



ROSATOM

STATE ATOMIC ENERGY CORPORATION "ROSATOM"

Presentation JSC «ZAES». Performing conformity assessment and incoming control

Cairo

08.10.2019

ABOUT JSC «ZAES»



ROSENERGOATOM
ZAES



ROSATOM

JSC «ZAES» is defined as a specialized organization
Joint decision of the State Corporation «Rosatom» and «Rostechnadzor»
The decision of 04.04.2018 № 1-8/10-Пп

The document regulating activity NP-071-18 «Rules of products conformity assessment for which requirements related to safety in the field of atomic energy uses are established...»
Rostechnadzor Order of 06.02.2018 № 52 (registered by Justice Ministry of 07.03.2018 registration № 50282)

Products applied on the nuclear facility as the elements of nuclear facility carried according to Federal rules and regulations in the field of use of nuclear energy to 1, 2 and 3 safety classes except nuclear materials and spent nuclear fuel

ABOUT JSC «ZAES»

24 SUBSIDIARIES AND 16 STANDALONE DIVISIONS



Industrial regions of the Russian Federation

Fuel elements and arrays including working cassettes, control and protection system regulating bodies used in reactor cores of nuclear power plants and research nuclear installations

Examination of technical documentation is carried out relating to the working design documentation of products used at the nuclear facility as the elements of nuclear facility referred in accordance with Federal rules and regulations in the nuclear facility to 1, 2 and 3 safety classes.

JSC «ZAES» is defined as a specialized organization

**Joint decision of the State Corporation «Rosatom» and «Rostechndzor»
The decision of 04.04.2018 № 1-8/10-Пп**

The document regulating activity

**Quality management
Mandatory annex of the supply Contract**

Products applied on the nuclear facility as the elements of nuclear facility carried according to Federal rules and regulations in the field of use of nuclear energy to 1, 2 and 3 safety classes

Agreements/memorandums on cooperation on exchange of experience with foreign partners were signed:

TUV SUD



Bureau Veritas



DEKRA



TUV NORD Chez



Fuel elements and arrays including working cassettes, control and protection system regulating bodies used in reactor cores of nuclear power plants and research nuclear installations

CONFORMITY ASSESSMENT OF PRODUCTS CARRIED OUT BY JSC «ZAES»



Countries for which conformity assessment of equipment supplied to nuclear facility is carried out

VVER-440

Armenian NPP
Russian NPPs



VVER-1000

Russian NPPs
Tianwan NPP, China
Kudankulam NPP, India



VVER-1200

Russian NPPs
Belarusian NPP
Rooppur NPP, Bangladesh
El Dabaa NPP, Egypt



Conformity assessment is carried out at more than **400 enterprises** of the Russian Federation and more than **70 foreign enterprises** and includes:



Nuclear fuel consumers and types of reactors




VVER-440

| | |
|----------------------|---|
| Kola NPP |  |
| Novovoronezh NPP |  |
| Loviisa NPP, Finland |  |
| Armenian NPP |  |
| Paks NPP, Hungary |  |
| Dukovany, Czech Rep |  |

VVER-1000

| | |
|------------------------|---|
| Balakovo NPP |  |
| Kalinin NPP |  |
| Rostov NPP |  |
| Tianwan NPP, China |  |
| Kozloduy NPP, Bulgaria |  |
| Temelin NPP, Czech Rep |  |




VVER-1200

| | |
|----------------|---|
| Leningrad NPP |  |
| Rostov NPP |  |
| Belarusian NPP |  |

EGP-6

| | |
|--------------|---|
| Bilibino NPP |  |
|--------------|---|

RBMK

| | |
|---------------|---|
| Smolensk NPP |  |
| Leningrad NPP |  |
| Kursk NPP |  |

BN-600

| | |
|---------------|---|
| Beloyarsk NPP |  |
|---------------|---|

BN-800

| | |
|---------------|---|
| Beloyarsk NPP |  |
|---------------|---|

Research reactors



Higher education



Examinal confirmation
of knowledge



Technical training



Certification
in non-destructive testing



ISO 9001:2015



Certification in non-destructive
testing methods

**INDEPENDENT EXPERT
METAL SCIENCE
LABORATORY (IEMSL)**

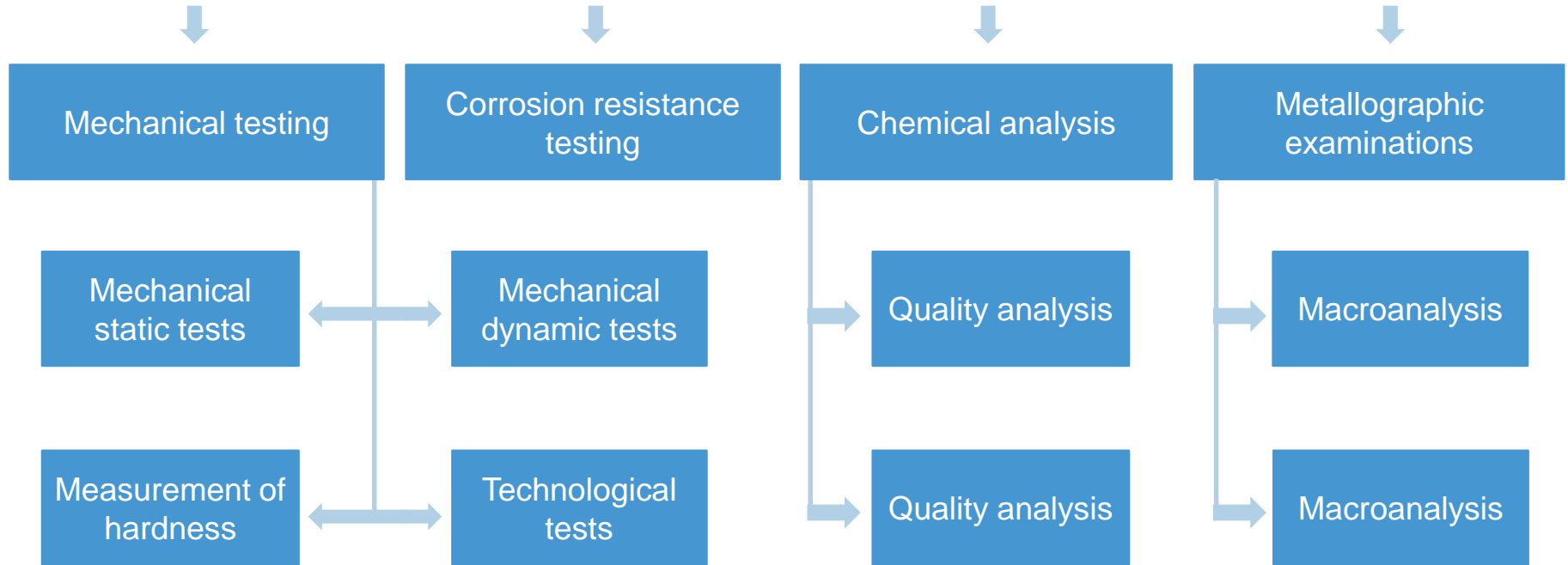


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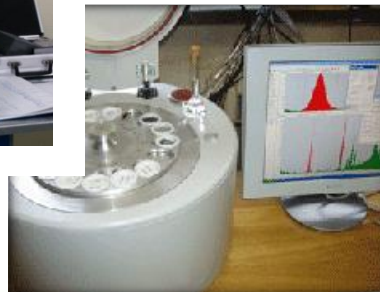
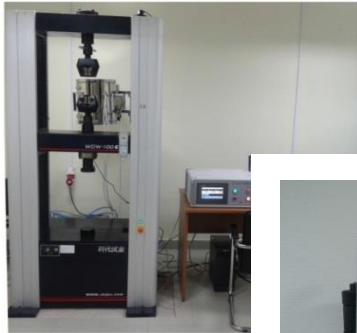


ROSATOM

Full range of testing of metal products, delivered to nuclear facilities



Advanced equipment for wide range of laboratory tests and metal products examinations



Universal testing machine with heat chamber

Pendulum impact machine

Brinell hardness tester immovable

Photoelectric spectrometer

Portable analyzer of metals and alloys

Metallographic microscope with computer-based image analysis system

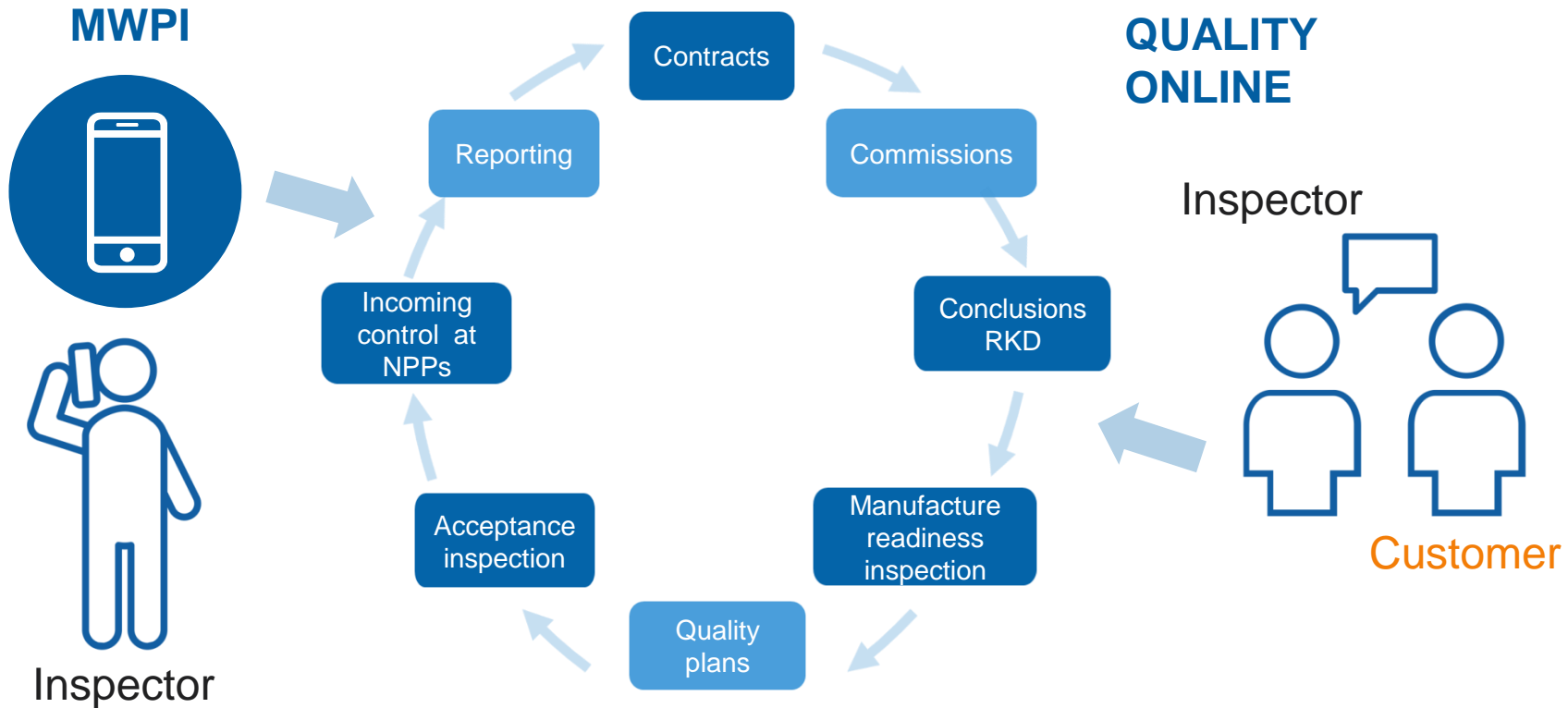
DATA MANAGEMENT AND MONITORING INFORMATION SYSTEM



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CONFORMITY ASSESSMENT

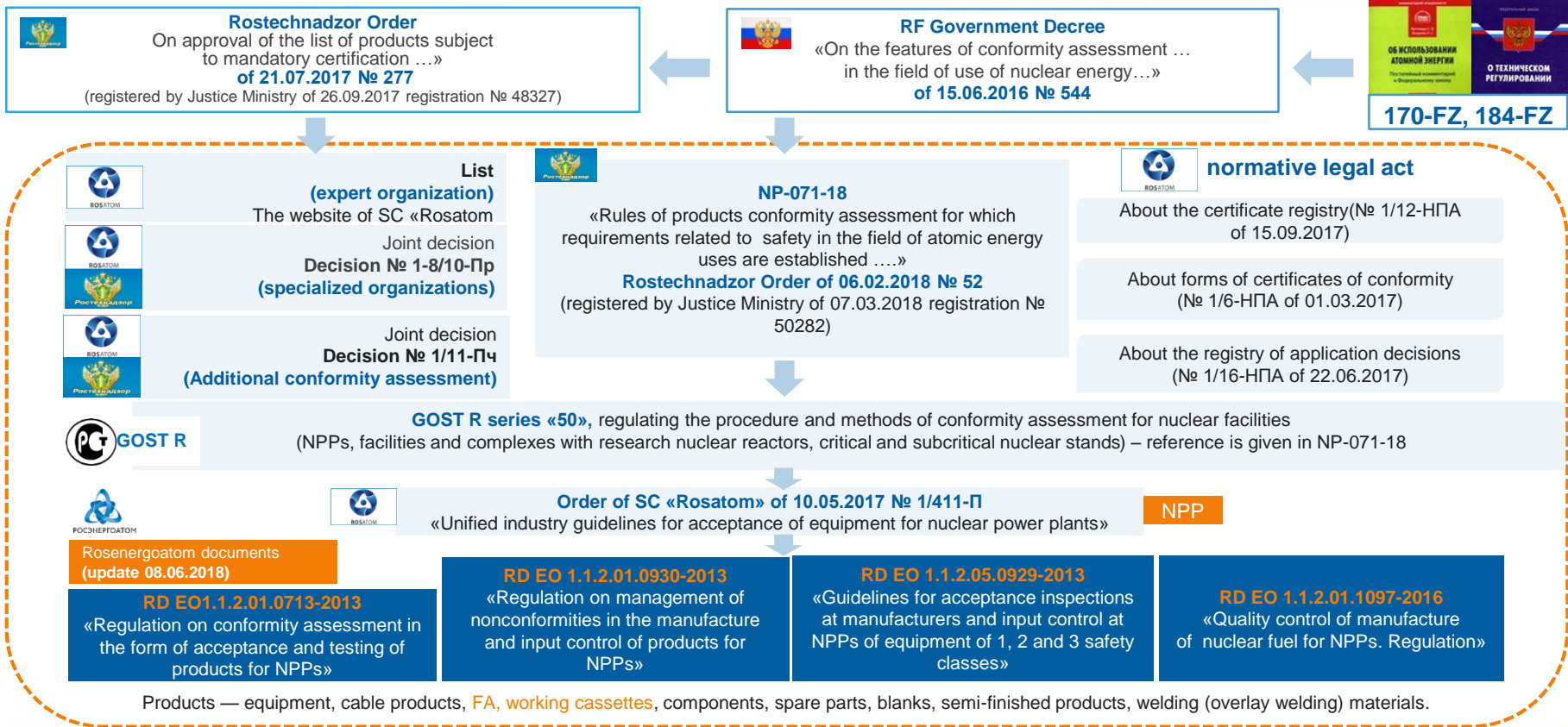


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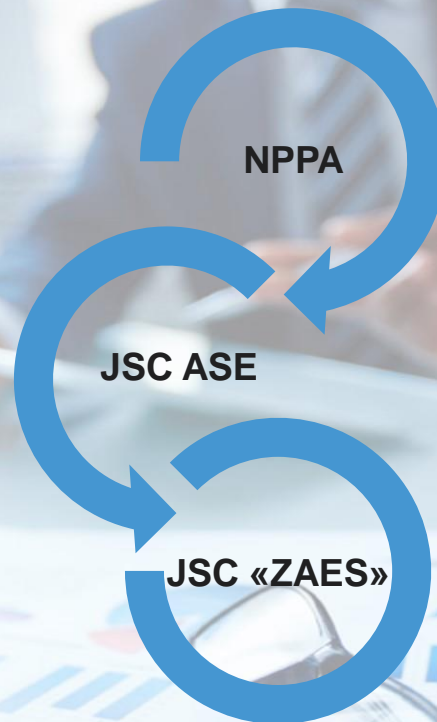
DOCUMENTS SYSTEM ON CONFORMITY ASSESSMENT



COOPERATION WITHIN THE FRAMEWORK OF THE CONSTRUCTION OF THE EL-DABAA NPP



COOPERATION WITHIN THE FRAMEWORK OF THE REQUIREMENTS OF THE CONTRACT AND QUALITY MANAGEMENT



COOPERATION WITHIN THE FRAMEWORK OF GENERAL CONTRACT



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**THANK YOU
FOR YOUR ATTENTION!**