

“PECHORA POWER PLANT”  
“INTER RAO - Electric Power Plants” OJSC  
Pechora, Komi republic, Russia  
Tel.: (82142) 2-94-59 fax (82142) 2-92-59

April 22, 2014

«Northern Interindustry Company  
«The Alternative» Ltd  
For the attention of  
Deputy Director General for Development  
A.E. Lebedev

**About the results of operation**

Dear Mr.Lebedev,

In accordance with your request, we forward you the list of main indexes of boiler functioning at Pechora power plant (ТГМЕ-206/ХЖІ No.1).

Enclosure: list of main indexes of boiler functioning.

Sincerely yours,  
Chief Engineer

V.L. Lupyр

**List of main indexes of boiler functioning at Pechora power plant (TTME-206/XJI No.1)**

No	Parameter	Dimension	Data	
			Before repair May 07,2013	After repair with the installation of CMKA <sup>®</sup> heat exchange elements into RAH April 08, 2012
1	Type of RAH		PBII-68	PBII-68
2	Steam production	tons/hour	675	580
3	Type of fuel	gas/mazut	mixture of natural and associated gas	mixture of natural and associated gas
	Fuel consumption	m <sup>3</sup> /hour	51500	50000
	Calorie content of fuel	kcal/ nm <sup>3</sup>	8680	8750
4	Air inleakage into gas path	%	21.4	20.1
5	Excess oxygen coefficient at furnace outlet	-	1.0	1.0
	Excess oxygen coefficient before air heater	-	1.5	1.4
	Excess air coefficient behind air heater	-	4.65	4.5
6	Flue gas temperature at air heater inlet	°C	395	375
7	Air temperature at air heater inlet	°C	27.0	29.0
	Flue gas temperature at air heater outlet	°C	149	131
	Air temperature at air heater outlet	°C	295	255
	Flue gas temperature	°C	149	131
8	Air heater resistance by gas	mm of w.c.	110/110	75/76
	Air heater resistance by air	mm of w.c	110/130	100/100
9	Heat loss with flue gases, q <sub>2</sub>	%	5.982	5.458
	Boiler gross efficiency	%	93.710	94.184

Note: The condition of the boiler No.1 was estimated after repair. 10 burners were in operation.

Pressure-reducing and desuperheating station is loaded for 10 %  
 High pressure superheater is off  
 Gas circulating fan is off