not, anywhere in the Sydney, Wollongong, Newcastle or Central Coast Metropolitan Area, operate any fuel burning equipment with liquid fuel having a sulfur content of more than 0.5 per cent by weight, as measured in accordance with TM-6.
- (2) A person must not, anywhere outside the Sydney, Wollongong, Newcastle or Central Coast Metropolitan Area, operate any fuel burning equipment with liquid fuel having a sulfur content of more than 2.5 per cent by weight, as measured in accordance with TM-6.
- (3) This clause does not prevent a person from operating fuel burning equipment with liquid fuel having a sulfur content in excess of a limit imposed by subclause (1) or (2) in the following circumstances:
  - (a) circumstances in which the emissions of sulfur compounds to the atmosphere arising from the operation of the equipment are restricted (by means of control equipment or otherwise) in such a manner that they are no greater than they would be if the equipment were operated (in the absence of any such restriction) with fuel having a sulfur content within the relevant limit,
  - (b) circumstances in which the liquid fuel is used for the lighting-up or flame-stabilising of fuel burning equipment designed primarily to burn solid fuel and the sulfur content of the liquid fuel is no more than 2.5 per cent by weight,
  - (c) circumstances in respect of which the person operating the fuel burning equipment holds a written exemption issued by the EPA, being circumstances that, in the opinion of the EPA, are special circumstances in respect of the fuel burning equipment or the premises in which the fuel burning equipment is installed,

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(d) circumstances in which:

- (i) the emissions of sulfur compounds to the atmosphere arising from the operation of the fuel burning equipment are restricted (by means of control equipment or otherwise) in accordance with the requirements of a licence, and
- (ii) the fuel has a sulfur content within the limits imposed by that licence.
- (4) It is a defence to a prosecution for an offence arising under this clause if the defendant establishes that:
  - (a) the fuel burning equipment was being operated with liquid fuel supplied under an order placed by the defendant for liquid fuel conforming to the relevant requirements of this clause, and
  - (b) the defendant had reasonable grounds to believe, and did in fact believe, that the sulfur content of the liquid fuel conformed to those requirements.

Maximum penalty: 200 penalty units (in the case of a corporation) or 40 penalty units (in the case of an individual).

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# Part 6 Control of volatile organic liquids

# Division 1 Preliminary

#### 59 Definitions

(1) In this Part:

*commission* a storage tank, petrol dispenser or any control equipment means to bring it into operation for the first time following installation or modification.

*decommission* a storage tank, petrol dispenser or any control equipment means to permanently abandon its operation or render it permanently inoperable.

**Note.** Other legislation may require the cessation of the use of certain storage systems, for example a system to which clause 174ZF of the *Occupational Health and Safety Regulation 2001* applies.

*delivery tank* means a tank mounted on a tank vehicle (not being the fuel tank of the vehicle).

*duly qualified person*, in relation to any activity, means a person who has such competence and experience in relation to that activity as is recognised in the relevant industry as appropriate to carry out that activity.

existing petrol service station means any petrol service station:

- (a) for which development consent was obtained under the *Environmental Planning and Assessment Act 1979* before 13 November 2009, or
- (b) the installation of which was lawfully commenced before 13 November 2009, or
- (c) from which petrol had been dispensed before 13 November 2009.

#### *Illawarra Region* means:

- (a) the Wollongong Metropolitan Area, and
- (b) the local government areas of Kiama and Shoalhaven City.

*installation* of a storage tank or petrol dispenser on a petrol service station means the original installation of the storage tank or petrol dispenser and includes any work in the vicinity of the petrol service station necessary for the installation, and anything done to the storage tank or petrol dispenser before it is commissioned.

*large loading plant* means industrial plant that is used for loading volatile organic liquid, at a rate of more than 30 megalitres per year, into the delivery tanks of large tank vehicles.

*large storage tank* means a storage tank having a capacity of 150 kilolitres or more.

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*large tank vehicle* means a tank vehicle having one or more delivery tanks with a total capacity of more than 12 kilolitres.

log book means the log book required to be kept under clause 77.

#### Lower Hunter Region means:

- (a) the Newcastle Metropolitan Area, and
- (b) the local government areas of Cessnock City, Maitland City and Port Stephens.

*modification* of a storage tank or a petrol dispenser on a petrol service station includes any upgrade, extension, alteration or replacement of the storage tank or petrol dispenser, or any component of the storage tank or petrol dispenser (including required control equipment), but does not include:

- (a) anything done to the storage tank or petrol dispenser before it is first commissioned or after it is decommissioned, or
- (b) anything done to the storage tank or petrol dispenser as part of routine maintenance that does not involve the removal or replacement of any component essential to petrol containment, or
- (c) anything done to the storage tank or petrol dispenser before 13 November 2009.

*modified petrol service station* means an existing petrol service station from which petrol was dispensed before 13 November 2009 and on which works are carried out on or after that date that:

- (a) involve the breaking up of any forecourt of the petrol service station, and
- (b) involve the opening up of petrol product lines and the modification of the storage tanks, tank vents, petrol dispensers, petrol product lines or tanker connection points of the service station, and
- (c) require development consent under the *Environmental Planning and Assessment Act 1979.*

*new petrol service station* means any petrol service station that is not an existing petrol service station.

operate means:

- (a) in relation to a storage tank, to allow petrol to remain in the storage tank, or
- (b) in relation to a petrol dispenser, to pass fuel from the storage tank, through the petrol dispenser, to the tank of a vehicle.

petrol has the same meaning as it has in section 154 (1) of the Act.

Note. This definition does not include automotive diesel fuel, marine diesel fuel, aviation fuel or liquid petroleum gas (LPG).

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*petrol dispenser* means a dispenser fitted to a pump that is operated to dispense petrol into the fuel tank of a vehicle.

*petrol service station* means premises from which petrol is dispensed, using a petrol dispenser, from a storage tank.

*petrol vapour* means any gaseous compound that evaporates from petrol.

prescribed storage tank—see Division 5.

*routine maintenance* includes any repairs that are done in the course of routine maintenance.

*small storage tank* means a storage tank having a capacity of 8 kilolitres or more but less than 150 kilolitres.

stage one zone means:

- (a) the Central Coast Metropolitan Area, and
- (b) the Illawarra Region, and
- (c) the Lower Hunter Region, and
- (d) the Sydney Metropolitan Area—B.

*stage two zone* means:

- (a) the Central Coast Metropolitan Area, and
- (b) the Newcastle Metropolitan Area, and
- (c) the Sydney Metropolitan Area—B, and
- (d) the Wollongong Metropolitan Area.

*standards and guidelines* means the *Standards and best practice guidelines for vapour recovery at petrol service stations* published in the Gazette and as in force from time to time.

*storage tank* means a tank situated on any premises (other than a vehicle or vessel).

*tank* means a container, or an isolated section of a container, that is used or designed to be used for the storage of volatile organic liquid, but does not include anything that is designed to hold volatile organic liquid under pressure and to prevent the emission of any volatile organic liquid or volatile organic liquid vapour.

*tank vehicle* means a vehicle used or designed to be used for the transport of volatile organic liquid from one tank to another, whether or not the vehicle is moveable under its own power, but does not include a railway vehicle.

#### throughput means:

(a) for a petrol service station that is not yet operating or has been operating for less than one year, the amount of petrol the occupier of the petrol service station estimates will be unloaded from large

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tank vehicles to storage tanks situated on the service station in the service station's first year of operation, or

(b) for any other petrol service station, the greatest amount of petrol unloaded, on or after 1 January 2007, from large tank vehicles to storage tanks situated on the petrol service station in any year commencing on 1 January.

*vapour system recovery performance* means the ratio of the volume of re-circulated vapour and air mixture to the volume of liquid dispensed into the tank of a vehicle.

*volatile organic liquid* means any organic compound that exists as a liquid at actual conditions of use or storage, unless it has a true vapour pressure of less than or equal to 25.8mm Hg (0.5 psia).

- (2) In this Part:
  - (a) a reference to industrial plant includes plant operated on a petrol service station to store or dispense petrol, and
  - (b) a reference to premises includes a petrol service station.

# Division 2 Requirements to fit control equipment

### 60 Equipment and plant to be fitted with control equipment

- (1) The occupier of any premises must not use or operate, or cause or allow to be used or operated, any fuel burning equipment or industrial plant in or on those premises unless that equipment or plant is fitted with the control equipment required by this Part and that complies with any specifications prescribed by this Part relating to installation.
- (2) The occupier of any premises in or on which is installed any fuel burning equipment or industrial plant fitted with control equipment required by this Part must, if specifications for the commissioning, operation, maintenance or decommissioning of that fuel burning equipment, industrial plant or control equipment are prescribed by this Part, ensure that those specifications are complied with.

Maximum penalty: 400 penalty units (in the case of a corporation) or 200 penalty units (in the case of an individual).

#### 61 Exemptions from requirement for control equipment

- (1) The occupier of any premises does not commit an offence under this Division in relation to any industrial plant if:
  - (a) the plant is fitted with control equipment that is approved by the EPA by notice in writing to the occupier, and

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- (b) the plant and control equipment are commissioned, operated, maintained or decommissioned in such manner as the EPA specifies in that notice of approval.
- (2) The occupier of any premises does not commit an offence under this Division in relation to small storage tanks if:
  - (a) the EPA is satisfied that the volume of volatile organic liquid loaded into the storage tanks on those premises per year does not usually exceed 600 kilolitres, and
  - (b) the EPA grants an exemption from the operation of this Division by notice in writing to the occupier, and
  - (c) the occupier complies with such conditions as the EPA specifies in the exemption.
- (3) The EPA may vary or revoke an approval or exemption under this clause at any time by notice in writing served on the holder of the approval or exemption.

# Division 3 Storage tanks and loading plants

## 62 Application

This Division does not apply to any prescribed storage tank.

# 63 Control equipment for large storage tanks

- (1) This clause applies to any large storage tank situated anywhere within the Sydney, Newcastle or Wollongong Metropolitan Area.
- (2) The following control equipment is required to be fitted to any large storage tank to which this clause applies:
  - (a) a drainage system comprising a small sump or tundish fitted under each water draw-off valve and connected to a totally enclosed drain,
  - (b) if the volatile organic liquid stored in the tank has a vapour pressure of or below 75 kilopascals:
    - (i) a floating metal roof that, under normal operating conditions, floats on the surface of the liquid, or
    - (ii) a floating cover constructed of material impervious to vapour that, under normal operating conditions, floats on the surface of the liquid inside a fixed roof, or
    - (iii) a vapour disposal or recovery system of the kind referred to in subclause (6),

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- (c) if the volatile organic liquid stored in the tank has a vapour pressure above 75 kilopascals, a vapour disposal or recovery system of the kind referred to in subclause (6).
- (3) Subclause (2) (a) does not apply in the case of tanks used for the storage of volatile organic liquid (other than crude petroleum) received by tank-to-tank transfer from other storage tanks.
- (4) A floating roof or cover referred to in subclause (2) (b) must be constructed so as to prevent the escape of vapour through the roof or cover and so that:
  - (a) vapour beneath the floating roof or cover is contained by skirt plates situated near the edges of the roof or cover and surrounding any openings in the roof or cover or by similar means, and
  - (b) the roof or cover is equipped with one or more closure seals to close the spaces between the roof or cover and the tank walls and between any openings in the roof or cover and any equipment passing through those openings, and
  - (c) seals on floating roofs are shielded from the weather, and
  - (d) weather-shields are moveable to permit proper inspection of seals.
- (5) The level of volatile organic liquid in a large storage tank that is fitted with a floating roof or cover referred to in subclause (2) (b) must be maintained, during normal operating conditions, at a depth sufficient to prevent the supports of the floating roof or cover from resting on the floor of the tank.
- (6) A vapour disposal or recovery system referred to in subclause (2) (b) or (c) must be constructed so that the vapour emitted from the tank:
  - (a) is incinerated, so that the total concentration of unburnt vapour emitted to the atmosphere does not exceed 1.5 grams per cubic metre of the gases resulting from the incineration process, or
  - (b) is recovered, so that the total concentration of unrecovered vapour emitted to the atmosphere during any period of 4 hours does not exceed 110 milligrams per litre of volatile organic liquid passing into the tank during that period.
- (7) The total concentration of unburnt vapour referred to in subclause (6) (a) is to be determined as set out in TM-19, the total concentration of unrecovered vapour referred to in subclause (6) (b) is to be determined as set out in TM-20 and the calculation of the vapour pressure of volatile organic liquid stored in tanks is to be carried out in accordance with TM-21.

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(8) Subclauses (6) and (7) do not apply to large storage tanks on scheduled premises (within the meaning of Part 5) that belong to Group 6 (within the meaning of that Part).

# 64 Control equipment for large loading plant

- (1) This clause applies to any large loading plant situated anywhere within the Sydney Metropolitan Area.
- (2) The following control equipment is required to be fitted to any large loading plant to which this clause applies:
  - (a) a vapour collection system by which all vapour displaced from tanks during loading operations is collected and conveyed to a vapour recovery or disposal system through vapour lines having an internal diameter of not less than 65 per cent of the largest fill-line used for connection to the delivery tank,
  - (b) an interlock system that prevents the loading of a delivery tank unless:
    - (i) the vapour collection system is first connected to that tank, or
    - (ii) the interlock system forms part of industrial plant used only for loading delivery tanks that are themselves fitted with such an interlock system,
  - (c) fittings on all liquid and vapour lines that make vapour-tight connections with the respective mating fittings on the delivery tank and that close automatically when disconnected,
  - (d) a vapour recovery or disposal system constructed so that the vapour resulting from loading operations:
    - (i) is incinerated, so that the total concentration of unburnt vapour emitted to the atmosphere does not exceed 1.5 grams per cubic metre of the gases resulting from the incineration process, or
    - (ii) is recovered, so that the total concentration of unrecovered vapour emitted to the atmosphere during any period of 4 hours does not exceed 110 milligrams per litre of volatile organic liquid passing out of the plant during that period.
- (3) The total concentration of unburnt vapour referred to in subclause (2) (d) (i) is to be determined as set out in TM-19 and the total concentration of unrecovered vapour referred to in subclause (2) (d) (ii) is to be determined as set out in TM-20.
- (4) Subclause (2) (d) does not apply to large loading plants on scheduled premises (within the meaning of Part 5) that belong to Group 6 (within the meaning of that Part).

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#### 65 Control equipment for small storage tanks

- (1) This clause applies to any small storage tank situated anywhere within the Sydney Metropolitan Area other than the local government area of Hawkesbury City.
- (2) The following control equipment is required to be fitted to a small storage tank to which this clause applies:
  - (a) a vapour transfer system by which all vapour displaced by the transfer of volatile organic liquid into the storage tank is returned to the delivery tank being unloaded by means of a vapour return line,
  - (b) a coupling on the vapour return line that makes a vapour-tight connection with the vapour return hose on the delivery tank and that closes automatically when disconnected,
  - (c) in the case of a tank that is filled by the operation of gravity, an overfill protection system designed to stop the flow of volatile organic liquid into the storage tank before there is insufficient space in that tank to receive the contents of the tank vehicle's transfer hose,
  - (d) a coupling on the storage tank's fill-pipe that makes a liquid-tight connection with the delivery tank's liquid transfer hose,
  - (e) in the case of a storage tank located above the ground, pressure vacuum valves on all atmospheric vents.
- (3) The vapour transfer system referred to in subclause (2) (a) may be used to serve more than one storage tank on the same premises.
- (4) A vapour return line referred to in subclause (2) (a) must be of vapour-tight construction and must have an internal diameter:
  - (a) in the case of such part of the vapour return line as is upstream of the first fitting or change in direction from the tank:
    - (i) not less than 50 per cent of the internal diameter of the fill-pipe, or
    - (ii) in the case of a tank installed before 1 May 1982 and in which the vapour return line is taken from the atmospheric vent, as large as practicable having regard to the internal diameter of the existing vent connection, and
  - (b) in the case of such part of the vapour return line as is downstream of the first fitting or change in direction from the tank, not less than 65 per cent of the internal diameter of the fill-pipe.

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- (5) The pressure vacuum valves referred to in subclause (2) (e):
  - (a) except as provided in paragraph (b), must be set to be closed when the pressure in the tank is between 15 kilopascals above, and 0.5 kilopascals below, ambient pressure, or

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- (b) in the case of tanks installed before 1 May 1982, may be set to be closed when the pressure in the tank is between the design operating maximum pressure and the design operating maximum vacuum.
- (6) A hatch, manhole or other cover on or associated with a storage tank to which this clause applies must not be opened if, in so doing, vapour would be likely to be emitted to the atmosphere, except:
  - (a) in an emergency, or
  - (b) for the purpose of tank gauging or sampling through a dip hatch (when no liquid transfer hoses are connected to the tank or when any connected hoses are closed), or
  - (c) for the purpose of reasonable maintenance.

# Division 4 Tank vehicles

### 66 Control equipment for large tank vehicles

- (1) This clause applies to:
  - (a) the loading of a large tank vehicle from large loading plant anywhere within the Sydney Metropolitan Area, and
  - (b) the unloading of a large tank vehicle into a small storage tank anywhere within the Sydney Metropolitan Area—B, and
  - (c) the unloading of a large tank vehicle into any prescribed storage tank.
- (2) The owner of a tank vehicle must not use the tank vehicle, or allow the tank vehicle to be used, to load or unload volatile organic liquid unless the tank vehicle is fitted with the following control equipment and the equipment is maintained in an efficient condition:
  - (a) a vapour handling system for the transfer between delivery tanks of vapour displaced during loading or unloading operations,
  - (b) an overfill protection device, located in the delivery tank, that is designed to stop the flow of volatile organic liquid into the tank as near as practicable to the level of minimum ullage,
  - (c) couplings on liquid transfer pipes and hoses on the tank vehicle that make a liquid-tight connection with the respective mating fittings and that, in the case of liquid transfer pipes, close automatically when disconnected,

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- (d) hatch covers on any openings that are required to be vapour-tight when closed,
- (e) pressure vacuum valves on all atmospheric vents (except emergency vents) that are set to be closed when the pressure in the tank is between 15 kilopascals above, and 3 kilopascals below, ambient pressure, being valves that may be fitted with a vent by-pass or pilot-bleed system if the maximum area for free venting is limited to 15 square millimetres.

Maximum penalty: 200 penalty units (in the case of a corporation) or 40 penalty units (in the case of an individual).

- (3) The vapour handling system referred to in subclause (2) (a) must comply with the following requirements:
  - (a) the delivery tank must be fitted with a vapour transfer valve connecting the tank, through a manifold if desired, to a vapour line coupling or permanently connected vapour hose,
  - (b) the vapour transfer valve:
    - (i) must be interlocked with the delivery valve, so as to be open whenever volatile organic liquid is being transferred to or from the tank, and
    - (ii) if the vapour return hose is not permanently connected to the delivery tank, must be interlocked with the vapour line coupling on the delivery tank, so as to be closed unless the vapour return hose is attached to that coupling,
  - (c) unless the delivery tank is fitted with a permanently connected vapour hose, the tank vehicle must carry a vapour return hose of vapour-tight construction, fitted to connect:
    - (i) at one end, to the vapour line coupling on the vehicle, and
    - (ii) at the other end, to a vapour return coupling at the liquid loading or unloading plant,
  - (d) the vapour line (including any vapour hose carried by the vehicle) must have an internal diameter of not less than 65 per cent of the internal diameter of the largest liquid transfer hose carried by the vehicle,
  - (e) couplings on vapour transfer hoses on the tank vehicle must make vapour-tight connections with the respective fittings on the vehicle.
- (4) A person is exempt from the operation of this clause if:
  - (a) the vehicle is fitted with control equipment that is approved by the EPA by notice in writing to the owner of the vehicle, and
  - (b) the vehicle and control equipment are maintained and operated in such manner as the EPA specifies in that notice of approval.

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(5) The EPA may vary or revoke an approval or exemption under this clause at any time by notice in writing served on the holder of the approval or exemption.

#### 67 Loading and unloading large tank vehicles

- (1) This clause applies to:
  - (a) the loading of a large tank vehicle from large loading plant anywhere within the Sydney Metropolitan Area, and
  - (b) the unloading of a large tank vehicle into a small storage tank anywhere within the Sydney Metropolitan Area—B, and
  - (c) the unloading of a large tank vehicle into any prescribed storage tank.
- (2) While a tank vehicle is being loaded with volatile organic liquid from large loading plant, the person in charge of the vehicle must ensure that the delivery tank mounted on the vehicle is properly connected to the vapour collection system of that plant.
- (3) While a tank vehicle is being used to load volatile organic liquid into a small storage tank, the person in charge of the vehicle must ensure that:
  - (a) before any such loading takes place, the vapour return hose is connected to the appropriate vapour line coupling on the tank vehicle (except in the case of a permanently connected hose) and to the appropriate vapour return coupling on or associated with the storage tank, and
  - (b) the vapour return hose is not disconnected while volatile organic liquid is being loaded into the storage tank, and
  - (c) the connection or disconnection of any hose is done in such a manner as to avoid or minimise spillage, and
  - (d) the liquid transfer hose is not disconnected from the storage tank until the hose is empty of liquid.
- (4) The person in charge of a tank vehicle must not, without reasonable excuse, leave open a hatch, manhole or other cover on any delivery tank mounted on the vehicle if to do so would be likely to result in vapour being emitted to the atmosphere.

Maximum penalty: 200 penalty units (in the case of a corporation) or 40 penalty units (in the case of an individual).

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# Division 5 Petrol service stations

# Subdivision 1 Preliminary

#### 68 Definitions

In this Division:

*prescribed petrol dispenser* means:

- (a) until 1 January 2014—a petrol dispenser on a new petrol service station or modified petrol service station within the stage two zone, but only from the first time the petrol service station has a throughput of more than 0.5 million litres of petrol, and
- (b) from 1 January 2014—a petrol dispenser on an existing petrol service station (other than a modified petrol service station) within the stage two zone, but only from the first time the petrol service station has a throughput of more than 12 million litres of petrol, and
- (c) from 1 January 2017—a petrol dispenser on an existing petrol service station (other than a modified petrol service station) within the Sydney Metropolitan Area—B, but only from the first time the petrol service station has a throughput of more than 3.5 million litres of petrol.

#### prescribed storage tank means:

- (a) from 1 July 2010—a storage tank operated for storing petrol on a new or modified petrol service station within the stage one zone, but only from the first time the petrol service station has a throughput of more than 0.5 million litres of petrol, and
- (b) from 1 January 2014—a storage tank operated for storing petrol on an existing petrol service station (other than a modified petrol service station) within the stage one zone, but only from the first time the petrol service station has a throughput of more than 0.5 million litres of petrol.

# Subdivision 2 Stage one vapour recovery

### 69 Control equipment for storage tanks on petrol service stations

- (1) The following control equipment is required to be fitted to a prescribed storage tank:
  - (a) a vapour transfer system by which all vapour displaced by the transfer of petrol into the storage tank is returned to the delivery tank being unloaded by means of a vapour return line,

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- (b) a coupling on the vapour return line that makes a vapour-tight connection with the vapour return hose on the delivery tank and that closes automatically when disconnected,
- (c) a submerged fill pipe that terminates below the lowest point of any suction inlet used for the pumping of petrol out of the storage tank,
- (d) for a new petrol service station, an overfill prevention device installed in the tank fill piping or a supply system:
  - (i) that slows delivery of petrol into the storage tank to prevent overfilling, and
  - (ii) if electrically powered or containing electronic components, that meets the standards specified in the standards and guidelines for the purposes of this subclause,
- (e) storage tank overfill protection, comprising a float vent valve positioned:
  - (i) above the highest point of any overfill prevention device when in the closed position, and
  - (ii) so that the valve shuts off the flow into the storage tank at the level advised by the manufacturer of the storage tank or, if no level is advised, at 95% of the storage tank's capacity,
- (f) spill containment enclosures for all storage tank fill connection points,
- (g) a coupling on the storage tank's fill pipe that makes a liquid-tight connection with the delivery tank's liquid transfer hose,
- (h) secure seals on connection points of tank filling pipes and vapour return pipes that minimise vapour leaks when those pipes are not in active use,
- (i) secure seals for the apertures for the use of a dipstick, if dip hatches are provided on the storage tank,
- (j) fittings on the petrol delivery lines and hoses that are incompatible with the fittings on the vapour return lines and hoses so as to prevent misconnection or the accidental discharge of liquid petrol into the vapour return lines or pipes,
- (k) a storage tank vent pipe that is fitted with a pressure vacuum valve, or other similar device:
  - (i) that meets the pressure vacuum settings criteria specified in the standards and guidelines for the purposes of this subclause, and

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- (ii) that on the advice of a duly qualified person, is of a suitable size and type and possesses suitable safety features, and
- (iii) that has been installed as advised by a duly qualified person,

and a 10 millimetre orifice, or other similar device that meets the criteria for retaining vapour specified in the standards and guidelines for the purposes of this subclause, in parallel,

- (1) in the case of a storage tank fitted with a vapour processing unit, a unit that, before commissioning, has been certified by the manufacturer or supplier as being of a type that is specified in the standards and guidelines as meeting the hydrocarbon capture efficiency criteria specified in the standards and guidelines for the purposes of this subclause.
- (2) The occupier of a petrol service station must ensure that a storage tank is tested in the manner specified in the standards and guidelines for the purposes of this subclause before any required control equipment is fitted.
- (3) The occupier of a petrol service station must ensure that a storage tank fitted with required control equipment is tested before commissioning in the manner specified in the standards and guidelines for the purposes of this subclause.

Maximum penalty (subclauses (2) and (3)): 100 penalty units (in the case of a corporation) or 50 penalty units (in the case of an individual).

#### 70 Specifications regarding covers

A person must not operate a prescribed storage tank while a hatch, manhole or other cover on or associated with the storage tank is open if, in so doing, petrol vapour would be likely to be emitted to the atmosphere, other than:

- (a) during an emergency, or
- (b) while tank gauging or sampling by way of the relevant opening (when no liquid transfer hoses are connected to the storage tank or when any connected hoses are closed) is being carried out, or
- (c) while routine maintenance is being carried out.

Maximum penalty: 100 penalty units (in the case of a corporation) or 50 penalty units (in the case of an individual).

#### 71 Specifications regarding periodic testing

(1) The occupier of a petrol service station must ensure that a prescribed storage tank and any control equipment required to be fitted to the tank are tested at the times and in the manner set out in the standards and guidelines.

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(2) A prescribed storage tank and any control equipment required to be fitted to the tank must not be operated unless the most recent results of tests under subclause (1) meet the standards specified in the standards and guidelines for the purposes of this clause.

Maximum penalty: 100 penalty units (in the case of a corporation) or 50 penalty units (in the case of an individual).

# Subdivision 3 Stage two vapour recovery

# 72 Control equipment for petrol dispensers

The control equipment required to be fitted to a prescribed petrol dispenser is a vapour recovery system that:

- (a) before commissioning, has been certified by the manufacturer or supplier as being of a type that is specified in the standards and guidelines as meeting the hydrocarbon capture efficiency criteria specified in the standards and guidelines for the purposes of this clause, and
- (b) is installed in accordance with the manufacturer's specifications by a duly qualified person, and
- (c) before commissioning, is tested by a duly qualified person in the manner specified in the standards and guidelines for the purposes of this clause.

### 73 Specifications regarding testing

- (1) The occupier of a petrol service station must ensure that the control equipment required to be fitted to a prescribed petrol dispenser is tested for vapour containment integrity and vapour system recovery performance at the times and in the manner set out in the standards and guidelines.
- (2) The occupier of a petrol service station must ensure that a prescribed petrol dispenser is not operated unless the most recent results of tests under subclause (1) meet the standards specified in the standards and guidelines for the purposes of this clause.

Maximum penalty: 100 penalty units (in the case of a corporation) or 50 penalty units (in the case of an individual).

### 74 Specifications regarding monitoring

- (1) The occupier of a petrol service station must ensure that a prescribed petrol dispenser is not operated unless it is also fitted with an automatic monitoring system that:
  - (a) is capable of detecting faults in the functioning of the required control equipment, and

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- (b) is capable of detecting faults in its own functioning, and
- (c) provides a warning or alarm when a fault is detected, and
- (d) automatically cuts off the flow of fuel from the petrol dispenser if the fault which is the subject of a warning or alarm is not rectified within 7 days, and
- (e) is capable of recording the last:
  - (i) 1 year of data, and
  - (ii) 100 faults in the functioning of the required control equipment, and
- (f) has been certified in the manner specified in the standards and guidelines as meeting the criteria set out in paragraphs (a)–(e).
- (2) Subclause (1) does not apply to a petrol dispenser at a petrol service station that has not had a throughput of 7 million litres or more of petrol at any time since being required to fit the required control equipment, if an adequately trained person on a weekly basis:
  - (a) carries out a manual test of the functionality of the required control equipment in the manner specified in the standards and guidelines for the purposes of this subclause, and
  - (b) inspects the vapour return lines for any torn, flattened or kinked hoses or any damaged seals, and
  - (c) records the test and the inspection in a log book.
- (3) A petrol dispenser must not be operated after 7 days after a fault in the required control equipment or in the automatic monitoring system is identified until the fault has been rectified by a duly qualified person.
- (4) For the purposes of subclause (3), a fault exists:
  - (a) in the functioning of the required control equipment if it ceases to meet the test of functionality specified in the standards and guidelines for the purposes of this clause, and
  - (b) in the automatic monitoring system if it fails to detect a fault in required control equipment that it is monitoring.
- (5) In this clause:

*adequately trained person* means a person who has been trained to perform the check of the relevant required control equipment:

- (a) in accordance with the instructions of the manufacturer or supplier of that equipment, or
- (b) in a manner specified in the standards and guidelines for the purposes of this subclause.

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# Subdivision 4 Miscellaneous

#### 75 Reporting to EPA

- (1) The occupier of a petrol service station must give the EPA, in the form and within the period set out in the standards and guidelines, notice of the commissioning of any prescribed storage tank or prescribed petrol dispenser.
- (2) The occupier of a petrol service station must give the EPA, in the form and within the period set out in the standards and guidelines, a report for the year ending on 30 June each year, if during that period there was a significant failure in any required control equipment at a petrol service station.
- (3) For the purposes of subclause (2), a significant failure is any one or more of the following occurrences:
  - (a) a failure of the vapour containment system that requires the opening of the forecourt to repair the system,
  - (b) a test result of below 85% for vapour system recovery performance of a manually monitored petrol dispenser and required control equipment, or
  - (c) a number of warnings by an automatic monitoring system fitted to a petrol dispenser and prescribed control equipment that is greater than the number specified in the standards and guidelines for the purposes of this subclause.

Maximum penalty: 100 penalty units (in the case of a corporation) or 50 penalty units (in the case of an individual).

### 76 Compliance notification

- (1) The occupier of a petrol service station must display, or cause to be displayed, a sign, sticker or other notification:
  - (a) on each prescribed petrol dispenser fitted with the required control equipment to the effect that the petrol dispenser is fitted with stage two vapour recovery equipment, and
  - (b) on the petrol service station premises to the effect that the petrol service station is fitted with stage two vapour recovery equipment, if all of the petrol dispensers situated on the petrol service station are prescribed petrol dispensers fitted with the required control equipment.
- (2) The occupier of a petrol service station must not display, or cause to be displayed, a sign, sticker or other notification referred to in subclause (1) except in accordance with that subclause.

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(3) The EPA may, by order in writing, exempt a person or a class of persons specified in the order from the operation of this clause.
 Maximum penalty: 300 penalty units (in the case of a corporation) or 150 penalty units (in the case of an individual).

# 77 Log books

(1) The occupier of a petrol service station that has a prescribed storage tank or a prescribed petrol dispenser must keep a log book in accordance with this clause.

Maximum penalty: 400 penalty units (in the case of a corporation) or 200 penalty units (in the case of an individual).

- (2) A log book may include information kept in compliance with other requirements imposed by or under the Act. Note. For example, an incident log kept in accordance with clause 24 of the *Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008* could also include the information required to be kept under this Regulation.
- (3) The following must be entered in a log book in relation to control equipment required to be fitted to a prescribed storage tank or a prescribed petrol dispenser:
  - (a) the type of control equipment installed, the serial number (if any) of the control equipment, or any part of the control equipment, and the name and address of:
    - (i) the manufacturer of the control equipment, and
    - (ii) the supplier of the control equipment, and
    - (iii) the person or body that carried out the installation of the control equipment or any part of the control equipment,
  - (b) a description of any modification carried out on the control equipment, including the type of any part of the control equipment replaced, removed or added, the serial number (if any) of any such part and the name and address of the person or body that carried out the modification work,
  - (c) a description of any routine maintenance carried out on the control equipment,
  - (d) details of any rectification work carried out on the control equipment and the name and address of the person or body that carried out the rectification work,
  - (e) details of any manual monitoring of control equipment undertaken,

Protection of the Environment Operations (Clean Air) Regulation 2010 Clause 78 Control of volatile organic liquids

Part 6

- (f) a description of any testing of the operation of the control equipment, whether carried out in compliance with this Regulation or otherwise, including the type of test carried out, the results of the test and the name and address of the person or body that carried out the test,
- a description of any incident, including a reportable significant (g) failure under this Subdivision, that indicated that the control equipment was not, or may not have been, operating in a proper and efficient manner and the measures taken to investigate and respond to the incident.
- (4)A record required to be kept in a log book must be retained for 3 years from the date of creation of the record.
- (5) A certificate from a supplier or manufacturer that is required by clause 68 (1) (1) or 71 (a) must be retained with the log book for 3 years or until the prescribed control equipment to which it relates is decommissioned, whichever is the longer.
- (6) The log book must be kept:
  - (a) if all or part of the prescribed control equipment is included in a storage system that is regulated by the Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008, in accordance with an environment protection plan under that regulation, or
  - in any other case, at the petrol service station at which the (b) prescribed control equipment is being operated.
- If the petrol service station permanently ceases to operate during the (7)3-year period referred to in subclause (4) or (5), the record or certificate must be kept at the principal place of business of the person who, immediately before the petrol service station ceased to operate, was the occupier of the petrol service station.
- This clause does not require the recording of anything done before (8) 13 November 2009.
- (9) The EPA may, by order in writing, exempt a person or a class of persons specified in the order from the operation of subclause (4) or (5).

#### 78 Exemptions

- The EPA may grant an exemption under this Subdivision by order in (1)writing on application or of its own motion.
- An application for an exemption must be accompanied by such fee (if (2)any) as the EPA may determine.

Clause 78 Protection of the Environment Operations (Clean Air) Regulation 2010

Part 6 Control of volatile organic liquids

- (3) An order:
  - (a) has effect in such circumstances (if any), and subject to such conditions (if any), as are specified in the order, and
  - (b) must specify a person to be served with the order and must be served on that person, and
  - (c) has effect on and from service of the order or such later date as may be specified in the order, and
  - (d) is subject to the condition that the exempted person complies with all of the provisions of the Act and the other provisions of this Regulation that apply to the person, and
  - (e) may be revoked by the EPA at any time by order in writing served on the person referred to in paragraph (b).

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Miscellaneous	Part 7

# Part 7 Miscellaneous

# 79 Savings

Any act, matter or thing that, immediately before the repeal of the *Protection of the Environment (Clean Air) Regulation 2002*, had effect under that Regulation continues to have effect under this Regulation.

Protection of the Environment Operations (Clean Air) Regulation 2010

(Clause 24)

Schedule 1 Forms

# Schedule 1 Forms

Form 1

[Front of label]

# DEFECTIVE VEHICLE

This vehicle is in a defective condition and must not be used after the date shown on the back of this label unless the repairs, reconnections or readjustments shown on the back of the label have been properly effected and the defective vehicle notice given in relation to this vehicle has been cleared.

You must not use this vehicle or allow it to be used while that notice is in force. PENALTY UP TO \$6,600. However, it is not an offence to drive the vehicle to or from a place of repair or inspection.

This label must not be removed or interfered with except by an authorised officer of the Environment Protection Authority or with the authority of such an officer. PENALTY UP TO \$6,600.

Failure to comply with the defective vehicle notice may result in this vehicle's registration under the *Road Transport (Vehicle Registration) Act 1997* being suspended or cancelled.

[Back of label]

Defect Notice No:

Registration/Chassis/Engine No of vehicle:

Date for completion of repairs, reconnections or readjustments:

The following repairs, reconnections or readjustments must be carried out:

After the above repairs, reconnections or readjustments have been carried out, this vehicle must be inspected by an authorised officer of the Environment Protection Authority in order for this label to be removed. Inspection may be arranged by telephoning the following number between 9 am and 4 pm Monday to Friday:

Issued on:

Signature of authorised officer:

Protection of the Environment Operations (Clean Air) Regulation 2010

Standards of concentration for scheduled premises: afterburners, flares and Schedule 2 vapour recovery units

# Schedule 2 Standards of concentration for scheduled premises: afterburners, flares and vapour recovery units

(Clause 38)

Afterburners and other thermal treatment plant (excluding flares)				
Air impurity	ir impurity Plant Standard of concentrat			
Solid particles	Any afterburner or other thermal treatment plant treating air impurities that originate from material containing any principal	Group 1	400 mg/m <sup>3</sup>	
(Total)		Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
	toxic air pollutant	Group 6	50 mg/m <sup>3</sup>	
Nitrogen dioxide $(NO_2)$ or nitric	Any afterburner or other thermal treatment plant	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
oxide (NO) or both, as NO <sub>2</sub>		Group 5	2,000 mg/m <sup>3</sup>	
equivalent		Group 6	350 mg/m <sup>3</sup>	
Volatile organic compounds	Any afterburner or other thermal treatment plant treating air impurities that originate from material containing any principal toxic air pollutant	Group 1, 2, 3, 4 or 5	—	
(VOCs), as n-propane equivalent		Group 6	20 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO	
	treatment plant treating air	Group 1, 2, 3, 4 or 5	—	
		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO	
Hydrogen chloride (HCl)	Any afterburner or other thermal treatment plant treating air impurities that originate from material containing any principal toxic air pollutant	Group 1, 2, 3 or 4	400 mg/m <sup>3</sup>	
		Group 5 or 6	100 mg/m <sup>3</sup>	
Type 1 substances	Any afterburner or other thermal	Group 1, 2 or 3	20 mg/m <sup>3</sup>	
(in aggregate)	treatment plant treating air impurities that originate from	Group 4	10 mg/m <sup>3</sup>	
material co	material containing any principal toxic air pollutant	Group 5 or 6		

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 2 Standards of concentration for scheduled premises: afterburners, flares and vapour recovery units

Afterburners and other thermal treatment plant (excluding flares)				
Air impurity	Plant	Standard of concentration		
Type 1 substances and Type 2	Any afterburner or other thermal treatment plant treating air	Group 1, 2, 3 or 4		
substances (in aggregate)	impurities that originate from material containing any principal	Group 5	5 mg/m <sup>3</sup>	
	toxic air pollutant	Group 6	$1 \text{ mg/m}^3$	
Cadmium (Cd) or	Any afterburner or other thermal	Group 1, 2 or 3	—	
mercury (Hg) individually	treatment plant treating air impurities that originate from	Group 4	3 mg/m <sup>3</sup>	
	material containing any principal toxic air pollutant	Group 5	$1 \text{ mg/m}^3$	
		Group 6	0.2 mg/m <sup>3</sup>	
Dioxins or furans	treatment plant treating air	Group 1, 2, 3, 4 or 5	—	
		Group 6	0.1 ng/m <sup>3</sup>	
Smoke	Any afterburner or other thermal treatment plant treating air impurities that originate from material containing any principal toxic air pollutant	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity	
		Group 2, 3, 4, 5 or 6	Ringelmann 1 or 20% opacity	

Flares				
Air impurity	Plant	Standard of concentration		
Volatile organic compounds	Any enclosed ground-level flare treating landfill gas	Group 1, 2, 3, 4 or 5		
(VOCs), as n-propane equivalent		Group 6	40 mg/m <sup>3</sup> VOCs	

Protection of the Environment Operations (Clean Air) Regulation 2010

Standards of concentration for scheduled premises: afterburners, flares and Schedule 2 vapour recovery units

Flares				
Air impurity	Plant Any flare	Standard of cond	of concentration	
Smoke			ngelmann 3 or % opacity	
			ngelmann 2 or % opacity	
			ngelmann 1 or % opacity	
		en tha pe tha	o visible nission other an for a total riod of no more an 5 minutes in y 2 hours	

Vapour recovery units and other non-thermal treatment plant				
Air impurity	Plant	Standard of concentration		
Volatile organic compounds	air impurities that originate from as material containing any principal toxic air pollutant	Group 1, 2, 3, 4 or 5	_	
(VOCs), as n-propane equivalent		Group 6	20 mg/m <sup>3</sup> VOCs	
	air impurities that originate from	Group 1, 2, 3, 4 or 5	—	
		Group 6	40 mg/m <sup>3</sup> VOCs	

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 3 Standards of concentration for scheduled premises: activities and plant used for specific purposes

#### Schedule 3 Standards of concentration for scheduled premises: activities and plant used for specific purposes

(Clause 38)

Air impurity	Activity or plant	Standard of concentration	
Solid particles	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>
(Total)	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	20 mg/m <sup>3</sup>
Sulfur dioxide	Acid production	Group 1	5,600 mg/m <sup>3</sup>
(SO <sub>2</sub> )		Group 2, 3, 4 or 5	2,800 mg/m <sup>3</sup>
		Group 6	1,000 mg/m <sup>3</sup>
Sulfuric acid mist	Acid production	Group 1	200 mg/m <sup>3</sup>
$(H_2SO_4)$ or sulfur trioxide (SO <sub>3</sub> ) or both, as SO <sub>3</sub> equivalent		Group 2, 3, 4, 5 or 6	100 mg/m <sup>3</sup>
Nitrogen dioxide $(NO_2)$ or nitric	Acid production	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
oxide (NO) or both, as $NO_2$		Group 5	2,000 mg/m <sup>3</sup>
equivalent		Group 6	350 mg/m <sup>3</sup>
Smoke	Acid production	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 of 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity

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Aluminium: primary production				
Air impurity	Activity or plant	Standard of concentration		
Solid particles	Any activity or plant (except as	Group 1	400 mg/m <sup>3</sup>	
(Total)	listed below)	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	50 mg/m <sup>3</sup>	
	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>	
	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	20 mg/m <sup>3</sup>	
Nitrogen dioxide $(NO_2)$ or nitric	Pre-baked anode production	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
oxide (NO) or both, as NO <sub>2</sub>		Group 5	2,000 mg/m <sup>3</sup>	
equivalent		Group 6	300 mg/m <sup>3</sup>	
Fluorine $(F_2)$ and	Production of aluminium from alumina	Group 1	40 mg/m <sup>3</sup>	
any compound containing		Group 2	20 mg/m <sup>3</sup>	
fluorine, as total fluoride (HF		Group 3 or 4	1.0 kg/t Al	
equivalent)		Group 5	0.8 kg/t Al	
		Group 6	0.6 kg/t Al	
Dioxins or furans	Pre-baked anode production	Group 1, 2, 3, 4 or 5		
		Group 6	$0.1 \text{ ng/m}^3$	
Volatile organic	Pre-baked anode production	Group 1		
compounds (VOCs), as n-propane equivalent		Group 2, 3 or 4		
		Group 5		
		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO	

Protection of the Environment Operations (Clean Air) Regulation 2010

Aluminium: primary production				
Air impurity Smoke	Activity or plant Pre-baked anode production	Standard of concentration		
		Group 1, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity	
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity	

Aluminium: secondary production			
Air impurity	Activity or plant	Standard of concentration	
Solid particles	Any activity or plant, including	Group 1	400 mg/m <sup>3</sup>
(Total)	any smelting, refining or holding furnace (except as listed below)	Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	50 mg/m <sup>3</sup>
	Any crushing, grinding, separating or materials handling activity	Group 1	400 mg/m <sup>3</sup>
		Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	$20 \text{ mg/m}^3$
Nitrogen dioxide (NO <sub>2</sub> ) or nitric oxide (NO) or both, as NO <sub>2</sub> equivalent	Any activity or plant, including	Group 1	2,500 mg/m <sup>3</sup>
	any smelting, refining or holding furnace	Group 2, 3 or 4	2,500 mg/m <sup>3</sup>
		Group 5	2,000 mg/m <sup>3</sup>
		Group 6	300 mg/m <sup>3</sup>

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Aluminium: secondary production			
Air impurity	Activity or plant	Standard of concentration	
Fluorine (F <sub>2</sub> ) or	Any smelting or refining furnace	Group 1	100 mg/m <sup>3</sup>
any compound containing fluorine, as total fluoride (HF equivalent)		Group 2, 3, 4, 5 or 6	50 mg/m <sup>3</sup>
Type 1 substances	Any smelting or refining furnace	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)		Group 4	10 mg/m <sup>3</sup>
		Group 5 or 6	—
Type 1 substances and Type 2	Any smelting or refining furnace	Group 1, 2, 3 or 4	
substances (in aggregate)		Group 5	5 mg/m <sup>3</sup>
		Group 6	1 mg/m <sup>3</sup>
Cadmium (Cd) or	Any smelting or refining furnace	Group 1, 2 or 3	—
mercury (Hg) individually		Group 4	$3 \text{ mg/m}^3$
-		Group 5	$1 \text{ mg/m}^3$
		Group 6	$0.2 \text{ mg/m}^3$
Dioxins or furans	Any smelting or refining furnace	Group 1, 2, 3, 4 or 5	
		Group 6	0.1 ng/m <sup>3</sup>
Volatile organic compounds	Any smelting or refining furnace	Group 1, 2, 3, 4 or 5	—
(VOCs), as n-propane equivalent		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CC

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Aluminium: secondary production				
<b>Air impurity</b> Smoke	Activity or plant Any activity or plant	Standard of concentration		
		Group 1, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity	
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity	

Cement or lime production or cement or lime handling			
Air impurity	Activity or plant	Standard of concentration	
Solid particles	Any kiln	Group 1	400 mg/m <sup>3</sup>
(Total)		Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	50 mg/m <sup>3</sup>
	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>
	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	20 mg/m <sup>3</sup>
Nitrogen dioxide (NO <sub>2</sub> ) or nitric	Any kiln other than a lime kiln Any lime kiln	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
oxide (NO) or both, as $NO_2$		Group 5	2,000 mg/m <sup>3</sup>
equivalent		Group 6	500 mg/m <sup>3</sup>
		Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
		Group 5	2,000 mg/m <sup>3</sup>
		Group 6	400 mg/m <sup>3</sup>

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Cement or lime production or cement or lime handling			
Air impurity	Activity or plant	Standard of concentration	
Fluorine $(F_2)$ , or	Any kiln fired on a liquid or solid	Group 1	100 mg/m <sup>3</sup>
any compound containing fluorine, as total fluoride (HF equivalent)	standard fuel or a non-standard fuel	Group 2, 3, 4, 5 or 6	50 mg/m <sup>3</sup>
Type 1 substances	Any kiln fired on a non-standard	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)	fuel	Group 4	10 mg/m <sup>3</sup>
		Group 5 or 6	—
Type 1 substances and Type 2	Any kiln fired on a non-standard fuel	Group 1, 2, 3 or 4	
substances (in aggregate)		Group 5	$5 \text{ mg/m}^3$
		Group 6	$1 \text{ mg/m}^3$
Cadmium (Cd) or	Any kiln fired on a non-standard fuel	Group 1, 2 or 3	—
mercury (Hg) individually		Group 4	$3 \text{ mg/m}^3$
-		Group 5	$1 \text{ mg/m}^3$
		Group 6	0.2 mg/m <sup>3</sup>
Dioxins or furans	Any kiln fired on a non-standard fuel that contains precursors of dioxin or furan formation	Group 1, 2, 3, 4 or 5	
		Group 6	0.1 ng/m <sup>3</sup>
Volatile organic compounds	Any kiln fired on a non-standard fuel	Group 1, 2, 3, 4 or 5	
(VOCs), as n-propane equivalent		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO

Protection of the Environment Operations (Clean Air) Regulation 2010

Cement or lime production or cement or lime handling				
Air impurity Smoke	Activity or plant Any kiln	Standard of concentration		
		Group 1, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity	
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity	

Ceramic works				
Air impurity	Activity or plant	Standard of concentration		
Solid particles	Any kiln or dryer	Group 1	400 mg/m <sup>3</sup>	
(Total)		Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	50 mg/m <sup>3</sup>	
	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>	
	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	20 mg/m <sup>3</sup>	
Nitrogen dioxide $(NO_2)$ or nitric	Any kiln or dryer	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
oxide (NO) or both, as $NO_2$		Group 5	2,000 mg/m <sup>3</sup>	
equivalent		Group 6	500 mg/m <sup>3</sup>	
Fluorine ( $F_2$ ), or	Any kiln or dryer	Group 1	100 mg/m <sup>3</sup>	
any compound containing fluorine, as total fluoride (HF equivalent)		Group 2, 3, 4, 5 or 6	50 mg/m <sup>3</sup>	

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Ceramic works			
Air impurity	Activity or plant	Standard of co	oncentration
Hydrogen chloride (HCl)	Any activity, other than the manufacture of glazed terracotta	Group 1, 2, 3 or 4	400 mg/m <sup>3</sup>
	roofing tiles	Group 5 or 6	100 mg/m <sup>3</sup>
	Manufacture of glazed terracotta roofing tiles	Group 1, 2, 3 or 4	—
		Group 5 or 6	100 mg/m <sup>3</sup>
Type 1 substances	Any kiln or dryer fired on a	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)	non-standard fuel	Group 4	$10 \text{ mg/m}^3$
		Group 5 or 6	—
Type 1 substances and Type 2	Any kiln or dryer fired on a non-standard fuel	Group 1, 2, 3 or 4	—
substances (in aggregate)		Group 5	5 mg/m <sup>3</sup>
		Group 6	$1 \text{ mg/m}^3$
Cadmium (Cd) or	Any kiln or dryer fired on a non-standard fuel	Group 1, 2 or 3	
mercury (Hg) individually		Group 4	$3 \text{ mg/m}^3$
		Group 5	$1 \text{ mg/m}^3$
		Group 6	$0.2 \text{ mg/m}^3$
Dioxins or furans	Any kiln or dryer fired on a non-standard fuel that contains precursors of dioxin or furan formation	Group 1, 2, 3, 4 or 5	—
		Group 6	0.1 ng/m <sup>3</sup>
Volatile organic compounds	Any kiln or dryer fired on a non-standard fuel	Group 1, 2, 3, 4 or 5	—
(VOCs), as n-propane equivalent		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO

Protection of the Environment Operations (Clean Air) Regulation 2010

Ceramic works			
Air impurity	Activity or plant	Standard of concentration	
Smoke		Group 1, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity
	Any kiln used for firing dark red or dark brown face bricks formed	Group 1	Ringelmann 3 or 60% opacity
	by dry press brick machines	Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity

Electricity generation			
Air impurity	Activity or plant	Standard of concentration	
Solid particles (Total) Any activity or plar or solid standard fu non-standard fuel	Any activity or plant using a liquid	Group 1	400 mg/m <sup>3</sup>
	or solid standard fuel or a non-standard fuel	Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	50 mg/m <sup>3</sup>
	Any crushing, grinding, separating or materials handling activity	Group 1	400 mg/m <sup>3</sup>
		Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	20 mg/m <sup>3</sup>

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Electricity generation				
Air impurity	Activity or plant	Standard of concentration		
Nitrogen dioxide $(NO_2)$ or nitric	Any boiler operating on a fuel other than gas, including a boiler	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
oxide (NO) or both, as $NO_2$	used in connection with an electricity generator that forms	Group 5	800 mg/m <sup>3</sup>	
equivalent	part of an electricity generating system with a capacity of 30 MW or more	Group 6	500 mg/m <sup>3</sup>	
	Any turbine operating on gas, being a turbine used in connection	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
	with an electricity generating system with a capacity of 30 MW or more	Group 5 or 6	70 mg/m <sup>3</sup>	
	Any turbine operating on a fuel other than gas, being a turbine used in connection with an electricity generating system with a capacity of 30 MW or more	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
		Group 5	150 mg/m <sup>3</sup>	
		Group 6	90 mg/m <sup>3</sup>	
Fluorine $(F_2)$ and	Any activity or plant using a liquid or solid standard fuel or a non-standard fuel	Group 1	100 mg/m <sup>3</sup>	
any compound containing fluorine, as total fluoride (HF equivalent)		Group 2, 3, 4, 5 or 6	50 mg/m <sup>3</sup>	
Type 1 substances	Any activity or plant using a non-standard fuel	Group 1, 2 or 3	20 mg/m <sup>3</sup>	
(in aggregate)		Group 4	10 mg/m <sup>3</sup>	
		Group 5 or 6	—	
Type 1 substances and Type 2	Any activity or plant using a non-standard fuel	Group 1, 2, 3 or 4	—	
substances (in aggregate)		Group 5	5 mg/m <sup>3</sup>	
		Group 6	1 mg/m <sup>3</sup>	
Cadmium (Cd) or	Any activity or plant using a	Group 1, 2 or 3	—	
mercury (Hg) individually	non-standard fuel	Group 4	$3 \text{ mg/m}^3$	
5		Group 5	$1 \text{ mg/m}^3$	
		Group 6	0.2 mg/m <sup>3</sup>	

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Electricity generation			
Air impurity	Activity or plant Any activity or plant using a non-standard fuel that contains	Standard of concentration	
Dioxins or furans		Group 1, 2, 3, 4 or 5	
	precursors of dioxin or furan formation	Group 6	0.1 ng/m <sup>3</sup>
Volatile organic compounds	mpounds non-standard fuel OCs), as propane	Group 1, 2, 3, 4 or 5	—
(VOCs), as n-propane equivalent		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO
Smoke	Any activity or plant using a liquid or solid standard fuel or a non-standard fuel	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity

Glass production				
Air impurity	Activity or plant	Standard of concentration		
Solid particles (Total)       Any melting furnace         Any crushing, grinding, separating or materials handling activity	Any melting furnace	Group 1	400 mg/m <sup>3</sup>	
		Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	50 mg/m <sup>3</sup>	
	Group 1	400 mg/m <sup>3</sup>		
		Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	20 mg/m <sup>3</sup>	

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Glass production	Activity or plant	Standard of co	oncentration
Nitrogen dioxide (NO <sub>2</sub> ) or nitric	Any melting furnace except manufacture of glass using	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
oxide (NO) or both, as $NO_2$	sodium nitrate (NaNO <sub>3</sub> )	Group 5	2,000 mg/m <sup>3</sup>
equivalent		Group 6	700 mg/m <sup>3</sup>
	Any melting furnace for manufacture of glass using	Group 1, 2, 3, 4 or 5	4,000 mg/m <sup>3</sup>
	sodium nitrate (NaNO <sub>3</sub> ).	Group 6	1,500 mg/m <sup>3</sup>
Type 1 substances	Any melting furnace	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)		Group 4	10 mg/m <sup>3</sup>
		Group 5 or 6	—
Type 1 substances and Type 2	Any melting furnace	Group 1, 2, 3 or 4	—
substances (in aggregate)		Group 5	5 mg/m <sup>3</sup>
		Group 6	$1 \text{ mg/m}^3$
Cadmium (Cd) or	Any melting furnace	Group 1, 2 or 3	
mercury (Hg) individually		Group 4	$3 \text{ mg/m}^3$
2		Group 5	$1 \text{ mg/m}^3$
		Group 6	0.2 mg/m <sup>3</sup>
Smoke	Any melting furnace	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity

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Iron and steel: p Air impurity	Activity or plant	Standard of concentration	
Solid particles	Any fuel burning equipment	Group 1	$400 \text{ mg/m}^3$
(Total)	Any sinter plant	Group 2, 3 or 4	250 mg/m <sup>3</sup>
	Any kiln	Group 5	100 mg/m <sup>3</sup>
	Any power-generating plant Any furnace	Group 6	50 mg/m <sup>3</sup>
	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>
	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>
	5	Group 5	100 mg/m <sup>3</sup>
		Group 6	20 mg/m <sup>3</sup>
Nitrogen dioxide (NO <sub>2</sub> ) or nitric	Any fuel burning equipment Any sinter plant Any kiln Any power-generating plant Any furnace	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
oxide (NO) or both, as $NO_2$		Group 5	$2,000 \text{ mg/m}^3$
equivalent		Group 6	500 mg/m <sup>3</sup>
Hydrogen sulfide ( $H_2S$ ) (see also clause 42)	Any fuel burning equipment Any sinter plant Any kiln Any power-generating plant Any furnace Any reduction control system not followed by combustion	Group 1, 2, 3, 4, 5 or 6	5 mg/m <sup>3</sup>
Volatile organic compounds (VOCs), as n-propane equivalent	Any activity or plant using a non-standard fuel	Group 1, 2, 3, 4 or 5	—
		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CC
Type 1 substances	Any activity or plant	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)		Group 4	10 mg/m <sup>3</sup>
		Group 5 or 6	

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Iron and steel: primary production			
Air impurity	Activity or plant	Standard of concentration	
Type 1 substances and Type 2	Any activity or plant	Group 1, 2, 3 or 4	—
substances (in aggregate)		Group 5	5 mg/m <sup>3</sup>
		Group 6	1 mg/m <sup>3</sup>
	Any activity or plant	Group 1	—
mercury (Hg) individually		Group 2, 3 or 4	3 mg/m <sup>3</sup>
5		Group 5	1 mg/m <sup>3</sup>
		Group 6	0.2 mg/m <sup>3</sup>
Dioxins or furans	Any sinter plant	Group 1, 2, 3, 4 or 5	—
		Group 6	0.1 ng/m <sup>3</sup>
Smoke	Any fuel burning equipment Any sinter plant Any kiln Any power-generating plant Any furnace	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity

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Air impurity	Activity or plant	Standard of concentration	
Solid particles	Any fuel burning equipment	Group 1	400 mg/m <sup>3</sup>
(Total)		Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	50 mg/m <sup>3</sup>
	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>
	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>
	Any electric arc furnace	Group 5	100 mg/m <sup>3</sup>
		Group 6	20 mg/m <sup>3</sup>
Nitrogen dioxide $(NO_2)$ or nitric	Any activity or plant except any electric arc furnace	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
oxide (NO) or both, as NO <sub>2</sub>		Group 5	2,000 mg/m <sup>3</sup>
equivalent		Group 6	350 mg/m <sup>3</sup>
Type 1 substances	Any steelmaking furnace	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)		Group 4	$10 \text{ mg/m}^3$
		Group 5 or 6	
Type 1 substances and Type 2	Any steelmaking furnace	Group 1, 2, 3 or 4	
substances (in aggregate)		Group 5	$5 \text{ mg/m}^3$
		Group 6	$1 \text{ mg/m}^3$
Cadmium (Cd) or	Any steelmaking furnace	Group 1	
mercury (Hg) individually		Group 2, 3 or 4	$3 \text{ mg/m}^3$
2		Group 5	$1 \text{ mg/m}^3$
		Group 6	0.2 mg/m <sup>3</sup>
Dioxins or furans	Any steelmaking furnace	Group 1, 2, 3, 4 or 5	—
		Group 6	0.1 ng/m <sup>3</sup>

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Iron and steel: secondary production				
Air impurity	Activity or plant	Standard of co	oncentration	
Volatile organic compounds (VOCs), as n-propane equivalent	Any steelmaking furnace	Group 1, 2, 3, 4 or 5	—	
		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO	
Smoke Any steelmaking furnace	Any steelmaking furnace	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity	
	Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity		
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity	

Non-ferrous metals (excluding aluminium): primary production				
Air impurity	Activity or plant	Standard of concentration		
Solid particles	Any sinter plant	Group 1	400 mg/m <sup>3</sup>	
(Total)	Any smelting or refining process	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
	Any alloying or casting process	Group 5	100 mg/m <sup>3</sup>	
	Any fuel burning equipment	Group 6	50 mg/m <sup>3</sup>	
	Any crushing, grinding, separating or materials handling activity	Group 1	400 mg/m <sup>3</sup>	
		Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	20 mg/m <sup>3</sup>	
Nitrogen dioxide (NO <sub>2</sub> ) or nitric oxide (NO) or both, as NO <sub>2</sub> equivalent	Any smelting or refining process Any alloying or casting process	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
	Any sinter plant	Group 5	2,000 mg/m <sup>3</sup>	
	Any fuel burning equipment	Group 6	350 mg/m <sup>3</sup>	

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Air impurity	Activity or plant	Standard of concentration	
Volatile organic compounds	Any activity or plant using a non-standard fuel	Group 1, 2, 3, 4 or 5	
(VOCs), as n-propane equivalent		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CC
Type 1 substances	Any smelting or refining process	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)	Any alloying or casting process	Group 4	10 mg/m <sup>3</sup>
	Any sinter plant	Group 5 or 6	—
Type 1 substances and Type 2	Any smelting or refining process Any alloying or casting process	Group 1, 2, 3 or 4	—
substances (in aggregate)	Any sinter plant	Group 5	5 mg/m <sup>3</sup>
		Group 6	$1 \text{ mg/m}^3$
Cadmium (Cd) or	Any smelting or refining process Any alloying or casting process Any sinter plant	Group 1, 2 or 3	—
mercury (Hg) individually		Group 4	$3 \text{ mg/m}^3$
5		Group 5	$1 \text{ mg/m}^3$
		Group 6	0.2 mg/m <sup>3</sup>
Dioxins or furans	Any sinter plant	Group 1, 2, 3, 4 or 5	
		Group 6	0.1 ng/m <sup>3</sup>
Smoke	Any sinter plant Any smelting or refining process Any alloying or casting process Any fuel burning equipment	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity

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Air impurity	Activity or plant	Standard of concentration	
Solid particles	Any activity or plant (except as	Group 1	400 mg/m <sup>3</sup>
(Total)	listed below)	Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	50 mg/m <sup>3</sup>
	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>
	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	20 mg/m <sup>3</sup>
Nitrogen dioxide $(NO_2)$ or nitric	Any activity or plant	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
oxide (NO) or both, as $NO_2$		Group 5	2,000 mg/m <sup>3</sup>
equivalent		Group 6	300 mg/m <sup>3</sup>
Type 1 substances	Any smelting or refining process	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)		Group 4	$10 \text{ mg/m}^3$
		Group 5 or 6	
Type 1 substances and Type 2	Any smelting or refining process	Group 1, 2, 3 or 4	
substances (in aggregate)		Group 5	$5 \text{ mg/m}^3$
		Group 6	1 mg/m <sup>3</sup>
Cadmium (Cd) or	Any smelting or refining process	Group 1, 2 or 3	
mercury (Hg) individually		Group 4	$3 \text{ mg/m}^3$
2		Group 5	$1 \text{ mg/m}^3$
		Group 6	$0.2 \text{ mg/m}^3$
Dioxins or furans	Any smelting or refining process	Group 1, 2, 3, 4 or 5	
		Group 6	0.1 ng/m <sup>3</sup>

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Non-ferrous metals (excluding aluminium): secondary production				
Air impurity	Activity or plant	Standard of concentration		
Volatile organic compounds	Any smelting or refining process	Group 1, 2, 3, 4 or 5	—	
(VOCs), as n-propane equivalent		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO	
Smoke	Any activity or plant	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity	
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity	

Paper, paper pulp or pulp products industries			
Air impurity	Activity or plant	Standard of concentration	
Solid particles	Solid particles Total)Any boiler used in connection with power generation Any kraft recovery boiler Any lime kiln	Group 1	400 mg/m <sup>3</sup>
(Total)		Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
	Group 6	50 mg/m <sup>3</sup>	
	Any crushing, grinding, separating or materials handling activity	Group 1	400 mg/m <sup>3</sup>
		Group 2, 3 or 4	250 mg/m <sup>3</sup>
		Group 5	100 mg/m <sup>3</sup>
		Group 6	20 mg/m <sup>3</sup>

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Air impurity	Activity or plant	Standard of concentration	
Nitrogen dioxide (NO <sub>2</sub> ) or nitric	Any boiler used in connection with power generation	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
oxide (NO) or both, as $NO_2$	Any kraft recovery boiler	Group 5	2,000 mg/m <sup>3</sup>
equivalent		Group 6	300 mg/m <sup>3</sup>
	Any lime kiln	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
		Group 5	2,000 mg/m <sup>3</sup>
		Group 6	$400 \text{ mg/m}^3$
Hydrogen sulfide $(H_2S)$ (see also clause 42)	Any kraft recovery boiler Any lime kiln	Group 1, 2, 3, 4, 5 or 6	5 mg/m <sup>3</sup>
clause 42)	Any digester system, if not followed by combustion		
	Any brown stock washer system, if not followed by combustion		
	Any condensate stripper, if not followed by combustion		
Total reduced sulfides (TRS), as	Any kraft recovery boiler Any lime kiln	Group 1, 2, 3, 4 or 5	_
$H_2S$ equivalent	Any digester system, if not followed by combustion	Group 6	4 mg/m <sup>3</sup>
	Any brown stock washer system, if not followed by combustion		
	Any condensate stripper, if not followed by combustion		
Type 1 substances	Any boiler used in connection	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)	with power generation using a non-standard fuel	Group 4	$10 \text{ mg/m}^3$
	Any lime kiln using a non-standard fuel	Group 5 or 6	
Type 1 substances and Type 2	Any boiler used in connection with power generation using a	Group 1, 2, 3 or 4	
substances (in aggregate)	non-standard fuel Any lime kiln using a	Group 5	5 mg/m <sup>3</sup>
	non-standard fuel	Group 6	$1 \text{ mg/m}^3$

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Air impurity	Activity or plant	Standard of concentration	
Cadmium (Cd) or	Any boiler used in connection	Group 1, 2 or 3	
mercury (Hg) individually	with power generation using a non-standard fuel	Group 4	3 mg/m <sup>3</sup>
	Any lime kiln using a	Group 5	$1 \text{ mg/m}^3$
	non-standard fuel	Group 6	0.2 mg/m <sup>3</sup>
Dioxins or furans	Any kraft recovery boiler Any boiler used in connection	Group 1, 2, 3, 4 or 5	_
	with power generation using a non-standard fuel that contains precursors of dioxin or furan formation Any lime kiln using a non-standard fuel that contains precursors of dioxin or furan formation	Group 6	0.1 ng/m <sup>3</sup>
Volatile organic compounds	Any boiler used in connection with power generation using a non-standard fuel Any lime kiln using a non-standard fuel	Group 1, 2, 3, 4 or 5	_
(VOCs), as n-propane equivalent		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CC
Methanol	Any kraft recovery boiler	Group 1, 2, 3, 4 or 5	_
		Group 6	0.012 kg/t of black liquor solids fired
Smoke	Any lime kiln Any kraft recovery boiler Any boiler used in connection with power generation	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity

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Petrochemical production				
Air impurity	Activity or plant	Standard of concentration		
Solid particles	Any activity or plant (except as	Group 1	400 mg/m <sup>3</sup>	
(Total)	listed below)	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	50 mg/m <sup>3</sup>	
	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>	
	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	20 mg/m <sup>3</sup>	
Nitrogen dioxide $(NO_2)$ or nitric	Any fuel burning equipment	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
oxide (NO) or both, as NO <sub>2</sub>		Group 5	2,000 mg/m <sup>3</sup>	
equivalent		Group 6	350 mg/m <sup>3</sup>	
Hydrogen sulfide $(H_2S)$ (see also clause 42)	Any reduction control system not followed by combustion Any sulfur recovery plant	Group 1, 2, 3, 4, 5 or 6	5 mg/m <sup>3</sup>	
Volatile organic compounds (VOCs), as n-propane equivalent	Any thermal oxidation process Any catalytic oxidation process Any vapour incineration	Group 1, 2, 3, 4 or 5	—	
		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO	
	Any vapour recovery unit Any distillation process	Group 1, 2, 3, 4 or 5	—	
		Group 6	40 mg/m <sup>3</sup>	

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Petrochemical production				
Air impurity Smoke		Standard of concentration		
		Group 1, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity	
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity	
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity	

Petroleum refining				
Air impurity	Activity or plant	Standard of concentration		
Solid particles	Any fuel burning equipment	Group 1	400 mg/m <sup>3</sup>	
(Total)	Any fluidised bed catalytic cracking unit regenerator	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
	cracking unit regenerator	Group 5	100 mg/m <sup>3</sup>	
		Group 6	50 mg/m <sup>3</sup>	
Nitrogen dioxide $(NO_2)$ or nitric	Any fuel burning equipment Any fluidised bed catalytic cracking unit regenerator	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>	
oxide (NO) or both, as $NO_2$		Group 5	2,000 mg/m <sup>3</sup>	
equivalent		Group 6	350 mg/m <sup>3</sup>	
Hydrogen sulfide $(H_2S)$ (see also clause 42)	Any reduction control system not followed by combustion Any sulfur recovery plant	Group 1, 2, 3, 4, 5 or 6	5 mg/m <sup>3</sup>	

Protection of the Environment Operations (Clean Air) Regulation 2010

Petroleum refin	Petroleum refining				
Air impurity	Activity or plant	Standard of concentration			
Volatile organic compounds	Any thermal oxidation process Any catalytic oxidation process	Group 1, 2, 3, 4 or 5	—		
(VOCs), as n-propane equivalent	Any vapour incineration	Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO		
1	Any vapour recovery unit Any distillation process	Group 1, 2, 3, 4 or 5	—		
		Group 6	40 mg/m <sup>3</sup> VOCs		
Smoke	Any fuel burning equipment using a liquid or solid standard fuel or a non-standard fuel Fluidised bed catalytic cracking unit regenerator Any boiler used in connection	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity		
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity		
with power generation	Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity			
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity		

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 4 Standards of concentration for scheduled premises: general activities and plant

## Schedule 4 Standards of concentration for scheduled premises: general activities and plant

(Clause 38)

General standards of concentration				
Air impurity	Activity or plant Any activity or plant (except as	Standard of concentration		
Solid particles		Group 1	400 mg/m <sup>3</sup>	
(Total)	listed below)	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	50 mg/m <sup>3</sup>	
	Any plant used for heating metals	Group 1	250 mg/m <sup>3</sup>	
		Group 2, 3 or 4	200 mg/m <sup>3</sup>	
		Group 5	100 mg/m <sup>3</sup>	
		Group 6	50 mg/m <sup>3</sup>	
	Any crushing, grinding,	Group 1	400 mg/m <sup>3</sup>	
	separating or materials handling activity	Group 2, 3 or 4	250 mg/m <sup>3</sup>	
	····· ,	Group 5	100 mg/m <sup>3</sup>	
		Group 6	20 mg/m <sup>3</sup>	

Protection of the Environment Operations (Clean Air) Regulation 2010

Standards of concentration for scheduled premises: general activities and Schedule 4 plant

Air impurity	Activity or plant	Standard of concentration	
Nitrogen dioxide (NO <sub>2</sub> ) or Nitric	Any activity or plant (except boilers, gas turbines and stationary	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
oxide (NO) or both, as $NO_2$	reciprocating internal combustion engines listed below)	Group 5	2,000 mg/m <sup>3</sup>
equivalent		Group 6	350 mg/m <sup>3</sup>
	Any boiler operating on gas	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
		Group 5 or 6	350 mg/m <sup>3</sup>
	Any boiler operating on a fuel other than gas, including a boiler	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
	used in connection with an electricity generator that forms part of an electricity generating system with a capacity of less than 30 MW	Group 5 or 6	500 mg/m <sup>3</sup>
	Any turbine operating on gas, being a turbine used in connection with an electricity generating system with a capacity of less than 10 MW	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
		Group 5	90 mg/m <sup>3</sup>
		Group 6	70 mg/m <sup>3</sup>
	Any turbine operating on gas, being a turbine used in connection with an electricity generating system with a capacity of 10 MW or greater but less than 30 MW	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
		Group 5 or 6	70 mg/m <sup>3</sup>
	Any turbine operating on a fuel other than gas, being a turbine used in connection with an electricity generating system with a capacity of less than 10 MW	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
		Group 5 or 6	90 mg/m <sup>3</sup>
	Any turbine operating on a fuel other than gas, being a turbine	Group 1, 2, 3 or 4	2,500 mg/m <sup>3</sup>
	used in connection with an electricity generating system with	Group 5	150 mg/m <sup>3</sup>
	a capacity of 10 MW or greater but less than 30 MW	Group 6	90 mg/m <sup>3</sup>
	Stationary reciprocating internal combustion engines	Group 1, 2, 3, 4 or 5	
		Group 6	450 mg/m <sup>3</sup>

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Schedule 4 Standards of concentration for scheduled premises: general activities and plant

Air impurity	Activity or plant	Standard of concentration	
Sulfur dioxide	Sulfuric acid manufacture using	Group 1	5,600 mg/m <sup>3</sup>
(SO <sub>2</sub> )	elemental sulfur	Group 2, 3, 4 or 5	2,800 mg/m <sup>3</sup>
		Group 6	1,000 mg/m <sup>3</sup>
	Sulfuric acid manufacture using other than elemental sulfur	Group 1, 2, 3, 4 or 5	7,200 mg/m <sup>3</sup>
		Group 6	1,000 mg/m <sup>3</sup>
Sulfuric acid mist	Any activity or plant	Group 1	200 mg/m <sup>3</sup>
$(H_2SO_4)$ or sulfur trioxide $(SO_3)$ or both, as $SO_3$ equivalent	$1, as SO_3$		100 mg/m <sup>3</sup>
Hydrogen sulfide $(H_2S)$ (see also clause 42)	Any activity or plant	Group 1, 2, 3, 4, 5 or 6	5 mg/m <sup>3</sup>
	Any activity or plant, other than	Group 1	100 mg/m <sup>3</sup>
any compound containing fluorine, as total fluoride (HF equivalent)	the manufacture of aluminium from alumina	Group 2, 3, 4, 5 or 6	50 mg/m <sup>3</sup>
Chlorine (Cl <sub>2</sub> )	Any activity or plant	Group 1, 2, 3, 4, 5 or 6	200 mg/m <sup>3</sup>
Hydrogen chloride (HCl)	Any activity, other than the manufacture of glazed terracotta roofing tiles	Group 1, 2, 3 or 4	400 mg/m <sup>3</sup>
		Group 5 or 6	100 mg/m <sup>3</sup>
	Manufacture of glazed terracotta roofing tiles	Group 1, 2, 3 or 4	
		Group 5 or 6	100 mg/m <sup>3</sup>
Type 1 substances	Any activity or plant	Group 1, 2 or 3	20 mg/m <sup>3</sup>
(in aggregate)		Group 4	$10 \text{ mg/m}^3$
		Group 5 or 6	

Protection of the Environment Operations (Clean Air) Regulation 2010

Standards of concentration for scheduled premises: general activities and Schedule 4 plant

General standards of concentration			
Air impurity	Activity or plant	Standard of concentration	
Type 1 substances and Type 2	Any activity or plant	Group 1, 2, 3 or 4	_
substances (in aggregate)		Group 5	5 mg/m <sup>3</sup>
		Group 6	$1 \text{ mg/m}^3$
Cadmium (Cd) or	Any activity or plant	Group 1, 2 or 3	—
mercury (Hg) individually		Group 4	$3 \text{ mg/m}^3$
		Group 5	$1 \text{ mg/m}^3$
		Group 6	$0.2 \text{ mg/m}^3$
Dioxins or furans	Any activity or plant using a non-standard fuel that contains precursors of dioxin or furan formation	Group 1, 2, 3, 4 or 5	—
		Group 6	0.1 ng/m3
	Incinerator that processes waste	Group 1, 2, 3 or 4	—
		Group 5 or 6	0.1 ng/m <sup>3</sup>
Volatile organic compounds	Any activity or plant involving combustion (except as listed	Group 1, 2, 3, 4 or 5	
(VOCs), as n-propane	below)	Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO
	Any stationary reciprocating internal combustion engine using a gaseous fuel	Group 1, 2, 3, 4 or 5	—
		Group 6	40 mg/m <sup>3</sup> VOCs or 125 mg/m <sup>3</sup> CO
	Any stationary reciprocating internal combustion engine using	Group 1, 2, 3, 4 or 5	—
	a liquid fuel	Group 6	1140 mg/m <sup>3</sup> VOCs or 5880 mg/m <sup>3</sup> CO

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 4 Standards of concentration for scheduled premises: general activities and plant

General standards of concentration			
Air impurity	Activity or plant	Standard of concentration	
Smoke	Any activity or plant in connection with which solid fuel is burnt	Group 1, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 1, in other circumstances	Ringelmann 2 or 40% opacity
		Group 2, 3, 4, 5 or 6, in approved circumstances	Ringelmann 3 or 60% opacity
		Group 2, 3, 4, 5 or 6, in other circumstances	Ringelmann 1 or 20% opacity
	An activity or plant in connection with which liquid or gaseous fuel is burnt	Group 1, 2, 3, 4, 5 or 6	Ringelmann 1 or 20% opacity

Protection of the Environment Operations (Clean Air) Regulation 2010

Test methods, averaging periods and reference conditions for scheduled Schedule 5 premises

## Schedule 5 Test methods, averaging periods and reference conditions for scheduled premises

(Clause 39)

#### Part 1 Test methods

Test methods and monitoring methods			
Air impurity	Test method	Monitoring method	
Solid particles (Total)	TM-15	Not applicable	
Nitrogen dioxide (NO <sub>2</sub> ) or nitric oxide (NO) or both, as NO <sub>2</sub> equivalent	TM-11	CEM-2	
Sulfur dioxide (SO <sub>2</sub> )	TM-4	CEM-2	
Hydrogen sulfide (H <sub>2</sub> S)	TM-5	CEM-7	
Total reduced sulfides (TRS)	TM-33	CEM-5	
Sulfuric acid mist $(H_2SO_4)$ or sulfur trioxide $(SO_3)$ or both, as $SO_3$ equivalent	TM-3	Not applicable	
Chlorine (Cl <sub>2</sub> )	TM-7	Not applicable	
Hydrogen chloride (HCl)	TM-8	Not applicable	
Fluorine ( $F_2$ ) or any compound containing fluorine, as total fluoride (HF equivalent), except where emitted from pot line roof vents at a primary aluminium smelter while manufacturing aluminium from alumina	TM-9	Not applicable	
Hydrogen fluoride (HF) emitted from pot line roof vents at a primary aluminium smelter while manufacturing aluminium from alumina	TM-10	Not applicable	
Type 1 substances and Type 2 substances	TM-12, TM-13 and TM-14	Not applicable	
Cadmium (Cd) or mercury	TM-12, TM-13 and TM-14	Not applicable	
Dioxins or furans	TM-18	Not applicable	
Carbon monoxide (CO)	TM-32	CEM-4	

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 5 Test methods, averaging periods and reference conditions for scheduled premises

Test methods and monitoring methods			
Air impurity	Test method	Monitoring method	
Volatile organic compounds, as n-propane equivalent	TM-34	CEM-8, CEM-9, CEM-10	
Methanol	TM-35	CEM-8, CEM-9, CEM-10	
Smoke (if determining whether a specified standard of concentration of opacity has been exceeded)	Not applicable	CEM-1	
Smoke (if determining whether a specified Ringelmann standard has been exceeded)	TM-16	Not applicable	
Smoke (if determining whether standard for emission of smoke from flares has been exceeded)	TM-37	Not applicable	

#### Part 2 Averaging periods

Averaging periods			
Air impurity	Averaging period		
Sulfuric acid mist $(H_2SO_4)$ or sulfur trioxide $(SO_3)$ or both, as $SO_3$ equivalent	1 hour, or the minimum sampling period specified in		
Fluorine ( $F_2$ ), or any compound containing fluorine, as total fluoride (HF equivalent) (except where emitted by a primary aluminium smelter while manufacturing aluminium from alumina)	the relevant test method referred to in Part 1, whichever is the greater		
Hydrogen Chloride (HCl)			
Cadmium (Cd)			
Dioxins or furans			
Mercury (Hg)			
Type 1 or Type 2 substances			
Solid particles (Total)			
Nitrogen dioxide $(NO_2)$ or nitric oxide $(NO)$ or both, as $NO_2$ equivalent	1 hour block		
Sulfur dioxide (SO <sub>2</sub> )			
Hydrogen sulfide (H <sub>2</sub> S)			
Total reduced sulfides (TRS)			
Chlorine (Cl <sub>2</sub> )			

Protection of the Environment Operations (Clean Air) Regulation 2010

Test methods, averaging periods and reference conditions for scheduled Schedule 5 premises

Averaging periods			
Air impurity	Averaging period		
Volatile organic compounds (VOCs), as n-propane equivalent	1 hour rolling		
Carbon monoxide (CO)			
Hydrogen fluoride (HF) emitted by a primary aluminium smelter while manufacturing aluminium from alumina Methanol	24 hours		
Smoke (if determining whether a specified standard of concentration of opacity has been exceeded)	6 minutes rolling		

#### Part 3 Reference conditions

Reference conditions relating to Group 1, 2, 3 or 4			
Air impurity	Activity or plant	Reference conditions	
All air impurities (except as listed below)	Any activity or plant	Dry, 273 K, 101.3 kPa	
Smoke (if determining whether a specified standard of concentration of opacity has been exceeded)	Any activity or plant	Gas stream temperature above dew point. Path length corrected to stack exit diameter as per CEM-1.	
Solid particles (Total)	Boilers or incinerators	Dry, 273 K, 101.3 kPa, 12% CO <sub>2</sub>	

Reference conditions relating to Group 5 or 6			
Air impurity	Activity or plant	Reference conditions	
All air impurities (except as listed below)	Any activity or plant (except as listed below)	Dry, 273 K, 101.3 kPa	
	Any fuel burning equipment using solid fuel	Dry, 273 K, 101.3 kPa, 7% O <sub>2</sub>	
	Any fuel burning equipment using gas or liquid fuel	Dry, 273 K, 101.3 kPa, 3% O <sub>2</sub>	
	Gas turbines	Dry, 273 K, 101.3 kPa, 15% O <sub>2</sub>	

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 5 Test methods, averaging periods and reference conditions for scheduled premises

Air impurity	Activity or plant	Reference conditions
Smoke (if determining whether a specified standard of concentration of opacity has been exceeded)	Any activity or plant	Gas stream temperature above dew point. Path length corrected to stack exit diameter as per CEM-1.
Dioxins or furans	Incinerators that process waste	Dry, 273 K, 101.3kPa, 11% O <sub>2</sub>

Protection of the Environment Operations (Clean Air) Regulation 2010

Standards of concentration for non-scheduled premises

Schedule 6

### Schedule 6 Standards of concentration for non-scheduled premises

(Clause 44)

Air impurity	Activity or plant	Group	Concentration
Solid particles		Group A	400 mg/m <sup>3</sup>
	as listed below)	Group B	250 mg/m <sup>3</sup>
		Group C	100 mg/m <sup>3</sup>
Smoke	Any activity or plant in which, or in connection with	Group A	Ringelmann 2 or 40% opacity
	which, solid fuel is burnt	Group B or C	Ringelmann 1 or 20% opacity
	Any activity or plant in connection with which liquid or gaseous fuel is burnt	Group A, B or C	Ringelmann 1 or 20% opacity
	Any activity or plant in connection with which solid fuel is burnt	Group A, in relation to marine vessels or premises, in approved circumstances	Ringelmann 3 or 60% opacity
		Group A, in relation to marine vessels or premises, in other circumstances	Ringelmann 2 or 40% opacity
		Group B or C, in relation to marine vessels or premises, in approved circumstances	Ringelmann 3 or 60% opacity, or
		Group B or C, in relation to marine vessels or premises, in other circumstances	Ringelmann 1 or 20% opacity
	Any activity or plant in connection with which liquid or gaseous fuel is burnt	Group A, B or C in relation to marine vessels or premises, in approved circumstances	Ringelmann 3 or 60% opacity
		Group A, B or C, in relation to marine vessels or premises, in other circumstances	Ringelmann 1 or 20% opacity

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 7 Test methods, averaging periods and reference conditions for non-scheduled premises

## Schedule 7 Test methods, averaging periods and reference conditions for non-scheduled premises

(Clause 45)

#### Part 1 Test methods

Test methods and monitoring methods			
Air impurity	Test method	Monitoring method	
Solid particles (Total)	TM-15	Not applicable	
Smoke (if determining whether a specified standard of concentration of opacity has been exceeded)	Not applicable	CEM-1	
Smoke (if determining whether a specified Ringelmann standard has been exceeded)	TM-16	Not applicable	

#### Part 2 Averaging periods

veraging periods	
Air impurity	Averaging period
Solid particles (Total)	1 hour, or the minimum sampling period specified in the relevant test method referred to in Part 1, whichever is the greater
Smoke (if determining whether a specified standard of concentration of opacity has been exceeded)	6 minutes rolling

Protection of the Environment Operations (Clean Air) Regulation 2010

Test methods, averaging periods and reference conditions for Schedule 7 non-scheduled premises

#### Part 3 Reference conditions

Reference conditions relating to Group A		
Air impurity	Activity or plant	Reference conditions
Solid particles (Total)	Any activity or plant (except as listed below)	Dry, 273 K, 101.3 kPa
	Boilers or incinerators	Dry, 273 K, 101.3 kPa, 12% CO <sub>2</sub>
Smoke (if determining whether a specified standard of concentration of opacity has been exceeded)	Any activity or plant	Gas stream temperature above dew point. Path length corrected to stack exit diameter as per CEM-1.

Reference conditions relating to Group B or C		
Air impurity	Activity or plant	Reference conditions
Solid particles (Total)	Any activity or plant (except as listed below)	Dry, 273 K, 101.3 kPa
	Fuel burning equipment using solid fuel	Dry, 273 K, 101.3 kPa, 7% O <sub>2</sub>
	Fuel burning equipment using liquid or gaseous fuel	Dry, 273 K, 101.3 kPa, 3% O <sub>2</sub>
Smoke (if determining whether a specified standard of concentration of opacity has been exceeded)	Any activity or plant	Gas stream temperature above dew point. Path length corrected to stack exit diameter as per CEM-1.

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 8 Local government areas in which burning is prohibited

### Schedule 8 Local government areas in which burning is prohibited

(Clauses 12 and 13 (2))

### Part 1 Areas in which all burning (including burning of vegetation and domestic waste) is prohibited except with approval

Ashfield	Hurstville City	Queanbeyan City
Auburn	Kogarah	Randwick City
Bankstown City	Ku-ring-gai	Rockdale City
Blacktown City	Lake Macquarie City	Ryde City
Botany Bay City	Lane Cove	Shellharbour City
Broken Hill City	Leichhardt	Strathfield
Burwood	Liverpool City	Sutherland Shire
Campbelltown City	Manly	City of Sydney
Canada Bay	Marrickville	Warringah
Canterbury City	Mosman	Waverley
Fairfield City	Newcastle City	Willoughby City
Gosford City	North Sydney	Wollongong City
Holroyd City	Parramatta City	Woollahra
Hunter's Hill	Pittwater	Wyong

### Part 2 Areas in which burning of vegetation is prohibited except with approval

Eurobodalla	Narrabri
Forbes	Narromine
Goulburn Mulwaree	Orange City
Great Lakes	Penrith City
Greater Taree City	Port Macquarie-Hastings
Gunnedah	Port Stephens
Gwydir	Richmond Valley
	Forbes Goulburn Mulwaree Great Lakes Greater Taree City Gunnedah

Protection of the Environment Operations (Clean Air) Regulation 2010

Local government areas in which burning is prohibited

Schedule 8

Bland	Hawkesbury City	Tamworth Regional
Blue Mountains City	Нау	The Hills Shire
Boorowa	Hornsby	Tumut Shire
Bourke	Junee	Tweed
Brewarrina	Kiama	Upper Lachlan Shire
Camden	Leeton	Uralla
Cessnock City	Lismore City	Wagga Wagga City
Clarence Valley	City of Lithgow	Warrumbungle Shire
Coffs Harbour City	Liverpool Plains	Wellington
Cooma-Monaro Shire	Maitland City	Wentworth
Coonamble	Mid-Western Regional	Wingecarribee
Dubbo City	Muswellbrook	Wollondilly
Dungog	Nambucca	

# Part 3 Areas in which all burning (other than burning of vegetation) is prohibited except with approval or in relation to certain domestic waste

City of Albury	Greater Hume Shire	Palerang
Armidale Dumaresq	Greater Taree City	Penrith City
Ballina	Gunnedah	Port Macquarie-Hastings
Balranald	Guyra	Port Stephens
Bathurst Regional	Gwydir	Richmond Valley
Bega Valley	Harden	Shoalhaven City
Bland	Hawkesbury City	Tamworth Regional
Blue Mountains City	Hay	Temora
Boorowa	Hornsby	The Hills Shire
Bourke	Inverell	Tumut Shire
Brewarrina	Junee	Tweed
Camden	Kiama	Upper Hunter Shire
Cessnock City	Kyogle	Upper Lachlan Shire

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 8 Local government areas in which burning is prohibited

Clarence Valley	Leeton	Uralla
Coffs Harbour City	Lismore City	Urana
Coolamon	City of Lithgow	Wagga Wagga City
Cooma-Monaro Shire	Maitland City	Wakool
Coonamble	Mid-Western Regional	Walcha
Cootamundra	Muswellbrook	Warren
Dubbo City	Nambucca	Warrumbungle Shire
Dungog	Narrabri	Wellington
Eurobodalla	Narrandera	Wentworth
Forbes	Narromine	Wingecarribee
Glen Innes Severn	Oberon	Wollondilly
Goulburn Mulwaree	Orange City	Yass Valley
Great Lakes		

Protection of the Environment Operations (Clean Air) Regulation 2010

Amendment of Protection of the Environment Operations (General) Schedule 9 Regulation 2009

#### Schedule 9 Amendment of Protection of the Environment Operations (General) Regulation 2009

#### Schedule 6 Penalty notice offences

Omit the matter relating to the *Protection of the Environment Operations* (Clean Air) Regulation 2002.

Insert instead:

Column 1	Column 2	Column 3	Column 4
Provision of Regulation	Officer	Penalty	Penalty
Clause 10 (1)	1, 2	\$500	\$1,000
Clause 11 (1)	1, 2	\$500	\$1,000
Clause 12 (1)	1, 2	\$500	\$1,000
Clause 12 (2)	1, 2	\$500	\$1,000
Clause 12 (3)	1, 2	\$500	\$1,000
Clause 16 (1)	3	\$200	\$400
Clause 21 (1) in relation to a failure to have a vertical exhaust pipe fitted so that the exhaust vent is directed away from the nearside of the vehicle	3	\$200	
Clause 21 (1) in any other case	3	\$300	_
Clause 22 (1)	3	\$300	_
Clause 23 (1)	3	\$300	—
Clause 25 (2)	3	\$300	
Clause 25 (3)	3	\$300	_
Clause 28 (1)	3	\$750	\$1,500
Clause 28 (2)	3	\$750	\$1,500
Clause 29 (1)	3	\$300	\$600
Clause 30 (1)	3	\$300	\$600
Clause 49	3	\$600	
Clause 58 (1)	3	\$600	_
Clause 58 (2)	3	\$600	

Protection of the Environment Operations (Clean Air) Regulation 2010

Schedule 9 Amendment of Protection of the Environment Operations (General) Regulation 2009

Protection of the Environment Operations (Clean Air) Regulation 2010 Column 1 Column 2 Column 3 Column 4 Provision of Regulation Officer Penalty Penalty Clause 60 (1) 2 \$600 \$1,200 2 Clause 60 (2) \$600 \$1,200 3 \$600 Clause 66 (2) Clause 67 (2) 3 \$600 \_\_\_\_\_ Clause 67 (3) 3 \$600 3 Clause 67 (4) \$600 \_\_\_\_ 2 \$600 Clause 69 (2) \$1,200 Clause 69 (3) 2 \$600 \$1,200 2 Clause 70 \$600 \$1,200 Clause 71 (1) 2 \$600 \$1,200 2 Clause 71 (2) \$600 \$1,200 2 Clause 73 (1) \$600 \$1,200 2 Clause 73 (2) \$600 \$1,200 Clause 75 (1) 2 \$600 \$1,200 Clause 75 (2) 2 \$600 \$1,200 2 Clause 76 (1) \$600 \$1,200 2 Clause 76 (2) \$600 \$1,200 Clause 77 (1) 2 \$600 \$1,200