Draft

DIRECTOR OF THE FIRE AND RESCUE DEPARTMENT UNDER THE MINISTRY OF THE INTERIOR

ORDER NO 1-1 OF 6 JANUARY 2016 OF THE DIRECTOR OF THE FIREFIGHTING AND RESCUE DEPARTMENT UNDER THE MINISTRY OF THE INTERIOR ON THE APPROVAL OF THE REGULATIONS FOR THE DESIGN AND INSTALLATION OF STATIONARY FIRE EXTINGUISHING SYSTEMS

No ..... of .....
Vilnius

I hereby amend the Regulations for the Design and Installation of Stationary Fire Extinguishing Systems, approved by Order No 1-1 of 6 January 2016 of the Director of the Fire and Rescue Department under the Ministry of the Interior 'On the Approval of the Regulations for the Design and Installation of Stationary Fire Extinguishing Systems', and amend Table 1 of Clause 26 to read:

'Table 1. Engineering structures

Item No	Purpose	Indicators above which the installation of SFE systems is mandatory (Note 1)			
		Area (sq. m) (Note 2)	length (m)	volume (cub. m)	other indicators
1.	Transport communications				
1.1.	road		≥ 1,000		tunnels
1.2.	railway		≥ 1,000		tunnels
2.	Engineering networks				
2.1.	oil networks			≥ 20,000	in above ground reservoirs at a flash point of 120°C and above
				≥ 10,000	in above-ground reservoirs at the flash point of liquids stored in them up to 120°C
		≥ 100			in pumping stations for flammable and highly flammable liquids
2.2.	electricity grids				in vertical cable

					shafts for cables with a voltage exceeding 1,000 V and a fire load exceeding 1,200 MJ/sq. m
					in horizontal cable tunnels for cables with a voltage exceeding 1,000 V and a fire load exceeding 1,200 MJ/sq. m
					for the extinguishing of hydrogenerators and air-cooled synchronous compensators in automated hydropower plants
					in premises on the ground floor level of buildings of more than one storey containing transformer, transformer substation or inverter installations filled with oil, where the total quantity of oil exceeds 10 tons; in premises below the ground floor level containing transformer, transformer substation or inverter installations filled with oil, with other premises above, where the total oil content exceeds 0.6 t
3.	Other civil engineering structures				
	automated warehousing system structures (Note 3)	≥ 750			structures classified in categories Asg and Bsg according to the risk of explosion or fire
					storage and

					warehousing of caoutchouc, rubber or products thereof, pharmaceuticals and reagents, petroleum and products thereof in containers, and particularly flammable, highly flammable and combustible liquids
		≥ 2,000			constructions are classified in category Cg according to the hazard of explosion or fire
		≥ 250			structures are classified in category Asg, Bsg and Cg according to the hazard of explosion or fire, and the production and materials are stored in racks (shelves) where the storage height of the production and materials from the floor exceeds 5.5 m

Notes:

1. When determining the need for the SFE system, all indicators in a single row shall be assessed;

2. The area is measured by the area of the built-up area or the area of the projection of the roof onto the ground surface;

3. For steel load-bearing structures of buildings for automated storage systems, and where the storage of products and materials is to be provided in steel racks (shelves) whose structures are used as the load-bearing structures of the building, the requirements for resistance to fire are those laid down in the Fire Safety Fundamental Requirements [15.6] shall not be mandatory when, in accordance with the LST EN 12845 series, fixed fire-extinguishing systems are installed between racks (shelves) and additional protection by automatic sprinklers is provided in accordance with one of the requirements specified:

a. the lateral sprinklers to be installed shall be directed towards at least one side of the structure and shall be spaced evenly throughout the height of the structure, at intervals of not less than 4.6 m from the floor. In this case, lateral sprinklers are permitted to protect the steel load-bearing structures of buildings of unlimited height for automated storage systems;

b. fixed fire-extinguishing systems shall be installed at the ceiling with sprinklers having a nominal temperature rating of 68ºC or 79ºC, with a minimum calculated fire-extinguishing area of 260 sq. m. Where the height of the storage of materials, calculated from the floor, is between 4.6 m and 6.1 m, these sprinklers may be equipped with a nominal temperature rating, higher than 141ºC, calculated in accordance with the design parameters specified in paragraph 7.2 of LST EN 12845:2015+A1:2020.

c. ceiling mounted *Early Suppression Fast Response* (ESFR) sprinkler systems or *Control Mode Specific Application* (CMSA) sprinkler systems.

Director
General of the Internal Service