

State Enterprise
“State Quality Centre for Regulation of Supplies and Services”
of the Certification Body

CERTATOM

(short description)

Kiev city, 1997

MINISTRY OF ENVIRONMENTAL PROTECTION AND NUCLEAR SAFETY OF UKRAINE

First Deputy Minister

Head Of Nuclear Regulatory Authority

Chief State Inspector

Head of State Inspection

Nuclear Regulatory Authority

Normative Regulation and
Emergency Planning
Department

Radioactive Process and Waste
Department

Nuclear Installations Licensing
Department

Nuclear Fuel Cycle Department

Radioecology Department

Physical Protection Department

State S&T Center on Nuclear
and Radiation Safety

Ukrainian Radiological
Training Center

Information Center

State Center for Quality
Regulation of Supplies and
Services
CB CERTATOM

**State Inspection on Nuclear
Safety Supervision**

Inspections

F U N C T I O N S

Licensing of
Activity

Approval of TS for
production

Certification

Supervision over
nuclear safety

Enterprises supplying production and services for
nuclear energy utilization sphere

Production

National Atomic Energy Generating Company (ENERGOATOM)
entity

South-

Central

Energy

Company

Structure

INTRODUCTION

The Centre was established in 1992 as a part of Gosatomnadzor (State Committee of Ukraine for Nuclear and Radiation Safety) to regulate supplies for nuclear facilities.

As a state enterprise State Quality Centre for Regulation of Supply and Services (State Quality Centre) was set up by the Ministry of Environmental Protection and Nuclear Safety of Ukraine (MEPNS UKRAINE) in **March, 1996**.

The centre **has been accredited in Gosstandard of Ukraine** as a Certification Body named CERTATOM within Certification System UkrCEPRO and obtained an Accreditation Certificate # UA 4.001.078 of **July 18, 1997**.

According to the Resolution of the Cabinet of Ministers of Ukraine dated 17/09/96 # 1147 (paragraph 76) activity of the Centre was included into the **State List of Environmental Measures on Nuclear and Radiation Safety Issues**.

Tasks and types of activity

According to its Charter the main tasks of the Centre are the following:

1. Certification of quality systems and production to be supplied to nuclear facilities, facilities designed for radioactive waste management and sources of ionising radiation within the national certification system.
2. Expert inspections (audits) of industrial and technical conditions of the Applicants aiming at evaluating of possibility to grant permit (licence) for the Applicant to perform applied types of activity related to provided works and services.
3. Control over Suppliers to check fulfilment of normative requirements and conditions of the granted permits (licences), accounting and monitoring of elimination of identified deviations.
4. Development of draft rules and norms in the sphere of quality of production (processes, works and services), licensing of suppliers activity, certification of quality systems of Suppliers and production to be supplied to nuclear facilities, sources of ionising radiation, facilities designed for radioactive waste management.

State Quality Centre according to its tasks shall:

1. Implement functions of a state certification body within UkrCEPRO system
 - develop and submit to the Nuclear Regulatory Authority of the MEPNS UKRAINE and Gosstandard of Ukraine organisational and methodological documents on certification of quality system and production;
 - organise and carry out certification of the manufacturer;
 - participate in qualification of testing centres (laboratories)
 - organise the process and carry out certification of production
 - jointly with National certification body acknowledge results of certification of imported production
 - carry out technical supervision over the certified manufacturers, certified quality systems and production.
2. Carry out technical expertise of documents for production, participate in acceptance tests of samples of production to be supplied to nuclear facilities.

3. Make appraisal as a Certification Body within UkrCEPRO system of a documents, programmes, methods which are submitted for qualification of testing centres (laboratories) and certification of production.
4. Hold before-exams consultations, participate in examinations and qualification of management employees, members of Examination Committees, engineers and workers.
5. Provide consulting and methodological services to prepare manufacturer for licensing and certification of production.
6. Carry out special technical acceptance, inspections, diagnostics of equipment, systems and elements important for safety of nuclear installations, installations for radioactive waste management, sources of ionising radiation.

State quality Centre is a state enterprise and within its accreditation field it is independent from designer, manufacturer, suppliers and customers of production in view of its administrative and financial position.

Accreditation Field

CB CERTATOM shall implement its activity within UkrCEPRO Certification System and carry out works related to certification of production important for the safety of nuclear installations according to all indicators, defined in the field of accreditation, of such kinds as:

A. Thermal-mechanical equipment and equipment:

- pressure vessel, heat-exchanging and thermal-mechanical equipment;
- motor pump units (cooling pumps (main circulating) pumps, centrifugal, feed water, circulating, condensate, oil and other pumps);
- pipeline valves (reciprocal-turning valves, turning valves, air-tight valves, air-tight-ventilation, stop valves, control valves, safety valves, silfon valves, gaits, direct action pressure regulators, pulse safety valves and others);
- pipelines and heir elements for process systems of nuclear facilities;
- confined penetrations, safety devices and other elements of accident localisation;

- strengthen elements of pre-stressed containment systems;
- equipment, devices and transport means designed for fresh and spent nuclear fuel management;
- equipment, device, transport means, package sets for radioactive waste management, transportation, storage and disposal;
- fuel assemblies and their elements of nuclear facilities;
- special chemical-processing equipment for mining, enriching and processing of radioactive basic material and for manufacturing of fuel assemblies;
- welding equipment and materials designed for manufacturing of elements, components and equipment for nuclear facilities, sources of ionising radiation and facilities designed for radioactive waste management.

B. Electrical equipment:

- equipment, parts, elements of control system and reliable power supply systems (electromagnetic starters, electrothermal relays, intermediate relays, indicating emergency conditions in the DC and AC systems, adapters, printed circuit boards, power units, transformers, units of tube electric heaters, temperature regulators, devices for isolation monitoring, thermal electrical transducers, temperature signalling devices and others);
- equipment of automatic control systems (Computing control complexes, turbine automatic governing system, UKTS (unified complex of technical means)), ventilators for Automatic Control System
- equipment, devices of radiometry and dosimetry (equipment for radiation safety monitoring, radiometers, dosimeters, detecting units;
- informational-computing units, systems and elements,
- sources of ionising radiation to be used for industrial purposes, in agriculture, medicine, education and in scientific researches.

Organisational Structure

The organisational structure of the State Quality Centre , CB CERTATOM incorporates:

- a) Management Department
- b) Production Departments

c) Regional Branches CB:

- in Ivano Frankovsk
- in Lvov
- in Nikopol
- in Zheltye Vody
- in Sumy
- in Kharkov
- in Uzhno Ukrainsk
- in Energodar
- in Slavutich
- Certification Centre of Automatic Control System

CB CERTATOM on the basis of agreements co-operates with testing laboratories and certification bodies, qualified in UkrCEPRO system and involves them to participate in certification works.

Qualification of Centre, CB experts

There are 45 employees in the Centre working on a regular basis (and among them 23 representatives work in the regional departments). For additional works outside experts are involved. Experience of the experts in the sphere of supervision and certification (inspection and technical supervision, technical acceptance, participation in tests, expertise of technical and normative documents, expertise of technical capabilities of enterprises) constitutes:

under 4 years - 39% of employees

from 4 to 10 years - 29 % of employees

more than 10 years - 32% of employees.

All the engineers of the centre have university technical education.

The Centre experts are well-experienced in the following fields:

- nuclear facility operation and radioactive material management
- construction/erection works, commissioning works at nuclear facilities
- manufacturing of thermal mechanical equipment

- manufacturing of electrical equipment.

When undertaking their duty by CERTATOM experts any unlawful pressure that may have a negative impact to the certification results is completely excluded.

Upgrading of qualification of the specialists involved in production certification is realised by periodical training in specialised training centres. For today 13 employees have certificates about graduation of such training.

Normative Basis

The normative documents fund archive includes:

- normative documents for production and methods of its testing throughout the accreditation sphere
- international quality assurance standards
- information system which covers all legislative and normative documents adopted by the state Authorities of Ukraine since 1991.

Establishment of Ukrainian Body on Certification of Production and Quality System in the sphere of Nuclear Energy and Radiation Safety

Main Stages of Establishment of the Certification Body

Stage	Event	Date
I	Establishment of the enterprise	
	Approval of the Charter. Registration in the Executive Power Bodies	March, 1996
II	Creation of certification body	1996
	Assignment of CB by the order of Gosstandard and Minekobezopasnosti of Ukraine	1996
	Execution of single works on separate Gosstandard permits	1996-1997
	Accreditation in the national certification system UkrSEPRO	July, 1997
III	Execution of works on certification of production produced by Ukrainian enterprises	1997
	training, getting experience of CB expert-auditors on procedures of national UkrSEPRO system	1996-1997
	development, improvement of internal working procedures	1996-1997
	establishment of normative basis of the norms, rules and standards for the main CB activity	1997
IV	Execution of works on certification of production of foreign companies-manufactures	1998
	TACIS - TAREG 2. 01/97 Project	1998 r.
V	Assignment of CB CERTATOM as a leading organisation within the brunch certification system.	September 1998.



ДЕРЖАВНИЙ КОМПІТЕТ УКРАЇНИ ПО СТАНДАРТИЗАЦІЇ, МЕТРОЛОГІЇ
ТА СЕРТИФІКАЦІЇ (ДЕРЖСТАНДАРТ УКРАЇНИ)

Українська система акредитації
Система сертифікації УкрСЕПРО

АТЕСТАТ АКРЕДИТАЦІЇ ОРГАНУ З СЕРТИФІКАЦІЇ ПРОДУКЦІЇ

Зареєстрований у Реєстрі Системи
сертифікації УкрСЕПРО
"18" липня 1997 р. № UA 4. 001. 078
Дійсний до "18" липня 2000 р.

ДЕРЖСТАНДАРТ УКРАЇНИ ЗАСВІДЧУЄ, ЩО Державне підприємство "ДЕРЖАВНИЙ ЦЕНТР РЕГУЛЮВАННЯ ЯКОСТІ
ПОСТАВОК ТА ПОСЛУГ" (ДЕРЖЦЕНТРЯКОСТІ) - Орган з сертифікації продукції СЕРТАТОМ.252113, м.Київ, пр.Перемоги,53.
(назва організації - органу з сертифікації, адреса)

1 4 2 8 2 4 5 6

Код ЄДРПОУ

ВІДПОВІДАЄ ВИМОГАМ УКРАЇНСЬКОЇ СИСТЕМИ АКРЕДИТАЦІЇ
АКРЕДИТОВАНИЙ ЯК ОРГАН З СЕРТИФІКАЦІЇ ПРОДУКЦІЇ В СИСТЕМІ
СЕРТИФІКАЦІЇ УкрСЕПРО.

Галузь акредитації визначена додатком до цього атестата.

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