

The Introduction Of Shanghai Lightning Protection Center

Shanghai lightning protection center, or Shanghai lightning protection system checking station, confirmed by Shanghai municipal government, was founded in May 1991. It is a direct enterprise subordinate to Shanghai meteorological bureau with a business range of the lightning protection technological service, application and research. The center has been bestowed the name of “model unit” by the Shanghai Municipality for its remarkable accomplishments and high service quality.

The head office of Shanghai lightning protection center is located in Songjiang high scientific technology garden. The center consists of a chief engineering, a main office, a technology development, a lightning protective device testing center, a business-establish department, a management department, three subordinate testing stations(hubei station, xuhui station and jiuting station) and a project department with totally 170 employees, which deals with technological work and management. Over 70% of the stuff has an educational level higher than junior technological academy.

The lightning protection technological service, supplied by Shanghai lightning protection center, is continuously expanding range and improving quality. Now the center is responsible for the security test of lightning protect system of the structures, large petrochemical enterprise, orbital transportation, broadcast ant TV stations, post and telecommunications and computer information system. The center also involves in the quality test of power supply and signal lightning protection product; the checking of lightning protection project-design and acceptance of lightning protection system; the estimate of the lightning danger for important construction project; the research and application of lightning forewarning system; the investigation and cause-analysis of lightning calamities and accidents; the consultation of lightning protection technology for important construction project etc.

In the recent years, with the support of China meteorological administration and Shanghai municipal government, Shanghai lightning protection center has imported a set of the most advanced instruments through out the world and has become a state-level lightning protection product testing center. Consequently, the center has

established a firm foundation for further widening of the lightning protection service range, continuously improving the technological service level and doing a better job of lightning protection.

Nowadays, with the development of economy and science, the disturbance and destruction caused by lightning electromagnetic impulse has become a common calamity. In the process of lightning protection work, a new product of lightning protection technology called low-voltage SPD has been invented. It generally refers to SPD applied to all electricity-supplying systems except high-voltage ones. At present, over 60 foreign well-known brands have entered Chinese market and also more than 160 Chinese factories are manufacturing low-voltage SPD of various kinds. For better management of the certain product market and better protection of the consumers' legal rights, the international electrician committee (IEC for short) has issued the IEC61643 standard according to which Chinese government also has formulates a set of standards. These standards strictly regulate 20 case-hardened experiment testing programs of power supply SPD as well as 19 case-hardened experiment testing programs of corresponding SPD. In order to carry out the lightning protection social management function better, China meteorological administration together with Shanghai municipal government founded the Shanghai lightning protection products testing center with an investment of 20 million RMB.

The state-level lightning protective device testing center is located in Shanghai Songjiang high scientific technology garden. In order to meet the request of the IEC61643, UL1449 and China national standard GB18802, the center has imported the most advanced low-voltage SPD impulse experiment instrument in the world. With precise instruments, advanced technology and managerial expertise, the center now is actively searching for cooperation with experts and craft brothers at home and abroad to make its business of low-voltage SPD products-testing reach the international advanced-level at a higher speed. And in 2006, Shanghai lightning protection product-testing center has been identified by China National Accreditation Board For Laboratories.