

Implementation of the Complex (Consolidated) Safety Upgrade Program of Power Units of Ukrainian Nuclear Power Plants during the IIIrd Quarter, 2019

The Complex (Consolidated) Safety Upgrade Program of Power Units of Ukrainian Nuclear Power Plants (CCSUP) was approved by the Decree of the Cabinet of Ministers of Ukraine No1270 of 07.12.2011. In 2012 the CCSUP was supplemented with additional measures according to conclusions of the National Report of Ukraine on results of specific reevaluation of nuclear facilities situated on NPP sites ("stress-tests"), taking into account the lessons from Japanese NPP "Fukushima-Daichi" accident of March, 2011.

The CCSUP document package (consolidated measures, their lists per power unit type, as well as each CCSUP action card) was published in the source language at the official web-site of SE NNEGC «Energoatom»:

http://www.energoatom.com.ua/ua/actvts-16/integrated_security_program-161/p/komplekt_dokumentiv_z_kzppb-4913

The implementation status of CCSUP initially planned and additional measures as of 30.09.2019 is provided in Tables 1, 2 and Tables 3, 4 accordingly.

Totally, as of 30.09.2019, 897 measures out of 1295 ones were completed and 398 ones are to be implemented, including about 50 measures planned to be completed to the end 2019.

Table 1 - Implementation of CCSUP initially planned measures (as of 30.09.2019)

NPP	Unit	Total Number of Measures	Completed	To Implement
SS ZNPP	ZNPP-1	77	67	10
	ZNPP-2	77	66	11
	ZNPP-3	76	56	20
	ZNPP-4	76	58	18
	ZNPP-5	76	35	41
	ZNPP-6	77	36	41
	Common	3	1	2
	Totally	462	319	143
SS RNPP	RNPP-1	54	42	12
	RNPP-2	53	42	11
	RNPP-3	79	67	12
	RNPP-4	79	63	16
	Common	5	3	2
	Totally	270	217	53
SS KhNPP	KhNPP-1	79	59	20
	KhNPP-2	79	56	23
	Common	4	3	1
	Totally	162	118	44
SS SUNPP	SUNPP-1	53	49	4
	SUNPP-2	53	44	9
	SUNPP-3	77	46	31
	Common	5	1	4
	Totally	188	140	48
TOTAL		1082	794	288

Table 2 - List of completed CCSUP initially planned measures as of 30.09.2019

NPP	Unit	Completed before reporting Quarter	Completed during reporting Quarter
ZNPP	Unit 1	10101, 11302, 11303, 11304, 12101, 12102, 12201, 12202, 12203, 12301, 13101, 13102, 13103, 13202, 13301, 13302, 13303, 13305, 13401, 13403, 13501,	

NPP	Unit	Completed before reporting Quarter	Completed during reporting Quarter
		13503, 13504, 13505, 13508, 13509, 14101, 14102, 14103, 14104, 14105, 14106, 14201, 14202, 14203, 14204, 14205, 14206, 14301, 14402, 14403, 14405, 14406, 15201, 15202, 15203, 15204, 15205, 15207, 15208, 15211, 15212, 16101, 16201, 16202, 16203, 17101, 17103, 17104, 17201, 19101, 19102, 19103, 19201, 19202, 19203, 19204	
	Unit 2	10101, 11302, 11303, 11304, 12101, 12102, 12201, 12202, 12203, 12301, 13101, 13102, 13103, 13202, 13301, 13302, 13303, 13305, 13401, 13403, 13503, 13504, 13505, 13508, 13509, 14101, 14102, 14103, 14104, 14105, 14106, 14201, 14202, 14203, 14204, 14205, 14206, 14301, 14402, 14403, 14405, 14406, 15201, 15203, 15204, 15205, 15207, 15208, 15211, 15212, 16101, 16201, 16202, 16203, 17101, 17103, 17104, 17201, 19101, 19102, 19103, 19201, 19202, 19203, 19204	13502,
	Unit 3	10101, 11303, 11304, 12101, 12102, 12201, 12202, 12203, 13101, 13102, 13103, 13202, 13301, 13302, 13303, 13305, 13401, 13403, 13501, 13503, 13504, 13505, 13508, 14102, 14103, 14104, 14106, 14201, 14202, 14203, 14204, 14205, 14206, 14301, 14402, 14403, 15201, 15202, 15203, 15205, 15207, 15211, 15212, 16101, 16201, 16202, 16203, 17101, 17201, 19101, 19102, 19103, 19201, 19202, 19203, 19204	
	Unit 4	10101, 11303, 11304, 12101, 12102, 12201, 12202, 12203, 13101, 13102, 13103, 13202, 13301, 13302, 13303, 13305, 13401, 13403, 13501, 13502, 13503, 13504, 13505, 13508, 13509, 14102, 14103, 14104, 14105, 14106, 14201, 14202, 14203, 14204, 14206, 14301, 14402, 14403, 14406, 15201, 15202, 15203, 15205, 15211, 15212, 16101, 16201, 16202, 16203, 17201, 19101, 19102, 19103, 19201, 19202, 19203, 19204	14205,
	Unit 5	11303, 11304, 12101, 12201, 12202, 12203, 13101, 13102, 13103, 13202, 13301, 13303, 13305, 13401, 13403, 13505, 13508, 14104, 14105, 14201, 14202, 14203, 14206, 14402, 15203, 15205, 15211, 16203, 17102, 19101, 19102, 19201, 19202, 19203, 19204	
	Unit 6	11303, 11304, 12101, 12201, 12202, 12203, 13101, 13102, 13103, 13202, 13301, 13303, 13305, 13401, 13403, 13504, 13505, 13506, 13508, 14104, 14201, 14203, 14205, 14206, 14402, 15203, 15205, 15211, 16203, 17103, 19101, 19102, 19201, 19202, 19203, 19204	
	Common	13507	
	Totally	317	2
RNPP	Unit 1	30101, 31101, 31102, 32101, 32302, 32401, 33302, 33303, 33501, 33502, 33503, 34103, 34106, 34107, 34201, 34301, 34401, 34402, 34403, 34404, 34406, 34407, 34408, 34409, 35201, 35202, 35203, 35204, 35205, 35206, 37102, 37103, 37105, 39101, 39102, 39103, 39104, 39201, 39202, 39203, 39204	33509,
	Unit 2	30101, 31101, 31102, 32101, 32401, 33302, 33303, 33501, 33502, 33503, 34103, 34104, 34106, 34107, 34201, 34301, 34401, 34402, 34403, 34404, 34406, 34407, 34408, 34409, 35201, 35202, 35203, 35204, 35205, 35206, 37102, 37103, 37105, 39101, 39102, 39103, 39104, 39201, 39202, 39203, 39204	35102,
	Unit 3	10101, 11302, 11303, 11304, 12101, 12102, 12201, 12202, 12301, 13101, 13102, 13103, 13202, 13301,	

NPP	Unit	Completed before reporting Quarter	Completed during reporting Quarter
		13302, 13303, 13304, 13305, 13401, 13403, 13501, 13502, 13503, 13504, 13505, 13506, 13508, 13509, 14101, 14102, 14103, 14104, 14106, 14201, 14202, 14203, 14204, 14205, 14206, 14401, 14402, 14403, 14404, 14405, 14406, 14407, 15201, 15202, 15203, 15204, 15211, 15212, 16101, 16201, 16202, 16203, 17101, 17102, 17103, 17201, 19101, 19102, 19103, 19201, 19202, 19203, 19204	
	Unit 4	10101, 11302, 11303, 11304, 12101, 12102, 12201, 12202, 12203, 12301, 12401, 13101, 13102, 13103, 13202, 13301, 13303, 13304, 13305, 13401, 13402, 13403, 13501, 13502, 13503, 13504, 13505, 13506, 13508, 13509, 14101, 14102, 14103, 14104, 14105, 14106, 14201, 14202, 14203, 14204, 14206, 14301, 14402, 14403, 14405, 14406, 14407, 15201, 15203, 15204, 15212, 16203, 17101, 17102, 17103, 17201, 19101, 19102, 19103, 19201, 19202, 19203, 19204	
	Common	12302, 15101, 33201	
	Totally	215	2
KhNPP	Unit 1	10101, 11302, 11303, 11304, 12101, 12102, 12201, 12202, 12301, 13101, 13102, 13103, 13202, 13301, 13302, 13303, 13304, 13305, 13401, 13403, 13501, 13502, 13504, 13505, 13506, 13508, 14102, 14103, 14104, 14201, 14202, 14203, 14204, 14206, 14402, 14403, 15202, 15203, 15211, 16203, 17101, 17103, 17201, 19101, 19102, 19103, 19201, 19202, 19203, 19204	13503, 13509, 14404, 14405, 15204, 15205, 15207, 16101, 16201,
	Unit 2	10101, 11302, 11303, 11304, 12101, 12102, 12201, 12202, 12301, 13101, 13102, 13103, 13202, 13301, 13302, 13303, 13304, 13305, 13401, 13403, 13501, 13502, 13503, 13504, 13505, 13506, 13508, 13509, 14102, 14103, 14104, 14201, 14202, 14203, 14204, 14206, 14402, 14403, 14405, 15201, 15202, 15203, 15205, 15211, 16203, 17101, 17102, 17103, 17201, 19101, 19102, 19103, 19201, 19202, 19203, 19204	
	Common	12302, 13507, 15101	
	Totally	109	9
SUNPP	Unit 1	20101, 21302, 22101, 22102, 22201, 22202, 22203, 22301, 23103, 23301, 23302, 23401, 23402, 23403, 23501, 23502, 23503, 23504, 23509, 24102, 24103, 24104, 24202, 24205, 24401, 24403, 24404, 25101, 25201, 25202, 25203, 25204, 25205, 25207, 25208, 26101, 26201, 26202, 26203, 26205, 27101, 27201, 27203, 28101, 29101, 29102, 29103, 29203, 29204	
	Unit 2	20101, 21302, 22101, 22102, 22201, 22202, 22203, 22301, 23103, 23301, 23302, 23401, 23402, 23403, 23501, 23502, 23503, 23504, 23509, 24102, 24103, 24104, 24202, 24205, 24403, 25101, 25201, 25202, 25204, 25207, 25208, 26101, 26202, 26203, 26205, 27101, 27201, 27203, 28101, 29101, 29102, 29103, 29203, 29204	
	Unit 3	10101, 11302, 11303, 11304, 12101, 12201, 12202, 12203, 13101, 13102, 13103, 13202, 13301, 13302, 13303, 13305, 13401, 13403, 13501, 13502, 13503, 13504, 13505, 13508, 14102, 14104, 14201, 14202, 14203, 14206, 14405, 15211, 16202, 16203, 17103, 17201, 18101, 19101, 19102, 19103, 19201, 19202, 19203, 19204	13304, 16101,
	Common	15101	

NPP	Unit	Completed before reporting Quarter	Completed during reporting Quarter
	Totally	138	2

Table 3 - Implementation of CCSUP additional measures (as of 30.09.2019)

NPP	Unit	Total Number of Measures	Completed	To Implement
SS ZNPP	ZNPP-1	12	8	4
	ZNPP-2	12	8	4
	ZNPP-3	12	8	4
	ZNPP-4	12	4	8
	ZNPP-5	12	2	10
	ZNPP-6	12	5	7
	Common	3	0	3
	Totally	75	35	40
SS RNPP	RNPP-1	15	7	8
	RNPP-2	15	8	7
	RNPP-3	12	8	4
	RNPP-4	12	8	4
	Common	3	2	1
	Totally	57	33	24
SS KhNPP	KhNPP-1	12	5	7
	KhNPP-2	12	7	5
	Common	2	0	2
	Totally	26	12	14
SS SUNPP	SUNPP-1	16	10	6
	SUNPP-2	17	9	8
	SUNPP-3	12	2	10
	Common	2	1	1
	Totally	47	22	25
SE NNEGC «Energatom»	Totally	8	1	7
TOTAL		213	103	110

Table 4 - List of completed CCSUP additional measures as of 30.09.2019

NPP	Unit	Completed before reporting Quarter	Completed during reporting Quarter
ZNPP	Unit 1	11305, 13307, 13511, 15103, 17105, 17108, 17109, 17110	
	Unit 2	11305, 13307, 13511, 15103, 17105, 17108, 17109, 17110	
	Unit 3	11305, 13307, 13511, 15103, 17108, 17109, 17110	
	Unit 4	11305, 13511, 17105, 17108, 17110	
	Unit 5	17108, 17110	
	Unit 6	17108, 17110	11305, 13307, 13511,
	Common		
	Totally	31	3
RNPP	Unit 1	31305, 33307, 33511, 34101, 37107, 37112, 37113	
	Unit 2	31305, 33307, 33511, 34101, 35103, 37107, 37112, 37113	
	Unit 3	11305, 13307, 13511, 15103, 17105, 17107, 17109, 17110	
	Unit 4	11305, 13307, 13511, 15103, 17107, 17108, 17109, 17110	
	Common	18102, 39105	

NPP	Unit	Completed before reporting Quarter	Completed during reporting Quarter
	Totally	33	0
KhNPP	Unit 1	13307, 17108, 17109	11305, 13511,
	Unit 2	11305, 13307, 13511, 15103, 17108, 17109, 17110	
	Common		
	Totally	9	2
SUNPP	Unit 1	21305, 23307, 23511, 27102, 27106, 27108, 27109, 27110, 27111, 27113	
	Unit 2	21305, 23307, 23511, 27102, 27108, 27109, 27110, 27111	27106,
	Unit 3	13307, 13511	
	Common	18102	
	Totally	21	1
SE NNEGC		33308	
“Energoatom”	Totally	1	0