

## Introduction of Production System Rosatom (PSR)

Since 2009 the Production System Rosatom (PSR) has been introduced into enterprises of the industry. PSR is based on the principles of the efficiency enhancement system of Toyota recognized as one of the most successful programs in this sphere. PSR helps to increase efficiency and quality, reduce expenditures and time of work performance and achieve maximum satisfaction of customer's requirements. Application of PSR tools facilitates the reduction in time of NPP generating unit construction and in cost of work due to a more effective process control system.

Results of PSR introduction in 2012:

- Reduction in total duration of production processes on generating units 3 and 4 of the Rostov NPP by 100 days;
- Development of opportunity to issue actual weekly-daily task (with application of the Multi-D system);
- Execution of the first stage of work on introduction of bar-coding system for stock in warehouses of the Volgodonsk Branch;
- Twofold reduction in accident frequency on the construction site of the Rostov NPP;
- 5% increase in efficiency during designing operations (field engineering) at the Rostov NPP.

**An important part of PSR introduction consists in staff training. In 2012 NIAEP obtained a state license for training according to the Production System Rosatom Program. Currently, the central platform for training on this program is the Rostov NPP. Upon completion of training, participants of the program gain a state-recognized degree.**

Due to the PSR introduction the time of work performance during execution of pilot projects was reduced (see Table 5.2).

2013 Arrangements on PSR introduction include reduction in duration of production cycles at the Rostov NPP, the Baltic NPP, and the Yuzhnouralsk TPP.

### Table 5.2. Results of PSR Introduction in 2012



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Project	Results of PSR Introduction
Manufacturing, mounting and casting of cornice and crown of the reactor compartment confinement blocks of Rostov NPP generating unit 3	Reduction of production cycle by 153 days
Construction of the 1 <sup>st</sup> confinement tier of Rostov NPP generating unit 4	Reduction of production cycle by 55 days
Mounting and reinforcement of the 1 <sup>st</sup> confinement tier of Rostov NPP generating unit 4	Reduction of production cycle by 55 days
Manufacturing, mounting and casting of foundation plate at the level of +1,200 of Rostov NPP generating unit 4	Reduction of production cycle by 15 days



**Multi-D**  
engineering