1987 No. 123

CLEAN AIR

Alkali, &c. Works Order (Northern Ireland) 1987

Made . . . . . *19th March 1987*

Coming into operation . . *1st May 1987*

To be laid before Parliament under paragraph 3(3) of Schedule 1 to the Northern Ireland Act 1974

The Department of the Environment, in exercise of the powers conferred by Article 25(9) of the Clean Air (Northern Ireland) Order 1981(**a**) and of every other power enabling it in that behalf, hereby makes the following Order:—

Citation and commencement

1. This Order may be cited as the Alkali, &c. Works Order (Northern Ireland) 1987 and shall come into operation on 1st May 1987.

Interpretation

2. In this Order—

(*a*) "the Alkali Act" means the Alkali, &c. Works Regulation Act 1906(**b**) as amended by the Alkali, &c. Works Order (Northern Ireland) 1977(**c**);

(*b*) reference to works includes a reference to the materials used in and the products of those works in so far as they are treated, handled or stored by methods which cause noxious or offensive substances to be evolved from those works.

Revocation

3. The Alkali, &c. Works Order (Northern Ireland) 1977 is hereby revoked.

Noxious and offensive gases

4. For the list of noxious or offensive gases mentioned in section 27 of the Alkali Act there shall be substituted the list set out in Schedule 1.

Works

5. For the list of works mentioned in the First Schedule to the Alkali Act there shall be substituted the list of works set out in Schedule 2.

(**a**) S.I. 1981/158 (N.I. 4)
(**b**) 1906 c. 14
(**c**) S.R. 1977 No. 152

Sealed with the Official Seal of the Department of the Environment on 19th March 1987.

(L.S.) *Ian B. McQuiston*
Assistant Secretary

List of Noxious or Offensive Gases in Substitution for that contained in Section 27 of the Alkali Act

The expression "noxious or offensive gas" includes the following gases and fumes:—

Acetic acid or its anhydride
Acetylene
Acrylates
Aldehydes
Amines
Ammonia or its compounds
Arsenic or its compounds
Bromine or its compounds
Carbon disulphide
Carbon dioxide
Carbon monoxide
Chlorine or its compounds
Cyanogen or its compounds
Di-isocyanates
Ethylene and higher olefines
Fluorine or its compounds
Fumaric acid
Fumes or dust containing aluminium, antimony, arsenic, beryllium, cadmium, calcium, chlorine, chromium, copper, iron, lead, magnesium, manganese, mercury, molybdenum, phosphorus, potassium, selenium, silicon, sodium, titanium, tungsten, uranium, vanadium, zinc or their compounds
Fumes or vapours from benzene works, paraffin oil works, petrochemical works, petroleum works, or tar works and bitumen works
Hydrocarbons
Hydrogen sulphide
Iodine or its compounds
Lead or its compounds
Maleic acid or its anhydride
Mercury or its compounds
Metal carbonyls
Muriatic acid (Hydrogen chloride)
Nitric acid or oxides of nitrogen
Nitriles
Phthalic acid or its anhydride
Products containing hydrogen from the partial oxidation of hydrocarbons
Pyridine or its homologues
Smoke, grit and dust
Sulphuric acid or sulphur trioxide

Sulphurous acid or sulphur dioxide
Vinyl chloride
Volatile organic sulphur compounds.

SCHEDULE 2 Article 5

List of Works in Substitution for that contained in the First Schedule to the Alkali Act

LIST OF WORKS

1. Sulphuric acid (Class I) works

   Works in which the manufacture of sulphuric acid is carried on by the lead chamber process, namely, the process by which sulphurous acid is converted into sulphuric acid by the agency of oxides of nitrogen and by the use of a lead chamber or by any other process involving the use of oxides of nitrogen.

2. Sulphuric acid (Class II) works

   Works in which the manufacture of sulphuric acid is carried on by any process other than the lead chamber process, and works for the concentration or distillation of sulphuric acid.

3. Chemical fertilizer works

   Works in which the manufacture of chemical fertilizer is carried on, and works in which any mineral phosphate is subjected to treatment involving chemical change through the application or use of any acid and works for the granulating of chemical fertilizers involving the evolution of any noxious or offensive gas.

4. Gas liquor works

   Works (not being sulphate of ammonia works and chloride of ammonia works as defined in paragraph (6)) in which hydrogen sulphide or any other noxious or offensive gas is evolved by the use of ammoniacal liquor in any manufacturing process, and works in which any such liquor is desulphurized by the application of heat in any process connected with the purification of gas.

5. Nitric acid works

   Works in which the manufacture of nitric acid is carried on and works in which nitric acid is recovered from oxides of nitrogen and works where in the manufacture of any product any acid-forming oxide of nitrogen is evolved.

6. Sulphate of ammonia works, and chloride of ammonia works

   Works in which the manufacture of sulphate of ammonia or of chloride of ammonia is carried on.

7. Chlorine works

   Works in which chlorine is made or used in any manufacturing process.

8. Muriatic acid works (Hydrochloric acid)

   (*a*) muriatic acid works or works (not being alkali works as defined in section 27(1) of the Alkali Act) where muriatic acid gas (hydrogen chloride) is evolved either during the preparation of liquid muriatic acid or for use in any manufacturing process or as the result of the use of chlorides in a chemical process;

   (*b*) tinplate flux works in which any residue or flux from tinplate works is calcined for the utilisation of such residue or flux, and in which muriatic acid gas is evolved; and

   (*c*) salt works (not being works in which salt is produced by refining rock salt, otherwise than by the dissolution of rock salt at the place of deposit) in which the extraction of salt from brine is carried on, and in which muriatic acid gas is evolved.

9. Sulphide works

   Works in which—