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## Appendix 3 Utilities Safety Management Instructions

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### 1. General Requirements

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- 1.1 During the move-in, the exhibition period and move-out, all matters related to booth set-up, decoration, dismantling and maintenance shall be carried out in compliance with the Organizers' work safety rules and requirements, including *Exhibitor's Manual*, *Pre-Expo Notification*, *Move-in Instructions*, *Safety Instructions*, *Venue Notices and Users Manual for Exhibition Halls in the National Exhibition and Convention Center (Shanghai)*. The exhibitors, constructors and service providers shall actively cooperate with the Chinese government departments and the Organizers with respect to the supervision, inspection and management.
- 1.2 Exhibitors and constructors thereof shall comply with relevant national rules and regulations of the construction industry and ensure that on-site workers and special workers have corresponding operation qualification certificates or work licenses.

### 2. Water Safety Management

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- 2.1 If the installation of water facilities at a booth violates any rule or regulation or poses safety hazards, the Organizers or the venue are entitled to require the exhibitor or constructor to rectify the problem immediately. If they refuse to do so, their water supply can be cut off and they shall be liable for the consequences. If any accident or economic loss is incurred, the exhibitor or constructor shall be held liable and required to compensate for the loss as per relevant regulations.
- 2.2 Do not illegally transfer water from the venue facilities for domestic use. If any exhibitor or constructor illegally connects to the water pipes at the venue or uses the equipment without installing a valve at the venue, the Organizers or the venue management are entitled to require the exhibitor or constructor to rectify such behavior immediately. If they refuse to do so, their water supply may be cut off and they shall be liable for the consequences. If any accident or economic loss is incurred, the exhibitor or constructor shall be held liable and required to compensate for the loss as per relevant regulations.
- 2.3 Waste liquids, food waste and extreme temperature liquids shall be disposed at designated locations at the venue in the exhibitor or constructor's own sealed containers and shall not be disposed in drains inside and outside the venue, or in wash basins or sinks in washrooms; in case of any violation, exhibitors or their service providers shall be responsible for cleaning up the pollutants and liable to pay compensation for clogged pipes or other related expenses.
- 2.4 Water pipes crossing corridors shall be covered with slot plates to ensure safety.

### 3. Electricity Safety Management

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- 3.1 The low-voltage power supply system at the venue is a three-phase five-wire 380V/50Hz system. Power distribution at the booths shall comply with the same standards. If any exhibit requires different voltage or frequency, the exhibitor or constructor shall bring their own power converters to resolve the issue.
- 3.2 The electricity box of a booth shall have an electrical safety monitoring dedicated box.
- 3.3 If a booth requires electricity supply for both lighting and power circuits, individual applications for each shall be separately submitted. Lighting circuits shall be equipped with leakage protectors. If the power circuit has been applied to dismantle leakage protector as per the procedures, then the power circuits don't need additional leakage protectors. Each special booth shall apply for its own circuit box and shall not share the circuit box with other booths.
- 3.4 Power units with independent switches and a power load less than 80% of the circuit box they are to be connected to, can be directly connected to a circuit box provided at the venue; if more than one power unit shares one circuit box, the exhibitors or constructors shall bring their own master circuit boxes whose protection setting limit value shall be less than or equal to 80% of that of the fixed circuit box at the venue to ensure power safety.
- 3.5 If the power load of a three-phase non-mechanical power unit is higher than or equals to 20 A, an air circuit breaker shall be installed to provide cascade protection. If the single-phase load is higher than 16 A, three-phase power supply shall be used to evenly distribute the power load and achieve balanced power distribution among the three phases.

- 3.6 Special electric equipment and 24-hour powered-on electric equipment shall have independent and category-specific circuits, and shall not share the same circuit with other equipment; important electric equipment or electric equipment for important occasions or positions shall have two power supply circuits (one main circuit and one backup circuit); each lighting power protection circuit can only be connected to at most 25 devices (including lighting devices and outlets) whose total load shall be lower than 3 KW or 16 A.
- 3.7 Electric material and equipment used shall comply with national product quality standards and certification standards and comply with national fire safety requirements. Electric materials shall have sufficient safe load-bearing capacity, which shall be higher than the rated current of the circuit box switch for the booth; they shall use ZR-BVV (fire-retardant double-insulated copper wires), ZR-RVVB sheathed wires or ZR-VV cables (three-phase and five-wire, referring to low-voltage power distribution system, shall use three-core or five-core wires), instead of twisted wire pairs (flexible wires), four-core wires (cables) or aluminum wires. Only lighting rectifiers and triggers that comply with fire safety department standards shall be used.
- 3.8 In case of any power failure at a booth, the Organizers or the venue staff shall have the right to enter the booth to conduct security check and adjust the Expo's power circuits and capacity. Exhibitors and constructors shall cooperate with the Organizers or the venue staff.
- 3.9 If the Organizers' worker discovers any hidden power safety hazards or serious security breaches at a booth, they shall have the right to suspend or cut off the power supply immediately without notifying the exhibitor. If any loss is incurred thereby, the exhibitor or constructor shall bear it.
- 3.10 Electric wiring work and equipment shall be set up strictly in accordance with the approved programs and drawings, and the power load shall not exceed the approved total load. If an exhibitor needs additional electrical appliances or other equipment that may result in a higher power load, the exhibitor shall promptly submit an application for it.
- 3.11 Do not use lighting devices whose power exceeds 500 W or use halogen-tungsten lamps. High heat-producing lighting devices shall be protected with insulation pads; light boxes, and lamp posts used for advertising shall have convection air vents.
- 3.12 All lighting devices installed shall be at least 30 cm from any exhibit, decoration or material; all heat-generating devices shall be at least 3 meters from any fixed power supply facility at the venue and shall not emit heat towards these facilities.
- 3.13 Do not use high-power electric heating appliances (e.g., electric kettles, stoves or irons). If an exhibitor needs to use such appliances, it is only permitted after acquiring the approval from the designated official constructor of the Expo.
- 3.14 Computers, precision instruments and other devices shall be equipped with uninterruptible power supply. If any damage or data loss is incurred due to such devices facing any power interruption, the exhibitors and constructors shall be liable for the consequences.
- 3.15 Exhibitors shall complete their security checks before applying for power supply to the official constructor of the Expo.
- 3.16 All wire (cable) terminals shall be equipped with blocks or switches. Do not connect them with electrical tape. The wires must be fixed firmly, and shall not be laid on the display stands, floor or the aisles. Do not hang wires, lighting devices or other objects on the ceiling or pipes. Wires crossing passageways shall be covered with slot plates, and wires going under a carpet or installed inside a structure shall not have terminals in the middle and shall be protected by a sleeve.

## 4. Gas Safety Control

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- 4.1 If the installation of gas facilities at a booth violates any rule or regulation or poses safety hazards, the Organizers or the venue management are entitled to require the exhibitor or constructor to rectify such problems immediately. If the exhibitor or constructor refuses to do so, their gas supply shall be cut off, and they shall be liable for the consequences. If there is any accident or economic loss is incurred, the exhibitor or constructor shall be held liable and required to compensate for the loss as per relevant regulations.
- 4.2 Do not connect to gas pipelines without permission. If any exhibitor or constructor connects to the gas pipes at the venue without installing appropriate valves, the Organizers or the venue are entitled to require the exhibitor or constructor to rectify such behavior immediately. If they do not do so, their gas supply can be cut off and they shall be liable for the consequences. If there is any accident or economic loss is incurred, the exhibitor or constructor shall be held liable and required to compensate for the loss as per relevant regulations.
- 4.3 The venue will provide compressed air supply with an outlet pressure of 0.6-0.8 Mpa. Exhibitors can install driers, filters or other compatible devices depending on their own equipment.

- 4.4 If the air supply at a booth is between 1–1.6 m<sup>3</sup>/min, the exhibitor shall provide the actual requirement to the official constructor; in the absence of prior notice, the default air supply shall be less than 1 m<sup>3</sup>/min and the exhibitor shall be responsible for any ensuing liability or consequence.
- 4.5 If any exhibitor has any specific requirement for compressed air or requires the supply exceeding 1.6 m<sup>3</sup>/min, it is recommended that they bring their own air compressors and submit an application to the official constructor.
- 4.6 Exhibitors shall complete their security inspections before applying for gas supply to the designated official constructor of the CIIE.
- 4.7 Gas pipes running across corridors shall be covered by slot plates for safety considerations.