<table>
<thead>
<tr>
<th>Parameter</th>
<th>VVER-1000</th>
<th>VVER-1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal thermal capacity, MW</td>
<td>3000</td>
<td>3200</td>
</tr>
<tr>
<td>Nominal electric capacity, MW</td>
<td>1000</td>
<td>1200</td>
</tr>
<tr>
<td>Nominal pressure of the 1\textsuperscript{st} loop, MPa</td>
<td>15,7</td>
<td>16,2</td>
</tr>
<tr>
<td>Nominal pressure in SGs, MPa</td>
<td>6,27</td>
<td>6,9</td>
</tr>
<tr>
<td>Nominal steam capacity of SG, t/h</td>
<td>1470</td>
<td>1602</td>
</tr>
</tbody>
</table>
RESISTANCE TO EXTERNAL IMPACTS

- Robustness to the snow and ice load
- Increased wind resistance (hurricanes, tornados)
- Aircraft crash resistance
- Increased seismic robustness
- Resistance to external explosions
SAFETY SYSTEMS OF VVER-1200

Compared to VVER-1000, additional safety systems are provided:

1. Second hydraulic tanks stage of the passive core cooling system;
2. Passive heat removal system;
3. Double protective shell;
4. Passive filtration system of the intershell space;
5. Emergency SGs cooling system (closed loop);
6. Melt localization system (core catcher).
REACTOR SYSTEM V-392M

- Hydraulic tanks
- Reactor
- Pressurizer
- Steam generators
- Main circulation pumps
- Bubbler
Each of 8 HT contains 120 m³ of boric acid solution providing feed-up of the reactor during 26-280 hours (dependent on the rate of the 1st loop leak) upon failure of the active safety systems including the plant blackout.
PASSIVE HEAT REMOVAL SYSTEM

**PHRS (4 channels)** with 2 air-cooled heat exchangers in each channel. Thermal capacity of each is 8 MW. Action period is unlimited.
PFS provides air exhaustion and discharge of the internal shell leakages to the atmosphere after deep cleaning upon failure of the active safety systems including the plant blackout. Action period is unlimited.
2 channel of emergency steam generators cooling system (2 pumps in each channel) with closed loop.

Action period is unlimited.
COMMISSIONING OF NOVOVORONEZHG-6 – A UNIT OF GENERATION 3+

Fuel loading 24.03.2016
First criticality 19.05.2016
Energy startup 08.07.2016
Connection to the grid 05.08.2016
100% power level 26.10.2016
Start of commercial operation 27.02.2017