JSC "Engineering and Technology "UKRENERGOCHERMET",
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Main services of UKRENERGOCHERMET inspection center

1. Nondestructive inspection.

Objects of control:

– mouldings, castings, forging, welded connections, pipelines, rolled steel used for manufacture of various types of technological equipment;

– major and auxiliary technological equipment and hardware from all branches of industry during its manufacture, mounting , maintenance and operation.

Types of inspection:

– visual (VT);
– magneto-powder (MT);
– penetrant control (PT);
– ultrasonic (UT);
– vortex-current (ET);
– radiographic (RT).

Upon need specialized methods of control also can be used including:

- Electro-potential, for measuring the depth of surface cracks;
- Metal magnet memory method, for zone determination of concentrations for mechanical stress and exposure of potentially dangerous construction elements.

2. Mechanical testing

Objects of testing:

– samples of major metals and welded connections;
– small sized parts and construction elements (seals, fasteners etc.)
– nonmetal materials.

Types of testing:

– static straining and collapsing;
– bending impact;

– various technological tests (welded connections – folding test, pipes – for flattering etc.);

– measurement of hardness (at samples and on site using appliances of static or dynamic function).

Tests temperature rate: from -60 ºC up to 540 ºC.

3. Inspection of materials and equipment

Types of inspection:

– determination of chemical content of metals (by sampling or by express-method on site);

– metallographic inspections of macro and micro structures of steels, alloys, welded connections – made by sampling or directly at object surface (by replica technique or by microscope);

– finding the cause of destruction of technological equipment using above mentioned methods of testing and control and also fractography inspection of surfaces and design-analytic procedures;

4. Strength calculations

Strength calculations may be needed at:

– modernization (reconstruction, repairs) of equipment in case of changing geometric parameters or replacement of constructive materials;

– necessity to speed up equipment technological parameters;

– proving working efficiency of technological equipment having operational damages which technically impossible to remove or economically unreasonable.

Qualified Specialists performing above controls and tests certified according to ***EN ISO 9712:2012***

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