

**ELECTRICITY SUPPLY ACT 1990**  
**[ACT447]**  
**ENERGY COMMISSION DIRECTION NO 4, YEAR 2019**  
**DIRECTION/ST/No. 4/2019**

IN exercise of the powers conferred by Section 50c (l) of the Electricity Supply Act 1990 [Act 447], the Commission issues the following Directives:

**Name and date of commencement**

1. This Directive can be called Malaysian Standard Application Enforcement Directive MS IEC 62305 - Protection Against Lightning For Lightning Protection Systems In Buildings.
2. This Directive shall take effect on the date it is registered.
3. With the enactment of this Directive, Circular No. 3/2011 on the Determination of the Method of Installation of Lightning Protection Systems in Buildings, dated 1 September 2011 is revoked and cancelled.

**Application**

4. This Directive shall apply to all installations of the Lightning Protection System in the building from the date this Enforcement is in force.
5. This Directive shall apply to all Competent Persons, Electrical Service Contractors, Electrical Contractors, consultants, owners or management of buildings at the design, installation, supervision, testing, operation and maintenance of Lightning Protection System installations.

**Interpretation**

6. In this Direction, unless the context otherwise requires-

"Act" means the Electricity Supply Act 1990 [Act 447] and the Rules and Regulations amended thereon from time to time.

7. The purpose of this Directive is to enforce compliance with the methods of designing, installing, supervising, testing, operating and maintaining Lightning Protection Systems in accordance with Malaysian Standards MS IEC 62305 Protection Against Lightning to industry and the public. This standard covers the following sections:

MS IEC 62305-1: 2007- General principles

MS IEC 62305-2: 2007- Risk management

MS IEC 62305-3: 2007- Physical damage to structures and life hazard

MS IEC 62305-4: 2007 - Electrical and electronic systems within structures

8. Section 47, Electricity Supply Act 1990 [Act 447] on precautionary measures against atmospheric electricity provides:

"Any Federal Government department or any State Government or any other consumer who takes or uses electricity from any installation shall, if the Commission so requires, provide for any method to avoid any risk of damage to the installation it is through atmospheric electricity as directed by the Commission or as prescribed by regulations under this Act. "

9. In accordance with the provisions under section 47, Electricity Supply Act 1990 [Act 447], the Commission hereby stipulates that the design, installation, supervision, testing, operation and maintenance of lightning protection devices in buildings shall be made in accordance with the method of lightning protection systems set by Standard Malaysia MS IEC 62305 - Protection Against Lightning.

### **Enforcement**

10. This Directive will apply to the building in the planning and development process of a new building (new development) starting from the date this Directive is registered.

11. For buildings under construction, this Directive will apply and commence on 1 January 2021.

12. For existing buildings, these Directives will apply and begin as follows:

12.1 On 1<sup>st</sup> January 2021 for buildings such as hospitals, institutions of higher learning (IPT), business buildings, industrial buildings, condominium residential buildings, apartment residential buildings, and airports;

12.2 As at 1<sup>st</sup> January 2022 for buildings such as flat residential buildings, schools and government buildings;

12.3 On 1<sup>st</sup> January 2023 for residential buildings on land (other than residential buildings specified in items 12.1 and 12.2).

13. For buildings other than the building categories listed in items 10, 11 and 12, this Directive shall apply and commence on the date to be determined by the Commission from time to time.

### **Offence**

14. It is reminded that, someone who found failed to comply with the Commission's Directive is to commit an offense and shall, on conviction, be liable to a fine not exceeding two hundred thousand ringgit (MYR 200,000.00) or to imprisonment for a term not exceeding two years or to both in accordance with the provisions of Section 50E, Electricity Supply Act 1990 [Act 447].

### **Amendment**

15. The Commission may at any time change, amend and revoke this Directive.

**Registration Date: 1 JANUARY 2020**