

## NPP Lifecycle Management System

Pursuant to the results of the session of the Russian Federation Presidential Committee for Modernization and Technological Development of the Russian Economy which took place on July 22, 2009, the President of Russia set a challenge before the nuclear industry to optimize performance characteristics of pressurized water reactors and create VVER-TOI Project (see Section 2. Strategy). Solving this task the Integrated Company elaborates the NPP Generating Unit Lifecycle Management System.

The NPP Generating Unit Lifecycle Management System is designed to provide the VVER-TOI Project participants with access to relevant information about a generating unit. The system provides for informational cooperation both of participants of one NPP unit lifecycle stage, and of participants of various stages.

Within the frames of establishment of the Lifecycle Management System the Integrated Company plans to elaborate the unified information model of VVER-TOI and create an organizational and functional model (OFM) of the VVER-TOI lifecycle management (see Table 6.1).

**Table 6.1. VVER-TOI Project Key Indices**



Within the frames of the VVER-TOI Project in the period from 2011 to 2012 work was carried out on creation of lifecycle management system with results as follows:

*Table 6.1. VVER-TOI Project Key Indices*

Index	Value
NPP construction time, months	40
Reduction in marginal commercial unit construction costs, %	20
Reduction in project generating unit operating costs, %	10

Repository of unified information model of generating unit;

Repository of organizational and functional model;

Package of organizational and methodical documents on design and construction process management including description of business-processes at NPP design and construction stages, generating unit configuration management standard; standard for management of changes in basic project part, standard for connection of the VVER-TOI Project to sites of NPP under construction.

In the reporting year the volume of investments to elaboration of Lifecycle Management System amounted to 176.4 million rubles.

In 2013 it is planned to perform trial operation and preparation for pilot commissioning of elements of the NPP Generating Unit Lifecycle Management System as it pertains to cooperation with the Multi-D technology.



**Multi-D**  
*engineering*