

**List of main indexes of ПК-41 boiler No.2 functioning at
Konakovo power plant before and after mid-life repair in 2014**

No.	Parameter	Dimension	Data	
			Until repair Sep.09, 2014	After repair with the installation of CMKA [®] heat exchange elements into RAH Nov.25, 2014
1.	Type of RAH		BIIP-4	
2.	Steam capacity	tons/hour	506,5	494,2
3.	Type of fuel		gas	gas
	Fuel consumption	nm ³ /s	40553.0	40184.0
	Calorie content of fuel	kcal/ m ³	8027	8011
4.	Air leakage into furnace	%	8.8	8.8
	Coefficient of excess air at furnace outlet		1.1	1.12
	Coefficient of excess air before RAH		1.25	1.2
	Coefficient of excess air behind RAH		1.45	1.45
5.	Gas temperature at RAH inlet	°C	335/342	334/340
	Air temperature at RAH inlet	°C	28.0	8.5
	Gas temperature at RAH outlet	°C	144/143	135/136
	Air temperature at RAH outlet	°C	288/282	283/286
6.	RAH resistance by gas	mm of water column	103/108	61/62
	RAH resistance by air	mm of water column	115/120	82/70
7.	Flue gas temperature	°C	147.44	138.6
	Heat loss with flue gases	%	7.66	7.15
	Boiler gross efficiency	%	91.64	92.15

**List of main indexes of ПК-41 boiler No.3 functioning at
Konakovo power plant before and after mid-life repair in 2015**

No.	Parameter	Dimension	Data	
			Until repair May 05, 2015	After repair with the installation of CMKA [®] heat exchange elements into RAH Nov.16, 2015
1.	Type of RAH		BIIP-4	
2.	Steam capacity	tons/hour	482.4	482.7
3.	Type of fuel		gas	gas
	Fuel consumption	nm ³ /s	40060.0	39557.7
	Calorie content of fuel	kcal/ m ³	8128	8036
4.	Air leakage into furnace	%	10.4	1.04
	Coefficient of excess air at furnace outlet		1.2	1.2
	Coefficient of excess air before RAH		1.3	1.3
	Coefficient of excess air behind RAH		1.51	1.516
5.	Gas temperature at RAH inlet	°C	335/342	334/340
	Air temperature at RAH inlet	°C	18.0	7.0
	Gas temperature at RAH outlet	°C	147/148	139/140
	Air temperature at RAH outlet	°C	285/280	290/288
6.	RAH resistance by gas	mm of water column	93/93	73/80
	RAH resistance by air	mm of water column	120/120	102/103
7.	Flue gas temperature	°C	151	143
	Heat loss with flue gases	%	8.16	7.78
	Boiler gross efficiency	%	91.14	91.52