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|  | Enclosure № 1 to letter dtd \_\_\_\_\_\_\_\_\_ № \_\_\_\_\_\_\_\_\_\_\_ |

**Curricula Vitae of the candidates to be dispatched to Tehran to TAVANA Co.**

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| Full name: | **Nikolai A. Vinogradov** |
| Date of birth: | 08.10.1965 |

***EDUCATION/QUALIFICATION:***

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| Dates of study | *Type of education (higher, secondary technical, secondary), name of educational institution, specialty/qualification* |
| *1986 – 1991* | Higher education, Ivanovo Power Engineering Institute. Engineer on NPP operation, technologies |

WORK EXPERIENCE (main stages)***:***

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| ***Working period (month,year)*** | ***Name of the company, job position, experience on the specialty, at Bushehr NPP site in particular*** |
| *1991 – 2001**2001 – 2016**2016 – till present* | Bilibino NPP (Unit control engineer, mechanical engineer, shift supervisor of the power plant).JSC «Concern Rosenergoatom», filiation «Scientific-and-technical center on emergency and service activities at NPP» (chief specialist, head of department, deputy director).Technological filiation of JSC «Concern Rosenergoatom», head of department. |
| *2011 – till present**2012**2013**2013 – till present* | Responsible for preparation, maintenance and monitoring of actions plans performance results to mitigate beyond design-basis accidents consequences on JSC Concern Rosenergoatom NPPs (post-Fukushima actions).Elaborated stress-test report for Beloyarsk NPP and Bilibino NPP.Elaborated «Branch-wise activities program aimed at prevention and mitigation of beyond design-basis accidents consequences on JSC Concern Rosenergoatom NPPs.Participated in working documentation elaboration for scheduled design decisions implementation:* allocation/installation of mobile emergency-control machinery (diesel generators, diesel pumps, engine-driven pumps);
* connection of mobile emergency-control machinery (diesel generators, diesel pumps, engine-driven pumps) to the loads.

Takes part in annual comprehensive emergency drills at Russian NPP, mobile emergency-control machinery employed. |

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| Full name: | **Aleksey D. Kosov** |
| Date of birth: | 08.06.1980 |

***EDUCATION/QUALIFICATION:***

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| *Dates of study*  | *Type of education (higher, secondary technical, secondary), name of educational institution, specialty/qualification* |
| *1997 – 2003**Decorations* | Higher education, Moscow Engineering and Physics institute (Technical University)- S.V. Kirienko’s grateful letter (December 2013);- Memorial sign «25 years to NPPERT group» based on order dtd. 13.11.2012 № 9/10 41-П;- Silver medal «Medal of Service for nuclear power plants safety enhancement», order dtd 20.05.2014 № 478/к;- Gratitude of Rosenergoatom Concern JSC General Director (October 2016). |

***WORK EXPERIENCE (main stages):***

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| *Working period (month, year)* | *Name of the company, job position, experience on the specialty, at Bushehr NPP site in particular (if any)* |
| *from 2003 till present* *2016 – 2017* *2003 – 2016*  | JSC VNIIAESDivision Deputy Head – Department managerDepartment manager, lab head, principal engineer, research worker, engineer |
|  | ***English language*** *– medium level.* |
| ***Projects participation*** |
|  | * Participation in elaboration of «Foundational report» and «Site parameters report» for Akkuhu NPP
* Annual arrangement, performance and analysis of emergency response drills and comprehensive emergency response exercises results at NPP, NPPERT engaged
* Participation in operations on Novovoronezh NPP Unit No.4 lifetime extension
* Participation in the activities on NPP preparation to OSART mission in the area of “Severe accidents management and accident-prevention availability”
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| Full name: | **Alexander F. Getman** |
| Date of birth: | 23.08.1942 |

***EDUCATION/QUALIFICATION:***

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| *Dates of study*  | *Type of education (higher, secondary technical, secondary), name of educational institution, speciality/qualification* |
| *1959– 1967**1967 – 1972**1985**1989* | Higher education, Moscow Engineering and Physics institute (MEPI); Engineer physicist on specialty “strength physics”. Postgraduate study at Strength problem institute of Ukrainian Academy of science; Candidate of Technical science.Defense of a thesis for academic degree Doctor of technical science. Gained an academic status of a professor for course of lectures at the Institute of Advanced training IAT ENERGO |

***WORK EXPERIENCE (main stages):***

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| *Working period (month, year)* | *Name of the company, job position, experience on the specialty, at Bushehr NPP site in particular (если есть)* |
| *С 1975 till present* | *JSC VNIIAES* |
| *1975-1985**1985 – 1987**1987 1995**1995 – 2005**2005 – 2015**2015 till present**В 2016**Participation in IAEA activities,**Resent participation 2012 – 2016* | Strength sector managerStrength laboratory headStrength, welding and material science section managerChief research workerStrength and strength reliability department managerNPP reliability department managerInvolved in Bushehr NPP preparation to OSART mission IAEA. International ageing lessons (IGALL)***English language:*** *reading without dict., spoken– limited list of topics.* |

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| Full name: | **Nikolai N. Soldatov** |
| Date of birth: | 1963  |

***EDUCATION/QUALIFICATION:***

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| *Dates of study*  | *Type of education (higher, secondary technical, secondary), name of educational institution, speciality/qualification, (приложить копию диплома)* |
| *1980-1986* | Higher education. Tomsk Polytechnic institute, specialty «Nuclear power plants and installations». |
|  | Engineering and managerial advance training (eleven certificates), including chemical technology and radioactive substances (RS) and radioactive waste (RW) accounting courses. |
|  | Training on topic: «Elaboration and implementation of professional safety and health management system in compliance with OHSAS 18001:2007. Identification of hazards and risk assessment at workplaces». |
|  | Qualification in the Territorial qualifying commission of CM FS for ecological, process and nuclear surveillance in Tver district territory. |
|  | Studied liquid and solid RW treatment systems operation experience at CIS and Russian enterprises (RPA «Rodon» Zagorsk, Lenspetskombinat, Balakovo NPP, South-Ukrainian NPP, Kola NPP) and abroad (RW treatment industrial complex in Mol (Belgium), Belgian NPP – Doel, Tihange, Paks NPP in Hungary, Dukovany and Temelin NPP in Czechia). |
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***WORK EXPERIENCE (main stages):***

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| *Working period (month, year)* | *Name of the company, job position, experience on the specialty, at Bushehr NPP site in particular (if any)* |
| *1988-1997**1998**1998-2002**1998-2016**from 2017* | Kalinin NPP, Chemical shop active water treatment process engineer.Kalinin NPP, Chemical shop shift supervisor.Headed activity on RW reduction at Kalinin NPP under an order.Kalinin NPP, 2-nd construction stage chemical shop operation principal engineer with the right to substitute Deputy shop manager for operation and Chief process engineer. Acting Deputy shop manager for operation.JSC VNIIAES, Chief specialist.Drew up «Analytical note on liquid radioactive waste (LRW) reduction with a view to decrease dose exposure to Bushehr NPP personnel and financial expenditures. |
|  | Expert of WANO on peer reviews (Kalinin NPP in 2007 and FSUE Atomflot in 2010 and 2012) and technical workshops performance (Hungary (2013), Czechia (2014), Kola NPP (2015)). |
|  | Participation in international meetings on RW handling and chemical technology (Czechia, Belgium, Hungary (2013), Czechia (2014), Kola NPP (2015) and STAC (2015), МНТК (2016)). |
|  | Preparation of Kalinin NPP to OSART mission in the following areas:«Chemistry», «Marking», «Operational order», «Interaction «Individual-technology-company». |
|  | Supervised construction, analyzed design and estimate documentation (DED), carried out pre-commissioning operations and Kalinin NPP Units 3 and 4 startup. |
|  | Maintenance of NPP water chemistry (WC). |
|  | Implemented liquid radioactive waste treatment technology through asphalt based solidification. Put into operation the only asphalt based solidification plant at VVER NPP within Russia and CIS. |
|  | Reduced liquid radioactive waste at Kalinin NPP down to the level of the best foreign NPP. |
|  | Elaborated stepwise programs algorithms for UDP, AWT and asphalt based solidification plant systems management. |

***Awards***

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|  | Silver medal of Rosenergoatom Concern JSC for merits in NPP safety enhancement. |
|  | Winner’s medal in All-Russia competition «Engineer of the Year-2006» in category «Atomic Power Engineering». Awarded the title of a professional engineer of Russia. Certificate №7-68. |
|  | «Best labor protection worker of Rosenergoatom Concern JSC according to work results for 2009» |
|  | Badge of merit in labor and title "Veteran of atomic power engineering and industry» |
|  | REA medal "50 years of Atomic power engineering of Russia" |

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| Full name: | **Viktor I. Polyakh** |
| Date of birth: | 05.01.1951 |

***EDUCATION/QUALIFICATION:***

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| Higher education – mechanical engineer, study on mechanical and mathematical faculty (specialization at chair «Theory of elasticity and strength of materials») of Saratov State university, Saratov.***Advanced training:*** During employment at Rosenergoatom Concern JSC enterprises according to the system accepted in the branch he was periodically trained additionally in the RF advance training centers to respective positions. Additionally:- «Techniques and methods of NPP metal control in Germany», «Siemens», (1996);- «Metal control instruments specimenless methods», Germany, «Belek» (2004). |

***WORK EXPERIENCE (main stages):***

*Kola NPP: 14 years, Balakovo NPP -17years, RRC «Kurchatov Institute»-5 years,
JSC VNIIAES - 3 years.*

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| *Working period (month, year)* | *Name of the company, job position, experience on the specialty, at Bushehr NPP site in particular (if any)* |
| *from 2014 till present* | JSC VNIIAES, MoscowProject manager of NPP lifetime management section of reliability department  |
| *2008 – 2013* | RRC «Kurchatov Institute», MoscowDeputy department manager of the Institute of reactor material science |
| *2006 – 2007* | FSUE NIAEP Construction management, «GlavUKS» of the Concern for electric power production at NPP, MoscowDeputy department manager  |
| *1989 – 2006* | «Balakovo NPP» - Rosenergoatom Concern JSC subsidiary Senior foreman, metal laboratory head, department manager of NPP metal science and flaw detection |
| *1975 – 1989*  | «Kola NPP» - Rosenergoatom Concern JSC subsidiaryEngineer, senior engineer, NPP metal laboratory head |
| ***Personal qualities:*** *tolerant attitudes, thorough preparation to any work performance, broad-based knowledge .****Languages:*** *German.* |

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| Full name: | **Valeri I. Baranenko** |
| Date of birth: | 09.11.1938 |

***EDUCATION/QUALIFICATION:***

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| *Dates of study*  | *Type of education (higher, secondary technical, secondary), name of educational institution, speciality/qualification* |
| *1957 – 1963**1971**1989* *1982****Awards*** | Higher education, Nikolaev shipbuilding instituteCandidate of technical scienceDoctor of technical science Professor- Veteran of atomic power engineering and industry |

***WORK EXPERIENCE (main stages):***

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| --- | --- |
| *Working period (month, year)* | *Type of education (higher, secondary technical, secondary), name of educational institution, specialty/qualification* |
| *Bushehr November – December 2013.* *from 1997 till present*  | Participation in WANO missionJSC VNIIAES Chief research worker  |
|  | ***English language*** – *fluent* |

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| ***Participation in projects*** |
| * Project: Accounting code elaboration for minimum acceptable thickness of equipment and pipelines elements subject to corrosion at VVER-1000 NPP
* Project: Software customization for equipment corrosion velocity and walls thinning value calculation with single-phase medium, subject to corrosion at VVER-1000 NPP
* Project: Software customization for equipment corrosion velocity and walls thinning value calculation with double-phase medium, subject to corrosion at VVER-1000 NPP
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| Full name:  | **Alexander Yu. Kusmichevsky** |
| Date of birth: | 16.04.1984 |

***EDUCATION/QUALIFICATION:***

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| *Dates of study*  | *Type of education (higher, secondary technical, secondary), name of educational institution, speciality/qualification* |
| ***2001 – 2007******2006******2011******2012******2010 -1014*** | MEPI, Obninsk branch. Engineer physicist on systematic analysisAdvanced training. Microsoft Certificate 70-270Advanced training. Modern methods of reliability and safety analysis based on ageingAdvanced training. Audit of quality management system Postgraduate study. Ph.D defense, May 2014 |

***WORK EXPERIENCE (main stages):***

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| *September 2007 – till present)* | JSC VNIIAES |
| *2014 - 2015* | Activities performance for Armenian NPP |
| *2011 - 2016* | Activities performance for Mohovce NPP, Slovakia |
|  | ***English language*** *– reading with dict.* |