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**To: Mr. Hossein Ghaffari, Bushehr NPP President & CEO**  
**Copy: Mr. Hamid Azarbad, WANO-MC On-Site Representative at Bushehr NPP**  
**From: WANO Moscow Centre Director Mr. Aksenov**  
**Subject: World Nuclear Power Museum**

Dear Colleagues,

Let us remind you, that since July 2016 WANO Moscow Centre acts as the main operator to collect the data for the Museum of World Nuclear Power in Obninsk city across WANO, to arrange the collection of this information, process it and prepare the presentation for the museum contents.

The intention to create the Museum of World Nuclear Power in Obninsk city, the city of the first nuclear plant in the world, was proved by signing an appropriate memorandum in 2016 by WANO Chairman Mr. Regaldo. A huge preparatory work in different fields has been done for launching this project. In terms of WANO participation in it along with the partners, there was a work plan agreed with Mr. Jacques Regaldo on 2<sup>nd</sup> March 2017.

**Please be advised, that at the moment WANO Moscow Center finds itself on the stage of collecting primary content for the World Nuclear Power Museum project. Therefore, we kindly ask you to provide a contribution into this work and fulfill the questionnaire-form about the history of your NPP (we do this kind of request to all of the NPPs in the world)**

The information based on the history of Nuclear Power and actual principles of safe operation of nuclear power plants will become a virtual asset for all WANO centers and similar museum sites of nuclear power in the world. It is also planned to use ORAD system for creating 3D objects of any complexity on the site of WNP. In future MC plans to organize work on creation of WANO Museum inside the World Nuclear Power Museum.

## **WANO objectives to reach by this project:**

### **1) Implementation of the basic principles of WANO development – (Compass) p.2 & p.3**

For creation of human resources – attraction and bringing up of the young generation, passing the veterans experience to them (using the Museum as an education center).

To strength WANO union and cohesion – a single chronology of nuclear power events, WANO history, history of correcting the mistakes, sharing the information and demonstration of the principles

### **2) The Museum is the united informational and educational space of WANO to create the informational and image platform in the field of nuclear power on the Museum basis**

Promoting WANO mission and concept – to have WANO own constant exposition in museum in future

Holding WANO thematic conferences and seminars at the Museum

Holding training and regular WANO courses – WANO young generations school

Etc. at the Museum

Holding WANO award ceremonies, appointments and presentation of initiations at the museum

Using museum as a place for holding GB of WANO MC, and in the future – for holding WANO Main Governing Board

We kindly ask you to provide assistance and collect the necessary primary information (see Attachment: questionnaire-form and example case) for processing within Moscow Center and transferring to the WNP Museum.

Thank you in advance for your kind support.

Let us know if there is any other information that you would like to know.

Kind regards,

**Mr. Vasily Aksenov**  
**Director**  
**WANO Moscow Centre**



Application 1. Memorandum on the World Nuclear Power Museum

Application 2. Information questionnaire-form form for each NPP and the example case

Application 3. WANO-WNP mailbox information

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## Application 1. Memorandum on the World Nuclear Power

### **MEMORANDUM** **on the world nuclear energy museum at Obninsk**

**Administration of Obninsk, World Association of Nuclear Operators, and Nuclear Society of Russia on occasion of 60<sup>th</sup> anniversary of Obninsk for the purpose of:**

Development of cultural and historical, educational and elucidative infrastructure of Obninsk – the satellite town of the first NPP in the world – for the townsfolk, general public and mass media;

Establishment of the site for demonstration of the major principles of world nuclear power development, fostering of solidarity and unity of nuclear professionals, for communication of veterans and acting professionals – managers of the national nuclear industries and NPP directors, specialists and experts, knowledge and experience transfer to young professionals, for engagement and development of young generation – students and pupils, for information and experience exchange with the NPP public relations centers worldwide, fostering twinning relationships between the NPP satellite towns;

Development of the tourist infrastructure at Kaluga region based on the museum pieces of high-tech legacy

**consider it necessary and express intention to establish the Museum of world nuclear power at Obninsk.**



**V.V. Shapsha**  
Head,  
Obninsk  
Administration



**J. Regaldo**  
Chairman,  
WANO



**S.V. Kushnarev**  
Executive vice-president,  
Nuclear Society of Russia

**14 July 2016    Obninsk**

## **Application 2. Information form for each NPP**

**1 full name of NPP, country, location**

**2 operating organization (operation organizations, if they have changes)**

**3 dates of the foundation, building, commissioning – of each NPP units, dates of decommissioning – for each power unit**

**4 nuclear reactor type (reactors) – by nuclear power units with indication of reactor capacity and manufacturer**

**5 list of the full names of all directors by appointment dates from the first to the current one with brief information about each of WANO**

**6 photos (especially some exclusive rarities of particular NPP), video footage, 3D models for each power unit, other interesting historical info**

**7 availability of public information center at NPP, contact data (web site)**

## Example case

### **Information on Balakovo NPP for WANO MC (for passing to the WNP Museum)**

#### **1. Full name and location:**

- full name: JSC "Concern Rosenergoatom" branch «Balakovo Nuclear Power Plant» (Balakovo NPP);
- country: Russia;
- location: Natalyin municipal unit, Balakovo municipal area, Saratov province.

#### **2. Operating organizations:**

- Ministry of Energy and Electrification of USSR – 1977-1989;
- Ministry of Nuclear Energy and Industry of USSR - till 1992 r.;
- Ministry of Russian Federation of Nuclear Energy (since 2007 – State Corporation of Nuclear Energy «ROSATOM») – till 1992;
- State enterprise «Russian State Concern of Electric and Heat Energy Production on Nuclear Power Plants» (SE «Concern «Rosenergoatom») – till 2002;
- Federal state unitary enterprise «Russian State Concern for Electric and Heat Energy production on Nuclear Power Plants» (FSUE «Concern «Rosenergoatom») – till 2008;
- Open joint stock company «Concern for Electric and Heat Energy Production on Nuclear Power Plants» (OJSC «Concern «Energoatom») – till 2009;
- Open joint stock company «Russian Concern for Electric and Heat Energy Production on Nuclear Power Plants» (OJSC «Concern «Rosenergoatom») – till 2015;
- Joint stock company «Russian Concern for Electric and Heat Energy Production on Nuclear Power Plants» (JSC «Concern «Rosenergoatom») – till 2015.

#### **3. First concrete dates, constructions, start-ups, decommissionings:**

- unit №1: first concrete – 28.10.1977, start up – 24 December 1985, decommissioning – 2045 r. (life cycle was extended for 30 years over project term in 2015);
- unit №2: first concrete – April 1981, start up – 10 October 1987, decommissioning (upon the project) – 2017 (the works on life cycle extension over the project term are being held at the moment);
- unit №3: first concrete – May 1982 r., start up – 24 December 1988, decommissioning (upon the project) – 2018 (the works on life cycle extension over the project term are being held at the moment);
- unit №4: first concrete – May 1983, start up – 11 April 1993 decommissioning (upon the project) – 2023 ((the works on life cycle extension over the project term are being held at the moment).

#### **4. Each unit reactor type with power indicator and producer:**

- unit №1: VVER-1000: two-circuit power reactor VVER-1000 of 1000 MW power, producer – Production Unit «Atommas»;
- unit №2: : two-circuit power reactor VVER-1000 of 1000 MW power, producer – Production Unit «Izhorskiye zavody»;
- unit №3: two-circuit power reactor VVER-1000 of 1000 MW power, producer – Production Unit «Izhorskiye zavody»;
- unit №4: VVER-1000: two-circuit power reactor VVER-1000 of 1000 MW power, producer – Production Unit «Atommas»;

#### **5. Full names of Balakovo NPP Directors, short info about them:**

**Director of under-construction Balakovo NPP Dmitry Trofimovich SHUTYUK  
(work period on duty - 1977-1982)**

Mr. Shutyuk was working as a Smolensk NPP Deputy Chief Engineer in 1970-1977, and before that he was taking various positions at Siberia Chemistry Integrated Producer of USSR Medium Machine Building Ministry (1955-1970). He is rewarded with Medal «For work valor» и «For valorous work. To commemorate 100 years since Lenin Birth Day».

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**Balakovo NPP Director Vladimir Yemelyanovich MASLOV  
(work period on duty - 1982-1989 rr.)**

Mr. Maslov was working on Beloyarsk NPP in 1961-1982, where he has made his career from Head Master to Deputy Director. In 1989 he was appointed a Head of Soviet experts group for Nuclear Power in German Democratic Republic. Since 1991 till his death in 1998 he was taking a position of Balakovo NPP Deputy Director – Head of external economic service of the station. He was rewarded with The Labour Red Banner and The October Revolution Orders, the Medal « For Valorous Work».

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**Balakovo NPP Director IPATOV Pavel Leonidovich  
(work period on duty - 1989-2005)**

Mr. Ipatov was working as a Chief Engineer of Balakovo NPP in 1985-1989, and before that at Uzhno-Ukrainskaya NPP in 1980-1985 (station shift supervisor). 2005-2012 – Governor of Saratov province. From 2012 he was working in central office of concern Rosenergoatom, at the current time – Deputy Director General – Director of Special Projects and Initiatives of JSC «Concern Rosenergoatom». Mr. Ipatov is awarded with The Labour Red Banner Order, The Order of Nations Friendship and The Order of Honor, Council of Ministers Prize, Award of Government of Russia in area of science and technics, The Peter The Great National Public Prize.

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**Deputy Director General – Director of JSC «Concern Rosenergoatom» branch IGNATOV Viktor Igorevich  
(work period on duty - 1989-2005- 2005-2016 rr.)**

Mr. Ignatov served as a Balakovo NPP Chief Engineer on 1990-2005, and before that, in 1976-1990 – on Kola, South-Ukraine and Krmelnitsky NPPs (station Deputy Chief Engineer). From 2016 – Deputy Director General – Director of JSC «Concern Rosenergoatom» branch «Kalinin Nuclear Power Plant». Mr. Ignatov is awarded with The Order of Nations Friendship and The Medal «For Merit to the Motherland» II level, Golden and Silver Medals of concern «Rosenergoatom» «For the service in enhancing security of nuclear power plants», also he is rewarded with Government of Russia Prize in the area of science and technics, numerous insignias and charters, he has a title of «Nuclear Power Veteran».

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**Deputy Director General – Director of JSC «Concern Rosenergoatom» branch Mr. BESSONOV Valeriy Nikolaevich  
(on duty since 2016)**

Mr. Bessonov is working on Balakovo NPP since 1987. Before he was appointed a Director, he made a career path from shift supervisor to the station Head Engineer (from 2009). Earlier, he was serving as an Engineer on Novovoronezh NPP (1980-1983) and at Enterprise Unity «Novovoronezhatomenergoprom». Mr. Bessonov is entitled «Honored Power Engineer of Russian

Federation» » and «Veteran of nuclear power», he is rewarded with Silver Medal of Concern Rosenergoatom «For merit in nuclear power plants safety enhancement», honored Medal «For the high innovative achievements» and other rewards.

## **6. Photos:**

Download using the link: [link](#)

## **7. NPP Information Center and contacts**

Balakovo NPP owns an Information Center.

Contacts of the Information Center of Balakovo NPP:

- post address of the Information Center of Balakovo NPP: 413863, 67B Leonova Embankment, Balakovo city, Saratov province;
- tel./fax of the Information Center of Balakovo NPP: +7 (8453) 62-84-82;
- autoreply of the Information Center of Balakovo NPP: (8453) 62-22-20;
- e-mail of the Information Center of Balakovo NPP: [iso@balaes.ru](mailto:iso@balaes.ru);
- web-page of the Information Center of Balakovo NPP: [www.balatom.ru](http://www.balatom.ru).

Contacts of Balakovo NPP:

- post address of Balakovo NPP: 413866, Balakovo City, Saratov Province
- fax of Balakovo NPP: (8453) 33-26-38;
- e-mail of Balakovo NPP l: [npp@balaes.ru](mailto:npp@balaes.ru);
- web-page of Balakovo NPP: [www.balnpp.rosenergoatom.ru](http://www.balnpp.rosenergoatom.ru)

### Application 3. WANO-WNP mailbox information

WANO-MC mail box for sending the information upon WANO MC request for World Nuclear Museum is

[WANOmuseum@wanomc.ru](mailto:WANOmuseum@wanomc.ru)

Files less than 2.8MB can be sent directly by attaching to the mail.

Files more than 2.8MB will be declined by mail server.

If it is necessary to send a file bigger than 2.8MB (video, photos, high definition scans etc.), then first upload this file to any server with internet access (f.i. yandex.disk, google drive, ftp-server) and send a link to this file via e-mail (along with the login and password for downloading, in case the file was uploaded to the server with restricted access).