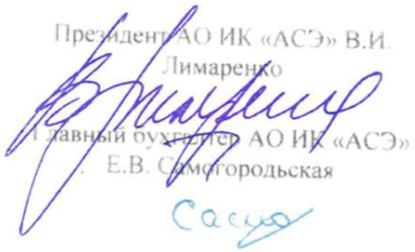
ENGINEERING DIVISION
OF STATE ATOMIC ENERGY
CORPORATION ROSATOM

BOOK OF APPENDICES TO ANNUAL REPORT FOR 2017

President of JSC ASE EC
V.I. Limarenko

Chief Accountant of JSC ASE EC
E.V.Samogorodskaya



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Appendix 1. GRI Content Index, table of compliance with Standard <IR>

Table 1 GRI Content Index

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
GRI 102 (2016) General Disclosures	Name of the organization	102-1	5	Fully disclosed
	Activities, brands, products, and services	102-2	5	Fully disclosed
	Location of headquarters	102-3	5	Fully disclosed
	Location of operations	102-4	6	Fully disclosed
	Ownership and legal form	102-5	5, 43	Fully disclosed
	Markets served	102-6	6	Fully disclosed
	Scale of the organization	102-7	6,9,43,57, Annex 7	Fully disclosed
	Information on employees and other workers	102-8	Annex 12	Fully disclosed
	Supply chain	102-9	25	Fully disclosed
	Significant changes to the organization and its supply chain	102-10	41	Fully disclosed
	Precautionary principle or approach	102-11	99	Fully disclosed
	External initiatives	102-12	98	Fully disclosed
	Membership of associations	102-13	5, 34	Fully disclosed
	Statement from senior decision- maker	102-14	14	Fully disclosed
	Key impacts, risks, and opportunities	102-15	23, 37	Fully disclosed
	Values, principles, standards and norms of behavior	102-16	5	Fully disclosed
	Mechanisms for advice and concerns about ethics	102-17	54	Fully disclosed
	Governance structure	102 -18	42, 46, 48, 50	Fully disclosed
	Delegating authority	102 -19	42, 46, 48, 50	Fully disclosed
	Executive-level responsibility for economic, environmental and social topics	102 -20	22	Fully disclosed

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
	Consulting stakeholders on economy, environmental and social topics	102 -21	-	Fully disclosed Special consultations between the stakeholders and BoD on economy, environmental and social topics are not held.
	Composition of the highest governance body and its committees	102 -22	42, 44, 46, 48, 50	Fully disclosed
	Chair of highest governance body	102 -23	42, 46, 48, 50	Fully disclosed
	Nominating and selecting of the highest governance body	102 -24	-	Fully disclosed The BoD members are elected by the resolution of the shareholders' general meeting. The Board of Directors includes professionals with extensive experience in the industry and a deep understanding of the specifics of the Company.
	Conflicts of interest	102 -25	-	Fully disclosed In order to prevent the conflict of interests and to manage them, JSC ASE EC has approved the Anti-corruption Policy of JSC ASE EC. In the reporting year, there was no conflict of interests in JSC ASE EC.
	Role of the highest governance body in setting purpose, values and strategy	102 -26	-	Fully disclosed According to the RF Civil Code and JSC ASE EC Charter of Association, prioritization of the Company's business areas are within the purview of the Company's BoD. This management body takes decisions that are mandatory for the sole executive body, i.e. the Company's President.
	Collective knowledge of highest governance body	102 -27	-	Fully disclosed No specific measures to develop and enhance the collective knowledge of the BoD

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
				members in relation to the economic, environmental protection and social security issues are taken in JSC ASE EC.
	Evaluating the highest governance body's performance	102 -28	-	Fully disclosed Evaluation of the activities of the BoD is not carried out
	Identifying and managing economic, environmental and social impacts	102 -29	-	Fully disclosed The activity of JSC ASE EC general shareholders meeting and the Board of Directors is targeted through the respective decision-making at the efficient management of the company, focused on high profitability of business, minimization of risks and possible negative consequences caused by the Company's economic activity, by meeting requirements of the Russian Federation legislation, international legal norms, legislation of the states in the areas of its operations.
	Effictiveness of risk management processes	102 -30	-	Fully disclosed The JSC ASE EC Board of Directors does not participate in the analysis of effectiveness of the organization's risk management practices related to economic, environmental and social issues and does not analyze the economic, environmental and social risks and opportunities. The responsibility for these matters is assigned to the relevant departments.
	Review of economic, environmental and social topics	102 -31	Annex 10	Fully disclosed
	Highest governance body's role in	102 -32	125	Fully disclosed

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
	sustainability reporting			
	Communicating critical concerns	102 -33	Annex 10	Fully disclosed
	Nature and total number of critical concerns	102 -34	Annex 10	Fully disclosed
	Remuneration policy	102 -35	-	Fully disclosed The decision on remuneration payment to members of the Board of Directors is made at the General meeting of shareholders. According to the resolution of the General meeting of shareholders, the members of the Board of Directors during their obligations performance may receive remuneration and/or reimbursement of expenditures related to performance of their functions as members of the BoD. Amounts of such remuneration and compensations are defined by the decision of the General meeting of shareholders.
	Process for determining remuneration	102 -36		
	Stakeholders' involvement in remuneration	102 -37		
	Annual total compensation ratio	102 -38	Annex 12	Fully disclosed
	Percentage increase in annual total compensation ratio	102 -39		Fully disclosed
	List of stakeholder groups	102 -40	114	Fully disclosed
	Collective bargaining agreement	102 -41	Annex 12	Fully disclosed
	Identifying and selecting stakeholders	102 -42	114	Fully disclosed
	Approach to stakeholder engagement	102 -43	119	Fully disclosed
	Key topics and concerns raised	102 -44	120	Fully disclosed
	Entities included in the consolidated financial statements	102 -45	125	Fully disclosed
	Defining report content and topic Boundaries	102 -46	125	Fully disclosed
	List of material topics	102 -47	126	Fully disclosed
	Restatements of	102 -48	-	Fully disclosed

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
	information			Changes in the indicator calculating methods are not observed in the reporting year
	Changes in reporting	102 -49	125	Fully disclosed
	Reporting period	102 -50	125	Fully disclosed
	Date of most recent report	102 -51	125	Fully disclosed
	Reporting cycle	102 -52	4	Fully disclosed
	Contact point for questions regarding the report	102 -53	Back cover of the report	Fully disclosed
	Claims of reporting in accordance with the GRI Standards	102 -54	4	Fully disclosed
	GRI Content Index	102 -55	Annex 1	Fully disclosed
	External assurance	102 -56	126	Fully disclosed The selection of an independent non-financial auditor is carried out within the framework of an open procurement procedure on the basis of the order of the President of the Company on the preparation of the annual report
GRI 103: Management Approach (2016)	Explanation of the material topic and its Boundary	103-1	Are specified separately for each important topic	Fully disclosed
	The management approach and its components	103 -2		Fully disclosed
	Evaluation of the management approach	103 -3		Fully disclosed
GRI material topics				
GRI 301: Materials (2016)	Explanation of the material topic and its Boundary	103 -1	106	Fully disclosed
	The management approach and its components	103 -2	106	Fully disclosed
	Evaluation of the management approach	103 -3	106	Fully disclosed
	Materials used by weight or volume	301 -1	106	The indicator is partially disclosed, accounting for the use of construction materials by the Engineering division is not carried out and is not planned due to a significant number of contractors and subcontractors.
	Recycled input	301 -2	-	The indicator is not

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
	materials used			disclosed due to the lack of accounting system.
	Reclaimed products and their packing materials	301 -3	-	Not applicable to the Division's activities
GRI 306 Effluents and Waste (2016)	Explanation of the material topic and its Boundary	103 -1	99-102, 126	Fully disclosed
	The management approach and its components	103 -2	99-102	Fully disclosed
	Evaluation of the management approach	103 -3	100	Fully disclosed
	Water discharge by quality and destination	306 -1	103, Annex 14	Fully disclosed
	Waste by type and disposal method	306 -2	104, Annex 14	Fully disclosed
	Significant spills	306 -3	-	Fully disclosed No significant spills
	Transport of hazardous waste	306 -4	105	Fully disclosed
	Water bodies affected by water discharges and/or runoff	306 -5	-	Fully disclosed There is no significant impact on water bodies
GRI 403: Occupational Health and Safety (2016)	Explanation of the material topic and its Boundary	103 -1	93 -95, 126	Fully disclosed
	The management approach and its components	103 -2	93 -95	Fully disclosed
	Evaluation of the management approach	103 -3	93 -95	Fully disclosed
	Workers representation in formal joint management-worker health and safety committees	403 -1	-	Fully disclosed Official joint committees on health and safety with the participation of representatives of management and employees, represented by representatives of labor protection or trade Union committees, have been established in all organizations of the Division. Thus, 100 % of the staff are represented in these committees.
	Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities	403 -2	Annex 12	partially disclosed Not calculated by gender and region according to the Division's accounting system *Occupational disease rate in the Division is 0.*

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
				Lost day rate is 3.92, calculated using a multiplier of 1,000,000, and is the ratio of the total number of days lost as a result of injuries to the number of hours actually worked. The number of lost days significantly few in relation to hours actually worked. *Absentee rate*, the Coefficients for organizations outside the control loop are not disclosed in the absence of a single system for collecting such information.
	Workers with high incidence or high risk of diseases related to their occupation	403 -3	93	Fully disclosed
	Health and safety topics covered in formal agreements with trade unions	403 -4	95	Fully disclosed
GRI 404: Training and Education (2016)	Explanation of the material topic and its Boundary	103 -1	88 - 91, 126	Fully disclosed
	The management approach and its components	103 -2	88 - 91	Fully disclosed
	Evaluation of the management approach	103 -3	88 - 91	Fully disclosed
	Average hours of training per year per employee	404 -1	Annex 12	Fully disclosed
	Programs for upgrading employee skills and transition assistance programs	404 -2	89,92	Fully disclosed
	Percentage of employees receiving regular performance and career development reviews	404 -3	Annex 12	Fully disclosed
GRI 416: Customer Health and Safety (2016)	Explanation of the material topic and its Boundary	103 -1	98 – 103, 126	Fully disclosed
	The management approach and its components	103 -2	98 - 103	Fully disclosed
	Evaluation of the management approach	103 -3	98 - 103	Fully disclosed
	Assessment of the health and safety	416 -1	98,101	Fully disclosed

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
	impacts of product and service categories			
	Incidents of non-compliance concerning the health and safety impacts of products and services	416 -2	101	Fully disclosed
Material topics not relevant to GRI topics				
Ensuring the performance by the Company of its obligations under the contracted projects.	Explanation of the material topic and its Boundary	103-1	126	Fully disclosed
	The management approach and its components	103-2	62-77	Fully disclosed
	Evaluation of the management approach	103-3	63,72	Fully disclosed
Reducing NPP Reducing NPP construction timelines and costs	Explanation of the material topic and its Boundary	103-1	126	Fully disclosed
	The management approach and its components	103-2	16-20	Fully disclosed
	Evaluation of the management approach	103-3	16-20	Fully disclosed
Transformation of the Engineering Division into a digital company	Explanation of the material topic and its Boundary	103-1	126	Fully disclosed
	The management approach and its components	103-2	30-32	Fully disclosed
	Evaluation of the management approach	103-3	30-32	Fully disclosed
Environmental and industrial safety and construction facilities	Explanation of the material topic and its Boundary	103-1	96-97	Fully disclosed
	The management approach and its components	103-2	98-103	Fully disclosed
	Evaluation of the management approach	103-3	103-106	Fully disclosed
Training and professional development of the personnel of the Company under the conditions of digital transition	Explanation of the material topic and its Boundary	103-1	33	Fully disclosed
	The management approach and its components	103-2	33	Fully disclosed
	Evaluation of the management approach	103-3	33	Fully disclosed

Table 2 Selected indicators on GRI topics not included in material issues

GRI Standard	Name of indicator	Indicator	Page No.	Extent of disclosure (fully/partially disclosed/not disclosed)
GRI 201: Economic Performance (2016)	Financial implications and other risks and opportunities due to climate change	201 -2	100	Fully disclosed
	Financial assistance received from government	201-4	-	Fully disclosed Engineering division has not received substantial government support in 2017
GRI 303: Water (2016)	Water withdrawal by source	303 -1	104	Fully disclosed
	Water sources significantly affected by withdrawal of water	303 -2	104	Fully disclosed
	Water recycled and reused	303 -3	103	Fully disclosed
GRI 304: Biodiversity (2016)	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	304-1	100	Fully disclosed
	Significant impacts of activities, products, and services on biodiversity	304-2	100	Fully disclosed
	Habitats protected or restored	304-3	98	Fully disclosed
	IUCN Red List species and national conservation list species with habitats in areas affected by operations	304-4	100	Fully disclosed

Table 3 Compliance with Standard <IR>

Underlining basic concepts of the IIRC Standard in the Report

Basic concepts	**applied /not applied**
The capitals	applied
The business model	applied
Creating and preserving value	applied

Underlining Guiding Principles of the IIRC Standard in the Report

Guiding Principles	**relevant/irrelevant**
Strategic focus and future orientation	Conforming
Connectivity of information	Conforming
Stakeholder relationships	Conforming
Materiality	Conforming
Conciseness	Conforming
Reliability	Conforming
Comparability and consistency	Conforming

Presence of IR standard elements in the report

Content elements	**Report section**	**Page No.**
Organizational overview and external environment	About the Company and International footprint	7-8, 31-33
Governance	Governance	45 -69

Business model	Business model	28 -30
Risks and opportunities	Risks and opportunities	34 -46
Strategy and resource allocation	STRATEGIC OVERVIEW Strategy and KPI of its implementation. Implementation of strategic objectives of Rosatom State Corporation	20 -27
Performance	Business model, Key Milestones of 2017, Key indicators	28-30, 70-151
Outlook	Strategy and KPI of its implementation. Implementation of Rosatom State Corporation strategic objectives, Results of activities in 2017	20-27, 70-151

Appendix 2 Opinion of Internal Control and Audit Department

CONCLUSION

of Internal Control and Audit Department following the results of internal audit of the integrated public annual report generation process of Rosatom State Corporation Engineering Division for 2017

The internal audit of generation of the public annual report of Rosatom State Corporation Engineering Division (hereinafter - Rosatom) for 2017 was performed in accordance with the Regulations on internal audit of public annual reports approved by order dated 27.09.2012 No 40/868-П/356 considering the requirements of the Policy of Rosatom State Corporation in the field of public reporting and Corporate Standard STO 8841271.012-2016.

The results of the performed audit allow making the conclusion that the public annual report generation process of Rosatom State Corporation Engineering Division for 2017 complies with the valid legislation, the reporting Guideline in the field of sustainable development GRI SRS, international standards regarding cooperation with stakeholders AA1000, Rosatom State Corporation Policy and internal statutory requirements of JC ASE EC, which regulate the business-process of the public reporting generation.

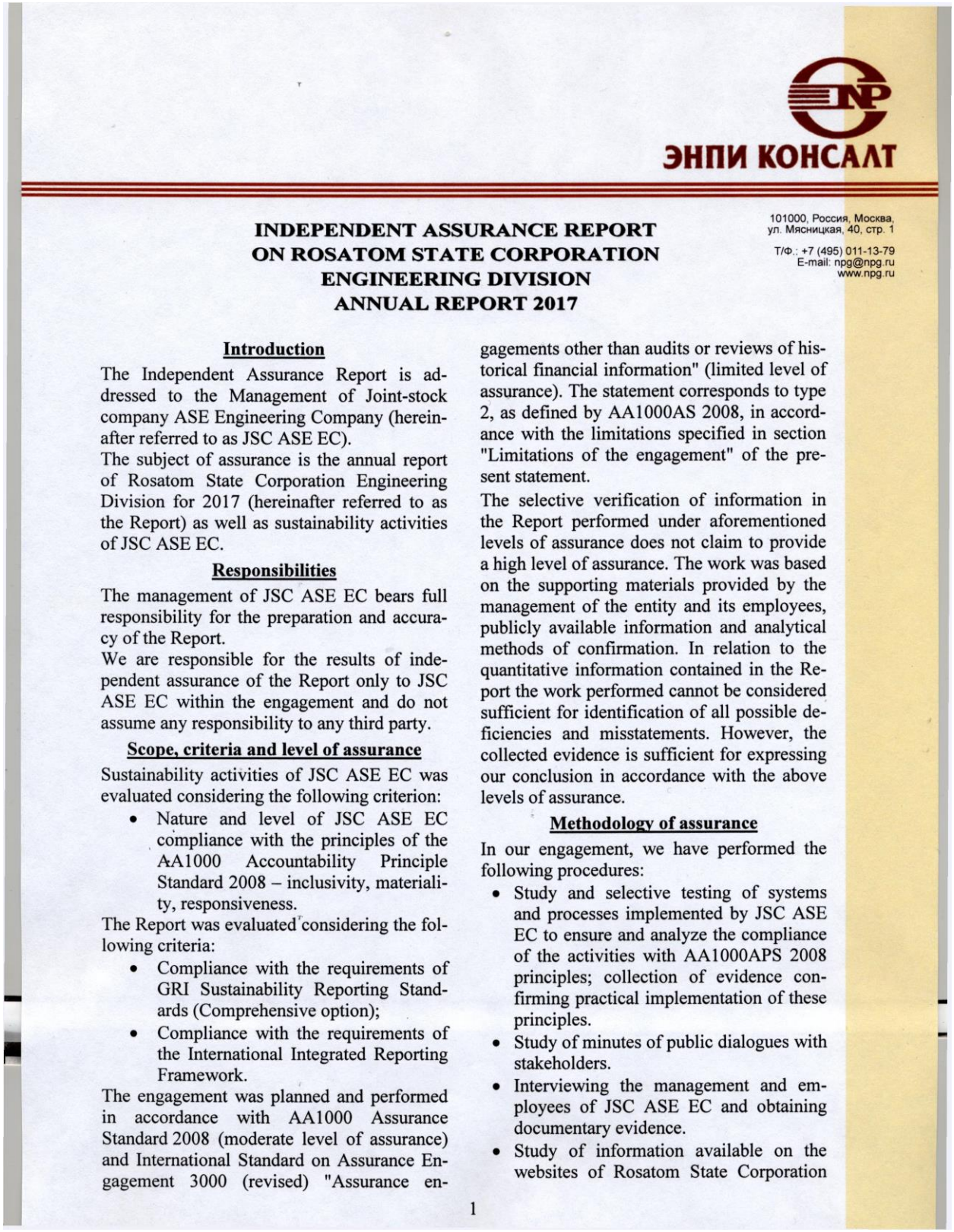
The analysis performed by the auditor's group allows making the conclusion about the efficiency and reliability of the system of internal control of public reporting generation process of the engineering division, including the regulations and standardization of the key processes related to the generation of the public reporting. The key control processes that are part of the preparation of the public annual report ensure completeness and reliability of the non-financial information provided in the report. However, the auditors have identified certain stages where measures aimed at improving the process are possible.

Upon the results of the performed audit, recommendations have been given aimed at improvement of the process of preparation of the public annual report of Rosatom State Corporation Engineering Division.

Director for Internal Inspection and Audit -

Head of Service for Internal Inspection and Audit A.N. Dodonov

Appendix 3. Independent Assurance Report



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INDEPENDENT ASSURANCE REPORT ON ROSATOM STATE CORPORATION ENGINEERING DIVISION ANNUAL REPORT 2017

Introduction

The Independent Assurance Report is addressed to the Management of Joint-stock company ASE Engineering Company (hereinafter referred to as JSC ASE EC).

The subject of assurance is the annual report of Rosatom State Corporation Engineering Division for 2017 (hereinafter referred to as the Report) as well as sustainability activities of JSC ASE EC.

Responsibilities

The management of JSC ASE EC bears full responsibility for the preparation and accuracy of the Report.

We are responsible for the results of independent assurance of the Report only to JSC ASE EC within the engagement and do not assume any responsibility to any third party.

Scope, criteria and level of assurance

Sustainability activities of JSC ASE EC was evaluated considering the following criterion:

- Nature and level of JSC ASE EC compliance with the principles of the AA1000 Accountability Principle Standard 2008 – inclusivity, materiality, responsiveness.

The Report was evaluated considering the following criteria:

- Compliance with the requirements of GRI Sustainability Reporting Standards (Comprehensive option);
- Compliance with the requirements of the International Integrated Reporting Framework.

The engagement was planned and performed in accordance with AA1000 Assurance Standard 2008 (moderate level of assurance) and International Standard on Assurance Engagement 3000 (revised) "Assurance engagements other than audits or reviews of historical financial information" (limited level of assurance). The statement corresponds to type 2, as defined by AA1000AS 2008, in accordance with the limitations specified in section "Limitations of the engagement" of the present statement.

The selective verification of information in the Report performed under aforementioned levels of assurance does not claim to provide a high level of assurance. The work was based on the supporting materials provided by the management of the entity and its employees, publicly available information and analytical methods of confirmation. In relation to the quantitative information contained in the Report the work performed cannot be considered sufficient for identification of all possible deficiencies and misstatements. However, the collected evidence is sufficient for expressing our conclusion in accordance with the above levels of assurance.

Methodology of assurance

In our engagement, we have performed the following procedures:

- Study and selective testing of systems and processes implemented by JSC ASE EC to ensure and analyze the compliance of the activities with AA1000APS 2008 principles; collection of evidence confirming practical implementation of these principles.
- Study of minutes of public dialogues with stakeholders.
- Interviewing the management and employees of JSC ASE EC and obtaining documentary evidence.
- Study of information available on the websites of Rosatom State Corporation

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Engineering Division organisations related to their activities in the context of sustainable development.

- Study of public statements of third parties concerning economic, environmental and social aspects of the Rosatom State Corporation Engineering Division activities, in order to check validity of the declarations made in the Report.
- Analysis of non-financial reports of foreign companies working in the similar market segment for benchmarking purposes.
- Analysis of the current system of internal audit of non-financial reporting in JSC ASE EC.
- Selective review of documents and data on the efficiency of the management systems of economic, environmental and social aspects of sustainable development in Rosatom State Corporation Engineering Division.
- Study of the existing processes of collection, processing, documenting, verification, analysis and selection of data to be included into the Report.
- Comparison of Russian and English versions of the Report.
- Analysis of information in the Report for compliance with the aforementioned criteria.

Limitations of the engagement

The engagement was performed only in relation to data for the year ended 31 December 2017.

The evaluation of reliability of the information on performance in the Report was conducted in relation to compliance with the criteria to be applied to prepare sustainability report 'in accordance' with the GRI Standards and information referred to in the GRI Content Index, as well as in relation to compliance with requirements of the International Integrated Reporting Framework. In respect to the quantitative performance indicators the conformity assessment to external and internal reporting documents provided to us was performed.

Assurance did not apply to forward-looking statements, as well as statements expressing the opinions, beliefs and intentions of JSC ASE EC as Managing Company of Rosatom State Corporation Engineering Division to take any action relating to the future. The assurance on the statements which are based on expert opinion was not performed.

Assurance was performed in relation to the English version of the Report which includes information to be published in a hard-copy form as well as in digital form on the JSC ASE EC website.

We had no chance to verify that the Report was subjected to public/expert assurance by Non-Financial Reporting Board of the Russian Union of Industrialists and Entrepreneurs as well as by Russian regional network for Integrated reporting due to the fact that the date of signing this statement preceded the planned dates of the procedures completion.

Conclusions

The following conclusions are based on the assurance work performed within the limitations of the engagement specified above.

Nature and extent of compliance of JSC ASE EC with AA1000 APS 2008 principles

As a result and within the scope of our work, we did not identify material non-compliance with criteria of AA1000APS 2008 in respect to adherence of JSC ASE EC to the principles (Inclusivity, Materiality, and Responsiveness).

Compliance of the Report with the GRI Sustainability Reporting Standards (Comprehensive option)

Analysis of compliance to the GRI Standards requirements

In order to form a position on this issue, we have performed analysis of compliance to the GRI Standards requirements concerning principles and disclosures for the chosen 'in accordance' option.

- General disclosures are reported in compliance with the requirements of the standard GRI 102 (2016) for the chosen 'in accordance' option.
- Management approach disclosures are reported mainly in compliance with the requirements of the standard GRI 103 (2016): explanations of why the topic is material and of general information on how the organization manages the topics

are reported for material topics as well as explanations of how the organization evaluates the management approach for some material topics.

- Topic-specific disclosures required for the Comprehensive option are reported in compliance with requirements of GRI Standards. If it is not possible to disclose required information, the Report identifies the information that has been omitted and explains reason for omissions.

Overall assessment of the Report

- As a result and within the scope of our work, we did not identify material non-compliance to the requirements to the report prepared 'in accordance' with the Comprehensive option of the GRI Standards. The conclusion is stated taken into account abovementioned analysis of compliance to the GRI Standards requirements.

Compliance of the Report with the requirements of the International Integrated Reporting Framework

- Based on the procedures performed and evidence obtained, we did not identify material non-compliance with the guiding principles of the International Integrated Reporting Framework and with requirements to the structure of content elements of integrated reports.

Recommendations

1. Consider the possibility of increasing the extent of disclosure of information concerning contractors on the material aspects.
2. In case of significant changes in the list of material topics, explain reasons of changes in materiality assessment.
3. In case of disclosure with omissions due to absence of a recording system, provide information about plans to obtain data in future.
4. Extend disclosure of information on how the organization evaluates the management approach to all material topics.
5. Continue work on the definition of quantitative measures of capitals.

Statement of competence and independence

"NP Consult" LLC, an independent audit firm, professionally rendering assurance services, is a licensed provider of assurance services in accordance with AA1000 Assurance Standard. "NP Consult" LLC is a member of Self-regulatory organization of auditors Association "Sodruzhestvo". "NP Consult" LLC complies with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the International Standard Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior. "NP Consult" LLC applies International Standard on Quality Control 1 and, accordingly, maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements. "NP Consult" LLC employs a system of quality control of audit services, including control of compliance to ethical norms.

"NP Consult" LLC states that the present assurance report is an independent auditor's position on the Report. "NP Consult" LLC and its staff have no relations with JSC ASE EC that could result in the conflict of interest related to the independent assurance of the Report.

AA1000
Licensed Assurance Provider
000-99

General Director
LLC "NP Consult"

N.Y. Khrenov

Moscow, August 28, 2018

Appendix 4. Opinion of Non-Financial Reporting Board of the Russian Union of Industrialists and Entrepreneurs

Российский союз промышленников и предпринимателей

СВИДЕТЕЛЬСТВО

об общественном заверении
корпоративного нефинансового отчета

Публичный годовой отчет Инжинирингового дивизиона Госкорпорации «Росатом» за 2017 год

прошел общественное заверение в Совете РСПП
по нефинансовой отчетности

Развернутое заключение Совета РСПП по нефинансовой отчетности об общественном заверении публичного годового отчета Инжинирингового дивизиона Госкорпорации «Росатом» за 2017 год направлено в Компанию, которая может публиковать его без каких-либо изменений и использовать как для внутрикорпоративных целей, так и в целях коммуникаций с заинтересованными сторонами.

Регистрационный номер 128.04.088.02.17

Президент РСПП А.Шохин

Москва, 2018

Appendix 5. Opinion of the Russian Integrated Reporting Regional Network

Заключение Комиссии Российской Региональной Сети по интегрированной отчетности о результатах рассмотрения интегрированного отчета Акционерного общества Инжиниринговая компания «АСЭ» за 2017 год с целью его заверения на соответствие Международному стандарту интегрированной отчетности

12.11.18

Настоящее Заключение подготовлено Комиссией Российской Региональной Сети по интегрированной отчетности (далее – Комиссия РРС) о соответствии интегрированного отчета Акционерного общества Инжиниринговая компания «АСЭ» (далее – АО ИК «АСЭ», Компания) за 2017 год концепциям, принципам и элементам содержания Международного стандарта интегрированной отчетности (далее – Стандарт <ИО>).

По запросу АО ИК «АСЭ» в период с 01 по 12 ноября 2018 года Комиссией было проведен анализ интегрированного отчета АО ИК «АСЭ», по итогам которого составлено настоящее Заключение в соответствии с Регламентом заверения интегрированных отчетов.

Члены Комиссии являются экспертами в области корпоративной отчетности и устойчивого развития и соблюдают этические требования независимости и объективности экспертных оценок.

Отчет оценивался по следующим критериям:

- Использование фундаментальных концепций Стандарта <ИО>: создание стоимости для организации и заинтересованных сторон, капиталы, процесс создания стоимости.
- Соответствие ведущим принципам Стандарта <ИО>, которые лежат в основе представления содержания отчета и способа представления информации: стратегический фокус и ориентация на будущее; связность информации; взаимодействие с заинтересованными сторонами; существенность; краткость; достоверность и полнота; постоянство и сопоставимость.
- Наличие основных элементов содержания Стандарта <ИО>: обзор организации и внешняя среда; управление; бизнес-модель; риски и возможности; стратегия и распределение ресурсов; результаты деятельности; перспективы на будущее.

Подробное описание концепций, принципов и элементов содержания представлено в Международном стандарте интегрированной отчетности (http://integratedreporting.org/resource/international-ir-framework/).

Задачей данного заверения является подтверждение соответствия отчета Международному стандарту интегрированной отчетности. В задачу заверения не входит проверка достоверности фактических данных, содержащихся в отчете.

АО ИК «АСЭ» имеет право использовать данное Заключение, как для решения внутрикорпоративных задач, так и в целях коммуникаций с заинтересованными сторонами, публикуя его без каких-либо изменений.

Заключение Комиссии

Представленный отчет является третьим интегрированным годовым отчетом Инжинирингового дивизиона Госкорпорации «Росатом» и десятым отчетом АО ИК «АСЭ». Отчет комплексно отражает деятельность Компании, включая финансовые и нефинансовые аспекты и результаты деятельности за отчетный период.

На основе проведенного анализа членами Комиссии подтверждается факт соответствия отчета основным положениям Международного стандарта интегрированной отчетности.

Выводы

В отчете представлено обращение первых лиц. Присутствует подробное описание процесса определения существенности и матрицы существенности. Отчет информирует о принципах, формах и инструментах взаимодействия с заинтересованными сторонами, актуализированная карта которых представлена в отчете. Также указано, каким образом учитывались запросы заинтересованных сторон при подготовке отчета.

В отчете надлежащим образом соблюдена логическая структура, содержатся гиперссылки на более подробную информацию на сайте Компании и в отчетах дочерних обществ, но мало используются внутренние перекрестные ссылки.

Информация в отчете заверена службой внутреннего контроля и аудита. Отчет был заверен внешними независимыми аудиторами: ООО «Нексиа Пачолли» (аудиторы бухгалтерской (финансовой) информации) и ООО «ЭНПИ Консалт» (аудитор нефинансовой информации). Также отчет прошел стейкхолдерское заверение заинтересованными сторонами и экспертное заверение Совета РСПП по нефинансовой отчетности. Однако ни в самом годовом отчете, ни в Книге приложений не содержится Заключения внешнего независимого аудитора о заверении финансовой информации.

В отчете приведен обзор деятельности организации и внешней среды, включая описание основных видов деятельности, рынков и положение в отрасли. Для учета влияния внешней среды на деятельность Компании был приведен PEST-анализ – учет влияния политических, экономических, социальных и технологических факторов, который позволяет учитывать сложности и неопределенности внешней среды, способные повлиять на деятельность Компании в будущем.

Результаты деятельности представлены в виде диаграмм и показывают в динамике, насколько Компания достигла своих стратегических целей и каковы результаты ее деятельности с точки зрения капиталов. Результаты деятельности Компании связаны с задачами на следующий год и с задачами до 2030 года.

Перспективы деятельности Компании раскрываются через описание кратко-, средне- и долгосрочных стратегий, распределение ресурсов, ключевые показатели эффективности реализации стратегии.

В отчете приводится описание рисков с помощью карты рисков с оценкой вероятности реализации риска и потенциального ущерба для Компании. Данный раздел является сильной стороной отчета. Риски Компании разделены по категориям: политические и страновые, экономические и финансовые, проектные, репутационные, технологические и др. В табличной форме описаны ключевые работы по управлению рисками и реагированию на реализовавшиеся риски в 2016 году, а также результаты управления рисками в отчетном году.

Заключительные положения

Несмотря на то, что в связи с расширением контура управления Инжинирингового дивизиона Система публичной отчетности Компании реорганизуется и проект модернизации Системы находится в разработке, интегрированный отчет АО ИК «АСЭ» за 2017 год формирует полное представление о деятельности Компании и реализации стратегических задач. Описываются подходы к взаимодействию с заинтересованными сторонами для освещения значимых для заинтересованных сторон тем по широкому кругу

вопросов. Информация раскрывается кратко (объем отчета – 130 страниц) и при этом достаточно полно в соответствии с фундаментальными концепциями и ведущими принципами Стандарта <ИО>.

Отчет подготовлен с использованием руководств и стандартов, применяемых в российской и международной практике отчетности, включая стандарты: Глобальной инициативы по отчетности (Global Reporting Initiative SRS), Международный стандарт интегрированной отчетности (Integrated Reporting International Framework), стандарты серии AA1000 (Institute of Social and Ethical Accountability) и др.

Использование различных форм независимой оценки отчета (профессиональный аудит финансовой и нефинансовой отчетной информации, общественное/стейкхолдерское заверение и общественное/экспертное заверение) свидетельствует об ответственном отношении Компании к обязательствам по достоверному информированию заинтересованных сторон и качеству раскрываемой информации.

Подтверждается последовательность в повышении качества публичной отчетности и приверженность АО ИК «АСЭ» принципам открытости и прозрачности.

Рекомендации

Комиссия отмечает высокое качество подготовленного отчета и его соответствие Международному стандарту интегрированной отчетности. Для большего раскрытия значимых для заинтересованных сторон тем и более полного соответствия Стандарту <ИО> Комиссией составлен ряд рекомендаций, которые Компания может учесть в последующих циклах отчетности.

Более тщательно проработать стратегический фокус и ориентацию на будущее. В отчете объясняется, как стратегия организации соотносится со способностью организации создавать стоимость преимущественно в краткосрочном периоде, необходимо также давать описание на средне- и долгосрочный периоды. Также необходимо добавить мнения лиц о связи между результатами деятельности организации в прошлом и будущем, а также факторах, которые могут изменить эту взаимосвязь, и о том, как организация достигает сочетания краткосрочных, среднесрочных и долгосрочных стратегических целей.

Доработать границы отчета. В 2017 году были выбраны границы Инжинирингового дивизиона. В такой ситуации не очень понятно, как совмещаются в отчете требования к регуляторным отчетам (для отдельных АО) и вопросы сопоставимости информации. Если составляется консолидированная финансовая отчетность, возникает вопрос, почему она не включена в отчет, если нет – вопрос, на основании каких данных рассчитываются все (особенно финансовые) показатели. Во втором случае (при отсутствии консолидированной отчетности) достоверность финансовых данных в отчете невозможно проверить, поскольку при отсутствии консолидированной отчетности пропадает предмет для заверения («финансовым») аудитором. Но тогда вопрос – откуда берутся сводные показатели по дивизиону (выручка, EBITDA и др.) и насколько они достоверны. Рекомендуется раскрывать консолидированную финансовую отчетность (при наличии) с Заключением аудитора, при ее отсутствии пояснять, каким образом определяются сводные финансовые показатели для всего дивизиона.

Расширить обзор организации и описание внешней среды. Нужно дать более подробное описание организационной структуры организации, включая филиалы и дочерние организации. В отчете приведен контур управления в разделе «Корпоративное управление», что определяет назначение этой схемы - прежде всего, участие в капитале

ДЗО. Из этого раздела невозможно понять, является ли приведенная схема описанием организационной структуры (все ли организационные единицы в нее включены - например, филиалы и представительства). Отсутствие ссылок на ДЗО, их сайты, другие разделы отчета не позволяет понять, где они расположены, род деятельности, другую значимую информацию. Описание того, чем занимаются отдельные единицы Компании (ДЗО и др.) - например, специальной врезкой, позволило бы составить более полное представление о ее деятельности.

Также необходимо дать более подробное описание культуры, этических принципов и ценностей организации. В отчете приведен только краткий список ценностей и ссылка на то, что они соответствуют ценностям Госкорпорации «Росатом». Для более полной картины можно было бы дополнить их расшифровкой, описанием культуры организации (не обязательно в начале отчета).

Также рекомендуется дать более подробное описание Компании на рынке/в отрасли.

Доработать изображение бизнес-модели Компании. Включить сопровождающее словесное описание бизнес-модели, а также организовать привязку информации о бизнес-модели к другим элементам содержания. Информация о бизнес-модели самым минимальным образом привязана к другим элементам содержания. Присутствует привязка к капиталам и результатам деятельности, но отсутствует к стратегии (в схеме бизнес-модели помещен перечень стратегических целей без какого-либо пояснения, каким образом они связаны или соотносятся друг с другом), к рискам и возможностям.

Дополнить раздел о рисках и возможностях. В разделе отчета, посвященном рискам, отсутствует описание системы управления рисками и внутреннего контроля, распределение полномочий в ней. Это является крайне важной информацией для пользователей отчета – для оценки качества управления рисками и, соответственно, для подверженности компаний рискам. Рекомендуется включать в отчет описание системы управления рисками и внутреннего контроля, распределение компетенции между ее участниками (исполнительные органы, менеджмент и сотрудники …).

Дать более подробную информацию о стратегии и распределении ресурсов. В отчете не дано описания ресурсов, необходимых для реализации стратегии. Рекомендуется добавить.

Расширить описание результатов деятельности. В установленных КПЭ нет показателей, сочетающих финансовые показатели и другие компоненты, показателей, поясняющих последствия воздействия на другие капиталы. В разделе «Риски и возможности» присутствуют только качественные показатели по рискам и возможностям. В этой связи необходимо дополнить количественные показатели.

Также следует в дополнение к описанию механизмов реагирования на обоснованные потребности и интересы стейкхолдеров в общем виде, представлять конкретные примеры/кейсы такого реагирования в отчетном году. Рекомендация не касается вопросов реагирования Компании на запросы заинтересованных сторон в процессах отчетности - данная информация в отчете представлена.

Расширить описание перспектив на будущее. В отчете рекомендуется подробнее описать сложности и неопределенности, которые могут повлиять на реализацию стратегии Компании в будущем. Также следует привести анализ влияния изменений внешней среды на стратегические цели и бизнес-модель организации и дать более подробное описание как организация в настоящее время подготовлена к реагированию на трудности и неопределенности, которые, возможно, возникнут в будущем.

Доработать раздел «Заявление первых лиц». В данном разделе рекомендуется разместить информации о том, какова была роль лиц, наделенных управленческими функциями, в подготовке и презентации отчета, описать, какие действия были предприняты для включения заявления первых лиц в будущие отчеты и указать временные рамки такого включения.

Обратить внимание на совместное использование принципов «Существенность», «Краткость» и «Связность». Провести специальную работу по сокращению объема отчета на 10-15 %.

Дополнительные рекомендации

Комиссией РРС был составлен ряд рекомендаций, которые не имеют прямого отношения к Стандарту <ИО>, но позволят в перспективе улучшить качество отчета.

Рекомендуется использовать в качестве инструмента анализа внешней среды PESTEL-анализ. Это позволит выделить регуляторные и экологические аспекты деятельности Дивизиона и повысить объем позитивной информации об этих аспектах деятельности.

Также рекомендуется раскрывать консолидированную финансовую отчетность (при наличии) с Заключением аудитора. Рекомендуется обязательно размещать в Книге приложений (или давать ссылку на иной источник информации) Заключение аудиторов по финансовой отчетности.

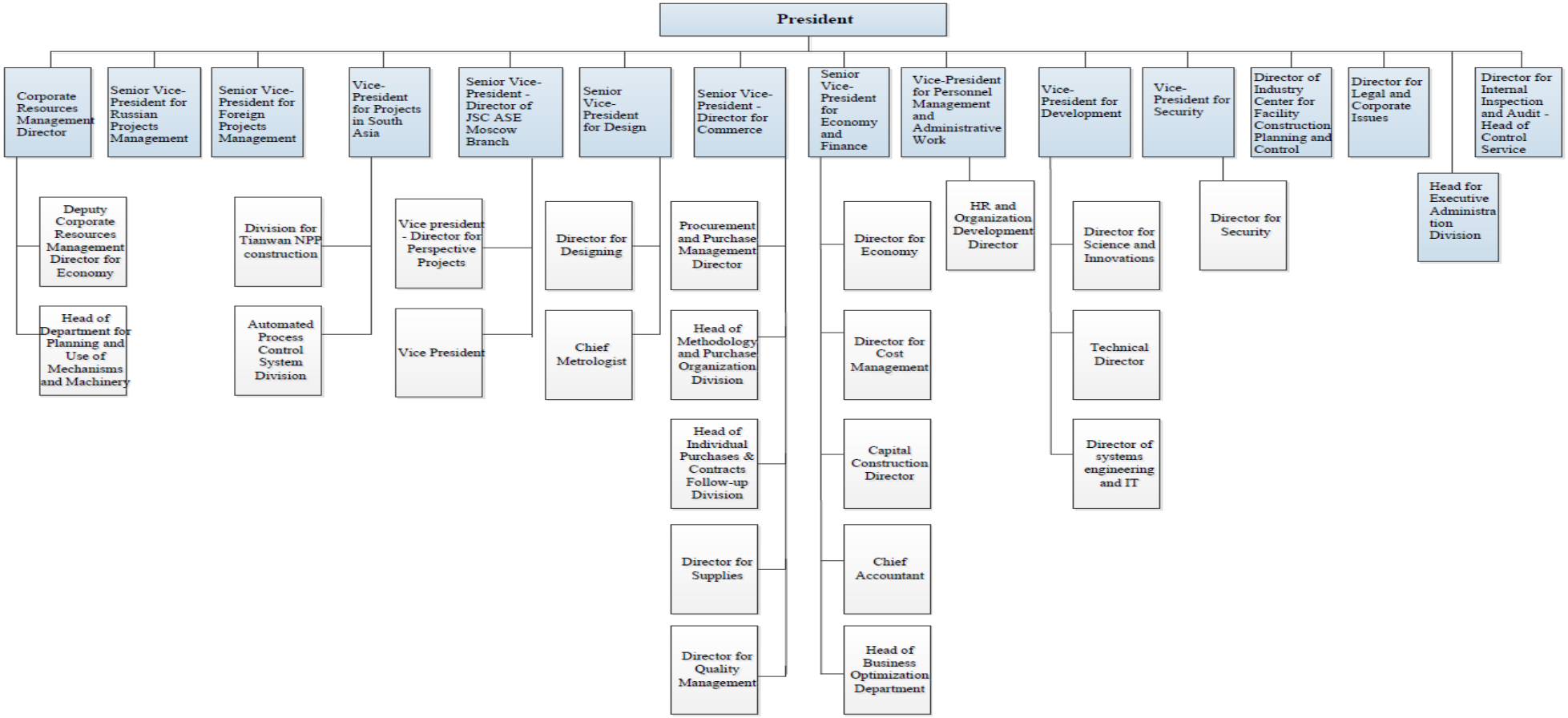
Комиссия РРС положительно оценивает содержание отчета, отмечая приверженность АО ИК «АСЭ» принципам открытости и прозрачности, и подтверждает, что интегрированный отчет АО ИК «АСЭ» за 2017 год прошел заверение на соответствие Международному стандарту интегрированной отчетности.

Член Комиссии РРС Полтавцев А. Б., директор по внутреннему контролю и управлению рисками Центра корпоративного развития

Член Комиссии РРС Агеев А.И., генеральный директор Института экономических стратегий РАН

Руководитель РРС Галушкина М. В.

Appendix 6. Organizational structure of JSC ASE EC, the Managing company of the Engineering Division



DIVISIONS OF THE COMPANY: DEPARTMENTS ETC.

Appendix 7. Operating assets of organizations within the management scope of JSC ASE EC (GRI 102-7)

Head Offices:		
Moscow, Nizhny Novgorod		
No	**Operating assets (SAC):**	
1	Germany (NUKEM Technologies Engineering Services GmbH; Nukem Technologies GmbH)	
2	Russian Federation (Design Institutes: JSC ASE EC, JSC Atomenergoproekt, JSC ATOMPROEKT Civil and erection works assets: SMU No. 1 LLC, VdMU LLC, Trest RosSEM LLC, JSC NIKIMT-Atomstroy, JSC Energospetsmontazh, JSC SPB NIII EIZ)	
3	Armenia (it is planned to handover JSC METSAMORENERGOATOM to JSC REIN within I-II quarters of 2018);	
No	**Branch Offices**	
1	The Arab Republic of Egypt;	JSC ASE
2	The Republic of Bulgaria;	
3	The Republic of Turkey;	
4	The People's Republic of Bangladesh;	
5	Russian Federation, Moscow	
6	Hungary, the town of Paks	JSC ATOMPROEKT
7	Finland, Helsinki	
8	Russia, Kaluga Region, Maloyaroslavets;	JSC Atomenergoproekt
9	Russia, Saratov Region, Balakovo;	
10	Russia, Smolensk Region, Desnogorsk;	
11	Russia, Voronezh Region, Novovoronezh, the Novovoronezh; Branch - NVNPP-2 Construction Directorate	
12	Russia, Kursk Region, Kurchatov;	
13	Russia, Moscow;	
14	Novovoronezh Branch office, Hotel "Don", Novovoronezh	
15	Novovoronezh Design R&D Branch;	
16	The Republic of Turkey, Ankara	
17	Russia, St.Petersburg, VNIPIET	
18	Russia, Tver Region, Udomlya;	JSC ASE EC
19	Russia, Moscow (MF of JSC ASE EC);	
20"	Russia, Nizhny Novgorod Region, Navashino;	
21	Russia, Kursk Region, Kurchatov;	
22	Hungary, the town of Paks;	
23	Russia, Rostov Region, Volgodonsk;	
24	Russia, Kaliningrad Region, the settlement of Malomozhaiskoye (the Baltic Branch)	

No	Representative offices	
1	Hungary (Budapest);	JSC ASE
2	The Republic of India (Mumbai);	
3	The Islamic Republic of Iran (Tehran);	
4	The People's Republic of China (Beijing and Lianyungang);	
5	The Slovak Republic (Bratislava);	
6	The Socialist Republic of Vietnam (Hanoi) (at the stage of closing of quarter II 2018);	
7	The Republic of Belarus (Ostrovets);	
8	Russia, Moscow (the Moscow Representative Office);	JSC ASE EC
9	Russia, Moscow (the Volgodonsk Representative Office);	
10	Ukraine, Kharkov (The Kharkov Representative office);	
11	The Republic of Belarus;	
12	Russia, Udomlya (The Udomlya Representative office);	
13	Russia, St.Petersburg	

Appendix 8. Corporate governance in JSC NIKIMT-Atomstroy, Trest RosSEM LLC and PJSC "Energospetsmontazh"

PJSC Energospezmontazh

The 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 IFMS No. 39 of Moscow about making a record into the Unified State Register of Legal Entities under the main state registry No. 1027739052912 dd. 08.08.2002.

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

The location (legal address) of PJSC Energospetsmontazh - 27, Boytsovaya Str., Moscow, 107150

The main types of PJSC ENERGOSPETSMONTAZH activities are:

- Fulfillment of the state order in the area of renovation and new construction of nuclear power and nuclear engineering facilities;
- Fulfillment of civil erection, start-up, adjustment and design works during construction of commercial and uncommercial facilities;
- Designing, construction, reconstruction works, repair and start-up and adjustment of nuclear power and heat and power facilities.

Accounting (financial accounting) of PJSC ENERGOSPETSMONTAZH include performance indicators of all branches, representative offices and other subdivision (including those with separate balances), namely:

No	Name of the branch	Actual location
1.	VUS-ESM	4, Vostochnaya Str, industrial area, Novovoronezh of the Voronezh region, 396072
2.	MSU-4	4, Vostochnaya Str, industrial area, Novovoronezh of the Voronezh region, 396072
3	MSU-58	D-5, Glazov, the Republic of Udmurtia, Belova Str.,
4	Branch Office NORTH-WESTERN	4, Vostochnaya Str, industrial area, Novovoronezh of the Voronezh region, 396072
5"	Civil and Erection Department No. 3	21, Stroiteley Avenue, Volgodonsk of the Rostov Region,347382
6	Division for Mechanization and Motor Transport (UMIAT)	4, Vostochnaya Str, industrial area, Novovoronezh of the Voronezh region, 396072
7	MSU-5	4, Vostochnaya Str, industrial area, Novovoronezh of the Voronezh region, 396072
8	Representative office of the Public Joint Stock Company "Energospetsmontazh" (Russian Federation) in the Republic of Belarus	231201, the Republic of Belarus, the Region of Grodno, Ostrovets, the NPP construction site

The average amount of employees of PJSC ENERGOSPETSMONTAZH is 2 118 persons within the reporting period

On 31.12.2017, the Board of Directors of PJSC ENERGOSPETSMONTAZH included:

- Podorov Nikolay Grigorievich - JSC ASE EC Chairman of the Board of Directors, Senior Vice-President for economy and finance;
- Petrenko Nikolay Vasilyevich - member of JSC ASE EC Board of Directors, Director for Own Resources Management;
- Shtam Pavel Alexandrovich, member of JSC ASE EC Board of Directors, Deputy Director for Own Economy Resources Management;
- Scherbak Mikhail Yurievich - member of JSC ASE EC Board of directors, JSC ASE EC Director for Capital Construction;
- Litovkin Alexey Vladimirovich - member of the Board of Directors, Senior Expert of JSC ASE EC corporate management Division
- Sosnin Grigory Ivanovich - member of the Board of Directors, Director General of JSC NIKIMT-Atomstroy
- Samokhvalov Alexander Vladimirovich - member of the Board of directors, Director General of PJSC Energospetsmontazh

JSC NIKIMT-Atomstroy

Joint Stock company Research and Development Engineering Institute of Installation Technologies" (short title JSC "NIKIMT-Atomstroy")

Information about the state registration:

-Registered in the Moscow Registration Chamber on 14.08.1992 Certificate No. 014.575,

- Registered in the Moscow Registration Chamber, restructured by way of transformation of the State Design and Technological Trust Orgtekhstroy-13 Enterprise into FSUE ISK Rosatomstroy on 18.07.2001, Certificate 014.575.

Introduction into the Unified State Register of Legal Entities by the Moscow Interdistrict Tax Inspectorate No 39 of information about the legal person registered before 01.07.2002 as No. 1027739640290 as of 27.11.2002. Certificate 77 No. 6209722

Registered in the Unified State Register of Legal Entities by the Moscow Federal Interdistrict Tax Inspectorate No. 46 restructured by way of transformation of the FSUE ISK Rosatomstroy into ISK Atomstroy under the main state registry No. 5087746235836 13.10.2008. Certificate 77 No. 011106035

Registered in the Unified State Register of Legal Entities by the Moscow Federal Interdistrict Tax Inspectorate No. 46 restructured by way of transformation of the FSUE ISK Atomstroy into JSC NIKIMT-Atomstroy 23.07.2009. Certificate 77 No. 010804728

Registered in the Unified State Register of Legal Entities by the Moscow Federal Interdistrict Tax Inspectorate No. 46 - change of name into JSC NIKIMT-Atomstroy 23.10.2014. Certificate about registration by 77 No. 017067362.

The location (legal address) of JSC NIKIMT-Atomstroy, 2-43, Altufievskoye Shosse, Moscow, 127410

Type of business/ type of ownership Joint stock company / ownership of state corporations

The main types of JSC NIKIMT-Atomstroy activities are such as:

- arrangement of the construction activities;
- Activities related to performance of state contracts;
- Activities related to performance of orders of industrial enterprises;
- Activities relate to service rendering: Services related to leasing of property, accreditation services; consultation services in quality management systems, training, inspections;
- Engineering geodetic and engineering geological survey for construction of buildings and structures of responsibility levels I and II;
- Development of designing estimates of industrial, recreation and welfare facilities, civil construction;
- Development and production of welding, cutting and UHF equipment, non-destructive test equipment;
- Development of special coating technologies;
- training and certification of experts.

Accounting of JSC NIKIMT-Atomstroy include performance indicators of all branches, representative offices and other subdivision (including those with separate balances), namely:

- General contractor Directorate in Ozersk (established for civil works for FSUE NPO Mayak) has a separate balance, conducts independent accounting and taxation accounting;
- TPII VNIPIET Branch (Closed Administrative Territorial Unit, Seversk) has a separate balance, conducts independent accounting and taxation accounting;
- The NIKIMT Engineering Centre branch in Obninsk (in the Kaluga Region) has a separate balance, conducts

independent accounting and taxation accounting;

- The General Contractor Directorate at the Smolensk NPP (Desnogorsk) has a separate balance, conducts independent accounting and taxation accounting;
- Directorate at the Kursk NPP (Kurchatov, the industrial zone of the Kursk NPP) has a separate balance, conducts independently accounting and taxation accounting;
- The Directorate at the Novovoronezh NPP (2B, Kurchatova Str., Novovoronezh) has a separate balance, conducts independently accounting and taxation accounting;
- Directorate in Dimitrovgrad (20, Northern Fleet Shipboys Str., Dimitrovgrad) does not have a separate balance;
- Directorate in St-Petersburg (office 127B, 82A, Savushkina Str, St-Petersburg) was established on 18.10.2016, has a separate balance, conducts independently accounting and taxation accounting;
- Representative Office of JSC NIKIMT-Atomstroy in the Republic of Belarus (the Republic of Belarus, the Region of Grodno, Ostrovets, the NPP construction site) is established in 26.04.2016, has a separate balance, conducts independently accounting and taxation accounting;
- The detached division of JSC NIKIMT-Atomstroy "Lease property complex" (43-1, Altufievskoye Shosse, Moscow) does not have a separate balance;
- The Directorate of the Leningrad NPP (Sosnovy Bor of the Leningrad Region), the activities are suspended, it has a separate balance, conducts independently accounting and taxation accounting;
- The Directorate at the Rostov NPP 60, Chemists' Str. Volgodonsk) on the basis of the sole shareholder decision No. 530 dd. 25.02.2016
- The Krasnoyarsk Branch (established for organization of thermal power plant in Zheleznogorsk), closed on 15.01.2015 based on the sole shareholder's decision No. 442 dd. 23.12.2014.

The average amount of employees of JSC NIKIMT-Atomstroy is 1 854 persons within the reporting period, including:

Subdivision	Average staffing number of employees as of 31.12.2017	Average staffing number of employees as of 31.12.2017	Average amount of employees as of: 31.12.2015
Directorate's Branch in Ozersk	57	160	247
TPII VNIPIET branch	8	127	171
NIKIMT Engineering Center Branch in Obninsk	144	141	146
Directorate of Smolensk NPP	128	124	147
Head organization of JSC NIKIMT-Atomstroy, Moscow	389	389	493
Directorate of Kursk NPP	443	365	227
Directorate of Novovoronezh NPP	297	333	744
Directorate in Dimitrovgrad	115	49	157
Directorate in St-Petersburg	32	7	-

Subdivision	Average staffing number of employees as of 31.12.2017	Average amount of employees as of: 31.12.2016	Average amount of employees as of: 31.12.2015
Detached AIK subdivision	36	59	-
Representative Office in the Republic of Belarus	205	68	-
Directorate of the Leningrad NPP	-	-	7
Directorate of the Rostov NPP	-	-	56
Krasnoyarsk Branch	-	-	14
IN TOTAL	1854	1822	2409

The revision of the Articles of Association as of 28.08.2017 (approved by the sole shareholder's decision No. 560 dd. 28.08.2017) is applicable in JSC NIKIMT-Atomstroy.

According to the basic document, the Board of Directors is not envisaged in the structure of the Company's bodies. JSC Atomenergoprom is a 100% owner of the voting shares of NIKIMT-Atomstroy in the person of Olontsev Sergey Petrovich and Petrushov Andrey Vladimirovich acting on the basis of the power of attorney No. 10.02.2017 77 AB 3268274 till 31.12.2018.

The sole shareholder's decision No. 536 dd. 04.07.2016 elected a sole executive body - the Company's Director General Sosnin Grigory Ivanovich from 05.07.2016.

The sole shareholder's decision No. 555 dd. 30.05.2017

- approved the annual accounting (financial accounting) including the report of financial results for 2016;
- The following distribution of net profit (lost revenues) is approved by the results of the 2016 financial year:

Seq No.	Name	Amount, Rubles
1.	Net profit (lost revenue) for the reporting period	25 781 123
2.	Non-distributed profit (lost revenue) of the reporting period, in total distributed between:	25 781 123
2.1	Investments	25 781 123
0 D.	The remaining non-distributed profit (lost revenue) of the reporting period, in total	0

- Due to the fact that the cost of the Company's net assets as to the date of the decision taking is less than the amount of the equity capital, according to i. 1 of Article 43 of the Federal Law No. 208-FZ dd. 26.12.1995 "On joint stock companies" JSC NIKIMT-Atomstroy is not entitled to take a decision about (announce) a payment of dividends by the results of the 2017 reporting year.
- Approved by the auditor of JSC NIKIMT-Atomstroy for the independent audit of the JSC NIKIMT-Atomstroy annual accounting (financial accounting) for 2017 year Nexia Pacioli Limited Liability Company (Nexia Pacioli), PSRN 1027739428716, TIN 7729142599, address: 119180, Moscow, Moscow, 119180 The cost of payment of the JSC NIKIMT-Atomstroy Nexia Pacioli Ltd auditor's services for the annual independent audit of JSC NIKIMT-Atomstroy accounting (financial accounting) for the 2017 reporting year is established in the amount of not more than 4 817 468 (four million eight hundred seventeen thousand four thousand sixty-eight) rubles, VAT included.

Trest RosSEM LLC

The Limited Liability Company "Trust Rosspetsenergomontazh" (hereinafter JSC Trust RosSEM) is registered in the Unified State Register of Legal Entities under the main state registration number No. 1056906004550 dd. 19.04.2005. The registration certificate No. 005374618 about registration in the FTS Interdistric Inspectorate of Russia # 52 in Nizhny Novgorod, the Nizhny Novgorod Region

The legal form of Trust RosSEM LLC according to the National Russian Classifier of Forms of Incorporation (NRCFI) under code 65 is the Limited Liability Company The code of property under the Property Forms Classifier is number 16, i.e. private property.

Location: (legal and mailing address) 603006, Nizhny Novgorod, Svobody Square, 3 The main types of activities of Trust RosSEM LLC are civil and erection works at nuclear power facilities, in industry, in civil and residential construction, manufacturing of meatl structures, assembled reinforced concrete structures, process pipelines and equipment for nuclear facilities, residential, civil and industrial construction

The company is a member of the self-regulating organizations based on the membership of persons engaged in construction, reconstruction, major capital works Association "Self-regulating regional industrial association of employers "Association of Nizhny Novgorod developers"

The accounting (financial accounting) of Trust RosSEM LLC includes performance indicators of all branches, Representative Offices, namely:

- The Moscow Branch of Trust Rosspetsenergomontazh LLC; Volgodonsk Branch of Trust Rosspetsenergomontazh LLC; Kursk Branch of Trust Rosspetsenergomontazh LLC; Representative Office of Trust Rosspetsenergomontazh LLC (Russian Federation) in the Republic of Belarus;
- The Branch of Trust Rosspetsenergomontazh LLC (Russian Federation) in the People's Republic of Bangladesh;
- The Branch of Trust Rosspetsenergomontazh LLC in the Republic of Turkey.

The average amount of employees in Trust RosSEM is 1 591,36 persons within the reporting period

Information about the Auditor

Title: "Nexia Pacioli" Limited Liability Company

Location: 2, Malaya Polyanka, Moscow 119 180 Moscow, 119180

Legal address: 2, Malaya Polyanka, Moscow 119 180 Tel. (495) 640-64-52 TIN 7729142599

Membership in the self-regulatory organization of auditors

Is a member of Self-regulatory Organization of Auditors Association "Community" (included into the list of auditors and auditing organizations SRO AAS on 28.10.2016) under the main registration number 11606052374).

The Company's equity capital is 94 037 896 (ninety-four million thirty-seven thousand eight hundred ninety-six) rubles: 99.9% of the equity capital belongs to JSC ASE EC and 0.01% - to SMU No. 1 LLC

The additional Company's capital makes 453 000 000 (four hundred fifty-three million) rubles.

Appendix 9. Information about the members of the Board of Directors

JSC ASE EC

The Company's Board of Directors carries out general management of the Company's activity.
The Board of Directors makes up decisions on the issues within its competence in accordance with cl.65 of the Federal law dd. 26.12.1995 No. 208-FZ "On joint stock companies", chapter 4 part 1 of the Civil Code of the Russian Federation, cl.13 of the Company's Article of Association.
KPI was not established for the Board of Directors.
As per the Company's Articles of Association, a quantitative structure of JSC ASE ES Board of Directors comprises 5 people.
During 2017, the structure of the BoD changed based on decisions of the General meeting of shareholders.
As of 01.01.2017 the Company's Board of Directors elected by the decision of the extraordinary General meeting of shareholders dd. 19.10.2016 (Minutes of Meeting No. 10) included:

1. Barabanov Oleg Stanislavovich – Director for development and restructuring of the Division for development and international business of Rosatom State Corporation.
2. Drozdov Nikolay Sergeevich - First Deputy Director General for JSC Tekhsnabexport Commercialization
3. Vlasov Alexander Vyacheslavovich - Deputy director of International Business Department - head of global development and strategic partnerships of Rosatom State Corporation
4. Limarenko Valery Igorevich - the President of JSC ASE EC.
5. Borisov Ivan Alexeevich - JSC ASE EC Vice-President for Development

The decision of the extraordinary general meeting of the Company's shareholders of 18.04.2017 (Minutes of Meeting No. 17), the following persons were elected as members of the Board of Directors:

1. Barabanov Oleg Stanislavovich – Director for development and restructuring of the Division for development and international business of Rosatom State Corporation.
2. Arseev Boris Nikolaevich - Director of the Rosatom State Corporation Department of International Business
3. Vlasov Alexander Vyacheslavovich - Deputy director of International Business Department - head of global development and strategic partnerships of Rosatom State Corporation
4. Limarenko Valery Igorevich - the President of JSC ASE EC.
5. Borisov Ivan Alexeevich - JSC ASE EC Senior Vice-President for Development

As of 31.12.2017, the JSC ASE EC Board of Directors acts on the basis of the decision of the annual general shareholders' meeting as of 26.06.2017 (Minutes of Meeting No. 19). Independent members of the Board of Directors are absent.

BARABANOV **Oleg Stanislavovich**	**VLASOV** **Alexander Vyacheslavovich**	**ARSEEV** **Boris Nikolaevich**	**LIMARENKO** **Valery Igorevich**	**BORISOV** **Ivan Alexeevich**
First Deputy Director General of Joint Stock Company Atomredmetzoloto,	Deputy director of International Business Department - head of global development and strategic partnerships of Rosatom State Corporation	Deputy director of the Development and International Business Unit - head of International Business Department of Rosatom State Corporation	President of the Joint Stock Company "ASE Engineering Company" (JSC ASE EC), Managing Company of the Joint Stock Company Atomstroyexport (JSC ASE), JSC Atomenergoproekt, JSC Atomproekt	Senior Vice-President for Development of JSC ASE EC
Date and place of birth				
1971, Moscow	1985 Moscow	1971 Sverdlovsk	1960 Kharkov	1981 Leningrad
Education				
The Moscow State Geological Survey Academy named after S.Ordzhonikidze The Institute of professional accountants and auditors The Military University, Candidate of Science, Economics	The Moscow Engineering Physical Institute The Moscow state institute of international relations under MIA of Russia	The Urals State Technical University The Russian Academy of National Economy and Public Administration under the RF President The Urals Federal University named after B.N. Eltsin	Kharkov Aviation institute, qualification "liquid propellant jet engines", mechanical engineer, Doctor of Science, Economics	Saint-Petersburg state university
Job Experience				
2010-2014 - Director of Rosatom State Corporation Treasury Since 2014 – Director for development and restructuring of the Division for development and international business of Rosatom State Corporation. Since 2018 - First Deputy Director General of Joint Stock Company Atomredmetzoloto, Since 06.12.2016 – member of the Board of Directors of JSC NIAEP	2010 - 2015 - senior manager, head of the Regional Development and Strategic Partnership Department for international business of Rosatom State Corporation 2015 - 2017 - senior manager, head of the Regional Development and Strategic Partnership Department for international business of Rosatom State Corporation	2010-2013 - Engineering Director, Sales Director, Commercial Director, Acting Director General of JSC Atomenergomash 02.2013–11.2013 - Executive Vice-President of JSC Rusatom Overseas 2014-2016 - Director of Department for International Business and Development, Deputy Director General -	1983 - 1996 - scientific work in Russian Federal Nuclear Center, made the career advancement from design engineer to leading research engineer. 1996 - 2001 - Deputy, First Deputy Chairman of the Sarov Municipal Duma on Economics and Finance. 2001–2003 – minister for construction and housing and	2011 -2013 – Director for development and restructuring (Division for development and international business) of Rosatom State Corporation. 2013-2014 - Vice president for development of JSC NIAEP. Since 2014 - vice president for development of Public Company NIAEP Since 17.08.2017 - JSC ASE EC Senior Vice-President for

BARABANOV **Oleg Stanislavovich**	**VLASOV** **Alexander Vyacheslavovich**	**ARSEEV** **Boris Nikolaevich**	**LIMARENKO** **Valery Igorevich**	**BORISOV** **Ivan Alexeevich**
Since 28.10.2016 - Chairman of the Board of Directors of JSC NIAEP Since 06.12.2016 – Chairman of the Board of Directors of JSC ASE EC	Since 2017 - Deputy director of International Business Department - head of global development and strategic partnerships of Rosatom State Corporation 10.2016-12.2016 – member of the JSC NIAEP Board of Directors Since 06.12.2016 – member of the JSC ASE EC Board of Directors.	Director for business development of JSC Concern Rosenergoatom Since 2016 - Deputy director of the Development and International Business Unit - head of International Business Department of the Rosatom State Corporation Since 18.04.2017 – member of the JSC ASE EC Board of Directors	municipal infrastructure of the Government of Nizhny Novgorod region. 2003-2005 worked in the Administration of RF President as a plenipotentiary representative of RF President in the Volga Federal District, Chief Federal inspector in the Nizhny Novgorod region. 2005-2007 - Deputy Governor, Deputy Chairman of the Nizhny Novgorod Region Government in the area of Construction, energy, housing and utiliy sector and information technologies. In May 2007 was as a head of FSUE Nizhny Novgorod Research and Development Design Institute "Atomenergoproekt: (FSUE NIAEP) Starting from November 2012 was a President of JSC NIAEP (since 2012 - managing company of JSC ASE, since 2014 - managing company of JSC Atomenergoproekt, since 2015 - managing company of JSC Atomproekt). Since July 2016 Mr. was a head of Engineering Division of Rosatom State Atomic Energy Corporation	Development 2012-2014 – member of the JSC NIAEP Board of Directors. Since 07.10.2014 – member of the Board of Directors of NIAEP JSC. Since 06.12.2016 – member of the JSC ASE EC Board of Directors.

BARABANOV Oleg Stanislavovich	VLASOV Alexander Vyacheslavovich	ARSEEV Boris Nikolaevich	LIMARENKO Valery Igorevich	BORISOV Ivan Alexeevich
			Since December 2016, he has been working as a president of JSC ASE EC, head of ASE Group of Companies integrating the leading design engineering companies: JSC ASE EC, JSC ASE, JSC "Atomenergoproekt", JSC "Atomproekt", LLC "Trust RosSEM", JSC "Energospetsmontazh", JSC "NIKIMT-Atomstroy", LLC "VdMU" etc. In 2018, he passed the international certification in the area of project, programmes and project portfolio management in the Russian SOVNET projects management Association, Certified Director of IPMA projects, Level A. Direct management of design, construction and commissioning of the facilities: - Rostov NPP Units No.2, 3, 4 (power units No.2,3 were put into commercial operation in 2010 and 2014 and Unit No. 4 was connected to the grid in February 2018); -Kalinin NPP Unit No.4 (was put into commercial operation in September 2012); - Bushehr NPP Units No.1,2,3	

BARABANOV Oleg Stanislavovich	VLASOV Alexander Vyacheslavovich	ARSEEV Boris Nikolaevich	LIMARENKO Valery Igorevich	BORISOV Ivan Alexeevich
			(Unit No. 1 was put into commercial operation in June 2013); - Units No.3, 4 of Tianwan NPP in China (Unit No.3 was put into commercial operation in December 2018); - Kudankulam NPP Units No.1,2,3,4 in India (Unit No. 1 was put into commercial operation in December 2017, power unit No. 2 was put into commercial operation in January 2017); - Yuzhnouralsk GRES-2 Units No.1 &2 (were put into commercial operation in February and November 2014); - Novovoronezh NPP-2 Units No.1, 2 (Unit No.1 was put into commercial operation in February 2017); - Belarus NPP Units No. 1, 2; - Rooppur NPP Units No. 1,2 in Bangladesh; - Kursk NPP Units No. 1, 2; -El-Dabaa NPP Unit No. 1,2,3,4 in Egypt; - Paks-2 NPP Units No. 1,2 in Hungary; PhD in Economics (from 2001), the author of more than 25 thesis, including three monographes. President of Higher	

BARABANOV Oleg Stanislavovich	VLASOV Alexander Vyacheslavovich	ARSEEV Boris Nikolaevich	LIMARENKO Valery Igorevich	BORISOV Ivan Alexeevich
			Engineering School NRNU MEPhI (HES MEPhI) Head of Department “Life cycle management system of complex engineering facilities” in Nizhny Novgorod State Technical University (NNSTU) named after after P.E. Alekseev, Dr.h.c. of NNSTU Head of the group of specialists -developers of the MULTI-D digital system for complex engineering facilities management. In different years: Head of department “New financial technologies” of Sarov physical and technical institute (SarPTI) President of the International scientific and training center “Economy of regional development” of SarPTI. Vice President Of the International association of housing funds and mortgage lending (IAHF). State awards of the Russian Federation: Order of Alexander Nevsky Medal of Honor State award of the People’s	

BARABANOV Oleg Stanislavovich	VLASOV Alexander Vyacheslavovich	ARSEEV Boris Nikolaevich	LIMARENKO Valery Igorevich	BORISOV Ivan Alexeevich
			Republic of China Medal of Friendship Awards of the Russian Orthodox Church The Order of St Sergius of Radonezh, III degree The Order of St. Seraphim Sarovsky, III and II degree Industry awards: Mark of distinction "E.P. Slavsky"	

Drozdov Nikolay Sergeevich
Date of birth: 23.06.1972
Education: higher.
Positions over last 5 years:
From March 2010 till August 2012 – Deputy director general of Alstom JSC.
From February 2013 till June 2013 – advisor of director general of Rusatom Overseas JSC.
July 2013 till November 2016 – Director of Rosatom State Corporation Department for international business.
November 2016 till the present time - first deputy director general for back-end commercialization of JSC Tekhsnabexport

JSC ASE

According to i. 13.1 of the Company's Article of Association, the Company's Board of Directors implements the general management of the Company's activities. The membership of the Company's Board of Directors is 5 (five) persons
During 2017 there were two groups of the Board of Directors' members.
1. The membership of the Board of directors remained active from 01.01.2017 till 03.03.2017 that was elected by the Company's sole shareholder's decision No. 7 dd. 08.09.2016:

- Barabanov Oleg Stanislavovich;
- Vlasov Alexander Vyacheslavovich;
- Drozdov Nikolay Sergeevich (see biography above);
- Podorov Nikolay Grigorievich
- Savushkin Vladimir Nikolaevich.

O.S.Barabanov was elected the Chairman of the mentioned Company's Board of Directors.

2. The membership of the Board of directors remained active from 03.03.2017 till 14.06.2017 that was elected by the Company's sole shareholder's decision No. 2 dd. 03.03.2017: The same membership of the Board of Directors re-elected by the Company's sole shareholder's decision No. 5 dd. 14.06.2017 remained active from 14.06.2017 till the end of the reporting period:

- Barabanov Oleg Stanislavovich;
- Vlasov Alexander Vyacheslavovich;
- Arseev Boris Nikolaevich
- Podorov Nikolay Grigorievich
- Savushkin Vladimir Nikolaevich.

O.S.Barabanov was elected as the Chairman of the mentioned Company's Board of Directors.

BARABANOV **Oleg Stanislavovich**	**VLASOV** **Alexander Vyacheslavovich**	**ARSEEV** **Boris Nikolaevich**	**PODOROV** **Nikolay Grigorievich**	**SAVUSHKIN** **Vladimir Nikolaevich**
First Deputy Director General of the Joint Stock Company Atomredmetzoloto,	Deputy director of International Business Department - head of global development and strategic partnerships of Rosatom State Corporation	Deputy director of the Development and International Business Unit - head of International Business Department of Rosatom State Corporation	Senior Vice President for Economy and Finance of JSC ASE EC	Vice-President of JSC ASE EC
Date and place of birth				
1971, Moscow	1985 Moscow	1971 Sverdlovsk	1967 Gorky,	1954 Moscow
Education				
The Moscow State Geological Survey Academy named after S.Ordzhonikidze The Institute of professional accountants and auditors The Military University, Candidate of Science, Economics	The Moscow Engineering Physical Institute The Moscow state institute of international relations under MIA of Russia	The Urals State Technical University The Russian Academy of National Economy and Public Administration under the RF President The Urals Federal University named after B.N. Eltsin	Nizhny Novgorod State University named after N.I. Lobachevsky	Moscow Mechanical Institute The All-Union Order of People's Friendship Academy of Foreign Commerce
Job Experience				
2011-2014 - Director of Rosatom State Corporation Treasury 2014-2018 Director for Development and Restructuring of "Rosatom" State Corporation. Since March 2018 - First Deputy Director General of Joint Stock	is employed in Rosatom State Atomic Energy Corporation from October 2010 till present: 2010 - 2015 - senior manager, head of the Regional Development and Strategic Partnership Department for	2010-2013 - Engineering Director, Sales Director, Commercial Director, Acting Director General of JSC Atomenergomash 02.2013–11.2013 - Executive Vice-President of JSC Rusatom	From 2005 till 2011 - deputy Chairman of the Board of Directors of the Volgo-Vyatsky bank of Sberbank of Russia. He has been employed in JSC ASE EC since April 2011 till	2007 – 2011 was employed by JSC ASE: Head of the President's Administration (2007 – 2008); Vice-president (2008 – 2010); First vice-president (2010 – 2011). Has been working on a part-time

BARABANOV Oleg Stanislavovich	**VLASOV Alexander Vyacheslavovich**	**ARSEEV Boris Nikolaevich**	**PODOROV Nikolay Grigorievich**	**SAVUSHKIN Vladimir Nikolaevich**
Company Atomredmetzoloto, During implementation of its functions he neither owned any JSC ASE shares nor performed any transactions with the Company within the reporting period.	international business, 2015 - 2017 - head of the Regional Development and Strategic Partnership Department for international business, Since September 2017 - Deputy director of International Business Department - head of global development and strategic partnerships During implementation of its functions he neither owned any JSC ASE shares nor performed any transactions with the Company within the reporting period.	Overseas 2014-2016 - Director of Department for International Business and Development, Deputy Director General - Director for business development of JSC Concern Rosenergoatom Since November 2016 - Deputy director of the Development and International Business Unit - head of International Business Department of the Rosatom State Corporation During implementation of its functions he neither owned any JSC ASE shares nor performed any transactions with the Company within the reporting period.	the present time: 2011-2012 – head of the Chief Financial Economic Division; 2012-2014 – Director for Economy and Finance - Head of Division); 2014 – Director for Economy, Planning and Finance; 2014-2015 - Vice-President for Economy and Finance; From December 2015 - Senior Vice-President for Economy and Finance During implementation of its functions he neither owned any JSC ASE shares nor performed any transactions with the Company within the reporting period.	basis as Vice-president of JSC ASE since August 2013 till present. has been a head of Moscow branch office of JSC ASE EC since 2012 till present: first deputy director - director of Moscow branch office (till November 2012); senior vice-president - director of Moscow branch office (November 2012 till the present time). During implementation of its functions, he neither owned any JSC ASE shares nor performed any transactions with the Company within the reporting period.

The members of the JSC ASE EC Board of Directors neither have a share in the equity capital of JSC ASE EC nor own shares of JSC ASE EC; the members of the Board of Directors have not committed transactions on shares acquisition or carve-out within the reporting period.

The meetings of the JSC ASE EC Board of Directors are held in absentia.

The Board of Directors' meetings are convened by the Chairman of the Board of Directors upon his initiative, upon request of the BoD member, auditor or the sole executive body (President) with suggestion of agenda issues.

JSC ASE EC Board of Directors does not have special-purpose committees in its structure.

JSC Atomenergoproekt

During 2017 the following memberships of the Board of Directors were active.

1. From 01.01.2017 till 29.05.2017, the membership of the Board of Directors elected by the annual General meeting of the Company's shareholders

On 30.06.2016, (the protocol of the Company's annual General shareholders' meeting No. 1 dd.01.07.2016), the Board of Directors was active in the same membership from 29.05.2017 till 25.08.2017, elected by the annual General Meeting of the Company's shareholders dd. 29.05.2017 (the annual Minutes of meeting No. 2 of the General meeting of the Company's shareholders dd. 29.05.2017

Ivanov Yury Alexeevich - Chairman of the BoD,

Egorov Leonid Valentinovich
Podorov Nikolay Grigorievich
Rzhannikova Ekaterina Valeryevna
Sheshokin Nikolay Pavlovich

2. From 25.08.2017 to 25.10.2017 the membership of the BoD was active that was elected by the unscheduled General meeting of the Company's shareholders on 25.08.2017 (the minutes of unscheduled General meeting of the Company's shareholders dd. 25.08.2017 No. 3):

Egorov Leonid Valentinovich - the Chairman of CoD
Kagach Valery Yurievich
Dmukha Olga Evgenyevna
Aksenin Eduard Alexandrovich
Polyak Igor Efimovich

3. From 25.10.2017 the membership of the BoD has bee active that was elected by the unscheduled General meeting of the Company's shareholders on 25.10.2017 (the minutes of unscheduled General meeting of the Company's shareholders dd. 25.08.2017 No. 5):

Egorov Leonid Valentinovich - the Chairman of CoD
Sinitsin Vladimir Victorovich
Dmukha Olga Evgenyevna
Aksenin Eduard Alexandrovich
Polyak Igor Efimovich

EGOROV **Leonid Valentinovich**	**SINITSIN** **Vladimir Victorovich**	**DMUKHA** **Olga Evgenyevna**	**AKSENIN** **Eduard Alexandrovich**	**POLYAK** **Polyak Igor Efimovich**
The First Deputy Director General, JSC Atomenergoproekt - Chairman of the Board of Directors	Deputy Director General for Economy and Finance, JSC Atomenergoproekt	Administrative Director, JSC Atomenergoproekt	Deputy Director for foreign projects cost management, JSC ASE EC	Deputy Head of capital construction management Division, JSC ASE EC
Date and place of birth				
1956, Kirov	1961 the settlement of Narog'ie of the Nagor'ie subdistrict of the Yaroslavl Region	1983 Zhukovsky of the Moscow Region	1960 Moscow	1958 settlement Shalakushi Nyandomsky subdistrict of the Arkhangelsk Region
Education				

EGOROV Leonid Valentinovich	**SINITSIN Vladimir Victorovich**	**DMUKHA Olga Evgenyevna**	**AKSENIN Eduard Alexandrovich**	**POLYAK Polyak Igor Efimovich**
The Moscow Kirovsky Polytechnical Institute	The Moscow Lenin Institute of Geodetic, Aerial Survey and Map-Making Engineers The Academy of National Economy under the Government of the Russian Federation Candidate of science, economics	The Russian State Humanitarian University	Moscow Institute of Mineral Resources	Togliatti Polytechnic Institute
Job Experience				
2010-2012 - Director General of JSC Atomenergoproekt 08.2012-09.2012 - Counsellor of the Director General of JSC Atomenergoproekt From September 2012 - the First Deputy General Director of JSC Atomenergoproekt,	2012-2015 - Vice-President of JSC Atomenergoproekt From April 2015 - Deputy Director General for Economy and Finance of JSC Atomenergoproekt	2012-2014 - Director of the Administrative Department of JSC Atomenergoproekt From August 2004 - The Administrative director	2012-2015 - Director for Economy of JSC Atomenergoproekt From April 2015 - Deputy Director for foreign projects cost management of JSC ASE EC	2007 - 2015 - Head of Capital Investment and Accounting Division From February 2015 - Deputy Head of capital construction Division of JSC ASE EC

Ivanov Yury Alekseevich
Year of birth - 1953, year of death - 2017
Place of birth - the Perm region, Krasnovishersky district, Mutikha settlement
Higher Education Education - The Gorky Polytechnic institute named after A.A. Zhdanov
The information about the main place of work , the period of holding the position of the Chairman of JSC Atomenergoproekt - JSC ASE EC Board of Directors, Senior Vice-President for Designing
During implementation of its functions, he neither owned any JSC Atomenergoproekt shares nor performed any transactions with the Company within the reporting period.

Rzhannikova Ekaterina Valeryevna
Born in 1974
Place of birth - the city of Nizhny Novgorod
Higher Education
Volgo-Vyatsk Adademy of Public Service
Nizhny Novgorod State University named after Lobachevsky, 2006
Information about the main place of work - JSC ASE EC, Director for legal and corporate issues
During implementation of its functions, she neither owned any JSC Atomenergoproekt shares nor performed any transactions with the Company within the reporting period.

Sheshokin Nikolay Pavlovich
Born in 1954
Place of birth: the city of Gorky

Higher Education Education - All-Union Part-Time Institute of Railroad Transport Engineers
Information about the main place of work - JSC ASE EC, Vice-President for Personnel Management and Administrative Issues
During implementation of its functions, he neither owned any JSC Atomenergoproekt shares nor performed any transactions with the Company within the reporting period.

Podorov Nikolay Grigorievich
Born in 1967
Place of birth: the city of Gorky
Higher Education NNSU named after Lobachevsky
Information about the main place of work - JSC ASE EC, Senior Vice-President for Economy and Finance
During implementation of its functions, he neither owned any JSC Atomenergoproekt shares nor performed any transactions with the Company within the reporting period.

Kagach Valery Yurievich
Born in 1962
Place of birth - Odessa of the Ukrainian SSR
Higher Education The Odessa Polytechnical Institute awarded the Order of the Red Banner of Labour
The information about the main place of work in the period of holding the position of the member of JSC Atomenergoproekt BoD - JSC Atomenergoproekt, Procurement Director
During implementation of its functions, he neither owned any JSC Atomenergoproekt shares nor performed any transactions with the Company within the reporting period.

JSC ATOMPROEKT
There are no committees or commissions under JSC ATOMPROEKT Board of Directors
Within the reporting period, 1 meeting of JSC ATOMPROEKT BoD was held where 3 issues were addressed:
1) On election of the BoD chairman,
2) On appointing the BoD secretary,
3) On approving the conditions of the Addendum to the Contract with the registrar
In order to prevent conflicts of interests in JSC ATOMROEKT, the order No. 40/1429-P dd. 26.09.2016 was implemented about approval of the Procedure for public disclosure of information in JSC NIAEP, JSC ASE, JSC Atomenergoproekt and JSC ATOMPROEKT pursuant to which the official Internet site of JSC ATOMPROEKT discloses the main information about the company's activities including the list of affiliated persons, annual reports annual accounting reports and auditor reports.
There were no conflicts of interests in JSC ATOMPROEKT in the reporting period. If any corporate conflicts arise they are to be settled according to the RF legislation.
By the decision No. 237 dd. 22.11.2017 of the JSC ATOMPROEKT sole shareholder, the JSC ATOMPROEKT Board of Directors has been elected in the following membership:
-Buzharov Nikolay Alexandrovich
-Kazarin Alexander Mikhailovich
-Novikova Olga Konstantinovna
-Ilyinsky Konstantin Mikhailovich
-Borisov Ivan Alexeevich (his biography is on p. 30 of the Book of Appendices)
By the decision No. 238 dd. 26.12.2017 of the JSC ATOMPROEKT sole shareholder, the JSC ATOMPROEKT Board of Directors has been elected in the following membership:
-Buzharov Nikolay Alexandrovich
-Kazarin Alexander Mikhailovich
-Novikova Olga Konstantinovna

-Ilyinsky Konstantin Mikhailovich
-Shafalovich Natalya Borisovna

BUZHAROV **Nikolay Alexandrovich**	**KAZARIN** **Alexander Mikhailovich**	**NOVIKOVA** **Olga Konstantinovna**	**ILYINSKY** **Konstantin Mikhailovich**	**SHAFALOVICH** **Natalya Borisovna**
Deputy Director for Economics, JSC ASE EC - Chairman of BoD	Deputy Director for Design, JSC ASE EC	HR Director, JSC ATOMENERGOPROEKT	Director of JSC ATOMPROEKT Saint-Petersburg Design Institute	HR and organization development Director, JSC ASE EC
Is not member of committees or boards	Is not member of committees or boards	Is not member of committees or boards	ASE Group of companies development board	ASE Group of companies development board
Date and place of birth				
2/25/1957 Kalinin	5/31/1961 Leningrad	6/11/1971 settlement of the Vsevolozhsk subdistrict of the Leningrad region	9/24/1978 Ust-Kamenorosk, Kazakhstan	9/15/1973 Krasnokamsk of the Perm Region
Education				
Leningrad Mining Institute named after G.V. Plekhanov	Leningrad Mining Institute named after M.I. Kalinin	Saint-Petersburg State Electrical Engineering University named after V.I. Ylianov (Lenin)	St-Petersburg State Technological Institute	Perm State Medical Academy
Job Experience				
2011-2012– Counsellor of the Director General of JSC Leading Research Institute VNIPIET 2011-2012 – Counsellor of JSC ATOMPROEKT Director 2012 -2013 - Deputy Director for Economy and Finance of JSC ATOMPROEKT 2013-2014– Financial Director of JSC Lead Research Institute VNIPIET 07.2014-09.2014 - JSC ATOMPROEKT Branch Office Deputy Director for Economy and Finance (part-time job) 2014-2016 - Deputy Director	2011-2013 - Director for Designing of JSC Atomenergoproekt 2013-2014 – Deputy Director General - Director of the Branch office. Branch Office of JSC Lead Research Institute VNIPIET SPbAEP 2014-2015 - Deputy Director General - Director of JSC ATOMPROEKT VVER Technology Department 2016 - 2016 - Deputy Director General - Production Director of JSC ATOMPROEKT 2016-2018 - Director of St-	2011 -2013 - HR Deputy Director of JSC ATOMPROEKT 2013-2014– HR Director of JSC Lead Research Institute VNIPIET 07.2014-09.2014 - HR Deputy Director of JSC ATOMPROEKT Branch Office (part-time job) From October 2014 - HR Director of JSC ATOMPROEKT	2011-2013 – Head of JSC ATOMPROEKT Bureau of Technical Solutions of Nuclear Island 2013-2014 – Head of JSC ATOMPROEKT Department of Nuclear Island Complex Designing 2014-2017 - Head of Technological Division of JSC ATOMPROEKT 2017-2018 - First Deputy Director of St-Petersburg JSC ATOMPROEKT Design Institute From February 2018 - Director	2011-2015 – Head of Project of EurazHolding Llc Training and Development Directorate 2015-2017 - HR Director of JSC "Science and Innovations" From September 2017 - HR and Organizational Development of JSC ASE EC

BUZHAROV **Nikolay Alexandrovich**	**KAZARIN** **Alexander Mikhailovich**	**NOVIKOVA** **Olga Konstantinovna**	**ILYINSKY** **Konstantin Mikhailovich**	**SHAFALOVICH** **Natalya Borisovna**
General - Finance Director of JSC ATOMPROEKT From April 2016 - Deputy Director for Economy of JSC ASE EC Director for Economy and Finance of JSC ATOMPROEKT (part-time job)	Petersburg JSC ATOMPROEKT Design Institute From February 2018 - Deputy Director for Designing of JSC ASE EC		of Saint-Petersburg Design Institute JSC ATOMPROEKT	

Appendix 10. Report of the Board of Directors on Performance Results (GRI 102-31, 102-33,102-34)

JSC ASE EC

According to JSC ASE EC Articles of Association, the main types of the Company's activities are such as: Activities in the area of architecture, engineering technical design in industry and construction including project management in construction; engineering survey for construction; construction of buildings and structures; production of civil works for NPP construction; R&D in the area of natural and technical science; activities in the area of NPP operability; conclusion and execution of contracts and agreements for implementation of intergovernmental agreements and investment projects for construction of nuclear power and industrial facilities abroad, development of nuclear research centres.

In the reporting year, upon suggestion of JSC ASE EC Board of Directors, the general Meeting of shareholders took the decisions about their agreement to conclude addenda to the Contract for construction of Paks-II NPP Units 5, 6 in Hungary which accounts for 57% of the volume of decisions taken by the supreme management body of JSC ASE EC in 2017.

34 meetings of the Board of Directors have been held in 2017 with decisions made on 60 agenda issues. The decisions have been taken for prioritized areas of activity, such as:

- Agreement to JSC ASE EC concluding an agreement to handover to the Company authorities of JSC ASE sole executive body (performing functions of the managing organization);
- on participation of JSC ASE EC in the Association "Self-regulating regional industrial association of employers "Association of Nizhny Novgorod builders";
- about participation of JSC ASE EC in the non-profit organization of the "Engineering and Construction Risk Institute" (ECRI);
- about JSC ASE EC participation in the Joint Stock company "ATOMPROEKT R&D Design Institute of Power Technologies" (JSC ATOMPROEKT)
- About inclusion of candidates voted by JSC ASE EC shareholders into the list of candidates to be voted as members of the BoD at the annual JSC ASE EC general meeting of shareholders;
- on approval of JSC ASE EC annual report for 2016;
- On approval of the JSC ASE EC annual accounting (financial accounting) by the results of 2016;
- on recommendation to the JSC ASE EC annual general meeting of shareholders on distribution of profits of JSC ASE EC including the amount of dividends for JSC ASE EC shares and the procedure of its payment and JSC ASE EC losses by the results of 2016;
- on approval of JSC ASE EC auditor and determination of remuneration of his services;
- on approval of the List of JSC ASE EC charity initiatives for 2017;
- About approval of budget and scheduled indices of the JSC ASE EC financial activities in 2017;
- on the consent to make transactions by the Company in cases stipulated by the Company's Articles of Association.

JSC ASE EC Board of Directors decisions in 2017

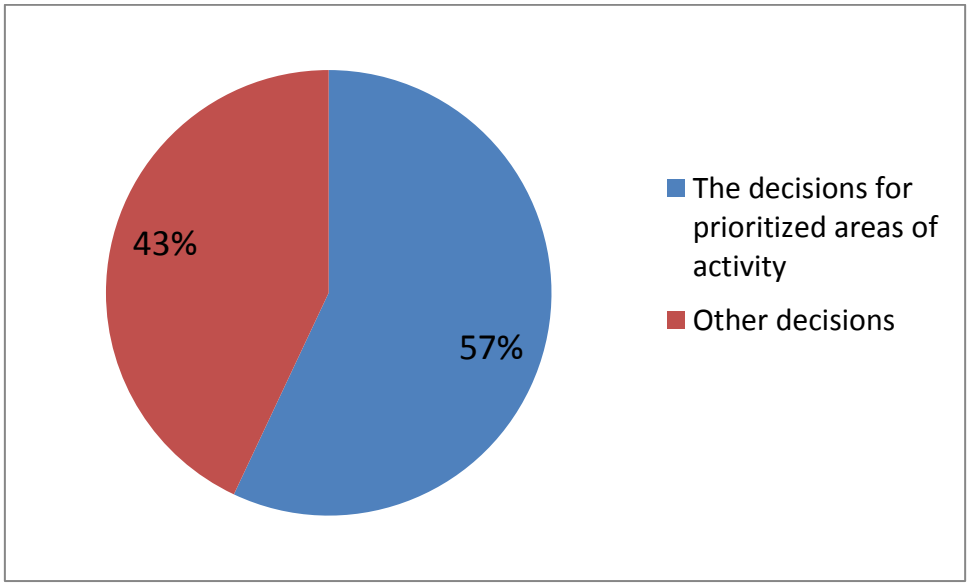


Table 4 List of meetings conducted in 2017 by the JSC ASE EC Board of Directors

No.	Date of meeting	Protocol number	Agenda:
1	18.01.2017	1	1. About agreement to conduct transactions related to alienation of JSC ASE EC of real property.
2	20.01.2017	2	1. On approval of the Provisions for the Kharkov Representative Office of the Joint Stock Company ASE Engineering Company in new revision 1.
3	30.01.2017	3	1. Authorization of JSC ASE EC transaction of the interested party
4	1/30/2017	4	1. About determination of the price of major transaction - contract for engineering procurement and construction (EPC-Contract) (Construction of Paks-II NPP (Units 5, 6) in Hungary) between MVM Paks, joint stock company for development of NPPs and the Joint Stock Company ASE Engineering Company (JSC ASE EC) (former title - Joint Stock Company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP). 2. About determination of repurchasing price of shares 3. On approval of the concluded major transaction, 4. On calling of a shareholders meeting of the Joint Stock Company ASE Engineering Company, JSC ASE EC (former name joint stock company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP) approval of its agenda and decision of other issues related to preparation to the next unscheduled general meeting of JSC ASE EC shareholders.
5	2/3/2017	5	1. About approval of Provisions for the Navashino Branch of the Joint-Stock Company ASE Engineering Company - "General Contractor's Directorate at the Nizhny Novgorod NPP" in new revision 1.
6	15.02.2017	6	1. On calling of a shareholders meeting of the Joint Stock Company ASE Engineering Company (JSC ASE EC), approval of its agenda and decision of other issues related to preparation to the next unscheduled general meeting of JSC ASE EC shareholders.
7	06.03.2017	7	1. About inclusion of candidates voted by JSC ASE EC - JSC Atomenergoprom and JSC ASE shareholders into the list of candidates to be voted as members of the BoD at the annual JSC ASE EC general meeting of shareholders;
8	15.03.2017	8	1. About approval of budget and scheduled indices of the JSC ASE EC financial activities in 2017;
9	23.03.2017	9	1. Agreement to JSC ASE EC concluding an agreement to handover to the Company authorities of JSC ASE sole executive body (performing functions of the managing organization);
10	24.03.2017	10	1. About agreement for conclusion by JSC ASE EC of a major transaction to conclude a loan contract with JSC ASE.
11	24.03.2017	11	1. About inclusion of candidates voted to be elected as members of the BoD at the unscheduled JSC ASE EC general meeting of shareholders 2. About approval of the form and text of the voting ballot for issues of the agenda of the unscheduled general meeting of JSC ASE EC shareholders

No.	Date of meeting	Protocol number	Agenda:
12	24.03.2017	12	1. Review and approval of the preliminary President's report about the Company's key performance indicators by the results of 2016
13	27.03.2017	13	1. About determination of the price of major transaction - contract for engineering procurement and construction (EPC-Contract) (Construction of Paks-II NPP (Units 5, 6) in Hungary) between MVM Paks, joint stock company for development of NPPs and the Joint Stock Company ASE Engineering Company (JSC ASE EC) (former title - Joint Stock Company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP). 2. About determination of repurchasing price of shares 3. On approval of the concluded major transaction, 4. On calling of a shareholders meeting of the Joint Stock Company ASE Engineering Company, JSC ASE EC (former name joint stock company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP) approval of its agenda and decision of other issues related to preparation to the next unscheduled general meeting of JSC ASE EC shareholders.
14	25.05.2017	13/1	1. On election of the Board of Directors of JSC ASE EC; 2. On election of the Chairman of meetings conducted by the Board of Directors of JSC ASE EC; 3. On election of Secretary of the Board of Directors of JSC ASE EC; 4. On approval of JSC ASE EC annual report for 2016; 5. On approval of the JSC ASE EC annual accounting (financial accounting) by the results of 2016; 6. on recommendation to the JSC ASE EC annual general meeting of shareholders on distribution of profits of JSC ASE EC including the amount of dividends for JSC ASE EC shares and the procedure of its payment and JSC ASE EC losses by the results of 2016; 7. On calling of annual shareholders meeting of the Joint Stock Company ASE Engineering Company (JSC ASE EC), approval of its agenda and decision of other issues related to preparation to the next unscheduled general meeting of JSC ASE EC shareholders.
15	26.05.2017	14	1. On approval of auditor of JSC ASE EC. 2. On definition of the amount of payment for the JSC ASE EC auditor services for the audit of accounting (financial) reports of the results of 2017
16	29.05.2017	15	1. Approval of transaction of JSC ASE EC related to provision of consulting services to the Company for the conclusion of contract for providing free services, between JSC ASE EC and A.T. Kearney BeteiligungsgesellschaftGmbH
17	5/31/2017	16	1. on approval of the List of JSC ASE EC charity initiatives for 2017;
18	01.06.2017	17	1. On approval of modifications and amendments No 1 to collective employment agreement of JSC NIAEP for 2015-2017 (Appendix No 1 to MoM of the Meeting of the Board of Directors).

No.	Date of meeting	Protocol number	Agenda:
19	05.06.2017	18	1. Review and approval of the President's preliminary report about the Company's key performance indicators by the results of 2016 2. Payment of bonus of president of JSC ASE EC for fulfillment of KPI.
20	08.06.2017	19	1. About agreement to conduct transactions related to alienation of JSC ASE EC of real property.
21	09.06.2017	20	1. Approval for JSC ASE EC to enter into a transaction to conclude an agreement with SMU No 1 on making an unremunerated contribution to the property of the limited liability company. 2. Approval for JSC ASE EC to enter into a transaction to conclude an agreement with Trust RosSEM on making an unremunerated contribution to the property of the limited liability company.
22	26.06.2017	21	1. Taking a decision about JSC ASE EC participation in the Association "Self-Regulating Regional Industrial Association of Employers "Association of Nizhny Novgorod construction workers"
23	13.07.2017	22	On election of the Board of Directors of JSC ASE EC; 2. On election of the Chairman of meetings conducted by the Board of Directors of JSC ASE EC; 3. On election of Secretary of the Board of Directors of JSC ASE EC; 4. About agreement for conclusion by JSC ASE EC of a transaction to conclude a loan contract with JSC "Energospetsmontazh"
24	21.07.2017	23	1. About determining of the price of the major transaction - Agreement about Financing of Engineering, Procurement and Construction of Paks NPP Units Nos. 5 and 6 Joint Stock Company ASE Engineering Company against the state credit allowed by the Government of the Russian Federation to the Government of Hungary, between the RF Ministry of Finance and the Joint Stock Company ASE Engineering Company (former name - Joint Stock Company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP). 2. About determination of repurchasing price of shares 3. On approval of the JSC ASE EC concluded major transaction 4. On calling of a shareholders meeting of the Joint Stock Company ASE Engineering Company, JSC ASE EC (former name joint stock company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP) approval of its agenda and decision of other issues related to preparation to the next unscheduled general meeting of JSC ASE EC shareholders.
25	26.07.2017	24	1. Accepting a decision about participation of JSC ASE EC in the non-profit organization of the "Engineering&ConstructionRiskInstitute" (ECRI);

No.	Date of meeting	Protocol number	Agenda:
26	04.08.2016	25	1. Proposal to the unscheduled general meeting of the Joint Stock Company ASE Engineering Company (JSC ASE EC) shareholders to take a decision about their agreement to commit a major transaction - conclusion between the RF Ministry of Finance and the Joint Stock Company ASE Engineering Company (former name - joint stock company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMPROEKT, JSC NIAEP) of the Agreement about financing of works of the joint stock Company ASE Engineering Company for engineering, procurement and construction of Paks NPP Units 5, 6 against the credit allowed by the RF Government to the Government of Hungary.
27	22.09.2017	26	1. Agreement about conclusion by JSC ASE EC of the transaction related to the donation of property for concluding a contract with the National Association of engineer consultants in construction (NAECC) about the target financing
28	25.09.2017	27	1. Agreement about conclusion by JSC ASE EC of the transaction related to the donation of property for concluding a contract with the All-Russian Specialized Association of Employers "Association of Employers of Nuclear Industry, Power and Science of Russia) (ARSAE AENIPSR) about allowing the free-of charge voluntary target contribution in cash.
29	27.09.2017	28	1. Agreement about conclusion by JSC ASE EC of the transaction related to the donation of property for concluding a contract with the Government of the Nizhny Novgorod Region and the State Autonomous Institution of the Nizhny Novgorod Region "Sport Training Center" (SAI NR STC) about JSC ASE EC making a financial donation to SAI NR STC to hold sport events of the Nizhny Novgorod region.
30	03.10.2017	29	1. About agreement for conclusion by JSC ASE EC of a transaction to conclude a loan contract with JSC "Energospetsmontazh"

No.	Date of meeting	Protocol number	Agenda:
31	16.10.2017	30	1. About determination of the price of major transaction - contract for engineering procurement and construction (EPC-Contract) (Construction of Paks-II NPP (Units 5, 6) in Hungary) between MVM Paks, Joint Stock Company for development of NPPs and the Joint Stock Company ASE Engineering Company (JSC ASE EC) (former title - Joint Stock Company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP). 2. About determination of repurchasing price of shares 3. On approval of the concluded major transaction, 4. On calling of a shareholders meeting of the Joint Stock Company ASE Engineering Company, JSC ASE EC (former name joint stock company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP) approval of its agenda and decision of other issues related to preparation to the next unscheduled general meeting of JSC ASE EC shareholders. 5. The proposal to the unscheduled general meeting of shareholders of the Joint-Stock Company ASE Engineering Company (JSC ASE EC) to take a decision about agreement to change the conditions of the major activity - conclusion between MVM Paks II joint stock company for NPP construction and the Joint-Stock company ASE Engineering Company (JSC ASE EC) (former name - joint stock company NIZHNY NOVGOROD ENGINEERING COMPANY ATOMENERGOPROEKT, JSC NIAEP) Addenda to the Contract for engineering, procurement and construction (EPC-Contract) "Construction of Paks II NPP (Units 5, 6) in Hungary).
32	22.11.2017	31	1. About agreement for conclusion by JSC ASE EC of a transaction to conclude a surety agreement with JSC ATOMPROEKT and JSC Atomenergoprom
33	25.12.2017	32	1. Agreement about conclusion by JSC ASE EC of the transaction related to the donation of property for concluding a target financing contract with the National Association of engineer consultants in construction (NAECC)
34	12/26/2017	33	1. Taking a decision about the Joint Stock Company ASE Engineering Company (JSC ASE EC) participation in the Joint Stock company "ATOMPROEKT R&D Design Institute of Power Technologies" (JSC ATOMPROEKT)

JSC ASE

In 2017 JSC ASE Board of Directors held 34 meetings where the following important decisions were taken:

- on approval of JSC ASE budget for 2017;
- on the offer to the sole shareholder of JSC ASE to take a decision on transfer of powers of the sole executive body of JSC ASE to the Managing company - JSC ASE EC, on approval of the terms of the agreement on delegation of authority of sole executive body of JSC ASE No. 7763/171268 between JSC ASE EC and JSC ASE;
- on approval of JSC ASE annual report for 2016 and JSC ASE annual accounting (financial) reporting for the results of 2016;
- on recommendations on profit distribution, including according to the amount of dividend on JSC ASE shares, and its payment procedure (following the results of the financial year of 2016);
- on approval of JSC ASE auditor for 2017 and determination of his services remuneration;
- on termination of JSC ASE participation in the Self-regulating organization of Association "Association of organizations conducting construction, modernization, overhaul of nuclear facilities "SOYUZATOMSTROY";
- on participation of JSC ASE in Association "Self-regulating regional industrial association of employers "Association of Nizhny Novgorod builders";
- About the JSC ASE withdrawal from JOINT STOCK COMPANY METSAMORENERGOATOM
- on approval of the List of charity initiatives of JSC ASE for 2017;
- on the change in the share of JSC ASE participation in the charter capital of JSC ASE EC by purchasing from the Joint-Stock Company "Nuclear power generation complex" ordinary registered uncertificated shares of JSC ASE;
- on participation of JSC ASE in the charter capital of Joint Stock Company "Power Technologies Research and Development Design Institute ATOMPROEKT" by purchasing from Joint Stock Company "Nuclear power generation complex" ordinary registered uncertificated shares of Joint Stock Company "Power Technologies Research and Development Design Institute ATOMPROEKT";
- on participation of JSC ASE in the charter capital of Public Joint Stock Company "Energospetsmontazh" by purchasing from Joint Stock Company "Nuclear power generation complex" ordinary registered uncertificated shares of the Public Joint Stock Company "Energospetsmontazh";
- on determination of the price of major transactions, on approval of conclusions on major transactions, on the offer to the sole shareholder to approve a major transaction concluded / take a decision on the consent to a major transaction;
- on the consent to make transactions by the Company in cases stipulated by the Company's Articles of Association.

JSC Atomenergoproekt

23 meetings of the BoD were conducted during the reporting period:

The following BoD decisions shall be considered as important:

- Liquidation of the Volgograd Project Branch Office of JSC Atomenergoproekt (BoD Minutes of Meeting No. 279 dd. 24.04.2017)
- JSC Atomenergoproekt participation in the JSC ASE EC charter capital by purchasing a common registered uncertified share from JSC Atomenergoprom (BoD Minutes of Meeting No. 292 dd 03.11.2017);
- About approval of the JSC Atomenergoproekt-JSC ASE agreement on paying-up of an unremunerated contribution to the joint-stock company property and agreement on commitment of this major transaction (BoD Minutes of Meeting No. 296 dd. 27.12.2017).

JSC ATOMPROEKT

In 2017, ASE Group of companies was successful in its activities having been transformed into a sole engineering company of the Rosatom State Corporation and a leading nuclear engineering company at the global market.

Within the reporting period the enhancement and improvement of competences of ASE United company at the international nuclear construction market was achieved through considerable efforts that delivered benefits to provide ASE Group of Companies with jobs for many years to come.

Currently JSC ASE is facing new challenges at the global market, while addressing these challenges depends largely on ASE Group of companies' abilities to fulfill timely and properly their obligations towards their partners within the budget limits. The company is one of the innovation leaders of the national nuclear industry and implements successfully the advanced technologies of complex engineering objects management in the current projects. Innovations, complete partner reliability and the highest quality of work are the main prerequisites of JSC ATOMPROEKT success in 2018.

JSC ATOMPROEKT Board of Directors is sure that the company's staff will retain its leadership on the upsurging global market of NPP construction and make as well a new impressive success to add to the portfolio both in traditional and new areas of activities.

Appendix 11. The information about major transactions and transactions with interest.

JSC ASE EC

Table 5 List of major transactions committed in 2017 and approved the JSC ASE EC managing bodies according to the Federal Law "About joint stock companies" and the Company's Articles of Association:

No No.	Parties of the transaction	Subject and other significant transaction conditions	The body that took the decision for the approval of the transaction
1	Creditor: JSC ASE Credited party: JSC ASE EC	The loan agreement according to which the Creditor grants cash and the Credited party commits itself to reimburse the received cash and pay interest under the following conditions: - maximum amount of aggregate debt at each moment of the load agreement duration cannot exceed 15 000 000 000 (fifteen billion) rubles; - amount of turned-over loans granted in the calendar year is not limited; - loans are granted on the basis of applications filed by the parties according to Appendix No. 2 to the loan agreement that are a prerequisite of the loan agreement; - the period of granting the loan is determined by the parties in the applications according to the form as per Appendix No. 2 to the loan agreement; - the Creditor is to be paid by the credited party an interest on each loan according to the rate established by the respective application bot not less than 4,5% (four point five) annual percent and not more than 10,5 (ten point five) annual percent in the order established by the loan agreement; - Loan contract validity period: 2 (two) years from the moment of its conclusion.	JSC ASE EC Board of Directors, Minutes of Meeting No. 10 dd. 24.03.2017
2	The RF Ministry of finance Contractor JSC ASE EC	The agreement about financing of works of Joint Stock Company ASE Engineering Company in the area of engineering, procurement and construction of Paks NPP Units 5, 6 against the state credit granted by the RF Government to the Government of Hungary according to which the Parties has established a procedure and conditions of financing out of the federal budget of the Supplier's product supplies, works and services that are provided for by the Contract for Engineering, procurement and construction (EPC-Contract) "Paks II NPP (Units 5,6) construction in Hungary" concluded by the Joint Stock Company for NPP development MVM Paks II (Owner) and the Contractor.	Shareholders' general meeting JSC ASE EC, Minutes of Meeting No. 20 dd.22.08.2017

From 01.01.2017 till 19.01.2017 JSC ASE EC did not commit any interested party transactions.

On 19.01.2017 new rev. No. 4 of the JSC ASE EC Articles of Association was registered that included a provision for non-application to the Company of Chapter XI of the Federal Law dd. 19.12.1995 No. 208-ФЗ "About joint stock companies (i. 3.10. Of Article 3 of the Articles of Association).

Table 6 List of transactions that the President and member of JSC ASE EC Board of Directors are interested in and that were committed in 2017 and approved by JSC ASE EC management bodies according to the Company's Articles of Association:

No No.	Parties of the transaction	Subject and other significant transaction conditions	The body that took the decision for the approval of the transaction
1	The Company: JSC ASE EC; Director: Limarenko Valery Igorevich	Addendum No. 8 to the Fixed-Term Employment Contract No. 393 dd. 22.12.2013 with Valery Igorevich Limarenko, President of JSC ASE EC according to the resolution of Rosatom State Corporation Strategic Council	JSC ASE EC Board of Directors, Minutes of Meeting No. 3 dd. 30.01.2017

According to JSC ASE EC Articles of Association, the Company is not covered by the provisions of Chapter XI of the Federal Law "On Joint Stock Companies" (transactions of interest).

JSC ASE

According to i.3.11 of applicable in 2017 revisions No. 10,11 of the Company's Articles of Association and applicable in the reporting period and currently revision No. 12 of the Company's Articles of Association Provision of Chapter XI " Interest in the company's transaction" of the Federal law No. 208-FZ dd. 26.12.1995 "About joint stock companies" are not applicable to JSC ASE. Proceeding from the above-said, in 2017 the Company's management bodies did not take a decision about agreement to commit/subsequent approval of transactions with interest.

Table 7 Report on major transactions completed by the Company in 2017*

Essential terms of the major transaction	The management body of the Company that took the decision for the approval of the transaction	Data of taking decision approving the transaction	Date of transaction
Parties of the transaction: Ministry of Finance of the Russian Federation (hereinafter - Ministry of Finance) The Contractor - Joint Stock Company Atomstroyexport; **Transaction subject** procedure and conditions of financing from the federal budget of the works performance foreseen by the General Contractor for construction of Rooppur NPP dated 25.12.2015 No 77-258/1414800 between Bangladesh Atomic Energy Commission and Joint Stock Company Atomstroyexport, considering additional agreements dated 6.05.2017 No 1, dated 16.05.2017 No 2 and dated 19.06.2017 No 3 thereto (hereinafter - the Contract). The main obligations of the contractor: 1. Ensure the performance of the works foreseen by the Contract (hereinafter - the works) before 31.12.2014, for the price of the Contract. 2. Ensure the achievement of the Russian share in the total cost of the performed works (hereinafter - the Russian share) the levels stipulated by the Agreement , by 31 December of each calendar year. By 31.12.2024 the above mentioned share shall be at least 70%. The Russian share is determined in the Agreement as "the ratio of the following values expressed in percent: - the cost of works performed by the contractor and/or subcontractors who are Russian legal entities; - the total cost of works performed under the Contract". 3. Not later than 1 September each year, inform the Ministry of Finance about the cost of the works planned for performance for the next calendar year for the Ministry of Finance to take into account the required amount in the Federal Law on State Budget of the Russian Federation for the relevant period. The Contractor is entitled to change the declared cost of the works performed in the current year of which the Contractor shall inform the Ministry of Finance not later than on the 1st of September of the current year. The Ministry of finance undertakes the obligation to finance the performed works from the state credit extended by the	Sole shareholder	8/31/2017	9/4/2017

Essential terms of the major transaction	The management body of the Company that took the decision for the approval of the transaction	Data of taking decision approving the transaction	Date of transaction
Government of the Russian Federation to the Government of the People's Republic of Bangladesh (the borrower) for the construction of the nuclear power plant in the People's Republic of Bangladesh, in Russian rubles, in the amount not exceeding the equivalent of 11 380 000 000 (eleven billion three hundred and eighty million) US dollars 00 cents. If the levels of the Russian share is not achieved within the time frame stipulated in the Agreement, only the Russian share shall be paid in the amount of 90% of each invoice. The Ministry of Finance is entitled to suspend the financing of the works (with the exception of the actually performed works whose documents have been accepted by the customer (Bangladesh Atomic Energy Commission) and whose amounts are reflected by the agent (state corporation Bank for Development and Foreign Economic Affairs (Vnesheconombank) as the borrower's debt under the state credit), in case of the borrower's failure to perform its obligations to repay the State Credit and/or interest under the State Credit, of which it shall inform the contractor within 5 (five) working days from the date of taking the relevant decision. Payments in favor of the contractor for the works performed shall be effected by the Ministry of finance within the budgetary allocations foreseen for these purposes in the federal budget for the relevant financial year. The payments to the contractor shall be made in the following way: The contractor shall submit to the agent the duly issued documents foreseen by the Contract, and the Ministry of finance shall within 10 (ten) working days after the receipt of the written confirmation of the agent about the utilization by the borrower of the relevant part of the state credit (in case of receipt from the agent of the information about the Russian share in the amount of each invoice submitted by the contractor for payment) make payments to the contractor by means of transfer of budget funds in favor of the contractor. The payment amount shall be determined by the Ministry of Finance on the basis of written information of the agent about the amount in US dollars specified in the relevant invoice paid due to the utilization by the borrower of the state credit, applying the exchange rate of the Russian ruble to US dollars of the Central Bank of the Russian Federation on the date of disbursement of the budget funds from the account of the Ministry of Finance. In case of failure to perform or undue performance by the parties of the undertaken obligations, the ties shall be liable in accordance with the legislation of the Russian Federation and the Agreement. **Transaction price** Is determined in the amount of financing by the Ministry of Finance of the performed works foreseen by the Contract, from the state credit extended by the Government of the Russian Federation to the Government of the Republic of Bangladesh, in Russian rubles in the amount not exceeding the equivalent 1 380 000 000 (eleven billion three hundred and eighty million) US dollars. The payment of all bank charges related to the remittance to the contractor of the due amounts of the budget funds in accordance with the Agreement, shall be borne by the Contractor.			

* This report does not contain any information about the approval of one large transaction (concluded on 31.12.2016, approved by the decision of sole shareholder of JSC ASE on 29.06.2017 No 6-KT) because it contains commercial secret of the Company.

Other transactions approved by the management bodies of the Company in accordance with the procedure of approval of large transactions, were not made.

JSC Atomenergoproekt

The criterion for referring transactions to the category of large transactions, is the price of the transaction which shall be equal or exceed 25% of the balance value of the assets of the Company determined on the basis of accounting reports on the last reporting date.

Table 8 Report on major transactions completed by the Company in 2017

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
1	General Contractor - Atomenergoproekt JSC The Customer – JSC Concern Rosenergoatom	Additional agreement No.16-76 dd. 26.10.2016 to the contract for construction of Novovoronezh NPP-2 power units 1 and 2 dd. 15.08.2008 reg. No. 2008/23.1/29946 (No. 08108/378) in the revision of the Agreement No. 9-1 dd. 22.02.2011 reg. № 2008/23.1/29946-11. Transaction subject The Parties finalize the Price of Works and services to be performed in 2016 under the contract for construction of Novovoronezh NPP-2 power units 1 and 2 dd. 15.08.2008 reg. No. 2008/23.1/29946 (No. 08108/378) in the revision of the Agreement No. 9-1 dd. 22.02.2011 reg. No. 2008/23.1/29946-11.	Price of Works and services to be performed in 2016: In the basic prices of the year of 2000 2 970 288 726 (two billion none hundred and seventy million two hundred and eighty eight thousand seven hundred and twenty six) rubles, at the current level of prices 29 137 013 228 (twenty nine billion one hundred and thirty seven million thirteen thousand two hundred and twenty eight) rubles plus VAT (18 %) – 5 244 662 381, 04 (five billion two hundred and forty four million six hundred and sixty two thousand three hundred and eighty one) rubles 04 kopecks, totally - 34 381 675 609, 04 (thirty four billion three hundred and eighty one million six hundred and seventy five thousand six hundred and nine) rubles 04 kopecks.	The extraordinary general shareholders' meeting (MoM dated 09.01.2017 № 1)
2	**General Contractor** is the Joint Stock Company Atomenergoproekt; Contractor -Joint-Stock Company United Power Constructing Corporation;	Additional agreement No 34 to Contract dated 12.02.2009 No 103//08108/378 C8. Transaction subject Due to modification of the current price under contract dated 12.02.2009 No103//08108/378 C8 in the wording of additional agreement No 5 (hereinafter - the Contract) for performance of the full scope of civil and erection works and other works at the facilities specified in the "List of buildings and structures of Novovo\-2 with Units No 1 and 2 performed by Joint-Stock Company United Power Constructing Corporation (appendix No 7 of additional agreement no 16 to the Contract) the Parties have agreed to make the following amendments in the Contract:	"The cost of works under the Contract (Cost of Works) is preliminary, it amounts, in the basic level of prices of 2000, 3 371 268 633 (three billion three hundred and seventy one million two hundred and sixty eight thousand six hundred and thirty three) rubles, in the current prices - 30 414 052 000 (thirty billion four hundred and fourteen million fifty two thousand) rubles, plus VAT (18%) in the amount of 5 474 529 360	The extraordinary general shareholders' meeting (MoM dated 09.01.2017 No. 1)

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
		1. Item 3.1 shall have the following wording: "The cost of works under the Contract (Cost of Works) is preliminary, it amounts, in the basic level of prices of 2000, 3 371 268 633 (three billion three hundred and seventy one million two hundred and sixty eight thousand six hundred and thirty three) rubles, in the current prices - 30 414 052 000 (thirty billion four hundred and fourteen million fifty two thousand) rubles, plus VAT (18%) in the amount of 5 474 529 360 (five billion four hundred and seventy four million five hundred and twenty nine thousand three hundred and sixty), totally - 35 888 581 360 (thirty five billion eight hundred and eighty eight million five hundred and eighty one thousand three hundred and sixty) rubles. The cost of works performed as of 01.10.2016 in the basic prices of 200 was 3 336 605 375 (three billion three hundred and thirty six million six hundred and five thousand three hundred and seventy five) rubles, at the current price level - 35 498 043 003 (thirty five billion four hundred and ninety eight million forty three thousand three) rubles 38 kopecks, including VAT - 5 414 955 712 (five billion four hundred and fourteen million nine hundred and fifty five thousand seven hundred and twelve) rubles 38 kopecks. The cost of works that have not been performed but are due for performance: In basic prices of 2000 - 34 663 258 (thirty four million six hundred and sixty three thousand two hundred and fifty eight) rubles, at the current price level - 330 964 709 (three hundred and thirty million nine hundred and sixty four thousand seven hundred and nine) rubles plus VAT 59 573 647 (fifty nine million five hundred and seventy three thousand six hundred and forty seven(rubles 62 kopecks - totally 390 538 356 (three hundred and ninety million five hundred and thirty eight thousand three hundred and fifty six) rubles 62 kopecks. The Price of Works under the Contract with the current price level is preliminary. The price of the works under the Contract at the current price level shall be specified in accordance with the Procedure of determining the price of works and services (Appendix No 2 to the Agreement) by signing Additional Agreements)".	(five billion four hundred and seventy four million five hundred and twenty nine thousand three hundred and sixty), totally - 35 888 581 360 (thirty five billion eight hundred and eighty eight million five hundred and eighty one thousand three hundred and sixty) rubles.	

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
3	The lender - Joint Stock Company Atomstroyexport; The Borrower - Atomenergoproekt JSC	Loan Agreement Transaction subject The Lender provides a sum of money as a loan (hereinafter - Loan) on the whole or in parts, total loan amount of which at each moment of loan contract validity period can not exceed 15 100 000 000 (Fifteen billion one hundred million) RUR, and the Borrower undertakes to return the received sum of money and to pay interest for it. The Lender shall provide cashless Loan by money transfer in whole or in parts in compliance with written Applications of Borrower at his settlement account specified in the Borrower's Application. The Loan/part of the loan shall be considered as provided from the date of money crediting under the Application to the Borrower 's settlement account. Contract validity period The Contract is considered to be concluded after the first remittance of funds at the account of the Borrower under the first Request, and shall be valid until 25 January 2019.	Loan shall be provided at the interest rate of at least 3 (three) annual percent and not more than 10,80 (ten point eight) annual percent from the amount of provided money.	Board of Directors (MoM dated 19.01.2017 No. 274)
4	Contractor -Joint-Stock Company United Power Constructing Corporation; The General Contractor. Joint Stock Company Atomenergoproekt»	The Contract dated 19.01.2015 No 554/08108/378 ДС15 considering additional agreement No 11 dated 20.02.2017. Transaction subject Due to the modified current cost of the works performance, in accordance with clause 3.1 of Contract dated 19.01.2015 No 554/08108/378 ДС15 concluded between Joint-Stock Company United Power Constructing Corporation (the Contractor) and Joint Stock Company Atomenergoproekt (The General Contractor) for the performance of civil and erection works for the construction of facilities of power unit No 1 of Novovoronezh NPP-2, approve large transaction - contract dated 19.01.2015 No 554/08108/378 ДС15 considering additional agreement No 11 dated 20.02.2017 with the total price of the transaction 10 815 696 045 (ten billion eight hundred and fifteen million six hundred and ninety six thousand forty five) rubles 08 kopecks including VAT 18%.	10 815 696 045 (ten billion eight hundred and fifteen million six hundred and ninety six thousand forty five) rubles 08 kopecks including VAT 18%.	Board of Directors (MoM Dated 27.03.2017 No. 277)
5	The Contractor - Public Joint Stock Company Atomstroyexport; General Contractor -	The Contract dated 26.04.2011 No 259//08108/378 ДС11 considering additional agreement No 23. Due to modification of the scopes and limits of the works under OSR 2-29A to be performed under Contract dated 26.04.2011 No 259//08108/378 ДС11 and modification of the current cost of the works	Due to modification of the scopes and limits of the works under OSR 2-29A to be performed under Contract dated 26.04.2011 No 259//08108/378 ДС11 and modification of the current cost of the	Board of Directors (MoM Dated 19.07.2017 No. 285)

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
	Joint Stock Company Atomenergoproekt;	under the Contract in accordance with clause 3.1 of the Contract dated 26.04.2011 No 259//08108/378 ДС11 and sub-clause 2.2 of Appendix No 5 “Procedure of determining the price of works and services” to Additional Agreement No 21 to Contract dated 26.04.2011 No 259//08108/378 ДС11 in the wording of Appendix No 4 to Additional Agreement No 23, by means of specifications of the applied recalculation indexes for types of works and costs, the Parties decided to make the following amendments to Contract dated 26.04.2011 № 259//08108/378 ДС11: 1. Sub-clause 3.1. shall have the following wording: “31. The cost of works under the Contract (cost of Works) is determined on the basis of “Calculation of the price of works and services” and amounts, in basic price level of 2000, to 1 025 565 672 (one billion twenty five million five hundred and sixty five thousand six hundred and seventy two) rubles, with the current price level considering the agreed coefficient 0,9848 – 9 289 085 671 (nine billion two hundred and eighty nine million eighty five thousand six hundred and seventy one) rubles 00 kopecks, plus VAT 18% in the amount of 1 672 035 420 (one billion six hundred and seventy two million thirty five thousand four hundred and twenty) rubles 789 kopecks, in total - 10 961 121 091 (ten billion nine hundred and sixty one million one hundred and twenty one thousand ninety one) rubles 78 kopecks. The cost of the works performed as of 01.01.2017 in the basic prices of 2000 was 848 342 673 (eight hundred and forty eight million three hundred and forty two thousand six hundred and seventy three)rubles, with the current price level - 8 866 079 434 (eight billion eight hundred and sixty six million seventy nine thousand four hundred and thirty four) rubles 02 kopecks, including VAT (18%) - 1 352 452 795 (one billion three hundred and fifty two million four hundred and fifty two thousand seven hundred and ninety five) rubles 02 kopecks. The cost of the works performed in 2017 (as of 01.03.2017) in the basic prices of 2000 was 17 266 606 (seventeen million two hundred and sixty six thousand six hundred and six) rubles, with the current price level - 203 330 418 (two hundred and three million three hundred thirty thousand four hundred and eighteen) rubles 52 kopecks, including VAT (18) - 31 016 504 (thirty one million sixteen thousand five hundred and	works under the Contract in accordance with clause 3.1 of the Contract dated 26.04.2011 No 259//08108/378 ДС11 and sub-clause 2.2 of Appendix No 5 “Procedure of determining the price of works and services” to Additional Agreement No 21 to Contract dated 26.04.2011 No 259//08108/378 ДС11 in the wording of Appendix No 4 to Additional Agreement No 23, by means of specifications of the applied recalculation indexes for types of works and costs, the Parties decided to make the following amendments to Contract dated 26.04.2011 № 259//08108/378 ДС11: 1. Sub-clause 3.1 shall have the following wording: “3.1. The cost of works under the Contract (cost of Works) is determined on the basis of “Calculation of the price of works and services” and amounts, in basic price level of 2000, to 1 025 565 672 (one billion twenty five million five hundred and sixty five thousand six hundred and seventy two) rubles, with the current price level considering the agreed coefficient 0,9848 – 9 289 085 671 (nine billion two hundred and eighty nine million eighty five thousand six hundred and seventy one) rubles 00 kopecks, plus VAT 18% in the amount of 1 672 035 420 (one billion six hundred and seventy two million thirty five thousand four hundred and twenty) rubles 789 kopecks, in total - 10 961 121 091 (ten billion nine hundred and sixty one million one hundred and twenty one	

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
		four) rubles 52 kopecks. The cost of works to be performed in 2017 will amount, in basic prices of 2000, to 159 956 393 (fine hundred and fifty nine million nine hundred and fifty six thousand three hundred and ninety three) rubles, with the current price level - 1 603 145 118 (one billion six hundred and three one hundred and forty five thousand one hundred and eighteen) rubles 00 kopecks, plus VAT (18%) - 288 566 121 (two hundred and eighty eight million five hundred and sixty six thousand one hundred and twenty one) rubles 24 kopecks, in total - 1 891 711 239 (one billion eight hundred and ninety one million seven hundred and eleven thousand two hundred and thirty nine) rubles 24 kopecks. The price of the works under the Contract at the current price level is preliminary and shall be specified in accordance with the Procedure of determining the price of works and services (Appendix No 4 to the Agreement) by signing Additional Agreements)". The scope of works are performed under additional agreement No 17-80 dated 24.01.2017 in the version of additional agreement No 17-79 dated 03.02.2017 to Contract dated 15.08.2008 № 08108/378 in the version of Agreement No 0-1 (the Customer is Rosenergoatom Concern) for the construction of Novovoronezh NPP-2 consisting of units NO 1 and 2".	thousand ninety one) rubles 78 kopecks. The cost of the works performed as of 01.01.2017 in the basic prices of 2000 was 848 342 673 (eight hundred and forty eight million three hundred and forty two thousand six hundred and seventy three)rubles, with the current price level - 8 866 079 434 (eight billion eight hundred and sixty six million seventy nine thousand four hundred and thirty four) rubles 02 kopecks, including VAT (18%) - 1 352 452 795 (one billion three hundred and fifty two million four hundred and fifty two thousand seven hundred and ninety five) rubles 02 kopecks. The cost of the works performed in 2017 (as of 01.03.2017) in the basic prices of 2000 was 17 266 606 (seventeen million two hundred and sixty six thousand six hundred and six) rubles, with the current price level - 203 330 418 (two hundred and three million three hundred thirty thousand four hundred and eighteen) rubles 52 kopecks, including VAT (18) - 31 016 504 (thirty one million sixteen thousand five hundred and four) rubles 52 kopecks. The cost of works to be performed in 2017 will amount, in basic prices of 2000, to 159 956 393 (fine hundred and fifty nine million nine hundred and fifty six thousand three hundred and ninety three) rubles, with the current price level - 1 603 145 118 (one billion six hundred and three one hundred and forty five thousand one hundred and eighteen) rubles 00	

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
			kopecks, plus VAT (18%) - 288 566 121 (two hundred and eighty eight million five hundred and sixty six thousand one hundred and twenty one) rubles 24 kopecks, in total - 1 891 711 239 (one billion eight hundred and ninety one million seven hundred and eleven thousand two hundred and thirty nine) rubles 24 kopecks. The price of the works under the Contract at the current price level is preliminary and shall be specified in accordance with the Procedure of determining the price of works and services (Appendix No 4 to the Agreement) by signing Additional Agreements)". The scope of works are performed under additional agreement No 17-80 dated 24.01.2017 in the version of additional agreement No 17-79 dated 03.02.2017 to Contract dated 15.08.2008 № 08108/378 in the version of Agreement No 0-1 (the Customer is Rosenergoatom Concern) for the construction of Novovoronezh NPP-2 consisting of units NO 1 and 2".	
6	Lender - Joint Stock Company Nuclear Power Generation Complex, Borrower - Joint Stock Company Atomenergoproekt.	Loan Agreement Subject of the Contract: The Lender provides a sum of money as a loan (hereinafter - Loan) on the whole or in parts, total loan amount of which at each moment of loan contract validity period (not considering the accrued interest for the use of loan and the delayed payments) can not exceed 11 000 000 000 (Eleven billion) RUB, and the Borrower undertakes to return the received sum of money and to pay interest for it at the time and in the manner foreseen in the contract. Loan under the Contract shall be provided at the interest rate of at	The loan shall be provided at the interest rate of at least 4.5 (four point five) annual percent and not more than 9,7 (ten point eight) annual percent from the amount of provided money.	Board of Directors (MoM Dated 30.10.2017 No. 291)

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
		least 4.5 (three) annual percent and not more than 9,7 (twelve point eight) annual percent from the amount of provided money. The Lender shall provide cashless Loan by money transfer in whole or in parts in compliance with written Applications of Borrower at his settlement account specified in the Borrower's Application. The Loan/part of the loan shall be considered as provided from the date of money crediting under the Application to the Borrower 's settlement account. Contract validity period. The Contract is considered to be concluded after the first remittance of funds at the account of the Borrower under the first Request, and shall be valid until 31 July 2020.		
7	The Contractor is Public Joint Stock Company Energospetsmontazh; **General Contractor** is the Joint Stock Company Atomenergoproekt;	Additional agreement No 25 to Contract dated 6.04.2011 No 259//08108/378 ДС11. Transaction subject To ensure the completion of civil and erection works within the deadlines stipulated in Appendix No 1 "1st level schedule for construction of power unit No 2 of Novovoronezh NPP-2 to additional agreement dated 16.08.2017 No 17-93 to Contract dated 15.08.2008 No 08108/378, concluded between Russian Concern for heat and electricity generation at nuclear power plants Rosenergoatom and JSC Atomenergoproekt, in the version of Agreement No 9-1 on the basis of revision of budget documentation, the parties agreed to modify the scope and deadlines of the works performance and introduce the following amendments in the Contract: 1. Item 3.1 shall have the following wording: "The cost of the work under the Agreement (the Price of Works) is determined based on the calculation of the price of Works and services and amounts as the benchmark price of year 2000 to 1,022,112,146 (one billion twenty-two million one hundred and twelve thousand one hundred and forty-six) rubles, at the current level prices taking into account the contractual coefficient 0.9848, it amounts to 10,876,410,666 (ten billion eight hundred seventy six million four hundred ten thousand six hundred and sixty-six) rubles 50 kopecks, including 18% VAT in the amount of 1,659,113,491 (one billion six hundred and fifty nine million one hundred and thirteen thousand four hundred and ninety-one) rubles 50 kopecks. The Price of Works under the Contract with the current price level is	"The cost of the work under the Agreement (the price of works) is determined based on the calculation of the price of works and services and amounts as the benchmark price of year 2000 to 1,022,112,146 (one billion twenty-two million one hundred and twelve thousand one hundred and forty-six) rubles, at the current level prices taking into account the contractual coefficient 0.9848, it amounts to 10,876,410,666 (ten billion eight hundred seventy six million four hundred ten thousand six hundred and sixty-six) rubles 50 kopecks, including 18% VAT in the amount of 1,659,113,491 (one billion six hundred and fifty nine million one hundred and thirteen thousand four hundred and ninety-one) rubles 50 kopecks. The Price of Works under the Agreement with the current price level is preliminary. The price of the works under the Agreement at the current price level shall be specified in accordance with the Procedure of determining the price of	Board of Directors (MoM Dated 23.11.2017 No. 294)

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
		preliminary. The price of the works under the Contract at the current price level shall be specified in accordance with the Procedure of determining the price of works and services by signing Additional Agreements. 2. Sub-clause 6.1 of the Contract shall have the following wording: Commencement of the works - 26.04.2011; Completion of the works: 05.10.2018. The time periods of Works execution including intermediate ones are specified in the Level 3 Work process Schedule. 3. The cost of works performed as of October 1, 2017, was 936 263 391 (nine hundred and thirty six million two hundred and sixty - three thousand three hundred and ninety-one) rubles as the benchmark price of year 2000, at the current price level it amounts to 9 830 680 001 (nine billion eight hundred and thirty million six hundred and eighty thousand one) ruble 46 kopecks, including VAT - 1 499 595 254 (one billion four hundred and ninety- nine million five hundred and ninety- five thousand two hundred and fifty- four) rubles 46 kopecks. The cost of works to be performed in 2017 will amount: as the benchmark price of year 2000 to 69 684 314 (sixty- nine million six hundred and eighty- four thousand three hundred and fourteen) rubles, at the current price level to 846 168 058 (eight hundred and forty- six million one hundred and sixty- eight thousand fifty-eight) rubles 50 kopecks, including VAT equal to 129 076 483 (one hundred and twenty-nine million seventy -six thousand four hundred and eighty- three) rubles 50 kopecks. The cost of works to be performed in 2018 will amount: as the benchmark price of year 2000 to 16 164 441 (sixteen million one hundred and sixty-four thousand four hundred and forty-one) rubles, in the current price level to 199 562 606 (one hundred and ninety-nine million five hundred and sixty-two thousand six hundred and six) rubles 54 kopecks, including VAT equal to 30 441 753 (thirty million four hundred and forty- one thousand seven hundred and fifty- three) rubles 54 kopecks. 4. Conclusion of Addendum No. 25 to the Agreement shall not relieve the Contractor from responsibility provided for by the Contract for the failure to perform its obligations in the time earlier stipulated by the	works and services by signing Additional Agreements". The cost of works performed as of October 1, 2017, was 936 263 391 (nine hundred and thirty six million two hundred and sixty - three thousand three hundred and ninety-one) rubles as the benchmark price of year 2000, at the current price level it amounts to 9 830 680 001 (nine billion eight hundred and thirty million six hundred and eighty thousand one) ruble 46 kopecks, including VAT - 1 499 595 254 (one billion four hundred and ninety- nine million five hundred and ninety- five thousand two hundred and fifty- four) rubles 46 kopecks. The cost of works to be performed in 2017 will amount: as the benchmark price of year 2000 to 69 684 314 (sixty- nine million six hundred and eighty- four thousand three hundred and fourteen) rubles, at the current price level to 846 168 058 (eight hundred and forty- six million one hundred and sixty- eight thousand fifty-eight) rubles 50 kopecks, including VAT equal to 129 076 483 (one hundred and twenty- nine million seventy -six thousand four hundred and eighty-three) rubles 50 kopecks. The cost of works to be performed in 2018 will amount: as the benchmark price of year 2000 to 16 164 441 (sixteen million one hundred and sixty-four thousand four hundred and forty-one) rubles, in the current price level to 199 562 606 (one hundred and ninety-nine	

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
		Agreement. The General Contractor reserves the right to lay claims to recovery of penalties and damages, the penalties are imposed from the moment of breaching the deadlines earlier stipulated by the Agreement up to the moment of works completion. 5. The following documents shall be considered as invalid: Appendix No. 1 "NPP Construction Schedule, level 3" of Addendum No. 23 dd. 01.08.2017 to the Agreement; Appendix No. 2 "Calculation of price of Works and Services of Addendum No. 23 dd. 01.08.2017 to the Agreement; Appendix No. 3 "Schedule of financing/expenditures in 2017" of Addendum No. 23 dd. 01.08.2017 to the Agreement; Appendix No. 5 "Topical plan for execution of works in 2017" of Addendum No. 23 dd. 01.08.2017 to the Agreement; 6. The following documents shall be made effective: The NPP Construction Schedule, Level 3, according to Appendix No.1 to Addendum 25 to the Agreement; Calculation of the price of Works and services according to Appendix No.2 to Addendum 25 to the Agreement; "Schedule of financing/expenditures in 2017" according to Appendix No.3 to Addendum 25 to the Agreement; Topical plan for execution of CEW and expenditure of capital investments in 2017 according to Appendix No.4 to Addendum 25 to the Agreement; Deadlines for the works completion: Commencement of the works - 26.04.2011; Completion of the works: 05.10.2018. The time periods of Works execution including intermediate ones are specified in the Level 3 Work process Schedule.	million five hundred and sixty-two thousand six hundred and six) rubles 54 kopecks, including VAT equal to 30 441 753 (thirty million four hundred and forty- one thousand seven hundred and fifty- three) rubles 54 kopecks.	
8	The Customer - Joint stock company "Russian Concern for Heat and Electricity Generation at Nuclear Power Plants" **General Contractor** is the Joint Stock	Additional agreement to the contract for construction of Novovoronezh NPP-2 power units 1 and 2 dd. 15.08.2008 reg. No. 2008/23.1/29946 (No. 08108/378) in the revision of the Agreement No. 9-1 dd. 22.02.2011 reg. No. 2008/23.1/29946-11. According to the decision of the Rosatom State Corporation Operational committee (MoM of the Rosatom State Corporation No. 1-ОК/60-Пр dd. 13.11.2017) and i. 34.1 of the Agreement, the Parties have achieved an agreement to introduce the following changes into the agreement.	The amount of reduction of the current cost of performed CEW under the contract based on application from 01.01.2017 of the decreasing coefficient in the amount of 0,379 proceeding from the additional necessary amount of cash for completion of CEW in the amount of 13.37 bln. Rubles to the current cost of	The extraordinary general shareholders' meeting (MoM dated 27.12.2017 No. 6)

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
	Company Atomenergoproekt;	In order to ensure the approved parameters of the limit value of Novovoronezh NPP-2 with power units No. 1 and 2, approved by the Minutes of Meeting in absentia of the Rosatom State Corporation Operational Committee No. 1-OK/27-Pr. dd.19.05.2015 , the parties have agreed during determination of cost of the completed CEW to apply from 01.01.2017 a decreasing coefficient in the amount of 0,379 proceeding from the additional necessary amount of cash to complete the CEW in the amount of 13.37 bln. Rub. to the current cost of the CEW to chapters 1-8 of the Consolidated bill of quantities with account of additional costs during production of CEW in winter. In view of i. 1.1 of this Addendum to the Agreement, the Parties shall introduce changes into the primary accounting documents, prepared by the parties within the period from 01.01.2017 till the date of signing of this Addendum to the Agreement. The order of changes into the initial accounting documents shall be determined by the Parties by a separate Addendum. The conditions of this additional agreement are to be applied only to CEW for construction of Novovoronezh NPP-2 Power unit No. 2 that were conducted by the General contractor from 01.01.2017 according to the agreement and cannot be considered as the General Contractor's agreement to apply these conditions to other agreements concluded between the Customer and the General Contractor or his affiliated persons. Validity period: Addendum to the Agreement is concluded under the suspensive condition that the general meeting of the General Contractor's shareholders should take a decision about its agreement to make a major transaction the subject of which is a property whose cost is more than 50% of the balance cost of the Company's assets that are established according to the accounting (financial accounting) data as of the last reporting date according to Article 79 of the Federal law No. 208-FZ dd. 26.12.1995 "On joint stock companies", subclause 9 of clause 12.1 of the Articles of Association of JSC Atomenergoproekt is put in force from the moment of taking the mentioned decision and covers the parties' relations from 01.01.2017 and is applicable according to the Agreement's conditions.	CEW as per chapters 1-8 of the Consolidated bill of quantities with account of additional costs during production of CEW in winter in order to ensure the approved parameters of the limit value of construction Novovoronezh NPP-2 with units 1, 2 approved by the Minutes of Meeting in absentia of the Rosatom State Corporation Operational committee No. 1-OK/27-Pr. dd. 19.05.2015.	

No No.	Parties of the transaction	Subject and other significant transaction conditions.	Transaction price	The body that took the decision on approval of transaction
9	Shareholder - Joint Stock Company Atomstroyexport; Company - Joint Stock Company Atomenergoproekt;	The Agreement on paying-up of an unremunerated contribution to the joint-stock company property Transaction subject Joint stock Company "Atomstroyexport"as a shareholder of JSC Atomstroyexport according to Article 32.2 of the Federal Law No. 208-FZ dd. 26.12.1995 "About joint stock companies" subclause 11 of Clause 1 of Article 251 of the RF Tax code in order to finance and maintain JSC Atomenergoproekt activities transfers without compensation to the JSC Atomenergoproekt a contribution provided for by this contract and the Joint stock company Atomenergoproekt accepts the contribution. As a contribution the JSC Atomstroyexport transfers cash in the amount of 8 240 000 000 (eight billion two hundred and forty million) rubles 00 kopecks. This contribution does not change the share of jsc Atomstroyexport does not increase the registered capital of JSC Atomstroyexport and does not change the nominal value of the JSC Atomstroyexport share in the registered capital of JSC Atomstroyexport. Time of transfer of contribution JSC Atomstroyexport transfers to contribution to JSC Atomenergoproekt before 31.12.2017 inclusive.	8 240 000 000 (eight billion two hundred and forty million) rubles 00 copecks.	Board of Directors (MoM dated 27.12.2017 No. 296)

JSC ATOMPROEKT

In accordance with item 3.11 of the Articles of Association of JSC ATOMPROEKT, the provisions of Chapter XI of Federal Law "On Joint Stock Companies" that determine the terms and conditions of the transactions in relation to which there is an interest, and the procedure of approval foreseen for transactions in relation to which there is an interest, shall not be applicable for the Company.

No major transactions were made by JSC ATOMPROEKT in the reporting period.

Appendix 12. Additional information to chapter "Human capital"

Table *Trend of the total manpower, pers.

Name of legal entity	2015 actual	2016 actual	2017 (planned)	2017 actual	Δ (2017-2016)/ 2016, %	2018 (planned)	2019 (planned)	2020 (planned)	2021 (planned)	2022 (planned)
JSC ASE	749	504	784	637	26	968	1,126	1,405	1,468	1,485
JSC ASE EC	4,057	4,349	4,591	4,635	7	5,068	5,177	5,131	4,908	4,799
JSC Atomenergoproekt	2,806	2,409	2,303	2,497	4	2,522	2,431	2,242	2,177	2,177
JSC ATOMPROEKT	3,150	2,086	1,966	2,292	10	2,333	2,333	2,333	2,333	2,333
JSC NIKIMT-Atomstroy	2,058	1,708	1,723	2,163	27	2,053	1,738	2,128	1,873	1,873
PJSC Energospezmontazh	2,726	1,964	2,168	2,412	23	2,076	2,447	2,856	3,317	3,136
LLC Trest RosSEM	2,209	1,542	1,467	2,031	32	3,253	3,917	4,154	4,303	3,896
Total manpower of the Engineering Division	17,755	14,562	15,502	16,667	14	18,273	19,168	20,248	20,378	19,698

Table *Total manpower in the breakdown by gender, age and employees categories, pers.*

Company	Employees categories	Total number of personnel											
		Reporting period											
		TOTAL:		Share of employees under 35	Under 35 y.o			36-50 y.o			Over 50 y.o		
		planned	actual		m	f	total	m	f	total	m	f	total
JSC ASE	Heads	**218**	**163**	10.4%	6	11	**17**	42	24	**66**	77	3	**80**
	Specialists	**524**	**434**	32.3%	74	66	**140**	90	77	**167**	71	56	**127**
	Other office staff	**0**	**0**	0.0%	0	0	**0**	0	0	**0**	0	0	**0**
	Workers	**38**	**39**	25.6%	10	0	**10**	12	0	**12**	17	0	**17**
	other**	**4**	**1**	0.0%	0	0	**0**	1	0	**1**	0	0	**0**
	In total	**784**	**637**	26.2%	**90**	**77**	**167**	**145**	**101**	**246**	**165**	**59**	**224**

JSC ASE EC	Heads	**673**	**679**	14.6%	78	21	**99**	204	96	**300**	190	90	**280**
	Specialists	**3,569**	**3,603**	49.0%	885	880	**1,765**	514	672	**1,186**	300	352	**652**
	Other office staff	**43**	**44**	18.2%	0	8	**8**	1	18	**19**	1	16	**17**
	Workers	**302**	**305**	21.6%	47	19	**66**	105	19	**124**	97	18	**115**
	other	**4**	**4**	50.0%	1	1	**2**	0	0	**0**	0	2	**2**
	In total	**4,591**	**4,635**	41.9%	**1,011**	**929**	**1,940**	**824**	**805**	**1,629**	**588**	**478**	**1,066**
JSC Atomenergoproekt	Heads	**317**	**295**	12.9%	28	10	**38**	89	48	**137**	84	36	**120**
	Specialists	**1,738**	**1,986**	43.1%	441	415	**856**	264	350	**614**	196	320	**516**
	Other office staff	**27**	**23**	26.1%	1	5	**6**	0	8	**8**	0	9	**9**
	Workers	**201**	**193**	18.1%	27	8	**35**	60	21	**81**	66	11	**77**
	other	**20**	**0**	0.0%	0	0	**0**	0	0	**0**	0	0	**0**
	In total	**2,303**	**2,497**	37.4%	**497**	**438**	**935**	**413**	**427**	**840**	**346**	**376**	**722**
JSC ATOMPROEKT	Heads	**232**	**255**	14.9%	28	10	**38**	71	58	**129**	50	38	**88**
	Specialists	**1,612**	**1,925**	50.0%	475	488	**963**	209	348	**557**	145	260	**405**
	Other office staff	**20**	**16**	12.5%	0	2	**2**	0	5	**5**	1	8	**9**
	Workers	**102**	**96**	21.9%	11	10	**21**	22	9	**31**	30	14	**44**
	other	**0**	**0**	0.0%	0	0	**0**	0	0	**0**	0	0	**0**
	In total	**1,966**	**2,292**	44,7%	**514**	**510**	**1,024**	**302**	**420**	**722**	**226**	**320**	**546**
JSC NIKIMT-Atomstroy	Heads	**242**	**242**	32.2%	64	14	**78**	61	19	**80**	67	17	**84**
	Specialists	**505**	**510**	44.3%	102	124	**226**	50	66	**116**	70	98	**168**
	Other office staff	**7**	**7**	85.7%	0	6	**6**	0	0	**0**	1	0	**1**
	Workers	**955**	**1,385**	33.4%	443	20	**463**	461	52	**513**	341	68	**409**
	other	**14**	**19**	31.6%	4	2	**6**	3	0	**3**	8	2	**10**
	In total	**1,723**	**2,163**	36.0%	**613**	**166**	**779**	**575**	**137**	**712**	**487**	**185**	**672**
PJSC Energospezmontazh	Heads	**185**	**207**	41.5%	73	13	**86**	59	16	**75**	34	12	**46**
	Specialists	**222**	**248**	62.5%	63	92	**155**	17	47	**64**	8	21	**29**
	Other office staff	**3**	**3**	66.7%	0	2	**2**	0	1	**1**	0	0	**0**
	Workers	**1,758**	**1,941**	42.1%	749	68	**817**	648	40	**688**	403	33	**436**
	other		**13**	38.5%	5	0	**5**	5	1	**6**	0	2	**2**
	In total	**2,168**	**2,412**	44.2%	**890**	**175**	**1,065**	**729**	**105**	**834**	**445**	**68**	**513**

LLC Trest RosSEM	Heads	**119**	**164**	41,5%	63	5	**68**	46	18	**64**	24	8	**32**
	Specialists	**150**	**208**	61,1%	48	79	**127**	19	30	**49**	11	21	**32**
	Other office staff	**4**	**6**	83,3%	1	4	**5**	0	1	**1**	0	0	**0**
	Workers	**1,194**	**1,653**	44,2%	712	18	**730**	616	17	**633**	259	31	**290**
	other	**0**	**0**	0,0%	0	0	**0**	0	0	**0**	0	0	**0**
	In total	**1,467**	**2,031**	45,8%	**824**	**106**	**930**	**681**	**66**	**747**	**294**	**60**	**354**
Total in the Engineering division	Heads	**1,986**	**2,005**	21,1%	**340**	**84**	**424**	**572**	**279**	**851**	**526**	**204**	**730**
	Specialists	**8,320**	**8,914**	47,5%	**2,088**	**2,144**	**4,232**	**1,163**	**1,590**	**2,753**	**801**	**1 128**	**1,929**
	Other office staff	**104**	**99**	29,3%	**2**	**27**	**29**	**1**	**33**	**34**	**3**	**33**	**36**
	Workers	**4,550**	**5,612**	38,2%	**1,999**	**143**	**2,142**	**1,924**	**158**	**2,082**	**1,213**	**175**	**1 388**
	other	**42**	**37**	35,1%	**10**	**3**	**13**	**9**	**1**	**10**	**8**	**6**	**14**
	In total	**15,002**	**16,667**	41,0%	**4,439**	**2,401**	**6,840**	**3,669**	**2,061**	**5,730**	**2,551**	**1,546**	**4,097**

** Total manpower means the aggregate number of the payroll staff, external part-timers and employees on civil law contract as of the end of the year.*
***"Other" category refers to the employees recruited on the basis of civil law contracts.*

Table ***The total manpower with breakdown into the type of employment (full/partial), employment contract (temporary /permanent), regular/non-regular (including male-female detalisation)***

Name of legal entity	**Employees categories**	**Total number of personnel**													
		Reporting period													
		TOTAL:		**Type of employment****				**Employment contract****				**Regular employees (staff members)**		**Non-regular employees (under civil contract)**	
				full		**partial**		**Temporary**		**Permanent**					
		planned	**actual**	**m**	**f**	**m**	**f**	**m**	**f**	**m**	**f**	**m**	**f**	**m**	**f**
JSC ASE	Heads	**218**	**163**	113	32	12	6	72	8	53	30	125	38	0	0
	Specialists	**524**	**434**	229	190	6	9	177	77	59	121	235	199	0	0
	Other office staff		**0**	0	0	0	0	0	0	0	0	0	0	0	0
	Workers	**38**	**39**	38	0	1	0	6	0	33	0	39	0	0	0
	other***	**4**	**1**	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**784**	**637**	**380**	**222**	**19**	**15**	**255**	**85**	**145**	**151**	**399**	**237**	**0**	**0**

JSC ASE EC	Heads	**673**	**679**	462	205	10	2	45	20	427	187	472	207	0	0
	Specialists	**3,569**	**3,603**	1,665	1,872	34	32	382	355	1,317	1,549	1,699	1,904	0	0
	Other office staff	**43**	**44**	2	41	0	1	0	21	2	21	2	42	0	0
	Workers	**302**	**305**	237	55	12	1	99	25	150	31	249	56	0	0
	other***	**4**	**4**	0	0	0	0	0	0	0	0	0	0	1	3
	In total	**4,591**	**4,635**	**2,366**	**2,173**	**56**	**36**	**526**	**421**	**1,896**	**1,788**	**2,422**	**2,209**	**1**	**3**
JSC Atomenergoproekt	Heads	**317**	**295**	196	87	5	7	4	3	197	91	201	94	0	0
	Specialists	**1,738**	**1,986**	852	855	49	230	70	122	831	963	901	1,085	0	0
	Other office staff	**27**	**23**	1	21	0	1	0	1	1	21	1	22	0	0
	Workers	**201**	**193**	152	39	1	1	9	0	144	40	153	40	0	0
	other***	**20**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**2,303**	**2,497**	**1,201**	**1,002**	**55**	**239**	**83**	**126**	**1,173**	**1,115**	**1,256**	**1,241**	**0**	**0**
JSC ATOMPROEKT	Heads	**232**	**255**	141	104	8	2	2	2	147	104	149	106	0	0
	Specialists	**1,612**	**1,925**	801	1,063	28	33	80	141	749	955	829	1,096	0	0
	Other office staff	**20**	**16**	1	14	0	1	0	0	1	15	1	15	0	0
	Workers	**102**	**96**	63	33	0	0	0	5	63	28	63	33	0	0
	other***	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**1,966**	**2,292**	**1,006**	**1,214**	**36**	**36**	**82**	**148**	**960**	**1,102**	**1,042**	**1,250**	**0**	**0**
JSC NIKIMT-Atomstroy	Heads	**242**	**242**	187	48	5	2	19	4	173	46	192	50	0	0
	Specialists	**505**	**510**	213	264	9	24	36	41	186	247	222	288	0	0
	Other office staff	**7**	**7**	1	5	0	1	1	2	0	4	1	6	0	0
	Workers	**955**	**1,385**	1,220	138	25	2	739	64	506	76	1,245	140	0	0
	other***	**14**	**19**	0	0	0	0	0	0	0	0	0	0	15	4
	In total	**1,723**	**2,163**	**1,621**	**455**	**39**	**29**	**795**	**111**	**865**	**373**	**1,660**	**484**	**15**	**4**
PJSC Energospezmontazh	Heads	**185**	**207**	161	41	5	0	14	1	152	40	166	41	0	0
	Specialists	**222**	**248**	86	158	2	2	8	10	80	150	88	160	0	0
	Other office staff	**3**	**3**	0	3	0	0	0	0	0	3	0	3	0	0
	Workers	**1,758**	**1,941**	1,775	140	25	1	194	5	1,606	136	1,800	141	0	0
	other***	**0**	**13**	0	0	0	0	0	0	0	0	0	0	10	3
	In total	**2,168**	**2,412**	**2,022**	**342**	**32**	**3**	**216**	**16**	**1,838**	**329**	**2,054**	**345**	**10**	**3**

LLC Trest RosSEM	Heads	**119**	**164**	132	31	1	0	60	18	73	13	133	31	0	0
	Specialists	**150**	**208**	76	130	1	1	47	65	30	66	77	131	0	0
	Other office staff	**4**	**6**	1	5	0	0	1	1	0	4	1	5	0	0
	Workers	**1,194**	**1,653**	1,587	66	0	0	548	7	1,039	59	1,587	66	0	0
	other***	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**1,467**	**2,031**	**1,796**	**232**	**2**	**1**	**656**	**91**	**1,142**	**142**	**1,798**	**233**	**0**	**0**
Total in the Engineering division	Heads	**1,986**	**2,005**	**1,392**	**548**	**46**	**19**	**216**	**56**	**1,222**	**511**	**1,438**	**567**	**0**	**0**
	Specialists	**8,320**	**8,914**	**3,922**	**4,532**	**129**	**331**	**800**	**811**	**3,252**	**4,051**	**4,051**	**4,863**	**0**	**0**
	Other office staff	**104**	**99**	**6**	**89**	**0**	**4**	**2**	**25**	**4**	**68**	**6**	**93**	**0**	**0**
	Workers	**4,550**	**5,612**	**5,072**	**471**	**64**	**5**	**1,595**	**106**	**3,541**	**370**	**5,136**	**476**	**0**	**0**
	other***	**42**	**37**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**	**10**
	In total	**15,002**	**16,667**	**10,392**	**5,640**	**239**	**359**	**2,613**	**998**	**8,019**	**5,000**	**10,631**	**5,999**	**27**	**10**

** Total manpower means the aggregate number of the payroll staff, external part-timers and employees on civil law contract as of the end of the year.*
*** without employees under civil contracts.*
**** category "other" includes employees under civil contracts.*

Table 12 Ratio of the total annual remuneration of the highest paid officer of the organization in each country, where the significant economic activity is carried out, to the average annual remuneration of all employees (without the highest paid officer) in the same country (102-38) and the Ratio of the percentage of growth in the total annual remuneration of the organization's highest paid officer in each country where significant economic activity is carried out, to the percentage of growth in the average annual remuneration of all employees (102-39)

Name of legal entity	Ratio of the total annual remuneration of the highest-paid officer of the organization in each country, where the relevant business activity is carried out, to the average annual remuneration of all employees (without the organization's highest-paid officer) in the same country. (102-38)	Ratio of the growth percentage of the total annual remuneration of the highest-paid officer of the organization in each country, where the relevant business activity is carried out, to the growth percentage of the average annual remuneration of all employees (without the highest-paid officer of the organization) in the same country. (102-39)	Note
JSC ASE	6.8	0.79	
JSC ASE EC	37.3	0.996	
JSC Atomenergoproekt	10.0	1.61	Anticipation of the growth rates of the head's income relative to the average income of employees is mainly connected with the increase in the efficiency of his activities, which affected the payment in the amount of 95% of the established standard annual bonus in 2017. (in 2016, the bonus for 2015 was not paid to the head due to the failure to fulfill key performance indicators).
JSC ATOMPROEKT	7.7	0.85	
JSC NIKIMT Atomstroy	11.04	0.72	
PJSC Energospezmontazh	29.7	2.23	In 2017, the annual bonus was paid for the first time in the organization, which influenced the growth of the head's income, including in terms of the average daily earnings used to pay the time spent on business trips, which is about 95% of the total working time
LLC Trest RosSEM	15.6	0.91	
TOTAL within the Division	**47.7**	**1.04**	

Table Number of employees subject to training, pers.

Name of legal entity	2015	2016.	2017 planned	2017 actual	Dynamics, %	2018 planned	Analytical comment
JSC ASE	120	49	480	271	453%	438	
JSC ASE EC	1,423	1,570	2,036	2,328	48%	2,481	The number of trained specialists include those who underwent remote learning The number of trained personnel is related to the introduction of remote learning form and localization.
JSC Atomenergoproekt	1,114	1,246	1,200	1,250	0.32%	1,240	
JSC ATOMPROEKT	1,514	904	1,198	1,123	24.23%	1,000	In 2017 training was performed for the employees involved in international projects Hanhikivi-1 and Paks-II, with the participation of foreign teachers. 72 employees were taught on the basis of Finnish guidelines YVL and requirements to designing and construction of NPPs in Finland. 57 employees were taught on the basis of "Hungarian nuclear safety requirements for the new project of construction of Paks NPP units No 5 and 6. The main focus of NPP design". 11 employees were taught on the basis of "Probabilistic safety analysis (PSA) part II. Level 1 PSA for low power and shutdown modes, internal and external hazards, leve 2 and 3 PSA". 20 employees underwent external training on the subject: "Safety culture management at nuclear facilities"
LLC Trest RosSEM	423	321	390	729	127%	630	
JSC NIKIMT-Atomstroy	1,190	1,014	1,025	1,243	23%	1,100	The number of the personnel trained in 2017 increased due to recruitment for the construction of power unit No 4 of Rostov NPP. Additional certification of the newly employed personnel for labor protection was performed.
PJSC Energospezmontazh	2,174	2,510	2,000	2,721	8.41%	2,976	
TOTAL for Engineering division	**7,958**	**7,614**	**8,329**	**9,665**	**27%**	**9,865**	

Table 14 Average amount of hours of training per employee (404-1)

Name of legal entity	2015	2016	2017	Δ %	2018 planned	Note
JSC ASE (Nizhny Novgorod),	4.6	3.7	3.8	3%	4	
JSC ASE EC (Nizhny Novgorod)	19.5	23.4	38.4	64.1%	36	The growing amount of the training hours is due to the large amount of employees studying English.
Atomenergoproekt (Moscow)	19.8	24.4	25.4	4.1%	25	
JSC ATOMPROEKT (Saint Petersburg).	14.7	10.4	30.3	191%	28	The increase is due to implementation of the Total English Programme and training for all employees engaged in Hanhikivi-I and Paks-II projects
JSC NIKIMT-Atomstroy (Moscow)	19.7	30.3	31.5	4.0%	31	
PJSC Energospetsmontazh (Moscow)	127.4	30.45	27.37	-10.11%	33	Design in the amount of training due to completion of the project
TrestRosSEM Ltd. (NIzhny Novgorod)	6.4	8	9.2	15%	10	
Total for Rosatom State Corporation Engineering Division*	**30.3**	**21.3**	**28.4**	**33.16%**	**26.7**	

* Calculation of the total for the Division is made according to the formula "The amount of training hours for employees per division / average number per division"

Table 15 Average amount of hours of training per one female employee (404-1)

Name of legal entity	2016	2017	Δ %	2018 planned
JSC ASE	2.6	3.7	42%	4.2
JSC ASE EC	15.4	25.7	67%	24
JSC Atomenergoproekt	19.4	20.2	4%	20

JSC ATOMPROEKT	10.7	29.6	176.64%	27
JSC NIKIMT-Atomstroy	38.7	32	-17,31%	32
PJSC Energospecmontazh	6.4	52.15	714.84%	40
TrestRosSEM	7	7.6	8.57%	-
Total for Rosatom State Corporation Engineering Division*	**15.9**	**26.5**	**66.25%**	**22.9**

*In 2015 the records were not kept in terms of employees' gender

* Calculation of the total for the Division is made according to the formula "The amount of training hours for male employees per division / average number per division"

Table 16 Average amount of hours of training per one male employee (404-1)

Name of legal entity	2016	2017	Δ %	2018 planned
JSC ASE	4.4	4.1	-7%	4,2
JSC ASE EC	30.1	44.8	49%	45
JSC Atomenergoproekt	29.3	30.2	3%	30
JSC ATOMPROEKT	13.3	30.6	130.08%	30
JSC NIKIMT-Atomstroy	37.6	36.5	-2,93%	35
PJSC Energospecmontazh	35.5	26.82	-24,45%	35
TrestRosSEM	8.2	10.4	26.83%	-
Total for Rosatom State Corporation Engineering Division**	**26.1**	**30.3**	**16.32%**	**27.5**

*In 2015 the records were not kept in terms of employees' gender

* Calculation of the total for the Division is made according to the formula "The amount of training hours for male employees per division / average number per division"

Table 17 Determine the average number of training hours for employees of different categories within the reporting period, for which use the formula: Average number of training hours for employees of the same category = Total number of training hours for employees of the same category / Total number of employees within one category (404-1)

Name of legal entity	2015	2016	2017
JSC ASE	**4.6**	**3.7**	**3.8**
Heads	5.4	7.9	5.2
Specialists	2.7	1.74	1.9

Name of legal entity	2015	2016	2017
Office workers	-		
Workers	5.8	-	-
JSC ASE EC	**19.5**	**23.4**	**38.4**
Heads	35.3	54.2	55
Specialists	15.2	15.5	37.4
Office workers	the number of employees is minimal, there is no specific information on this category, we can estimate the indicators as 0.0-0.05		
Workers	11.2	12.5	6,2
JSC Atomenergoproekt	**19.8**	**24.4**	**25.4**
Heads	39.2	56.6	53.2
Specialists	16.8	20.2	22.5
Office workers			
Workers	14.7	16.8	16.3
JSC ATOMPROEKT	**14.7**	**10.4**	**30.3**
Heads	45.43	34.8	50.02
Specialists	15.15	8.1	26.1
Office workers	0	0	0
Workers	4.74	0	38.6* The significant increase in hours for Workers category is due to their obligatory training
JSC NIKIMT-Atomstroy	**19.7**	**30.3**	**31.5**
Heads	54.7	58.8	56.8
Specialists	9	10.5	11.1
Office workers			
Workers	18.9	21.5	28.3
PJSC Energospecmontazh	**127.4**	**30.45**	**27.37**
Heads	50.8	47.1	63.81
Specialists	9.3	15.3	65.11
Office workers	0	0	0

Name of legal entity	2015	2016	2017
Workers	67.3	30.6	21.62
TrestRosSEM	**6.4**	**8**	**9.2**
Heads	22.3	14	15.6
Specialists	3	11	11.2
Office workers	0	0	0
Workers	6.2	7	9.2
Total for Rosatom State Corporation Engineering Division	**30.3**	**21.3**	**28.4**

Table 18 Total number and percentage of employees whose performance is periodically evaluated (404-3)

Company and region of operation	Employees categories	2015			2016			2017			2018 planned		
		m	f	%	m	f	%	m	f	%	m	f	%
JSC ASE EC	Heads	498	202	83.8	513	219	88	521	255	90	453	180	91
	Specialists	110	74	7.6	116	89	7.3	78	71	4.7	166	164	10
	Office workers	0	0	0	0	0	0	0	0	0	0	0	0
	Workers	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**884**		**24.4%**	**937**		**23.7%**	**925**		**20.2%**	**963**		**21%**
JSC Atomenergoproekt	Heads	393	250	15.38%	209	106	11.23%	191	85	11.46%	184	83	10.69%
	Specialists	5	24	0.69%	8	28	1.28%	11	28	1.62%	21	32	2.12%
	Office workers	0	1	0.02%	0	11	0.39%	0	0	0.00%	0	0	0.00%
	Workers	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
	In total	**673**		**16.10%**	**362**		**12.90%**	**315**		**13.08%**	**320**		**12.82%**
JSC ASE	Heads	26	4	100%	127	23	99%	112	29	98%	280	75	96%
	Specialists	0	0		1	1	1%	3		2%	10	5	4%
	Office workers	0	0	0	0	0	0	0	0	0	0	0	0

Company and region of operation	Employees categories	2015			2016			2017			2018 planned		
		m	**f**	**%**	**m**	**f**	**%**	**m**	**f**	**%**	**m**	**f**	**%**
	Workers	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**30**	**0**	**100%**	**152**	**0**	**100%**	**144**	**0**	**100%**	**370**	**0**	**100%**
JSC ATOMPROEKT	Heads	259	248	16.07	178	115	14.05	107	93	10.17%	149	98	12.53%
	Specialists	130	114	7.73	0	0	0	39	1	2.03%	24	0	1.21%
	Office workers	0	0	0	0	0	0	0	0	0	0		
	Workers	0	0	0	0	0	0	0	0	0			
	In total	**751**		**23.8%**	**293**		**14.05%**	**240**		**12.20%**	**271**		**13.74%**
LLC Trest RosSEM	Heads	0	0	0	2	0	2%	6	0	4%	36	6	19%
	Specialists	0	0	0	0	0	0	0	0	0	0	0	0
	Office workers	0	0	0	0	0	0	0	0	0	0	0	0
	Workers	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**0**		**0%**	**2**		**2%**	**6**		**4%**	**42**		**19%**
PJSC Energospezmontazh	Heads	0	0	0	48	69	49.36	40	57	49.23	45	63	46.15
	Specialists	0	0	0	25	23	22.3	19	41	27.52	22	32	22.59
	Office workers	0	0	0	0	0	0	0	0	0	0	0	0
	Workers	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**0**		**0%**	**165**		**71.66%**	**157**		**76.75%**	**162**		**68.74%**
JSC NIKIMT Atomstroy	Heads	115	76	7.90%	112	66	9.70%	95	42	6.49%	98	57	7.34%
	Specialists	0	0	0	0	0	0	3	15	0.85%	0	0	0
	Office workers	0	0	0	0	0	0	0	0	0	0	0	0
	Workers	0	0	0	0	0	0	0	0	0	0	0	0
	In total	**191**		**7.9%**	**178**		**9.7%**	**155**		**7.34%**	**155**		**7.34%**

The increase in the number of employees to be evaluated is due to the enlargement of the list of positions included in the RECORD evaluation system

Table 19 The number of personnel required for implementation of NPP construction projects, persons.

Name of construction site	2017.	2018.	Planned recruitment in 2018.	2019.	Planned recruitment in 2019.	2020.	Planned recruitment in 2020.
	actual	planned		planned		planned	
JSC ASE							
Bushehr NPP, total for the main categories	**98**	**161**	**+63**	**241**	**+80**	**321**	**+80**
Employees of the construction directorate	40	40	-	40	-	47	+7
Employees of the branch office at the site	58	102	+44	170	+68	240	+70
Specialists of design unit at the site (designer's supervision and detailed designing).	0	19	+19	31	+12	34	+3
Akkuyu NPP, total for the main categories	**59**	**241**	**+183**	**210**	**0**	**194**	**+3**
Employees of the construction directorate	29	30	+1	27	-	30	+3
Employees of the branch office at the site	30	185	+156	157	0	148	-
Specialists of design unit at the site (designer's supervision and detailed designing).	0	26	+26	26	-	16	-
Rooppur NPP, total for the main categories	**155**	**263**	**+108**	**344**	**+81**	**332**	**0**
Employees of the construction directorate	31	49	+18	49	0	49	-
Employees of the branch office at the site	124	185	+61	266	+81	266	-
Specialists of design unit at the site (designer's supervision and detailed designing).	0	29	+29	29	-	17	-
El-Dabaa NPP, total for the main categories	**16**	**68**	**+52**	**149**	**+81**	**259**	**+110**
Employees of the construction directorate	13	28	+15	28	0	40	+12
Employees of the branch office at the site	3	33	+30	102	+69	186	+84
Specialists of design unit at the site (designer's supervision and detailed designing).	0	7	+7	19	+12	33	+14

JSC ASE EC							
Paks II NPP, total for all main categories	**38**	**93**	**+55**	**225**	**+132**	**253**	**+29**
Employees of the construction directorate	9	14	+5	27	+13	39	+12
Employees of the branch office at the site	29	61	+32	168	+107	185	+17
Specialists of design unit at the site (designer's supervision and detailed designing).	0	18	+18	30	+12	29	-
Kursk NPP-2, for the mail categories	**164**	**319**	**+155**	**335**	**+16**	**334**	**0**
Employees of the construction directorate	12	47	+35	48	+1	48	-
Employees of the branch office at the site	152	243	+91	266	+23	266	-
Specialists of design unit at the site (designer's supervision and detailed designing).	0	29	+29	21	-8	20	-
Belarus NPP, for the mail categories	**458**	**487**	**+53**	**326**	**0**	**165**	**0**
Employees of the construction directorate	7	48	+41	48	-	48	-
Employees of the branch office at the site	451	427	-	267	-	117	-
Specialists of design unit at the site (designer's supervision and detailed designing).	0	12	+12	11	-	-	-
TOTAL	**988**	**1,632**	**+669**	**1,830**	**+390**	**1,858**	**+222**

In 2017, the planning of personnel required for NPP projects implementation was completed. To calculation the need in personnel, the Model of personnel number planning was used which made it possible to forecast the need in the main categories of specialists whose shortage can have a significant impact on the success of the project implementation. On the basis of the data obtained, resource plans were developed for replenishment of the forecasted shortage of the employees, the main sources of replenishment of the key personnel were identified.

The fact is given as on 25.12.2017.

In 2017, at Rooppur NPP, Paks-II NPP and Akkuyu NPP the specialists of design institutes performed designer's supervision (on secondment mode, on the basis of rotation method).

In 2017, at Russian sites, the specialists responsible for designer's supervision and detail designing, were part of the branch office.

The table does not include the sites at the stage of construction completion (e.g., Rostov NPP) as no personnel recruitment is planned, the process of optimization of the number of the personnel and relocation of the key personnel to other projects is under way

Table 20 Total number of the Engineering Division employees covered by collective agreements %

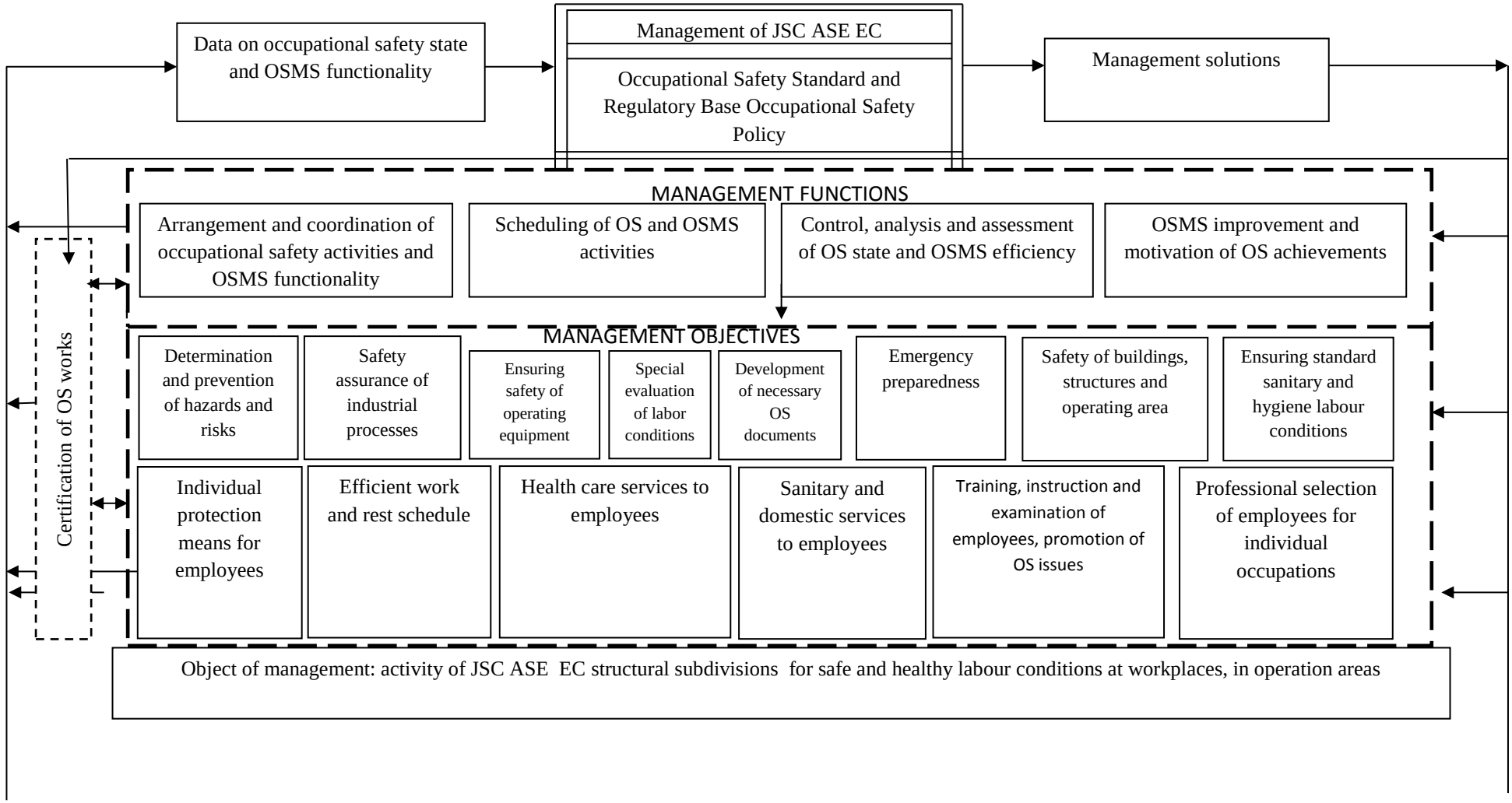
Name of legal entity	2015, fact	2016, fact	2017, fact	2017/2016, %	2018 planned
Total for Rosatom State Corporation Engineering Division	53.61	56.46	57.93	2.61	53.64

Table 21 Injuries of Engineering Division and subcontracted organizations' employees in 2017

Name	Construction site of Belarus NPP (Ostrovets)	Construction site of Kursk NPP (Kursk Region)
In total for Rosatom State Corporation Engineering Division	1 man severe injury	1 man severe injury
Contracting organization:	1 man severe injury	1 man, fatal case

.

ASE JSC labor protection management structure



Appendix 13. Additional information to chapter “Production capital” (results of Rosatom Production System introduction)

Table 22 Reduction of construction and designing periods

Plans for reduction of the time period	Objective	
Project	**Days**	**% of the basis status**
Foreign sites (Belarus NPP, Rooppur NPP, Bushehr-2 NPP)		
Reduction of the time period of soil stabilization works under 20 UJA No 2 building of Bushehr NPP.	45 from 214 down to 169 days	21.
Optimization of the process with the purpose of achieving the milestone for confirmation of the Principal’s receipt of the Basic Design (except Hydraulic Engineering Structures) for Bushehr NPP.	183. from 461 down to 278 days	40.
“Optimization of the process with the purpose of achieving the 1st concrete milestone during the construction of power unit No 1 of Akkuyu NPP.	246. from 370 down to 124 days	66.
Optimization of the process “Receipt of TAEI license for the construction of Unit No 1 of Akkuyu NPP.	246. from 637 down to 391 days	39.
Rostov NPP-4		
Optimization of the process with the purpose of achieving milestone “Commissioning of Rostov NPP-4”.	06.10.2018	
Kursk NPP-2		
Reduction of the artificial base construction under the reactor building of power unit No. 2	33. from 209 down to 231 days	16.
Optimization of the process of management of non-conformances identified during designing and issue of detail design documentation, performance of incoming inspection and CEW at a Russian construction site.	Reduction of the time period of management of non-conformances identified during designing and issue of detail design documentation, incoming inspection and CEW.	-
Optimization of processes for construction of foundation plate from elevation -8 000 to elevation 5 400 for achieving the Fist Concrete milestone.	7. From 131 down to 124 days	6.
Optimization of the concrete bedding (primer) arrangement process under the foundation slab of power unit No. 1	7. from 45 down to 38 days	15.
Novovoronezh NPP-2		
Optimization of process of achieving milestone Commencement of Hot and Cold Run at power unit No 2 of Novovoronezh NPP-2	61. from 184 down to 123 days	33.

Table 23 Economic effect from implementation of programs of industrial development and cost saving at enterprises (also from introduction of RPS)

Project	**Cost saving, mln. RUB.**
Optimization of the consumption by the Site of the required volume of electric power and source water for the needs of CEW during the preparatory period	0.771
Proposal for optimization "Improvement of models of beams that support the sprinkler device of the cooling tower of Power Unit No 4 of Rostov NPP".	46.5

Table 24 Economic effect of cost management

Design Institute	**NPP project:**	**Name of CRP**	**Economic effect, thousand rubles**
JSC ASE EC	Kursk-2	Optimization of the substitution scheme for the foundation soil under the foundations of main structures on the industrial site	41,620.0
		Optimization of special laundry and ordinary laundry systems location in the sanitary and amenity building 00UYB of controlled access area.	275,077.0
		Proposals for reduction of time and cost of procurement of hoisting equipment for the sanitary and amenity building 00UYB of controlled access area, reduction of labor effort of equipment erection.	211.99
	Bushehr -2	Optimization of special laundry and ordinary laundry systems location in the sanitary and amenity building 00UYB of controlled access area.	3,544.0
JSC Atomenergoproekt	Rooppur	Reduction of the cost of the monitoring system for SG level and steam humidity in pipelines.	18,606.51
		Optimization of structural solutions for the foundation slab of the reactor building (UJA) in order to reduce the consumption of reinforcement bars and save the construction costs.	25,200.0
	Bushehr -2	Reduction of seismic impacts on the UKC building by taking into account the soil stabilization area during seismic response calculations in order to reduce the cost of equipment	218,240.0
JSC ATOMPROEKT	Hanhikivi-1	Optimization of approach to determination of the length of anchoring and lap joints of reinforced concrete structures of the turbine island.	70,153.0
		Reduction in the volume of the auxiliary building UKA	295,201.0
		Proposal for reduction of the cost of the project in terms of elimination of the sewage pumping station for pumping the domestic waste water of controlled access area (10UGQ); pipelines of domestic waste discharge of controlled access area (10GQD); pipelines and structures of external networks 10UUL (domestic sewage of controlled access area (GQD)	6,000.0
		Proposal for reduction of cost of the projects in terms of reducing the size of process trestle 10UNY	90,000.0
		Proposal to cut the project cost in terms of reducing the volume of the underground part of the Nuclear service building with domestic premises of the controlled access area 10UKC	150,000.0
		Proposal for reduction of the cost of the project in terms of using prototypes of plunge pumping sets 10KBA51,52,53AP001 operating without using deep water intake and without cooling the pumped media leaks.	800.0

Appendix 14. Additional environmental parameters

Table 25 Waste management methods in the Engineering Division (GRI 306-2)

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
JSC ASE EC **(Nizhny Novgorod and Nizhny Novgorod region)**				
I hazard class waste (extremely hazardous), including:	0.568	0.142	0,41	+189
- handed over to other specialized companies for deactivation	0.568	0.142	0.41	+189
II hazard class waste (high hazard), including:	0.051	-	-	-
- handed over to other specialized companies for deactivation	0.051	-	-	-
III hazard class waste (moderately hazardous), including:	0.064	-	-	-
- handed over to other specialized companies for deactivation	0.064	-	-	-
IV hazard class waste (low-hazard), including:	182.089	335.1	342.91	+2
- handed over to other specialized companies for deactivation	0.943	1.7	-	-
- handed over to the landfill site of other company	181.14	333.3	342.91	+3
V hazard class waste (no significant hazard), including:	50.253	49.0	58.31	+19
- handed over to other specialized companies for use	-	7.4	6.69	-10
- handed over to the landfill site of other company	50.253	41.6	51.62	+24
Total for I-V hazard category wastes	**233.025**	**384.213**	**401.63**	**+5**

Generation of wastes as per hazard categories and ways of processing	Waste capacity, tons			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
JSC ASE EC Volgodonsk Branch Office				
I hazard class waste (extremely hazardous), including:	0.09	0.194	0.724	more than +200
- handed over to other specialized companies for deactivation	0.09	0.194	0.724	more than +200
II hazard class waste (high hazard), including:	0.330	0.205	0.734	more than +200
- handed over to other specialized companies for deactivation	0.330	0.205	0.734	more than +200
III hazard class waste (moderately hazardous), including:	-	-	-	-
IV hazard class waste (low-hazard), including:	398.2	259.9	268	+3
- handed over to the landfill site of other company	398.2	259.9	268	+3
V hazard class waste (no significant hazard), including:	110.1	83.3	85.1	+2
- handed over to the landfill site of other company	110.1	83.3	85.1	+2
Total for I-V hazard category wastes	**508.7**	**343.6**	**354.558**	**+3**
JSC ASE EC Kursk Branch Office				
I hazard class waste (extremely hazardous), including:	-	0.01431	0.07579	more than +200
- handed over to other specialized companies for deactivation	-	0.01431	0.07579	more than +200
II hazard class waste (high hazard), including:	-	-	-	-
III hazard class waste (moderately hazardous), including:	-	-	-	-
IV hazard class waste (low-hazard), including:	12.504	23.666	36.053	+52

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
- handed over to other specialized companies for use	-	-	0.83	The trend was not identified since the data of 2016 was not submitted
- handed over to the landfill site of other company	12.504	23.666	35.222	+49
V hazard class waste (no significant hazard), including:	-	-	2.242	The trend was not identified since the data of 2016 was not submitted
- handed over to the landfill site of other company	-	-	2.242	The trend was not identified since the data of 2016 was not submitted
Total for I-V hazard category wastes	**12.504**	**23.68031**	**38.371**	**+62**
JSC ASE EC Baltic Branch Office				
I hazard class waste (extremely hazardous), including:	-	0.023	0.014	−39
- handed over to other specialized companies for deactivation	-	0.023	0.014	−39
II hazard class waste (high hazard), including:	-	0.077	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for use	-	0.077	-	The trend was not identified since the data of 2017 was not submitted
III hazard class waste (moderately hazardous), including:	-	0.162	-	The trend was not identified since the data of

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
				2017 was not submitted
- handed over to other specialized companies for use	-	0.162	-	The trend was not identified since the data of 2017 was not submitted
IV hazard class waste (low-hazard), including:	668.9	86.8	34.7	−60
- handed over to other specialized companies for use	-	0.1	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	596.0	-	-	The trend was not identified since the data of 2016 and 2017 was not submitted
- handed over to the landfill site of other company	72.9	86.7	34.7	−60
V hazard class waste (no significant hazard), including:	-	187.7	150.0	−20
- handed over to other specialized companies for use	-	0.2	-	The trend was not identified since the data of 2017 was not submitted
- handed over to the landfill site of other company	-	187.5	150.0	-20
Total for I-V hazard category wastes	**668.9**	**274.762**	**184.714**	**-33**
JSC ASE EC Representative Office in the Republic of Belarus				
I hazard class waste (extremely hazardous), including:	-	-	0.04815	The trend was not identified since the data of

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
				2016 was not submitted
- handed over to other specialized companies for deactivation	-	-	0.04815	The trend was not identified since the data of 2016 was not submitted
II hazard class waste (high hazard), including:	-	-	-	-
III hazard class waste (moderately hazardous), including:	-	-	2.91	The trend was not identified since the data of 2016 was not submitted
- handed over to other specialized companies for use	-	-	2.91	The trend was not identified since the data of 2016 was not submitted
IV hazard class waste (low-hazard), including:	2.5	3.0	1.24	-59
- handed over to other specialized companies for use	2.5	3.0	1.24	-59
V hazard class waste (no significant hazard), including:	34.4	38.31	41.41	+8
- handed over to other specialized companies for use	34.4	38.31	0.02	-100
- handed over to the landfill site of other company	-	-	41.39	The trend was not identified since the data of 2016 was not submitted
Total for I-V hazard category wastes	**36.9**	**41.31**	**45.61**	**+10**
JSC ASE				
I hazard class waste (extremely hazardous), including:	0.37	0.545	0.495	-9

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
- handed over to other specialized companies for deactivation	0.37	0.545	0.495	-9
II hazard class waste (high hazard), including:	-	-	-	
III hazard class waste (moderately hazardous), including:	-	-	-	
IV hazard class waste (low-hazard), including:	36.2	224.6	303.1	+35
- handed over to other specialized companies for deactivation	1	2.0	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for disposal	-	-	1.6	The trend was not identified since the data of 2016 was not submitted
- handed over to the landfill site of other company	35.66	222.6	301.5	+35
V hazard class waste (no significant hazard), including:	5.2	0.6	11	more than +200
- handed over to the landfill site of other company	5.2	0.6	11	more than +200
Total for I-V hazard category wastes	**41.77**	**225.785**	**314.595**	**+39**
JSC ATOMPROEKT				
I hazard class waste (extremely hazardous), including:	1.52	0.45	0.322	-28
- handed over to other specialized companies for deactivation	1.52	0.45	0.322	-28
IV hazard class waste (low-hazard), including:	195.9	200.5	196.2	-2
- handed over to other specialized companies for use	20	42.8	-	The trend was not identified since the data of

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
				2017 was not submitted
- handed over to the landfill site of other company	175.9	157.7	196.2	+24
V hazard class waste (no significant hazard), including:	33.2	43.6	2.1	-95
- handed over to other specialized companies for use	21.7	20.4	2.1	-90
- handed over to the landfill site of other company	9.2	23.2	-	The trend was not identified since the data of 2017 was not submitted
Total for I-V hazard category wastes	**230.62**	**244.44**	**198.62**	**-19**
JSC Atomenergoproekt				
I hazard class waste (extremely hazardous), including:	0.379	0.568	0.469	-17
- handed over to other specialized companies for deactivation	0.379	0.568	0.469	-17
II hazard class waste (high hazard), including:	0.113	0.052	0.519	more than +200
- handed over to other specialized companies for deactivation	0.113	0.052	0.519	more than +200
III hazard class waste (moderately hazardous), including:	3.667	3.069	3.380	+10
- handed over to other specialized companies for use	0.782	0.745	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	2.885	2.327	3,380	+45

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
IV hazard class waste (low-hazard), including:	810.115	1,286.894	1,203.31	-6
- handed over to other specialized companies for use	16.000	-	-	The trend was not identified since the data of 2016 and 2017 was not submitted
- handed over to other specialized companies for deactivation	-	1.863	2,067	+11
- handed over to the landfill site of other company	794.115	1,285.031	1,201.243	-7
V hazard class waste (no significant hazard), including:	231.192	216.695	259.012	+20
- handed over to other specialized companies for use	3.400	3.43	14.182	more than +200
- handed over to the landfill site of other company	227.792	213.265	224.830	+5
Total for I-V hazard category wastes	**1,045.466**	**1,507.278**	**1,466.694**	**-3**
VDMU LLC				
I hazard class waste (extremely hazardous), including:	0.039	0.01	0.01	0
- handed over to other specialized companies for deactivation	0.039	0.01	0.01	0
II hazard class waste (high hazard), including:	0.043	0.086	0.086	0
- handed over to other specialized companies for deactivation	0.043	0.086	0.086	0
III hazard class waste (moderately hazardous), including:	0.113	0.237	0.237	0
- handed over to other specialized companies for deactivation	0.113	0.237	0.237	0

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
IV hazard class waste (low-hazard), including:	39.5	45.6	36.1	-21
- handed over to other specialized companies for deactivation	-	0.3	0.3	0
- handed over to the landfill site of other company	39.5	45.3	35.8	-21
V hazard class waste (no significant hazard), including:	4.3	10.7	6.2	-42
- storage on company site	-	7.2	5	-31
- handed over to the landfill site of other company	-	0.9	1.2	+33
- handed over to other specialized companies for use	4.3	2.6	-	The trend was not identified since the data of 2017 was not submitted
Total for I-V hazard category wastes	**44.995**	**56.64**	**42.633**	**-25**
LLC Trest RosSEM				
I hazard class waste (extremely hazardous), including:	0.055	0.022	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	0.055	0.022	-	Dynamic was not calculated, data was not presented
II hazard class waste (high hazard), including:	-	-	-	-
III hazard class waste (moderately hazardous), including:	0.63	0.114	-	The trend was not identified since the data of 2017 was not submitted

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
- handed over to other specialized companies for use	0.63	0.114	-	The trend was not identified since the data of 2017 was not submitted
IV hazard class waste (low-hazard), including:	0.8	-	2.1	The trend was not identified since the data of 2016 was not submitted
- handed over to other specialized companies for deactivation	0.8	-	2.1	The trend was not identified since the data of 2016 was not submitted
V hazard class waste (no significant hazard), including:	250	346	72.4	-79
- handed over to other specialized companies for use	250	346	72.4	-79
Total for I-V hazard category wastes	**251.49**	**346.33**	**74.5**	**-78**
SMU No.1 LLC				
I hazard class waste (extremely hazardous), including:	-	0.039	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	-	0.039	-	The trend was not identified since the data of 2017 was not submitted
II hazard class waste (high hazard), including:	-	-	-	-
III hazard class waste (moderately hazardous), including:	-	-	-	-

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
IV hazard class waste (low-hazard), including:	86	86.138	25.733	-70
- handed over to other specialized companies for deactivation	-	0.138	-	The trend was not identified since the data of 2017 was not submitted
- handed over to the landfill site of other company	86	86	25.733	-70
V hazard class waste (no significant hazard), including:	222.8	213.8	301.2	+41
- handed over to the landfill site of other company	222.8	213.8	301.2	+41
Total for I-V hazard category wastes	**308.8**	**299.38**	**326.933**	**+9**
JSC NIKIMT-Atomstroy				
I hazard class waste (extremely hazardous), including:	0.687	0.262	0.369	+41
- handed over to other specialized companies for deactivation	0.687	0.262	0.369	+41
II hazard class waste (high hazard), including:	2.546	0.9	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	2.546	0.9	-	The trend was not identified since the data of 2017 was not submitted
III hazard class waste (moderately hazardous), including:	2.997	3.274	0.08	-98

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
- handed over to other specialized companies for use	1.525	2.248	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	0.674	0.5	0.08	-84
- handed over to the landfill site of other company	0.798	0.526	-	The trend was not identified since the data of 2017 was not submitted
IV hazard class waste (low-hazard), including:	454.067	437.609	397.94	-9
- handed over to other specialized companies for use	0	32.91	0.5	-98
- handed over to other specialized companies for deactivation	55.68	45.669	-	The trend was not identified since the data of 2017 was not submitted
- handed over to the landfill site of other company	398.387	359.03	397.44	+11
V hazard class waste (no significant hazard), including:	682.185	714.77	746.43	+4
-used in proper production	411.515	46.845	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for use	22.984	38.840	58.8	+51
- handed over to the landfill site of other company	247.686	629.085	681.07	+8
- handed over to other specialized companies for deactivation	-	-	6.56	The trend was not identified since the data of

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
				2016 was not submitted
Total for I-V hazard category wastes	**1,142.774**	**1,157.279**	**1,144.819**	**-1**
PJSC Energospezmontazh				
I hazard class waste (extremely hazardous), including:	-	0.078	0.038	-51
- -storage on facility site	-	0.078	0.0289	-63
- handed over to other specialized companies for deactivation	-	-	0.009	The trend was not identified since the data of 2016 was not submitted
II hazard class waste (high hazard), including:	-	-	0.305	The trend was not identified since the data of 2016 was not submitted
- handed over to other specialized companies for deactivation	-	-	0.305	The trend was not identified since the data of 2016 was not submitted
III hazard class waste (moderately hazardous), including:	0.513	1.577	1.446	-8
- storage on company site	-	1.577	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for use	0.513	-	1.2	The trend was not identified since the data of 2016 was not submitted

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
- handed over to other specialized companies for deactivation	-	-	0.246	The trend was not identified since the data of 2016 was not submitted
IV hazard class waste (low-hazard), including:	39.34	83.005	131.768	+59
- storage on company site	-	0.398	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for use	2.7	-	2.762	The trend was not identified since the data of 2016 was not submitted
- handed over to other specialized companies for deactivation	7.39	14.96	-	The trend was not identified since the data of 2017 was not submitted
- handed over to the landfill site of other company	29.25	67.647	129.006	+91
V hazard class waste (no significant hazard), including:	159	493.818	374.336	-24
- storage on company site	-	1.386	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for use	42.6	41.454	48.88	+18
- handed over to the landfill site of other company	116.4	450.978	325.456	-28
Total for I-V hazard category wastes	**198.853**	**578.478**	**507.893**	**-12**

Generation of wastes as per hazard categories and ways of processing	Waste capacity, tons			
	2015	2016	2017	(2017-2016)/ 2016, %
SPB NIII EIZ JSC				
I hazard class waste (extremely hazardous), including:	0.011	-	0.075	more than +200
- handed over to other specialized companies for deactivation	0.011	-	0.075	more than +200
II hazard class waste (high hazard), including:	-	-	-	-
III hazard class waste (moderately hazardous), including:	0.942	0.022	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	0.920	-	-	The trend was not identified since the data of 2017 was not submitted
- handed over to the landfill site of other company	0.022	0.022	-	The trend was not identified since the data of 2017 was not submitted
IV hazard class waste (low-hazard), including:	5.6	5.6	7.127	+27
- storage on company site	0.1	0.2	0.542	+171
- handed over to the landfill site of other company	5.4	5.5	7.058	+28
- other (availability at the company by the end of the reporting period)	0.1	0.2	0.542	+171
V hazard class waste (no significant hazard), including:	0.6	0.6	1.078	+80
- handed over to the landfill site of other company	0.6	0.6	1.078	+80

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
Total for I-V hazard category wastes	**7.153**	**6.222**	**8.280**	**+33**
ENGINEERING DIVISION*				
I hazard class waste (extremely hazardous), including:	**3.719**	**2.35**	**3.05**	**+30**
- storage on company site	-	0.078	0.0289	-63
- handed over to other specialized companies for use	0.39	0.568	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	3.329	1.7	3.021	+78
II hazard class waste (high hazard), including:	**3.083**	**1.32**	**1.644**	**+25**
- handed over to other specialized companies for use	-	0.077	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for deactivation	3.083	1.243	1.644	+32
III hazard class waste (moderately hazardous), including:	**8.926**	**8.458**	**8.053**	**-5**
- storage on company site	-	1.577	-	The trend was not identified since the data of 2017 was not submitted
- handed over to other specialized companies for use	3.45	3.269	4.11	+26
- handed over to other specialized companies for deactivation	3.736	3.064	3.943	+29
- handed-over to the landfill site of other company	1.74	0.548	-	The trend was not identified since the data of

Generation of wastes as per hazard categories and ways of processing	**Waste capacity, tons**			
	2015	**2016**	**2017**	**(2017-2016)/ 2016, %**
				2017 was not submitted
IV hazard class waste (low-hazard), including:	**2,932.269**	**3,081.212**	**2,986.281**	**-3**
- storage on company site	0.2	0.698	0.542	-22
- handed over to other specialized companies for use	41.2	78.81	5.332	-93
- handed over to other specialized companies for deactivation	661.813	69.33	4,467	-94
- handed over to other specialized companies for disposal	-	-	1.6	The trend was not identified since the data of 2016 was not submitted
- handed-over to the landfill site of other company	2,229.056	2,932.374	2,974.812	+1
- other (availability at the company by the end of the reporting period)	0.1	0.2	0.542	+171
V hazard class waste (no significant hazard), including:	**1,780.93**	**2,398.893**	**2,110.818**	**-12**
- used for in-house manufacture	411.515	46.845	-	The trend was not identified since the data of 2017 was not submitted
- storage on company site	-	8.586	5	-42
- handed over to other specialized companies for use	344.984	460.324	203.072	-56
- handed over to other specialized companies for deactivation	-	0.9	6.56	more than +200
- handed-over to the landfill site of other company	1,024.431	1,882.238	1,876.186	0

Generation of wastes as per hazard categories and ways of processing	Waste capacity, tons			
	2015	2016	2017	(2017-2016)/ 2016, %
Total for I-V hazard category wastes	**4,728.927**	**5,492.233**	**5,109.85**	**-7**

* Over 2015 and 2016, the earlier submitted data were recalculated due to exclusion of information about JSC Sibirsky Orgstroyproekt from the 2nd half-year of 2017 and the enterprise's being liquidated.

The Engineering division construction and operation facilities effect the industrial and consumer waste management in line with the environmental legislation of the Russian Federation, the countries of operation and the developed draft standards for waste production and limits for their disposal.

Waste accumulation areas are available at construction and operation facilities of the Engineering Division. Accumulation of waste is carried out in specially installed containers, as soon as they are filled, the waste is transferred to specialized organizations for subsequent disposal, neutralization and disposal of the waste on the basis of a license for collection, transportation, handling, disposal, neutralization and burial of Class I-IV waste.

The Engineering Division's facilities for long-term waste storage and disposal are out of operation.

In 2017, the total volume of waste production was reduced by 7% compared to 2016 and totaled in 5109,85 tons.

The low-hazard waste (IV class of hazard) and no significant hazard waste (V class of hazard) accounted for 58% and 41% respectively, of the total amount of waste production in 2017. As before, the main way to handle waste of IV - V hazard classes is to transfer them to specialized organizations for placement in landfill sites that have been included in the State Register of Waste Disposal Facilities (GRORO).

The volume of I and II hazard class wastes generated in 2017 increased by 30% and 25% respectively, as compared with 2016.

Increase of the amount of waste production in most cases was caused by increase of the number of personnel and tenants in administrative and office buildings, replacement of mercury-containing fluorescent tubes by LED ones. At the same time, the reduction in the volume of waste generation was due to reduction in the amount of works performed on certain construction sites, the maintenance and repair of transportation vehicles by third-party organizations on the contract basis and, therefore, the exclusion of waste generated from the technological process of organizations.

Table 26 Amount of discharge wastewater

Type of discharged waste water	Volume of discharged waste water, thous.m3		Name of accepting facility (company)
	No prior treatment	Upon purification on local treatment facilities	
JSC ASE EC **(Nizhny Novgorod and Nizhny Novgorod region)**			
Domestic	20.532	-	Nizhegorodsky Water Channel
Production	-	-	-
Storm waters	no records	-	-
JSC ASE EC Volgodonsk Branch Office			
Domestic	25.4	-	Central treatment facilities of RoNPP
Production	-	-	-
Storm waters	-	-	-
JSC ASE EC Kursk Branch Office			
Domestic	-	-	-
Industrial (header drainage)	7,420.4	-	the Seym River (CHER/DNEPR/892/360)
Storm waters	-	-	-
JSC ASE EC Baltic Branch Office			
Domestic	-	9.32	IN-18-8 channel

Type of discharged waste water	Volume of discharged waste water, thous.m3		Name of accepting facility (company)
	No prior treatment	Upon purification on local treatment facilities	
Production	-	-	-
Storm waters	-	99.34	IN-18-8 channel
JSC ASE EC Representative Office in the Republic of Belarus			
Domestic	-	7.00	Ostovetskoye RUE for housing and community amenities
Production	-	-	-
Storm waters	-	-	-
JSC ASE			
Domestic	15.43	-	Moswaterchannel JSC
Production	-	-	-
Storm waters	8.91	-	Mosvodostok SUE
JSC ATOMPROEKT			
Domestic	30.38	-	SUE Vodokanal SPb
Production	-	-	-
Storm waters	10.30	-	SUE Vodokanal SPb
JSC Atomenergoproekt			
Domestic	29.30	-	Moswaterchannel JSC

Type of discharged waste water	Volume of discharged waste water, thous.m3		Name of accepting facility (company)
	No prior treatment	Upon purification on local treatment facilities	
Production	0.43	-	
Storm waters	1.39	-	Mosvodostok SUE
VDMU LLC			
Domestic	no drains discharge		
Production			
Storm waters			
Trest RosSEM LLC			
Domestic	no drains discharge		
Production			
Storm waters			
SMU NO.1 LLC			
Domestic	2.93	-	The drainage is accepted by the General Contractor - VF JSC ASE EC
Production	-	-	-
Storm waters	-	-	-
JSC NIKIMT-Atomstroy			
Domestic	28,396	-	Moswaterchannel JSC

Type of discharged waste water	**Volume of discharged waste water, thous.m3**		**Name of accepting facility (company)**
	No prior treatment	**Upon purification on local treatment facilities**	
Production	-	-	
Storm waters	47.502	-	Mosvodostok SUE
PJSC Energospezmontazh			
Domestic	no drains discharge		
Production			
Storm waters			
SPB NIII EIZ JSC			
Domestic	No	No	SUE Water channel of Saint-Petersburg
Production	No	No	SUE Water channel of Saint-Petersburg
Storm waters	No	No	SUE Water channel of Saint-Petersburg