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**INDUSTRY STANDARD OF THE  
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**Technical specifications for environmental monitoring  
information transferring**

环境监测信息传输技术规定

**(English Translation)**

**Issued on: January 1, 1970**

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## Foreword

To implement the "People's Republic of China Environmental Protection Law", "People's Republic of China Air Pollution Prevention Law," "People's Republic Water Pollution Prevention Law "and" People's Republic of China Environmental Noise Pollution Prevention Law "to regulate the environmental monitoring and guidance letter Information transmission, formulation of this standard.

This standard specifies the transmission mode of environmental monitoring information transfer processes, data formats and codes of the definition of transmission.

The Standard Appendix A, Appendix B is normative appendix, Appendix C is informative appendix.

This standard was first published.

This standard is developed by the Ministry of Environmental Protection Science, Technology organization.

This standard is mainly drafted by. China National Environmental Monitoring Center, Shanghai Environmental Monitoring Center.

This standard MEP September 18, 2013 for approval.

This standard shall be December 1, 2013 implementation.

The standard explanation by the Ministry of Environmental Protection.

Environmental monitoring information transfer technical regulations

## 1 Scope

This standard specifies the transmission mode of environmental monitoring information transfer processes, data formats and codes defined transmission.

This standard applies to all levels of the national environmental monitoring stations, monitoring stations at all levels and the automatic transmission between the units concerned environmental monitoring information Transport activities.

Without limiting the expansion of the content standard monitoring information transmission environments other than those specified in this standard, but the content can not be extended and Conflict with the provisions of this standard.

## 2 Normative references

This standard references the following documents or the terms. For undated references, the effective version applies to this standard.

GB 2312 exchange information with Chinese characters coded character set basic set GB 3095 Ambient Air Quality Standard GB 3096 acoustic environment quality standards GB 3838 Surface Water Quality Standards GB 15618 Soil Environmental Quality Standards GB 16297 Air Pollutant Emission Standards GB/T 16705 environmental pollution category code GB/T 16706 environmental pollution category code HJ 524 Code Name of atmospheric pollutants HJ 525 water contaminants Code Name HJ/T 75 stationary sources Continuous Emission Monitoring Technical Specifications HJ/T 212 pollution-line automatic monitoring (monitoring) system data transmission standards HJ/T 352 Environmental pollution automatic monitoring information transmission, switching technology (for Trial Implementation)

## 3 Terms and Definitions

The following terms and definitions apply to this standard.

### 3.1 Automatic Stations (Automatic Monitoring Station)

It refers to continuous environmental monitoring on-line automatic monitoring of various environmental factors or sources of pollutant emissions monitoring terminal and its subsidiaries facility. Such as automatic water quality monitoring stations, automatic air monitoring stations, water pollution automatic monitoring stations and the like.

### **3.2 Environmental Monitoring Information (Environmental Monitoring Information)**

It refers to the process of environmental monitoring, environmental monitoring objects (such as various environmental factors, pollution, etc.) monitoring the implementation (including manual Monitoring and automatic monitoring) arising from observations and measurements.

## **4 Abbreviations**

The following abbreviations apply to this standard.

FTP file transfer protocol (File Transfer Protocol) Extensible Markup Language XML (Extensible Markup Language) VPN virtual private network (Virtual Private Networks)

### **5.1.1 Four national environmental monitoring network structure**

Four national environmental monitoring network structure progressively from the bottom up are. District (County) environmental monitoring, prefectural (city) Environmental monitoring stations, provincial (municipal) Environmental Monitoring Station, China National Environmental Monitoring Center.

### **5.1.2 Environmental monitoring information transfer mode**

Environmental monitoring information from the station to the next level up a gradual transfer station, and finally to China National Environmental Monitoring Center, as shown in Figure 1 FIG.

### **5.2.1 Automatic monitoring network structure**

Automatic monitoring network structure step by step from the bottom up are. District (County) environmental monitoring, prefectural (city) Environmental Monitoring Station, Provinces (municipalities) Environmental Monitoring Station, China National Environmental Monitoring Center.

### **5.2.2 Automatic monitoring information transfer mode**

- a) sequential transmission. automatic monitoring station data from the next level up a gradual transfer station, and finally to China Environmental Monitoring Terminus;
- b) cross-level transmission. automatic monitoring data can be environmental monitoring stations by the district (county) directly to the provinces (municipalities) or Environmental Monitoring Station by China Environmental Monitoring Station transmission can also be directly transmitted by the Environmental Monitoring Station (city) to the China Environmental Monitoring Station, as

Figure 2.

Figure 1 four national environmental monitoring network structure and information transfer mode

2 automatic monitoring network structure and information transfer mode

### 6.1 Environmental Monitoring Information Data Type

Environmental monitoring information data type based environmental monitoring service differentiation, routine environmental monitoring business are 11 species, its should environmental monitoring information and data type codes shown in Table 1.

Table 1 Environmental Monitoring Information and data type codes

Business type data type code Ambient air Ambient air monitoring data AQ Precipitation monitoring data AR Surface water surface water quality monitoring data WQ Drinking water Drinking water quality monitoring data WD Groundwater Groundwater quality monitoring data WG Coastal waters offshore seawater quality monitoring data WS Soil soil environmental quality monitoring data SQ Noise Noise monitoring data NQ Exhaust gas pollution monitoring data AW Waste water pollution monitoring data WW Biological biomonitoring data SW Exceeded more than 11 kinds, such as environmental monitoring information data type, self-coding extension, the code for the two capital English word mother.

### 6.2 Environmental monitoring information data transmission frequency

Data by defining the start time and end time data generated two properties to determine the type of data is found, a small when the average daily averages, quarterly averages, the annual average of the relevant standards or statistical frequency value, as per the monitoring station the actual data collection situation.

XML data must meet the data requirements of the definition, otherwise regarded as invalid data. When a monitoring point at the same time heavy data when re-present to the first subject, prevents data from being modified.

### 7.1 Environmental monitoring information transmission operating environment

Environmental monitoring information transmission channel to the State Environmental Protection business network as the main transmission channel, in no condition to use the country Set up VPN network data transmission channel based on the case of home Internet business network of environmental protection.