

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

HJ 405-2021

**Technical specifications for acceptance of environmental
protection facilities for completed construction projects -
Petroleum refinery industry
(English Translation)**

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1 Scope of application

This standard specifies the working procedures and general requirements for the acceptance check of the completed environmental protection facilities of petroleum refining industry construction projects, and proposes the start-up inspection Technical requirements for acceptance, self-inspection, preparation of acceptance monitoring plan, implementation of acceptance monitoring and inspection, and preparation of acceptance monitoring report (table).

This standard is applicable to the acceptance work of completed environmental protection facilities for petroleum refining industry construction projects.

The acceptance of the completed environmental protection facilities for the self-provided thermal power generating unit (plant) in the petroleum refining industry construction project shall be carried out in accordance with HJ/T 255.

The acceptance work of completed environmental protection facilities for docks and other ecological impact 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 31570 Petroleum Refining Industry Pollutant Emission Standard 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 HJ 353 Technical Specification for Installation of Water Pollution Source Online Monitoring System (CODCr, NH₃-N, etc.) HJ 354 Technical Specification for Acceptance of On-Line Monitoring System for Water Pollution Sources (CODCr, NH₃-N, etc.) HJ 355 Technical Specifications for Operation of Online Monitoring System for Water Pollution Sources (CODCr, NH₃-N, etc.) HJ 356 Technical Specification for Data Validity Judgment of Water

Pollution Source Online Monitoring System (CODCr, NH₃-N, etc.) HJ/T 394 Environmental Protection Acceptance Technical Specification for Completion of Construction Projects, Ecological Impact Category HJ/T 397 Technical Specification for Stationary Source Waste Gas Monitoring HJ 442.8 the eighth part of the technical specification for environmental monitoring in the coastal waters is the direct discharge of pollution sources and their impact on the water environment in the coastal waters.

sound monitoring

HJ 493 Technical Regulations for the Preservation and Management of Water Quality Samples HJ 494 Water Quality Sampling Technical Guide HJ 495 Technical Regulations for Design of Water Quality Sampling Scheme HJ 630 Environmental Monitoring Quality Management Technical Guidelines HJ 640 Environmental Noise Monitoring Technical Specifications Routine Monitoring of Urban Acoustic Environment HJ 691 Technical Guidelines for Sampling of Semi-volatile Organic Compounds in Ambient Air HJ 730 Technical Specification for Layout of Environmental Monitoring Points in Offshore Sea Areas HJ 733 Technical Guidelines for the Detection of Volatile Organic Compounds in Leaks and Open Liquid Surface Emissions HJ 819 General Principles of Technical Guidelines for Self-Monitoring of Pollutants HJ 905 Technical Specification for Environmental Monitoring of Odor Pollution HJ 1019 Technical Guidelines for Sampling of Volatile Organic Compounds in Soil and Groundwater "Announcement on Issuing the Pollution Impact Category of Technical Guidelines for Environmental Protection Acceptance of Completion of Construction Projects" (Announcement of the Ministry of Ecology and Environment no. 9 of 2018) Regulations on the Administration of Pollution Discharge Permits (Order No. 736 of the State Council of the People's Republic of China)

3 Terms and Definitions

The following terms and definitions apply to this standard.

Petroleum refining industry Using crude oil, heavy oil, etc. as raw materials to produce gasoline fractions, diesel fractions, fuel oil, lubricating oil, petroleum wax, petroleum asphalt and petrochemical industry of raw materials, etc.

effluent volume of per ton crude oil the ratio of the amount of waste water discharged into the environment and the amount of raw (feed) oil processed in the production process of petroleum refining industrial enterprises within a certain measurement time.

The processing volume of raw (feedstock) oil includes the amount of primary (feedstock) oil processed and directly entered into the secondary processing device.

hydrargyrate crude oil Crude oil with mercury content greater than 5 µg/g.

environmental protection facilities Prevent and control environmental pollution and ecological damage, and carry out installations, equipment and engineering facilities

required for environmental monitoring.

4 Acceptance work procedures

The acceptance work includes acceptance self-inspection, acceptance monitoring and subsequent acceptance work. The acceptance monitoring work can be divided into the preparation of acceptance monitoring plans, There are three stages of implementation of acceptance monitoring and inspection, and preparation of acceptance monitoring report (table). The follow-up acceptance work includes putting forward acceptance opinions, compiling "their Matters that he needs to explain", forming and making public acceptance reports, registration on the national construction project completion environmental protection acceptance information platform, and file retention Wait. See Appendix A for the acceptance work procedure diagram.

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 B.

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 of the implementation of environmental protection procedures, the completion of projects and environmental protection facilities, and the environmental impact report (table) and its the consistency of the approval decision of the approval department, to determine whether the conditions for the acceptance work as planned; self-inspection of 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;