(*b*) in any premises or place or in the carrying on of any process or operation or work to which the provisions of Part V of the Act are applied by Sections 107 to 112 thereof.

Revocation. 3. The Dangerous Occurrences Notification Order (Northern Ireland), 1935 is hereby revoked.

Sealed with the Official Seal of the Ministry of Labour and National Insurance for Northern Ireland this 19th day of June, 1947, in the presence of

(L.S.) *F. C. S. Moore,*
Assistant Secretary.

Stormont, Belfast.

SCHEDULE

CLASSES OF OCCURRENCES

1. Bursting of a revolving vessel, wheel, grindstone or grinding wheel moved by mechanical power ;

2. Collapse or failure of a crane, derrick, winch, hoist or other appliance used in raising or lowering persons or goods, or any part thereof (except the breakage of chain or rope slings), or the overturning of a crane ;

3. Explosion or fire causing damage to the structure of any room or place in which persons are employed, or to any machine or plant contained therein, and resulting in the complete suspension of ordinary work in such room or place or stoppage of machinery or plant for not less than five hours, where such explosion or fire is due to (i) the ignition of dust, gas or vapour, or (ii) the ignition of celluloid or substances composed wholly or in part of celluloid ;

4. Electrical short circuit, or failure of electrical machinery, plant or apparatus, attended by explosion or fire or causing structural damage thereto, and involving its stoppage or disuse for not less than five hours ;

5. Explosion or fire affecting any room in which persons are employed and causing complete suspension of ordinary work therein for not less than twenty-four hours ;

6. Explosion of a receiver or container used for the storage at a pressure greater than atmospheric pressure of any gas or gases (including air) or any liquid or solid resulting from the compression of gas.

Kiers Special Regulations

SPECIAL REGULATIONS, DATED 22ND JANUARY, 1947, MADE BY THE MINISTRY OF LABOUR AND NATIONAL INSURANCE UNDER SECTION 65 OF THE FACTORIES ACT (NORTHERN IRELAND), 1938.

1947. No. 9

The Ministry of Labour and National Insurance for Northern Ireland, in pursuance of the powers conferred upon it by Section 65 of the Factories Act (Northern Ireland), 1938 (hereinafter referred to as " the Act ") and of all other powers enabling it in that behalf, hereby makes the following Special Regulations :—

Part I

Preliminary

1. These Regulations may be cited as the Kiers Special Regulations (Northern Ireland), 1947, and shall come into force on the First day of May, 1947, except that Regulations 8, 9, 10 and 13 shall not apply until after the expiration of twelve months from the said date.

2. These Regulations shall, subject to the provisions of Regulation 4 hereof, apply to all factories in which kiers are used for the purpose of boiling textile material.

3. In these Regulations the following expressions have the meanings hereby assigned to them respectively, that is to say :—

Kier means a fixed vessel used for boiling textile material, wherein boiling liquid is circulated by means of steam or mechanical power through a pipe, channel or duct, so constructed and arranged that the liquid is discharged over the textile material and percolates through it.

Atmospheric or open kier means a *kier* so constructed and arranged that it cannot be worked at a pressure above atmospheric pressure.

Kier system means a *kier* together with its inlet and outlet and circulating pipes, and any pump, injector, steam pipe or heater used in connection with that *kier*.

Disconnection means the complete interruption of the flow of liquor, water, or steam through a pipe either (*a*) by the removal of a sufficient portion of the pipe, together with the blanking of the end of the pipe on the supply side, or (*b*) by a special disconnecting appliance of a type approved in writing by the *Chief Inspector*.

Disconnect means to interrupt completely the flow of liquor, water or steam through a pipe by one of the two methods of *disconnection*.

Hot liquor or *hot water* means liquor or water at a temperature exceeding 105° F.

Competent person means a person who is experienced in the operation and working of *kiers* and capable of manipulating and working in accordance with these Regulations all valves, taps, pumps, *disconnecting* arrangements, or other appliances provided for the *kiers*.

Authorised person has the meaning assigned to it in Regulation 24.

Entry into a *kier* shall be deemed to have been made by a person if either of his feet is within the *kier* ; and *enter* shall have a similar meaning.

Chief Inspector has the same meaning as in the Act.

Part II

Exceptions

4. (i) Nothing in these Regulations shall apply to a *kier* in which the material is boiled in a container or wagon or on a moveable

carriage, provided that the loading and unloading of such container, wagon or carriage is carried on entirely outside the *kier*.

(ii) Regulations 8, 9, 10, 22 and 27 shall not apply in the case of a *kier* which is filled by means of a mechanical piler or is customarily filled from outside without *entry* by a person into the *kier*, and which is entered only for the purpose of sheeting up the material after filling or occasionally for rectifying a fault or for repair or maintenance purposes.

(iii) If the *Chief Inspector* is satisfied that by reason of exceptional circumstances in any works subject to these Regulations, or by reason of the infrequency of the process, or for any other reason, all or any of the requirements of the Regulations are not necessary for the protection of persons employed in such works, he may by certificate in writing (which he may in his discretion revoke at any time) exempt such works or any part of such works, or any *kier* or *kier system*, from the operation of all or any such requirements, subject to such conditions as he may prescribe in that certificate. Where such an exemption is granted, a legible copy of the certificate, showing the conditions subject to which it has been granted, shall be kept affixed in the works.

PART III

DUTIES OF OCCUPIERS

5. It shall be the duty of the occupier of every factory to which these Regulations apply to observe this Part of these Regulations.

Steam Admission

6. The admission of steam into a *kier* or *kier system* shall be controlled by a screw-down wheel valve, and not merely by a tap or cock. In the case of every *kier* which is customarily entered for the purpose of plaiting down, filling, arranging, packing or emptying textile material, means shall be provided for locking the valve in the closed position or for *disconnecting* the steam supply pipe.

Hot Liquor Admission

7. *Hot liquor* shall not be prepared except in a vessel or tank separate from the *kier* in which such *hot liquor* is to be used, and *hot liquor* shall not be admitted to nor shall liquor be rendered *hot* in the *kier* until the loading has been completed.

Liquor and Water Admission Pipes

8. Every supply pipe through which liquor or water is conducted to a *kier* shall, in addition to the valve or cock controlling admission of liquor or water for the ordinary working of the *kier*, be provided with arrangements for *disconnection* of the pipe on the *kier* side of such valve or cock in such a way as to isolate the *kier* from any other *kier* or vessel,

and to ensure that no liquor or water can flow from the supply side of the pipe.

Provided that in the case of a water supply pipe such arrangements for *disconnection* shall not be required if there is a non-return valve in the pipe to each *kier* on the *kier* side of the control valve or cock.

External Circulation Pipes

9. Every *kier system* in which the circulation is effected through an external pipe shall be provided with arrangements for *disconnection* of the pipe in such a way as to ensure that no liquor or water can flow into the upper part of the *kier* or escape from the ends of the pipe where it is *disconnected.*

Internal Circulation Pipes

10. Every *kier system* in which the circulation is effected through an internal pipe or puffer pipe, shall be provided with either :—

(*a*) arrangements for *disconnection* of the steam pipe, such arrangements to be in addition to the valve controlling the steam supply and to be placed on the *kier* side of such valve, or

(*b*) efficient means for closing the top of the puffer pipe.

Pumps

11. Where the circulation of liquor in a *kier system* is effected by means of a pump, efficient means shall be provided for preventing the accidental starting of the pump.

Position of Discharges

12. The open end of the pipe through which the liquor is discharged from a *kier*, and the open end of a vent, inlet or other pipe through which liquor may escape from a *kier*, shall be so placed or arranged that no person is exposed to risk of scalding.

Discharge Pipes and Channels

13. The pipe used for discharging the liquor from a *kier* shall not be connected with a discharge pipe from any other *kier* through any common pipe, channel or chamber in which the pressure can rise above atmospheric pressure.

Position of Valves and Taps

14. The control for any valve or tap shall be so placed that the person operating it is not exposed to risk of scalding.

Bayonet-jointed Kier Covers

15. Where a *kier* has a bayonet-jointed cover, efficient means shall be provided for preventing (*a*) the rise of pressure inside the *kier* above