

資料 A.3-7 testo-350 分析計による煙道ガス分析結果

Tabriz Power Plant (Received on Nov. 27, 2002)

Esfahan Power Plant (Received on Nov. 21, 2002) marked with E on the Row 'Unit'.

Unit	'02.10.26 Tabriz Fuel oil ?	'01.11.7 E.No. 1 N. gas		'02.11.3 E.No. 1 N. gas		'02.12.1 E.No. 1		'01.11.7 E.No. 2 N. gas		'01.2.11 E.No. 4 Fuel oil		'01.11.7 E.No. 4 Mixed		'02.12.1 E.No.4 Fuel oil	
		Before	After	Before	After	Before	After	Before	After	Before	After	Before	After	Before	After
FT °C	181	21.5	74.0	44.9	74.4	252.8	174	366.9	143	372.7	169.3	378.2	169		
O ₂ %	4.9	1.4	1.6	1.0	3.4	2.4	2.8	1.5	7.9	1.5	5.4	0.5	5.0		
CO ₂ %	12.2	14.7	11.0	11.3	13.2	10.5	10.3	14.6	9.9	11.1	8.9	15.4	12		
PCO	5	480	0	32	18	19	0	6	9	12	5	542	250		
PSO ₂	1351	549	13	0	1049	0	7	1328	906	181	140	1476	1163		
PNO	319	262	264	222	268	182	218	307	201	163	129	342	286		
PNOx	319	275	273	234	281	191	229	322	211	171	136	357	300		
%Δ		7.2	8.0	4.9	19.6	13.0	15.6	7.9	59.9	7.6	34.4	2.6	31.4		
EffG		93.5	87.9	88.9		80.1	83.5	80.3	86.3	75.9	33.0	80.3	87.0		
EffN		98.9	97.0	98.1		88.3	92.1	85.0	91.3	83.6	91.5	84.9	92		
MW		30	32	33		33	33		245		300				

FT=flue gas temperature, P=ppm, %Δ=Excess air, EffG=Gross efficiency, EffN=Net efficiency, MW=Power output

Before, After = before Air heater or after Air Heater

Gas analyzed by testo-350

Unit	'99.8.27		'01.2.11		'01.11.7		'02.11.3		'02.11.3	
	E.No.5		E.No. 5		E.No. 5		E.No. 5		E.No. 5	
Fuel	Gas & oil Mixed				Mixed		Natural gas		Natural gas	
Air Heater	Before	After	Before	After	Before	After	Before	After	Before	After
FT°C	245.3	86.6	370	146.3	383.2	153	396.9	147.6	399.3	147.3
O ₂ %	1.1	6.1	1.8	5.7	1.2	5.3	0.6	5.5	1.0	5.9
CO ₂ %	11.3	8.4	14.4	11.5	11.2	8.9	11.6	8.8	11.3	8.6
PCO	192	1216	0	0	59	53	562	219	373	264
PSO ₂	152	48	1294	1090	355	269	0	0	0	0
PNO	176	127	299	246	220	181	250	185	229	177
PNOx	184	134	314	258	231	190	263	194	242	186
%Δ	5.4	41.1	9.5	37.2	5.9	33.6	2.9	35.6	5.1	39.1
EffG	81.4	86.5	80	88	75.7	83.6	75.1	83.6	75	83.4
EffN	89.7	95.5	84.7	93.1	83.3	92.3	82.7	92.2	82.6	91.9
MW				280		320		320		

FT=flue gas temperature, P=ppm, %Δ=Excess air, EffG=Gross efficiency, EffN=Net efficiency, MW=Power output

Before, After = before Air heater or after Air Heater