

Appendix 12. Additional information to chapter “Manufactured Capital”

Table 12.1 - Reducing the time of designing and construction as a result of implementation of Rosatom Production System projects (RPS)

Plans for reduction of the time period Project	Purpose	
	Days	% of the basis status
Kursk NPP-2		
Completion of arrangement of outer contour walls from elevation - 5.450 till elevation -2.150 in axes 3-5 of reactor building (10 UJA)”	48	23%
Optimization of processes to achieve the milestone Molten Corium Trap Installation at Kursk NPP-2 Unit 1	67	47%
“Reduced time of process of CEW completion for workshop of manufacturing of reinforced metal blocks at Kursk NPP-2 construction base”	13	3,2%
Handover of artificial foundation for installation of sensors under 20UJA foundation slab of Kursk NPP-2	13	6,2%
Start of concreting of the foundation slab of the Unit pump station (10URS) at Kursk-2 NPP	4	2%
Completion of arrangement of the concrete bedding of the foundation slab at Kursk-2 NPP 20 UJA building	21	32%
Novovoronezh NPP-2		
Optimization of the process of installation and termination of auxiliary transducers 20CPW03, 20CPW04, 20CPW05 KTH for stage PIC at Novovoronezh NPP-2 Unit 2	2	200
Reduction of the time of equipment and pipelines installation for filling of the spent fuel pool at Novovoronezh NPP-2 Unit 2	30	57
Optimization of the process of installation of stage 1 CEP 20LCB11-13AP001 at Novovoronezh NPP-2 Unit 2	32	64
Reduction of the time of QTZ-315 tower crane installation at Novovoronezh NPP-2 Unit 2	14	67
Enhancement of performance of installation of the physical barriers at 20 UKC facility of Novovoronezh NPP-2 Unit 2	18	56
Reduction of the time of installation of 20PAH15AP001, 20PAH25AP001, 20PAH35AP001, 20PAH45AP001 locks for ball return pumps at Novovoronezh NPP-2 Unit 2	4	50
Reduction of time of alignment of the HPC flow channel at Novovoronezh NPP-2 Unit 2	9	64
Optimization of the process of the fire alarm installation in 20URS building at NPP-2	83	79
Reduction of installation of temporary pipelines designated for HT providing cold and hot trial run at NVNPP-2	15	43
Reduction of time of heat and installation works performance for 21UBN facility at NVNPP-2	40	83
Optimization of process of installation of PGB50-60 systems in 20 UKC building at NVNPP-2	37	82
Enhancement of performance of physical barriers installation in 20 UMA building at NVNPP-2	1	40
Enhancement of performance of works for installation and termination of LCR cabinets at NVNPP-2	4	133
Enhancement of performance of works necessary for installation of separate drain pipeline (LCT47) in the turbine building at NVNPP-2	128	70
Optimization of time of reactor assembly	103	58
Optimization of time for installation of process pipelines for the cold and hot trial run stage	154	92
Reduction of time of heat installation works performance for 21UBN facility (Standby diesel power plant building of emergency electric power supply system at NVNPP-2 Unit 2).	33	73
Optimization of the SVCS cabinet installation process in 20 URS building at NVNPP-2 Unit 2	20	74

Plans for reduction of the time period Project	Purpose	
	Days	% of the basis status
Optimization of the installation process of 20LDF system pipeline at NVNPP-2 Unit 2	11	65
Optimization of availability and timely beginning of the working shift during installation of LSC system installation at NVNPP-2	30	40
Reduction of time of installation works for installation of DN57 pipeline of LCB system at 20UMA facility	21	58
Reduction of the time of installation of grids provided with the engineering security devices	11	52
Reduction of time of 20UMX roofing installation	21	84
Optimization of the process of availability and timely beginning of the working shift at NVNPP-2 of Yuhemets S.V team including 4 persons	30	59
Optimization of the process of availability and timely beginning of the working shift at NVNPP-2 of Kapustina D.V team including 4 persons	30	55
Reduction of time of installation works for installation of DN57 pipeline of LCB system at 20UMA facility	22	61
Reduction of the time of installation of grids equipped with the engineering security devices	10	48
Reduction of the time of handover of rooms for the cold phase stage A-3.1 Hydraulic Tests and Circulation Flushing of the Primary Circuit, substage A-3 cold and hot run	28	12
Optimization of process of performance of works for installation of 20 UJA ventilation systems, reactor building	117	89
Reduction of time of general construction works performance for 20URS Unit pump station facility	45	73
Reduction of time of installation of stator winding and thrust rings water cooling system	60	82
Reduction of time of pipelines installation at LCE10 system at 20UMA facility	30	67
Optimization of works for installation of LCQ50 pipeline system	69	75
Optimization of works for installation of LBG10-70 0002 pipeline system design	5	63
Optimization of works for installation of PGB60-70 pipeline system	10	30
Reduction of time of installation of MKF01-50 stator winding and thrust rings water cooling system in 20UMA building	63	86
Optimization of works for installation of KPN pipeline system design in 20 UKC building	70	81
Optimization of time of installation of LRAW solidification pipelines by means of KPN concreting in 20UKC building	70	81
Optimization of process of performance of works for finishing of 20 UJA rooms. Reactor building	98	75
Optimization of works for supply of power to SVCS cabinet in 20UMX building NVNPP-2 Unit 2	5	56
Reduction of time of revision of the crane rail in 20UJA building	3	21
RPS-projects NB-DC		
Optimization of the process of manufacturing of irrigator units	70	233
Optimization of process of achieving milestone Commencement of Hot and Cold Run at Novovoronezh NPP-2 Unit 2	158	79
Optimization of time of installation of high-voltage gas-insulated bus ducts at NVNPP-2	68	83
Optimization of process of agreement and permission procedures for obtaining the permission to performance of works by subcontractors at NVNPP2	12	69
Optimization of process of installation of unit removable heat insulation of equipment and pipelines of the primary circuit of Novovoronezh NPP-2 Unit 2	10	83
Reduction of the time of handover of rooms for the cold phase stage A-3.1 Hydraulic Tests and Circulation Flushing of the Primary	45	56

Plans for reduction of the time period Project	Purpose	
	Days	% of the basis status
Circuit, Substage A-3 cold and hot run		
Reduction of time of procedures of starting the hydraulic tests during NVNPP-2 Unit 2 construction	2	50
Overseas sites		
Belarus NPP		
Optimization of the process of MCP welding at Belarus NPP Unit 2	80	41
Reduction of time of termination of electric valves in 10UJA containment of Belarus NPP	14	50
Optimization of process of the modernized containment pre-stressing system installation and cable laying to stage of hydraulic tests and circulation flushing	120	46
Optimization of installation of ECCS tanks at Belarus NPP Unit 2	9	25
Installation of oil ducts of the control system	91	22
Optimization of installation of the autonomous fire-fighting system in 10UUC building	32	26
Optimization of the process of the dome arrangement of the reactor building exterior containment until elevation +59.850 of Belarus NPP Unit 1	470	41
Optimization of the process of laying of the cable conductor products for Physical Start-up stage of of Belarus NPP Unit 1	2	65
Rooppur NPP		
Optimization of the process of starting the foundation slab concreting of Rooppur NPP Unit 2 reactor building	214	45
Optimization of the process of customs clearance, supply and incoming inspection of materials and equipment	45	36
	10	50
	5	17
Optimization of process of passenger transportations between Rooppur NPP site and Dhaka International Airport	0	100
	0	75
Optimization of process of the incoming inspection of the molten corium trap casing	3	93
Optimization of the starting of installation of the molten corium trap casing	318	5
Optimization of process of the incoming inspection of the equipment for mechanization of the construction site	7	80
Implementation of the labor protection control at Rooppur NPP site	0	100
El-Dabaa NPP		
Optimization of process of development and handover to the Owner of the documentation for obtaining of the construction license for El-Dabaa NPP Units 1, 2	0	Fulfilled in the time of basic state
Akkuyu NPP		
Optimization of the process with the purpose of achieving the 1st concrete milestone during the construction of Akkuyu NPP Unit 1.	181	33
Obtaining TAEK license for construction of Akkuyu NPP Unit 1	183	33
Optimization of CEW at the Western berth of Akkuyu NPP	<i>In process of implementation</i>	