

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HJ 406-2021

**Technical specifications for acceptance of environmental
protection facilities for completed construction projects -
Ethylene engineering
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Ministry of Ecology and Environment

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

4 Acceptance work procedures

5 Start acceptance

6 Acceptance self-inspection

7 Compile the acceptance monitoring plan

8 Implement acceptance monitoring and inspection

9 Prepare the acceptance monitoring report (table)

10 Follow-up acceptance work

Appendix A (Informative Appendix) List of Ethylene Engineering Products

Appendix B (informative appendix) Acceptance work procedure diagram

Appendix C (informative appendix) Checklist of materials

Appendix D (informative appendix) Acceptance self-examination content table

Appendix E (informative appendix) Contents of the acceptance monitoring plan

Appendix F (informative appendix) Recommended monitoring and analysis methods

Appendix G (informative appendix) Recommended method for follow-up acceptance work

1 Scope of application

This standard specifies the work procedures and general requirements for the acceptance of environmental protection facilities for the completion of ethylene projects, and proposes start-up acceptance, self-inspection, Technical requirements for compiling acceptance monitoring plans, implementing acceptance monitoring and inspection, and compiling acceptance monitoring reports (tables).

This standard applies to the acceptance of environmental protection facilities for ethylene projects completed.

In the ethylene project, the completed environmental protection facility acceptance work of the self-provided thermal power generating unit (plant) shall be carried out in accordance with HJ/T 255, and the dock and other ecological the acceptance check of the completed environmental protection facilities for the impacted projects shall be carried out in

accordance with HJ/T 394.

Other contents not stipulated in this standard shall be in accordance with the Pollution Impact Category of the Technical Guidelines for Environmental Protection Acceptance of Construction Projects (Ministry of Ecology and Environment) Report No. 9 of 2018) Annex implementation.

2 Normative references

This standard refers to the following documents or clauses thereof. For dated references, only the dated version applies to this standard.

For undated references, the latest edition (including all amendments) applies to this standard.

GB 3096 Acoustic Environment Quality Standard GB 5085.7 General Rules for Identification Standard of Hazardous Waste GB 12348 Industrial Enterprise Boundary Environmental Noise Emission Standard GB 13271 Boiler Air Pollutant Emission Standard GB 14554 Emission Standard of Odor Pollutants GB 16297 Comprehensive Emission Standard of Air Pollutants GB 18484 Standard for Pollution Control of Hazardous Waste Incineration GB 18597 Hazardous Waste Storage Pollution Control Standard GB 18599 General Industrial Solid Waste Storage and Landfill Pollution Control Standard GB 31571 Pollutant discharge standard for petrochemical industry GB 34330 General Rules for the Identification Standard of Solid Waste GB/T 8170 Numerical Rounding Rules and Representation and Judgment of Limit Values GB/T 14581 Technical Guidelines for Sampling of Water Quality in Lakes and Reservoirs GB/T 16157 Determination of particulate matter in exhaust gas from stationary pollution sources and sampling methods for gaseous pollutants HJ/T 52 Technical Guidance for Water Quality River Sampling HJ/T 55 Technical guidelines for monitoring fugitive emissions of air pollutants HJ 75 Technical Specification for Continuous Monitoring of Flue Gas (SO₂, NO_x, Particulate Matter) Emissions from Stationary Pollution Sources HJ 76 Technical requirements and testing methods for continuous monitoring system for emission of flue gas (SO₂, NO_x, particulate matter) from stationary sources HJ/T 91 Technical Specification for Surface Water and Sewage Monitoring HJ 91.1 Technical Specification for Wastewater Monitoring HJ/T 92 Technical Specifications for Monitoring Total Discharge of Water Pollutants HJ 164 Technical Specification for Groundwater Environmental Monitoring HJ/T 166 Technical Specification for Soil Environment Monitoring HJ 194 Technical Specification for Manual Monitoring of Ambient Air Quality HJ/T 255 Technical Specifications for Environmental Protection Acceptance of Completion of Construction Projects for Thermal Power Plants

5.1 Collect acceptance data

The collected acceptance data includes environmental protection data, engineering data related to environmental protection, and drawing data. For the list of acceptance documents, please refer to the attached Record C.

5.2 Develop an acceptance work plan

Formulate the acceptance work plan, clarify the acceptance monitoring method of the enterprise's self-test or entrust the technical organization to monitor, and the acceptance work schedule.

6.1 Purpose of self-examination

Self-inspection on the implementation of environmental protection procedures, the completion of projects and environmental protection facilities, and the environmental impact report (form) and its the consistency of the approval decision of the approval department, to determine whether it has the conditions to carry out the acceptance work as planned; self-check the distribution of pollution sources and pollutant discharge the situation and the setting of the discharge outlet, etc., are used as the basis for formulating the acceptance monitoring plan.

6.2.1 Implementation of environmental protection procedures

The performance of environmental protection formalities includes the project environmental impact report (form) and its approval by the approval department; if there is a major change, the the completion of the corresponding approval procedures; the implementation of the project supervision, inspection and rectification requirements by the national and local ecological environment authorities;

License application, etc.

6.2.2 Construction of the project

Comparing with the environmental impact report (table) and the approval decision of the approval department, self-examination of the main project, storage and transportation projects, public and auxiliary projects and compliance Construction of supporting projects, etc. See Table D.1 to Table D.4 in Appendix D for the content of self-inspection.

6.2.3.1 Pollution control/disposal facilities

Comparing with the environmental impact report (form) and the approval decision of the approval department, self-examination of waste gas, waste water, noise, solid waste pollution control/the completion of disposal facilities shall be used as the basis for determining the monitoring contents such as monitoring points and factors in the

acceptance monitoring plan. See Appendix D for the content of the self-examination in Table D.5 to Table D.8.

6.2.3.2 Construction of other environmental protection facilities

Comparing with the environmental impact report (form) and the approval decision of the approval department, self-inspect the completion of other required supporting environmental protection facilities, as the basis for determining the inspection content in the acceptance monitoring plan. See Table D.9 in Appendix D for the content of self-inspection.

6.3 Self-examination results

Or the environmental impact report (form) has not been approved, and the environmental impact report (form) and the approval decision of the approval department have not been approved.

Environmental protection facilities, and those who should have obtained but have not obtained a pollutant discharge permit, should go through relevant procedures or rectify before continuing the acceptance work.

The self-inspection found that the location of the pollutant discharge outlet or the pollutant discharge method, the discharge destination, the number of pollutant discharge outlets or the type of pollutant discharge.

If the pollutant discharge permit is inconsistent with the pollutant discharge permit, a new pollutant discharge permit shall be applied in accordance with the provisions of the Regulations on the Administration of Pollutant Discharge Permits.

If the discharge outlet does not meet the monitoring conditions, such as the sampling platform and sampling hole setting are not standardized, it should be rectified in time to ensure the quality of the on-site monitoring data.

Quantity and monitoring personnel safety.

7.1 Compilation principle of acceptance monitoring plan

Ethylene engineering enterprises should determine the project acceptance monitoring content according to the results of the acceptance self-inspection, and formulate an acceptance monitoring plan.

For a project with a simple content, the content of the acceptance monitoring plan can be appropriately simplified, but it should include acceptance execution standards, monitoring points, monitoring factors, monitoring frequency, etc.