

ICS 93.030
CCS P 41



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 50334-2017

Replacing GB 50334-2002

**Quality acceptance code for municipal sewage treatment plant
engineering
(English Translation)**

Issued on: January 21, 2017

Implemented on: July 1, 2017

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China;
General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

Table of Contents

- 1 General
- 2 Terms
- 3 Basic Regulations
 - 3.1 General provisions
 - 3.2 Project Acceptance Regulations
 - 3.3 Acceptance procedures and organization
- 4 Engineering survey
 - 4.1 General provisions
 - 4.2 Plane measurement
 - 4.3 Height measurement
- 5 Foundations and foundations
 - 5.1 General provisions
 - 5.2 Excavation and backfilling of foundation pit
 - 5.3 Foundation treatment
 - 5.4 Pile foundation
- 6 Sewage and sludge treatment structures
 - 6.1 General provisions
 - 6.2 Cast-in-place reinforced concrete structures

1 General

1.0.1

In order to strengthen the project quality management of urban sewage treatment plants, unify the project acceptance standards of urban sewage treatment plants, ensure project quality, and achieve economical rationality, safety and reliability, this specification is formulated.

1.0.2

This code is applicable to the project quality acceptance of newly built, expanded and reconstructed urban sewage treatment plants.

1.0.3

The project quality acceptance of urban sewage treatment plants shall not only comply with this specification, but also comply with the current relevant national standards.

2.0.1 Wastewater treatment plant

The places where sewage and sludge are purified and treated by physical, chemical and biological methods are also called water purification plants and reclaimed water plants.

2.0.2 Functional test functional test

The process of testing and inspecting the use function and safety performance of sewage treatment plant units, divisions and sub-projects.

2.0.3 Single trial operation single trial operation

The operation test process is carried out after the installation of the equipment with independent function.

2.0.4 Combined trial operation

In order to verify the safety and reliability of the system, the system handles the operation test process of the load linkage test run of the facilities and equipment.

3.1 General provisions

3.1.1

Construction, survey, design, construction, supervision and operation units should participate in the acceptance of sewage treatment plant engineering quality.

3.1.2

The requirements of all parties involved in the project quality acceptance of the sewage treatment plant shall be determined in combination with the actual situation of the project.

3.1.3

The construction unit shall organize and formulate the project quality acceptance plan of the sewage treatment plant, which shall include the following contents.

- 1 Organizational form of acceptance;
- 2 Standards and documents for acceptance;
- 3 The steps and procedures of acceptance;
- 4 The time, progress and plan of acceptance;
- 5 Acceptance criteria.

3.1.4

The instruments, meters, equipment and testing tools used in the project quality acceptance of the sewage treatment plant shall be used only after passing the verification

of the metrological verification institution.

3.1.5

The quality acceptance inspection methods of sewage treatment plants shall include observation inspection, of various records, inspection of test (inspection) reports and actual measurements, etc., and shall comply with the following regulations.

1 Observation inspection should adopt methods such as watching, touching, pulling, and applying foaming liquid to check the appearance, smell, state, orientation, tightness and other attributes of the project;

2 Inspection of various records should include inspection of construction records during construction, process data, supervision inspection records, acceptance records, etc., and check the time, place, specific project content, and participating personnel in the supervision inspection records, acceptance records, etc. and division of labor, records should have complete and clear inspection results, work arrangements and requirements;

3 Inspection and test (inspection) reports shall include the test, experiment, and inspection reports issued by qualified units, and the time, objects, and project contents of the project construction process shall be checked, and the test, experiment, and inspection reports shall have clear in conclusion;

4 The actual measurement shall include the measurement of the external dimensions, structural performance and equipment installation accuracy of the project through various tools and instruments, etc., and shall record the environmental conditions, equipment and instrument conditions, inspection items, inspection time and place, The method, personnel and results of the actual measurement.

3.1.6

The records filled in during the project quality acceptance process of the sewage treatment plant should be accurate and complete, and should comply with the relevant provisions of the current national standard "Code for Archiving Construction Project Documents" GB/T 50328 and "Regulations for Management of Construction Project Data" JGJ/T 185.

3.1.7

The engineering quality of the sewage treatment plant shall not only comply with the relevant provisions of the current national standards, but also meet the requirements of the engineering construction documents, survey and design documents, and equipment technical documents.

3.1.8

The following documents shall be provided during the quality acceptance of the sewage treatment plant project.

1 Construction project contract;

- 2 Geological survey data, construction drawing design documents and design changes;
- 3 Construction organization design and special construction plan;
- 4 Construction records, test records, inspection records, supervision and inspection records, sewage treatment plant unit (sub-unit) projects, division (sub-division) projects, sub-projects and inspection batch project quality inspection records and engineering meeting records;
- 5 Inspection and acceptance materials for the application of the four new technologies, including special programs and expert demonstration documents, etc.;
- 6 Other documents and materials to be verified.

3.1.9

After the comprehensive completion acceptance of the project is passed, the construction unit shall file the completion acceptance report and relevant documents.

3.2 Project Acceptance Regulations

3.2.1

Project quality acceptance shall be divided into unit (sub-unit) project, sub-division (sub-division) project, sub-item project and inspection batch acceptance of structure (building) engineering; unit (sub-unit) project of installation project, branch (sub-division) project, sub-item project acceptance; plant supporting project acceptance; joint trial operation acceptance and comprehensive completion acceptance.

3.2.2

The division of project quality acceptance shall meet the following requirements.

- 1 The unit (sub-unit) project should have independent construction conditions, and should be able to form an independent use function or be able to be used as a separate cost accounting;
- 2 Division (subdivision) projects shall be divided according to professional nature or construction location;
- 3 Sub-item projects should be divided according to main types of work, materials or construction techniques, equipment categories, etc.;
- 4 Sub-projects can be composed of one or several inspection batches, which can be divided according to the needs of construction, quality control and professional acceptance.

3.2.3

The sewage treatment plant project shall be classified according to the provisions of Appendix A of this code, and shall be reviewed by the supervisory unit. The parts not included in Appendix A of this specification can be determined by the construction unit and