TABLE XIII.—*Continued.*

22.	Nitrogen	1·?	1·2	1·2 per cent.
23.	Oxygen	43·3	43·6	43·3 "
24.	Fuel ratio, fixed carbon to volatile matter	0·47	0·47	0·47
25.	Gross calorific value of fuel as fired per lb. (from calorimeter)	7730	7570	7710 B. Th. U.
26.	Net calo: value of fuel as fired per lb. (calculated from gross value)	7130	6970	7110 "
27.	Calorific value of dry fuel per lb. (from calorimeter)	9560	9470	9550 "
28.	Weight of fuel fired	1271	1715	2720 lbs.
29.	Weight of refuse removed from above the fire bars	none	none	none
30.	Weight of refuse removed from the ash-pit	27	33	76·5 "
31.	Combustible matter in total refuse removed	4·3	6·6	7·5 per cent.
	Average of Air and Flue Gas Observations.			
32.	Air pressure in ash-pit	—	—	—
33.	Air pressure in furnace	—	—	—
34.	Air pressure in flue leaving boiler	−0·11	−0·14	−0·22 ins. of water.
35.	Temperature of air in boiler room	70	70	68 ° F.
36.	Temperature of flue gas leaving boiler	690	690	750 ° F.
37.	Barometric pressure	29·9	29·6	29·8 ins.
	Analysis of dry flue gas by volume.			
38.	Carbon dioxide	10·0	10·5	12·6 per cent.
39.	Oxygen	9·0	8·2	4·0 "
40.	Carbon monoxide	1·4	1·5	4·7 "
41.	Nitrogen	79·6	79·8	78·7 "
	Water and Steam.			
42.	Average temperature of feed water	59	60	54 ° F.
43	Total weight of water fed to the boiler, corrected for inequality of water level	4242	5504	7209 lbs.
44.	Average boiler steam pressure by gauge	95	94	79·5 lbs. per sq. in.
45.	Average calorimeter steam pressure by gauge	0·44	0·80	0·1 ins. of mercury.
46.	Temperature of steam in calorimeter	230	232	217 ° F.
47.	Moisture content of steam	2·9	3·2	3·6 per cent.
	Total Quantities.			
48.	Duration of trial	478	480	478 mins.
49.	Weight of fuel as fired	1271	1715	2720 lbs.
50.	Weight of dry fuel fired	1027	1370	2198 "
51.	Weight of combustible fired	975	1289	2084 "