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Amusement park safety - On-site safety inspection

游乐园安全 现场安全检查

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Amusement park safety - On-site safety inspection

1 Scope

This document stipulates the general requirements, safety inspection implementations, and other management requirements for on-site safety inspection of the amusement park.

This document applies to all levels of on-site safety inspections carried out by the amusement park and its superior units. It also serves as a reference for tourist attractions.

2 Normative references

The following documents are normatively referenced in this document and are indispensable for its application. For dated references, only the version corresponding to that date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

GB 39800.1, Specification for the provision of personal protective equipment - Part 1: General requirement

GB/T 42101, Amusement park safety - General requirements

GB/T 42103, Amusement park safety - Risk identification and assessment

GB/T 42104, Amusement park safety - Safety management system

3 Terms and definitions

Terms and definitions determined by GB/T 42101 and GB/T 42103, as well as the following, are applicable to this document.

3.1 Regular safety inspection

Regular inspections of the nature of supervision that is carried out by organizations at all levels of the amusement park and safety management agencies in accordance with the relevant documents of the unit's safety management system or the items and contents specified in the safety inspection plan.

3.2 Routine inspection

Technical inspections – such as daily inspections, weekly inspections, and monthly inspections – that is carried out by business departments and teams of the amusement park on equipment,

- j) safety inspection work quality control;
- k) safety inspection data analysis and work summary requirements;
- l) information management of safety inspection process and inspection results;
- m) safety inspection file management.

4.1.3 In order to effectively standardize the safety inspection work, in the general safety inspection operation guidance documents and specific safety inspection work guidance documents, list various special or professional safety inspection item lists in detail. For the on-site safety inspection carried out by the superior unit of the amusement park, on-site safety inspection item lists shall also be formulated. The safety inspection item list shall meet the following requirements:

- a) Inspection items and requirements shall be listed in accordance with relevant regulations, which shall also meet the general safety requirements and specific safety requirements of GB/T 42101;
- b) According to the business activities involved in the inspected object, items shall be selected and supplemented according to GB/T 42101 and GB/T 42103;
- c) When a specific safety requirement involves many aspects, such as equipment and facilities, its inspection item list can be refined by total item and sub-item, so as to give specific inspection items.

See Appendix A for examples of safety inspection item lists for the specific safety inspection.

4.1.4 The safety inspection item lists shall be regularly revised in light of the actual situation. The safety inspection item lists shall be revised in time when it cannot meet the safety inspection needs of the specific period, specific situation, or specific business department and team, or when new regulations and standards are promulgated.

4.2 Inspection plan and program

4.2.1 The safety inspection work shall be carried out in such a way that an annual on-site safety inspection plan is formulated, and the key fields, key areas and key items of the annual on-site safety inspection, as well as the frequency and inspection time of the on-site safety inspection, are listed

4.2.2 Comprehensive safety inspection, specific safety inspection and routine safety inspection shall be combined with each other to form a differentiated complementarity. When multiple general safety requirements and specific safety requirements in GB/T 42101 are involved, comprehensive safety inspection shall be carried out first; for a certain safety field or specialty, safety management focus, special period or specific situation, specific safety inspection shall be carried out first. The comprehensive safety inspection can be completed at one time, or in a certain period of time when it is decomposed into multiple specific safety inspections.

4.2.3 The regular safety inspection carried out by organizations at all levels of the amusement park and the safety management agency shall ensure that regular inspections of different areas or objects are carried out at different time intervals, and regular inspections of all safety management objects are completed within a certain period. In addition, it is also necessary to formulate an inspection plan based on the problems found and the rectification requirements of the on-site safety inspection, and promote the implementation of the rectification work through the regular safety inspection.

4.2.4 For the comprehensive safety inspection involving many aspects and a large scale, or where specific inspection requirements are added, the safety inspection team can formulate a targeted on-site safety inspection plan based on the characteristics of the inspected object, so as to enhance the pertinence and effectiveness of the safety inspection. The inspection plan shall include but shall not be limited to the following:

- a) inspection purpose, object and scope;
- b) inspection time, steps and progress;
- c) inspection tasks and responsible persons;
- d) revised safety inspection item list (safety inspection items should be conducive to finding problems and facilitating data management);
- e) key points of the inspection;
- f) inspection measures, modes and methods;
- g) inspection work requirements and cooperation inspection requirements;
- h) information required for the inspection;
- i) arrangements for the first meeting and the last meeting;
- j) tools required for the inspection and personal protection requirements.

4.3 Inspection time

4.3.1 The time limit for various on-site safety inspections shall be implemented according to the annual on-site safety inspection plan of the amusement park. On-site safety inspection time shall meet the following requirements:

- a) In view of the effective implementation of general safety requirements and specific safety requirements of GB/T 42101, a comprehensive and systematic comprehensive safety inspection shall be carried out at least once a year;
- b) Specific safety inspections for different safety fields and different safety professions should be carried out at least once a quarter, covering the key safety fields and professions involved every year;

- i) when a specific safety inspection is required in a certain safety field (profession) or topic;
- j) when it is required by relevant national or local government departments and higher-level units;
- k) when other situations that require safety inspection occur.

For situations a) and b), the revised amusement park safety management system documents and their implementation effects shall be reviewed as key points.

4.3.3 For amusement parks with a large number of types and quantities of special equipment and complex safety technical issues, external experts may be invited or professional consulting service agencies may be entrusted to carry out professional safety inspections every year.

4.4 Inspection personnel and inspection tools

4.4.1 For on-site safety inspection, a safety inspection team shall be established. The comprehensive safety inspection of the amusement park shall be led by the main person in charge of the amusement park; the specific safety inspection shall be led by the person in charge of safety of the amusement park or other special safety person in charge, or the person in charge of the safety management agency. The comprehensive safety inspection or specific safety inspection carried out by the departmental organization of the amusement park shall be led by the head of the department who assumes “one post with two responsibilities”.

Note: “One post with two responsibilities” refers to the business responsibility and corresponding safety responsibility undertaken by the heads of organizations at all levels.

4.4.2 Safety inspection personnel shall have relevant work experience and ability in the safety field (profession) to be inspected, and be familiar with safety inspection work requirements, inspection methods and safety inspection documents.

4.4.3 Safety inspection personnel shall wear personal protective equipment in accordance with the requirements of GB 39800.1. Where there are specific safety or sanitation requirements for the environment of the safety inspection site, the physical fitness and condition of the safety inspection personnel shall meet the requirements; for example, high-altitude safety inspection personnel shall not have acrophobia, and food safety inspection personnel shall not have diseases that hinder food safety.

4.4.4 A video camera or camera to record the on-site conditions shall be carried during the inspection; measuring tools and testing instruments – such as combustible gas concentration detectors, electroscope pens, multimeters, thermometers – shall also be carried according to the technical characteristics of the inspection work. Measuring tools and testing instruments shall be in good condition and function normally, and shall be within the validity period of measurement traceability.

4.5 Inspection focus and methods

4.5.1 Organizations at all levels of amusement parks are the main bodies that assume safety responsibilities. The performance of safety management duties, safety inspections and patrols, and daily inspections of important equipment and facilities and important buildings (structures) of the heads of organizations at all levels that undertake “one post with two responsibilities” shall be considered as the main objects of on-site safety inspections. The quality and effect – of safety management and supervision activities implemented, and regular safety inspection carried out by the safety management agency – shall also be one of the focuses of the on-site safety inspection carried out by the main person in charge of the amusement park or the superior unit.

4.5.2 The on-site safety inspection shall be carried out in accordance with the relevant safety inspection item list, focusing on the physical safety conditions such as important site environment, important buildings (structures), important equipment and facilities that may cause personal injury accidents, as well as safety management and control of important operational activities such as important operations, peak passenger flow and large-scale activities, the investigation and management of accident hazards, and the management and control of major safety risks.

Note: Major safety risks refer to the level 1 safety risks and level 2 safety risks specified in GB/T 42103.

4.5.3 On-site safety inspection methods are mainly carried out by means of on-the-spot observation and inspection, macro-inspection, key spot check, data consultation, personnel inquiry, witness of important operations, meeting exchanges and discussions, etc., and when necessary, professional inspection or testing, personnel safety management knowledge or practical safety skills assessment.

4.5.4 On-site safety inspection is supplemented by review of safety management system documents. The review of the safety management system documents during the on-site safety inspection is mainly carried out when it is found that there are serious, common, and typical safety problems in the relevant business departments and teams inspected, and when similar accidents occur repeatedly or hidden dangers (safety problems) found in previous inspections recur. The soundness and implementation of the safety responsibility system, the soundness of safety management system documents, and the effectiveness of implementation shall be reviewed traceable to the source, to urge it to improve a certain aspect of work from the root cause, and further improve the safety management system.

4.5.5 When it is found in the on-site safety inspection that there are many systematic safety problems in various aspects of the amusement park, indicating that its safety management system is not sound and perfect, the amusement park shall carry out self-inspection and self-correction of the safety management system, and then carry out specific review of safety management system documents or carry out review of safety management system.

and on-site safety inspection item list.

- c) Major accident potentials, if found in the safety inspection, shall be handled according to the procedures of “confirmation, record, report, notification”.
- d) The inspection team internally communicates the inspection findings.
- e) Hold a work meeting after the inspection, where the inspection team notifies all inspection findings to the amusement park, puts forward rectification requirements or suggestions, and forms the meeting minutes. Amusement parks may state their opinions on the preliminary results of the inspection.

5.1.7 The on-site safety inspection carried out by the amusement park should be carried out according to the following procedures:

- a) Formulate and publish safety inspection notices and plans (if any), and inform the inspection plan, safety inspection items and key points, modes, methods, random inspection ratio, inspection schedule, inspection cooperation requirements, etc.;
- b) Carry out on-site safety inspection according to the determined procedures and on-site safety inspection item list;
- c) Hold a work meeting after the inspection, to notify all inspection findings, put forward rectification requirements or suggestions, and form the meeting minutes.

5.2 Process management

5.2.1 To carry out on-site safety inspection, the on-site work safety risk identification, risk notification and safety condition confirmation of the inspected object shall be carried out first. When the on-site safety conditions are not met, which may cause injury to inspectors, the inspection team shall not carry out on-site safety inspections.

5.2.2 Consulting documents shall be carried out before and during the on-site safety inspection. The inspected amusement park or its business departments and teams shall provide the following documents for inspection personnel to review:

- a) legitimacy documents (administrative license, registration, application for approval and construction, inspection and acceptance, regular inspection, testing and calibration, etc.) and relevant personnel qualification certificates and other legitimacy documents;
- b) the improvement and implementation of the post responsibility system for inspection focuses or major problems found;
- c) the soundness and implementation of the safety management system documents applicable to the on-site inspection object;
- d) the soundness and implementation of relevant operation guidance documents;

- e) the comprehensiveness, authenticity and timeliness of relevant safety ledger or database information;
- f) relevant records (operation, equipment and facility operation, routine inspection and maintenance records, etc.);
- g) service entrustment contracts, work records and reports of outsourced testing and maintenance units;
- h) training and examination materials for important practitioners;
- i) analysis and processing data of faults and accidents;
- j) information on safety management activities (safety responsibility statement, safety meeting records or minutes and implementation status, on-site safety inspections at all levels, regular safety inspection records, list of safety problems such as rectification and closure, unresolved problems, summary of problems found in safety inspections and trend analysis, safety risk identification and control, investigation and governance of potential accident, etc.).

5.2.3 When the superior unit of the amusement park conducts an on-site safety inspection, it should first inspect the on-site inspection objects to find out the environmental conditions and key conditions of the on-site safety inspection objects.

5.2.4 For safety inspection item list or inspection plan regulations, or where on-site observation requires physical inspection or testing for the problems found (on-site inspection of safety protection device performance and sensitivity), after confirming that the amusement park inspection and testing operation guidance document is valid, retest and correct according to its documents, or witness the relevant personnel of the amusement park to carry out inspection, testing or test according to this operation guidance document, and compare the recorded results with their previous work records.

5.2.5 Inspection personnel witness important operations, conduct inquiries to relevant personnel, and assess the amusement park or its related business departments and team leaders, management personnel, and various operating personnel for their job responsibilities, familiarity of relevant safety management system documents (especially operation guidance, etc.), and whether they have related capabilities on management and operation (operation, self-inspection and maintenance, emergency response, etc.), and compare with the on-site observation and physical inspection during the on-site safety inspection. When witnessing important operations on site, it shall be carried out as much as possible without affecting normal operations.

5.2.6 When it is found in the on-site safety inspection that the interviewees have different opinions, where many departments and personnel are involved, or where the problem is universal, a special meeting shall be held for discussion or centralized examination and assessment.

- a) Confirmation. A major accident hazard, if found in the on-site inspection and testing results, shall be confirmed by more than two inspectors or by the person in charge of the inspection team.
- b) Record. The hidden dangers of accidents and safety problems found in the inspection shall be recorded truthfully, accurately and completely (including written records, video and audio records, and inquiry records); the photos shall be marked with date and time, location, name and location of venues (equipment and facilities) and defect size of parts and physical objects, as well as necessary text description.
- c) Report. For major safety issues that are typical and require investigation by the amusement park or its business departments and teams, they shall also be reported to the main person in charge of the amusement park so that typical case investigations can be carried out in a timely manner.
- d) Notification. According to the severity of the problem, when on-the-spot improvement (when safety cannot be guaranteed before or during the elimination of hidden dangers of the accident, relevant personnel shall be evacuated from the dangerous area), or time-limited rectification is required, some projects (equipment and facilities) shall be temporarily suspended or inactivated.

5.3.2 For the handling of general safety issues found on site, oral notices and records shall be made; for major safety issues found on site, written notices of correction and handling shall be made. In case of emergency, a verbal notice can be given at the scene first, and a written notice shall be issued at the end of the inspection on the same day.

5.3.3 For major accident hazards, the person in charge of the inspection team shall immediately report to the main person in charge of the amusement park and put forward handling opinions (suggestions). The amusement park shall formulate and implement a management plan for major accident hazards. The content of the management plan shall include the objectives and tasks of the management, the methods and measures adopted, the implementation of funds and materials, the institutions and personnel responsible for the management, the time limit and requirements of the management, and the safety measures and emergency plans, etc. Where the major accident hazards are eliminated, production and operation can only be resumed after examination and approval.

5.3.4 The violations of command and operation found in the safety inspection shall be stopped immediately, and issued with written or audio or video witness materials depending on the severity.

5.4 Safety inspection opinions and rectification and closure

5.4.1 After the on-site work is completed, the inspection team shall submit safety inspection summary form and inspection opinions.

5.4.2 For the safety inspection led by the main person in charge of the amusement park, the

minutes of the last meeting can be regarded as inspection opinions.

5.4.3 After the on-site safety inspection is completed, according to the seriousness of hidden dangers and the urgency of solving them, the person in charge of the inspected amusement park or related organizations shall promptly decide the person responsible for the rectification, the time limit for rectification and relevant resources. For typical safety problems, the “three investigations and three corrections” shall be completed on schedule, and materials to prove the completion of rectification shall be submitted to the inspection team.

5.4.4 The person in charge of the inspection team shall follow up on the rectification progress and completion of the problems found in the inspection, and supervise the thorough rectification and closure of the problems. For those that have reached the rectification deadline, it shall be confirmed whether the rectification work has been completed. For the completion of rectification of major safety risks, personnel shall be sent to review on site. For the rectification of general safety issues (including guardianship measures taken), inspection personnel can confirm the rectification materials, or conduct on-site confirmation during the subsequent safety inspection process.

6 Other management requirements

6.1 Summary and analysis

6.1.1 After the on-site safety inspection work is completed, the inspection work carried out shall be summarized, to summarize and analyze the safety inspection data, common problems and typical cases, as well as the deficiencies in this safety inspection work, and measures to improve the follow-up inspection work shall be taken in a targeted manner.

6.1.2 Various inspection findings in different periods, different stages, different inspection categories, and different inspected objects shall be regularly summarized – finding out the essence through phenomenon – so as to continuously adjust safety inspection items, types, objects, key points and modes, as well as methods.

6.2 Inspection discipline

6.2.1 For documents that need to be kept confidential and sensitive information, the inspection personnel shall abide by the confidentiality regulations.

6.2.2 Irrelevant personnel and personnel with business competition or conflicts shall not be brought in when carrying out on-site safety inspections.

6.2.3 Safety inspection personnel shall abide by the work discipline and timetable of the amusement park.

6.2.4 Hazardous chemical warehouses, power equipment areas (transformer rooms, high and low voltage power distribution rooms, generator rooms, etc.) and important equipment rooms

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