TABLE II

SUMMARY OF DESIGN OF WINKLER GENERATORS MAKING WATER GAS

Plant	Leuna		Böhlen	Zeitz	Magdeburg	Brux
Reference	1		2	3	1	1 & 4
Units	Small 1	Large 3(+1)*	3	3	3	5 or 6
Output NM^3/hr water gas :						
Maximum	40,000	80,000	25,000	22,000	-	-
Normal	30,000	60,000	20,000	18,000	ca 20,000	ca20000
Minimum	-	-	12,000	9,000	-	-
Fuel	Grude(formerly dry brown coal)		Grude	Grude	Grude	?
Grate	1 small & 1 large are grateless; others stationary grate.		Stationary grates			1 grate-less; rest Stny.Gr.
Gasification) chamber)	Some bulbous at top, some straight-sided.		Straight-sided			
	Small	Large				
I.D.of fuel bed	3.9 m	5.5 m	4.5 m	4-4.5 m	4.5 m ?	
Cross-sectional area	12 M^2	25 M^2	16 M^2	12.5-16 M^2		
Depth of fuel	1 m	1 m	1.5 m	1.5 m		
Overall height	-	-	20 m	20 m	20 m	
Waste Ht.Recvy.	Waste heat boiler, superheater and economiser					
Dust removal; primary	Cyclone before W.H.B.		Multicyclones after W.H.B.		Originally electro-static,now multi-cyclones.	
final	Direct contact cooler and Theisen disintegrator					
Recovered dust used as:	Boiler fuel,returned to Winkler or for dephenolation.		Boiler fuel	Boiler fuel		

* 1 large generator now used experimentally for other purposes.