(*b*) Test strips.

(i) a test strip shall be made of Whatman No. 1 filter paper or exactly similar white absorbent paper in strips approximately 6 in. by $\frac{3}{4}$ in. in size ;

(ii) there shall be printed on one half of one side of each test strip a blue colour of approximately the same colour and density as that produced on the plain part of a test strip in a test, performed with the materials and in the manner described by this Schedule, in air in which there is a concentration of one part by volume of hydrogen cyanide in one hundred thousand parts of air.*

(*c*) A means for timing accurately a period of ten seconds.

3. The test

(*a*) In making the test the following requirements shall be complied with, that is to say :—

(i) the plain part of a test strip complying with the requirements of sub-paragraph (*b*) of paragraph 2 of this Schedule shall be dipped into a test solution complying with the requirements of sub-paragraph (*a*) of that paragraph and withdrawn from the solution in the air to be tested ;

(ii) the excess solution shall be shaken off the test strip ;

(iii) the test strip shall be waved gently in the air which is being tested ;

(iv) exactly ten seconds after the test strip has been withdrawn from the test solution the density of the colour produced on the plain part of the test strip shall be compared with that on the printed part.

(*b*) If the colour produced on the plain part of the test strip in the test described in sub-paragraph (i) of this paragraph is more dense than that on the printed part of that strip, the concentration of hydrogen cyanide in the air tested exceeds one part in one hundred thousand.

*NOTE :— Test strips complying with the requirements of this Schedule can be obtained from chemical suppliers.

Fumigation of Ships

REGULATIONS DATED THE 6TH DAY OF NOVEMBER, 1952, MADE BY THE MINISTER OF HOME AFFAIRS UNDER SECTION ONE OF THE HYDROGEN CYANIDE (FUMIGATION) ACT (NORTHERN IRELAND), 1938.

1952. No. 212

I, THE RIGHT HONOURABLE BRIAN MAGINESS, Q.C., Minister of Home Affairs for Northern Ireland, in pursuance of Section one of the Hydrogen Cyanide (Fumigation) Act (Northern Ireland), 1938, do hereby make the following Regulations —

1.—(1) These Regulations may be cited as the Hydrogen Cyanide (Fumigation of Ships) Regulations (Northern Ireland), 1952, and shall come into operation on the first day of December, 1952.

(2) In these Regulations :—

" absorbent liquids " means liquids, not being foodstuffs, of such a kind and so stored as to be liable to absorb the fumigant ;

" authorised person " means any person directly engaged in the supervision or carrying out of the fumigation or who is in

possession of a certificate of authority in Form A of the forms set out in the First Schedule to these Regulations permitting him, on behalf of a government department or of a medical officer of health, to attend fumigations ;

" exposed foodstuffs " means foodstuffs, whether liquid or not, which are so stored as to be exposed to the fumigant ;

" first aid " means resuscitation of persons suffering from poisoning by the fumigant and self-protection from the fumigant, and includes the use of the apparatus provided in pursuance of Regulation 9 for the administration of oxygen and carbon-dioxide ;

" fumigant " means hydrogen cyanide from whatever source evolved ;

" fumigation " means the fumigation with hydrogen cyanide of a ship or part of a ship, or anything contained in a ship ;

" harbour authority " means any person or body of persons in whom are vested by or under any Act of Parliament powers and duties of improving, maintaining or managing a harbour or, where as respects any dock within a harbour such powers and duties are separately vested by or under any Act of Parliament in any person or body of persons, that person or body of persons ;

" health authority " means a health authority constituted under the Public Health and Local Government (Administrative Provisions) Act (Northern Ireland), 1946.

" medical officer of health ", except in Regulation 4, means the medical officer of health of the port sanitary authority within whose area the ship is lying or, if the ship is not lying within the area of a port sanitary authority, the medical officer of health of the health authority within whose area the ship is lying or, if the ship is not lying within the area of a port sanitary authority or of a health authority, the medical officer of health of the health authority whose area most nearly adjoins the place where the ship is lying ;

" operator " means the person designated in writing by the undertaker to be in charge of the fumigation ;

" owner " means the owner of the ship or, where the ship is demised to a charterer, that charterer, and includes the master and any other duly authorised agent of the owner or charterer ;

" port sanitary authority " means a port sanitary authority constituted under the Public Health (Ireland) Act, 1896 ;

" risk area " means the ship and any space or structure in the immediate vicinity from which, in the opinion of the operator, persons other than authorised persons should, having regard

to the danger to be apprehended from the penetration of the fumigant from the ship, be excluded ;

" ship " includes any boat or other description of navigable vessel, but does not include aircraft ;

" undertaker " means any person who, under contract or otherwise, by himself or by his agent, undertakes the fumigation.

(3) Nothing in these Regulations shall apply to the fumigation of grain by the admixture therewith of calcium cyanide.

(4) The Interpretation Act, 1889 (a), shall apply to the interpretation of these Regulations as it applies to the interpretation of an Act of the Parliament of Northern Ireland.

2. In connection with any fumigation the requirements of Regulations 3 to 12 of these Regulations shall be observed.

3.—(1) Before commencing the fumigation the undertaker shall complete and sign three copies of a notice of the fumigation in Form B of the forms set out in the First Schedule to these Regulations and shall send one copy —

(*a*) except where the fumigation is to be carried out within the area of a harbour authority, to the officer in charge of the police station for the police district in which the fumigation is to be carried out, or,

(*b*) if the fumigation is to be carried out within the area of a harbour authority, to that authority,

and shall send one copy to the medical officer of health.

(2) Any document required by paragraph (1) of this Regulation to be sent to a person therein specified shall be despatched so as to reach that person not less than twenty-four hours before the commencement of the fumigation unless in any case of special urgency the undertaker has otherwise arranged with that person.

(3) The undertaker shall supply to the medical officer of health any further particulars with regard to the fumigation that he may require.

4.—(1) Where the purpose of the fumigation is or includes the fumigation of foodstuffs, or where it is otherwise intended to leave exposed foodstuffs in the ship, the undertaker shall, before undertaking the fumigation, apply for a certificate (hereinafter called a foodstuffs fumigation certificate) authorising the fumigation or the retention in the ship of such foodstuffs as are specified therein, and the application shall be made —

(*a*) In any case where the fumigation is to be carried out solely for the purpose of compliance with any regulations made, or having effect, under Sections one hundred and forty-eight

(a) 52 & 53 Vict. c. 63

and one hundred and forty-nine of the Public Health (Ireland) Act, 1878, and Section one hundred and forty-three of the Public Health Act, 1936, as extended to Northern Ireland by the Public Health (Northern Ireland) (Extension of Enactments) Order, 1939, (which Sections empower the making of regulations for the treatment of certain diseases and for preventing the spread of such diseases), to the medical officer of health appropriate to the case.

(*b*) In any case where the fumigation is to be carried out solely for the purpose of compliance with a notice served under Section five of the Rats and Mice (Destruction) Act, 1919, (which empowers certain authorities to serve a notice requiring the taking of steps to destroy rats and mice), to the medical officer of health appropriate to the case.

(*c*) In any other case, to a person designated for that purpose by the Ministry of Agriculture, Northern Ireland.

(2) On any such application as aforesaid the person to whom the application was made may, subject as provided in paragraph (3) of this Regulation, grant a foodstuffs fumigation certificate authorising the fumigation or the retention in the ship of such foodstuffs as are specified therein on such conditions stated in the certificate as he may think necessary to prevent danger from the contamination of those foodstuffs by exposure to the fumigant, and the undertaker shall take all steps necessary to ensure that the operator shall comply with any conditions stated in the certificate.

(3) Where such an application as aforesaid is made to a person designated for the purpose by the Ministry of Agriculture, and the purposes for which the fumigation is to be carried out include the purpose mentioned in sub-paragraph (*a*) of paragraph (1) of this Regulation, or the purpose mentioned in sub-paragraph (*b*) of the said paragraph, or both such purposes, the person to whom the application is made shall, before granting a foodstuffs fumigation certificate, consult the medical officer of health appropriate to the case or, if there are two such medical officers, both of them.

(4) In this Regulation a reference to the medical officer of health appropriate to the case is —

(*a*) in relation to the purpose referred to in sub-paragraph (*a*) of paragraph (1) of this Regulation, a reference to the medical officer of health of the authority by whom the regulations referred to in the said sub-paragraph are enforced and executed in the place where the ship is lying ;

(*b*) in relation to the purpose specified in sub-paragraph (*b*) of the said paragraph, a reference to the medical officer of health of the authority by whom the notice referred to in the said sub-paragraph was served.

5.—(1) The fumigation shall not be carried out except by an adequate fumigating staff, which shall consist of at least two persons.

(2) One member of the fumigating staff shall be designated in writing by the undertaker to be the operator in charge of the fumigation.

(3) The operator shall during the two years immediately preceding the fumigation have been engaged in fumigating with the fumigant on not less than twenty occasions, of which not less than six shall have been concerned with fumigating ships, and shall be otherwise competent for the purpose.

(4) One member of the fumigating staff, other than the operator, shall during the six months immediately preceding the fumigation have been engaged in fumigating with the fumigant on not less than six occasions, of which not less than two shall have been concerned with fumigating ships, and shall be otherwise competent for the purpose.

(5) Each member of the fumigating staff shall be adequately trained in the use of the respirator or other apparatus which, in pursuance of sub-paragraph (*a*) of paragraph (1) of Regulation 9 of these Regulations, he is wearing or carrying.

(6) Each member of the fumigating staff shall be adequately trained in first aid and be fully conversant with the contents of the two notices (being notices setting out respectively the symptoms of hydrogen cyanide poisoning with preliminary action to be taken and appropriate first-aid treatment for that poisoning) which, under Regulation 9 of these Regulations and paragraphs 2 and 4 of the Second Schedule thereto, are required to be displayed.

6.—(1) In any case where the fumigant is in liquid form the undertaker shall take all reasonable steps to secure that the fumigant is contained in containers constructed either in accordance with the British Standard Specification Number 401 or in accordance with a specification approved by the Minister of Home Affairs for the purpose of this Regulation, and that the fumigant shall, before liberation thereof commences, be not less than ninety-five per cent. by weight of the total contents of the container.

(2) In any case where the fumigant is in absorbed form the undertaker shall take all reasonable steps to secure that the fumigant is contained in containers impervious to the fumigant, clearly marked with the weight of fumigant contained therein, and that the total water content, excluding water of crystallisation, of the absorbed fumigant and the absorbent in each container, before the liberation of the fumigant commences, shall not exceed five per cent. by weight of the absorbed fumigant present in the container.

(3) In any case —

(*a*) the undertaker shall take all reasonable steps to secure that any fumigant to be used in the fumigation shall be suitably stabilised ;