

## **Appendix 8. Governance in - PJSC ESM, JSC "NIKIMT-Atomstroy" and Trest RosSEM Ltd**

This Appendix specifies information on the Division's subsidiaries within its framework of consolidation. As compared to the previous reporting period, the consolidation framework was not changed. According to item 3 of Minutes of the Meeting of the Committee for Public Reporting of the Division dated 01.11.2017, the basic consolidation framework for information in the Annual Report of the Engineering Division is defined as JSC ASE EC, JSC ASE, JSC "Atomenergoproekt", JSC ATOMPROEKT, their subsidiaries and other companies in the management scope of JSC ASE EC with planned revenue over 2 billion rubles or the number of 2 thousand employees.

### **PJSC ESM**

Public Joint-Stock Company Energospetsmontazh is registered by:

- The Moscow Registration Chamber Certificate No. 013.848 dd. 25.08.1993 Series LD No.004174,
- Certificate Series 77 No. 008016560 issued by FTSI No. 39 of Moscow about making a record into the Unified State Register of Legal Entities under the primary state registry No. 1027739052912 dd. 08.08.2002.

The legal form of organization: PJSC ESM is a public joint-stock company, form of PJSC ESM incorporation is a joint Russian ownership with the federal ownership interest.

The location (legal address) of PJSC ESM: 27 Boytsovaya Str., Moscow, 107150.

As of 31.12.2018, PJSC ESM has 8 branch offices, including 7 on the territory of the RF, 1 in the People's Republic of Bangladesh; 1 representative office in the Republic of Belarus.

As of the end of 2018, PJSC ESM does not have any shares in associated companies.

### **JSC "NIKIMT-Atomstroy"**

Joint-Stock Company "Research and Development Institute of Construction Technology – Atomstroy" was established as a result of reorganization in the form of transformation of Federal State Unitary Enterprise Rosatomstroy Investment and Construction Consortium based on Resolution of Federal Agency for State Property Management No. 1574-r dd. 29.09.2008.

It was registered by Moscow Interdistrict Federal Tax Service Inspection of Russia No. 46 on 13.10.2008 under primary state registration number (PSRN) 5087746235836. Certificate of state registration of a legal entity: Series 77 No. 011106035.

Non-abbreviated name of the Company before 23.06.2009: Atomstroy Investment and Construction Consortium, Open Joint-Stock Company. Abbreviated name of the company: Rosatomstroy ICC, JSC.

Record into the Unified State Register of Legal Entities (USRLE) of change in the company name was made by Moscow Interdistrict FTSI of Russia No. 46 on 23.06.2009, state registration number (SRN) of the record: 6097747372981.

Within the period from 23.06.2009 to 23.10.2014, the company's non-abbreviated name was: Research and Development Engineering Institute of Installation Technologies - Atomstroy, Open Joint-Stock Company.

Since 23.10.2014, the Company's non-abbreviated name is: Joint-Stock Company "Research and Development Institute of Construction Technology – Atomstroy"; abbreviated name is JSC "NIKIMT-Atomstroy" JSC "NIKIMT-Atomstroy".

Record of change in the company name was made in the USRLE by Moscow Interdistrict FTSI of Russia No. 46 on 23.10.2014, SRN is 9147747896155.

Predecessor of JSC "NIKIMT-Atomstroy" is Federal State Unitary Enterprise Rosatomstroy Investment and Construction Consortium (Rosatomstroy ICC FSUE).

The location (legal address) of JSC “NIKIMT-Atomstroy”: 43 bldg. 2, Altufievskoye Shosse, Moscow, 127410.

As of 31.12.2018, JSC “NIKIMT-Atomstroy” has 9 branch offices and 1 representative office.

JSC “NIKIMT-Atomstroy” has two subsidiaries:

- Joint-Stock Company Zheleznogorsk HPP (Zheleznogorsk HPP JSC), PSRN 1147746715247, registration date: 25.06.2014).

JSC “NIKIMT-Atomstroy” share in the charter capital of Zheleznogorsk HPP JSC is 100%.

- Joint-Stock Company Seversk Heating Systems (SHS JSC), PSRN 1137746452194, registration date: 28.05.2013).

JSC “NIKIMT-Atomstroy” share in the charter capital of SHS JSC is 100%.

JSC “NIKIMT-Atomstroy”<sup>1</sup> does not have any associated companies.

**Trest RosSEM Ltd.** Trest RosSEM Ltd. is a subsidiary of JSC ASE EC .

As of 31.12.2018, the company’s shareholders are JSC ASE EC (owns the charter capital share of 99.9%) and SMU No. 1 LLC (owns the charter capital share of 0.1%). Within 2018, the shareholders and ownership ratio did not change.

Rosspetsenergmontazh Complex LLC (Trest RosSEM Ltd.) is a construction company rendering services in the field of nuclear and industrial construction.

As in previous years, in 2018 Trest RosSEM Ltd. rendered integrated services related to erection of cast-in-situ structures, as well as multiple industrial and civil facilities, including manufacturing and installation of steel and reinforced concrete structures for nuclear power plants. Many significant facilities of Rosenergoatom JSC are constructed with direct involvement of Trest RosSEM Ltd..

In 2018, Trest RosSEM Ltd. performed construction and erection works and works related to process structures installation at the following facilities:

- Belarus NPP
- Kursk NPP
- Rooppur NPP (the People's Republic of Bangladesh)
- Akkuyu NPP (the Republic of Turkey).

Branch and representative offices of Trest RosSEM Ltd. make a unified construction and investment complex being one of the largest construction companies operating in the nuclear industry.

Trest RosSEM Ltd. has necessary material and labor resources to perform works on the construction service market.

The company is a member of self-regulatory organization based on membership of construction parties - Non-commercial Partnership SOYUZATOMSTROY Association of Organizations Conducting Construction, Modernization, Overhaul of Nuclear Facilities.

Trest RosSEM Ltd. has all licenses necessary to perform construction and erection works (including the most complicated ones) and structural design.

Trest RosSEM Ltd. has design and engineering departments, production areas for manufacturing of building steel structures, considerable technical facilities consisting of the main construction machines, mechanisms, equipment and tools.

There are construction machines and mechanisms, load lifting cranes and trucks owned by Trest RosSEM Ltd.

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<sup>1</sup> An associated company is a company not being a subsidiary, activities of which are significantly influenced by the investor (NIKIMT-Atomstroy JSC).

Trest RosSEM Ltd. has Technical Inspection Service with employees certified for weld quality control by means of ultrasonic, X-ray and vacuum testing methods in the course of steel structures manufacturing and installation.

The experience and potential of Trest RosSEM Ltd., which often acts as one of the primary construction participants, allowed establishing close ties with other specialized construction and erection companies for efficient implementation of all construction and erection works at a range of large construction facilities simultaneously.

The priority business area of Trest RosSEM Ltd. is erection of NPP main buildings, including:

- installation of cast-in-situ and reinforced concrete structures;
- erection of prefabricated and reinforced concrete structures;
- erection of steel structures;
- installation of external water supply networks;

Trest RosSEM Ltd. manufactures steel structures for construction of any type of complex facilities using its own resources. High-quality erection and steel structures manufacturing are one of the main characteristics of building structures durability and strength. All weld joints of the steel structures are made in accordance with specification and strict compliance with drawings. The steel structures are manufactured on the basis of technical documentation of Trest RosSEM Ltd. customer.

Trest RosSEM Ltd. can manufacture the following building structures:

- beams and trusses;
- columns;
- frames, framework, decking;
- wall partitions, shields, metal ceiling elements;
- other steel structures.

Trest RosSEM Ltd. performs construction and erection works (CEW) on the turnkey basis, starting the production cycle from steel structures manufacturing and pre-assembly and finishing with premises handover for equipment installation after concreting.

The industrial construction method (steel structures pre-assembly) is one of the specifics of the technology of CEW performance by Trest RosSEM Ltd.. Use of steel structures pre-assembly allows for a significant reduction of the labor costs for erection and associated companies' work in the conditions of lack of space and crane time. Trest RosSEM Ltd. has mastered and is improving performance of works on steel structures concreting at nuclear power plants. Concreting technology with the use of self-compacting concrete (SCC) and radial formwork with a section height up to 4.5 meters is being developed. Use of SCC allows for a significant reduction of the labor costs related to vibrocompression of the laid concrete mixture. There are construction laboratories operating on NPP construction sites for control of the technology and temperature conditions of the concrete.

Trest RosSEM Ltd. develops the design-process documentation. It develops detailed drawings (SED) of nuclear reactor building structures: containments, inner and outer containments of the reactor building, equipment maintenance platforms and pipeline supporting structures, drawings of fixtures used for the industrial construction method.

Design process units of the company execute the following:

- designer's supervision of steel structures manufactured and installed for the facilities being erected in compliance with occupational health and safety rules and regulations,
- detailed design of civil steel structures for buildings and facilities, including development of foundations and civil and architectural drawings;
- development of work production plans, including especially complex ones;
- development of detailed drawings of steel structures (SED stage) provided that they are manufactured at the company's production facilities;
- development of estimate construction documentation,