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

LS/T 1221-2020

**Code of practice on on-line monitoring of stored grain pests
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009:

This standard was proposed by the National Grain and Material Reserve Bureau:

This standard is under the jurisdiction of the National Cereals and Oils Standardization Technical Committee (SAC/TC270):

Drafting organizations of this standard: Henan University of Technology, National Grain and Material Reserve Bureau Standard Quality Center, China Grain Storage Chengdu Food

Storage Science Research Institute, Nanjing University of Finance and Economics,
National Grain and Material Reserves Institute of Science, China Grain Reserve
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1 Scope

This standard specifies the terms and definitions, technical requirements, collection and result evaluation of online pest information monitoring for stored grain pests Application of online pest monitoring results, etc:

This standard applies to technical application sites that use the above online technologies to monitor grain conditions and stored grain pests:

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article Pieces: For undated references, the latest version (including all amendments) applies to this document:

GB/T 5491 Grain and oilseed inspection samples and sampling method GB/T 26882.1 Grain Condition Monitoring and Control System for Grain and Oil Storage Part 1: General Rules GB/T 26882.3 Grain Condition Monitoring System for Grain and Oil Storage Part 3: Software GB/T 26882.4 Grain and Oil Storage Grain Condition Monitoring and Control System Part 4: Information Exchange Interface Protocol GB/T 29890 Technical Specifications for Grain and Oil Storage LS/T 1817 Technical Specification for Granary Remote Video Monitoring System

3 Terms and definitions

The following terms and definitions apply to this document:

Stored grain pests online monitoring technology on-line monitoring technology of insects in stored grain Use of pest traps, carbon dioxide concentration in grain piles, and video images of grain surfaces to monitor the occurrence of pests in stored grain online:

On-line surface trap monitoring device for insects in stored grain A device for online monitoring of stored-grain pests with the help of pest traps placed on the surface of the grain pile and combined with remote control technology: Such as: corrugated board trap Device, glue board trapping device, etc:

Probe tube type online pest trapping device on-line probe monitoring device for insects in stored grain A device that uses probe traps placed inside or on the surface of the grain pile and combined with remote control technology to monitor stored grain pests online: Can be matched Applicable external extraction system equipment, etc:

Remote online video monitor remoteand on-line videocamera monitor A device that uses a video monitor (camera) in the granary to monitor the occurrence of pests on the surface of the grain pile and combines it with online information collection and observation:

Carbon dioxide gas on-line detection device on-line carbondioxidemonitor Using sensors placed in the granary or grain pile to detect the concentration of carbon dioxide gas online and combine the grain information to determine the occurrence of pests Gas detection device: