

## THE IMPORTANCE OF TESTING LABORATORIES AND THEIR ACCREDITATION.

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**Annotation:** Standardization is the establishment of a normative unit for product types, models, parameters, dimensions and quality, as well as production technology, testing and control methods, product placement, design, storage, etc. A standard is a normative-technical document on standardization approved by a special organization that imposes a set of rules, procedures and norms on standardization objects.

**Key words:** product, standard, metrology, resources, certificate, laboratory, quality, management, quality system, international standards, interoperability, safety, competition.

Accredited testing laboratories are an important component in every certification activity - product testing, certification and quality control of certified products. During the production of the product, its tests, evaluation of the level of the samples being created, and verification of compliance with the requirements of the consumer are carried out by manufacturers and preparers.

With the emergence of requirements for product safety and environmental protection in the laws of foreign countries, tests are being conducted with the participation of representatives of state agencies. Such experience leads to the creation of a national system of tests with accredited testing laboratories [1].

Accreditation of laboratories means official recognition of the rights of a

testing laboratory to perform certain tests or certain types of tests. This can be seen as an expression of recognition of the technical competence and objectivity of the testing laboratory, or only competence. It is understood that the test laboratory is inspected in order to determine the compliance with the criteria established for the accreditation of the laboratory. Laboratories applying for certification tests and accreditation are subject to certain requirements and their fulfillment is monitored by certification bodies.

Specific requirements for laboratories are the theoretical training and technical ability of employees in practical work, the availability of testing equipment, the adequacy of material and technical support for the correct conduct of the necessary inspection tests to obtain the right of accreditation of measuring and other tools. , the full implementation of the tested test methods for each determination according to the certification specifications, and as a result, ensuring the reproducibility and validity of the test results, the laboratory has a clear and organizational legal position, independent from the product manufacturer and commercial or the fact that it cannot affect the validity of tests that are not in other obligations, it consists in the existence of system quality assurance in conducting tests [2].

Accreditation carried out by the certification office checks how the test laboratories meet these requirements and the condition of the laboratory is thoroughly studied. At the same time, the procedure for accreditation of testing laboratories and the work they perform differ in different countries, with the characteristics of their systems. Currently, the national system of accreditation of testing laboratories has been established in many countries and has been established to a certain extent. Implementation of plans of testing laboratories in the republic is carried out voluntarily .

Submitting and reviewing the application of the testing laboratory that is an applicant for accreditation for the accreditation of the laboratory, examining the submitted accreditation documents, appointing a commission for the inspection of

the accredited laboratory and determining the period of its implementation, on-site certification of the accredited laboratory (inspection ), it is necessary to make a decision on the accreditation of the laboratory, issue a certificate of accreditation of the laboratory, register and submit it [3].

Accredited laboratory working and necessary documents for accreditation, test laboratory own Dst 16.4 (MC ISO/MEK 17025) EN 45000, legal documents test laboratory charter, test laboratory passport, certificate of accreditation, questionnaire about laboratory status, test laboratory accreditation field, it is important to have an application for accreditation to the accreditation and inspection control department. It is also important for the testing laboratory to have working and accreditation documents:

Organizational normative documents - international standard Uz Dst 16.4;

Tested product documents - GOST, Uz TS, etc.;

Quality management system documents - quality manual, procedure documents;

Documents of testing and measuring devices - information on passport, comparison, certification, operating documents;

Laboratory personnel composition documents - personal file of employees, job instructions, attestation results;

Test documents of the product sample - passport, operating manuals, instructions;

Test procedure and data registration - test method and program, test reports, test reports;

Construction maintenance documents - instructions for ensuring mandatory procedures, operating documents;

Archive documents consist of instructions for maintaining the archive, working journals, minutes, reports, reference documents for samples.

Documents stored in accredited laboratories are legal documents, such as the

charter of the accredited testing laboratory, passport of the testing laboratory, certificate of accreditation.

From the organizational-methodological documents Uz DSt 5.3 "National system of certification. Accreditation of testing laboratories (centers). Basic rules. ISO, ISO/MEK Documents, EN-45000 digital, standards planning organizational and methodological issues of N-series accreditation [4].

Regulatory documents related to the inspected product.

Quality manuals and procedural documents from the documents that ensure the quality of the system.

Among the documents related to testing and measuring equipment, the equipment is recorded (notebook, cards, sheets, passports, etc.) and documents containing information, the name of the equipment and its type, the manufacturing enterprise ( company), type (center), enterprise and inventory number, the time the equipment was developed, received and put into operation, the condition at the time of purchase (new, used, after repair, etc.), damage, repair, equipment information about the rigi, consisting of information about certification and verification [5].

From the documents on the operation and technical service of the tested equipment and measuring instruments, a passport for each individual tested equipment and measuring instruments, inspection methods of measuring instruments, and a certification plan for the inspected equipment and methods, certification procedures and approval of non-standard testing and measuring methods, documents on the certification of the equipment under test, which take into account the verification of measuring devices: the schedule of testing the test equipment and measuring devices, Uz DSt 5.0 It is important to have documents that cover issues such as the field of application, annex to regulatory documents, basic terms used in certification, general rules, organizational structure and tasks of the national certification system, international cooperation in the fields of testing and certification .

Documents about laboratory staff include personal brochures of laboratory workers, career instructions, laboratory staff certification materials [6].

Documents of the test item (goods) sample, passport of the test items, instruction manual and technical description, including instructions on the procedure for specifying the samples of the items, the procedure for checking their completeness (integrity) and operability when receiving the samples, the item requirements for the completeness of documents for samples, the procedure for ensuring the storage of samples, the procedure for returning product samples to the customer .

From the documents for the procedure of listing the test data, the documents containing the procedure for conducting tests, the plan and method, the procedure for calculating the data, working logs, containing the results of tests and measurements, working notebooks, test report, test report.

In the documents on maintaining conditions in the rooms, there are instructions for ensuring the appropriate order in the production rooms, a notebook for controlling the conditions in the rooms. log book, documents on the operation of the equipment, documents on the operation of the equipment that controls and ensures the necessary conditions of the environment inside the rooms [7].

Among the archival documents, it is important to have information on these measurements and tests in the archival network, instructions on the procedure for keeping work notebooks, calculation of data, reports, documents on samples, etc.

Regulatory documents, documented procedures of the quality system, documents on the field of accreditation and certification and testing are considered objects of inspection control. Inspection control is carried out in a planned manner in accordance with the agreement concluded with the accrediting agency. According to this agreement, the head of the accrediting office will prepare an annual plan-schedule of the inspection control of the facility's activities. Unscheduled inspection control of the activities of the certification office, illegal treatment of the applicant

in the certification procedure and illegal issuance of the certificate of conformity and official confirmation of unsubstantiated evidence, as well as information disclosing the applicant's commercial secrets will be held in case of occurrence. The basis for the inspection control is the order of the accrediting agency, i.e., the composition of the inspection control commission and the specific period of its implementation .

The duration of the inspection should not exceed thirty calendar days. Inspection control is carried out by expert auditors on quality. Due to the fact that the object is related to the field of accreditation, it is possible to include in the commission qualified specialists (experts on the types of tests, representatives of the manufacturer, society for the protection of consumer rights, scientific-research organizations) on the issues considered during the inspection control [8].

The members of the commission must comply with the requirements for ensuring confidentiality. Inspection control is carried out according to the program approved by the head of the accrediting office. The inspection control program must contain the object and purpose of the inspection, the procedure and scope of the inspection control. Before the start of the inspection, the head of the commission must introduce the head of the inspected organization to the purpose and conditions of the inspection, the members of the commission, and give a copy of the order and program and receive a receipt stating that they have been received.

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