what they are doing

Restrictions of Factories and Works to special areas.

It is very desirable in a Town Plan that the position of these should be fixed and the people should not be

allowed to place them where they like.

There will nearly always be natural places in a district which will be suitable for factories and workshops. Contiguity to the railway, easy gradients to same, and the position of the rivers, canals and streams should govern this in most cases.

It is usually accepted as an established fact that factories are unsightly, with untidy and dirty surroundings, but in many places, particularly in Bourneville in England, the headquarters of Cadbury's Factory, the reverse is the case. The whole of the surroundings of the factory, and the workers' houses adjoining are laid out on garden city lines, and is a model of what can be done to make a factory district more ameniable than is generally the case.

INCINERATOR AT MOOSE JAW, SASK. Official Tests

Date of test	y 31st July
Duration of test24 hours	8 hours
Grate area	90 sq. ft.
Heating surface of boiler1700 sq. ft	1700 sq. ft.
Ratio of heating surface of	
boiler to grate area18.8:1	18.‡:1
Average steam pressure125 lbs sq. in.	134. 4 lbs.sq.ir
Average temperature of feed	
water45° F. Average temperature of com-	45° F.
Average temperature of com-	
bustion chamber1750° F.	1822° F.
Highest temperature of com-	
bustion chamber2000° F.	2060° F.
Lowest temperature of com-	AND WATER
bustion chamber1400° F.	1600° F.
Weight of refuse burned53.51 tons	14.16 tons
Weight of residual clinker11.625 tons	2.85 tons
Percentage of clinker21.73%	20.1%
Refuse burned per hour2.23 tons	1.72 tons.
Refuse burned per square foot	1.12 00115.
greate area (per hour)49.6 lbs.	39.3 lbs.
Total weight of water fed to	99.9 IDS.
boiler	91 045 lbg
boiler	31,845 lbs.
from and at 2120 F fad to	
from and at 212° F. fed to	40 F00 1h-
boiler*72,655 lbs. Water evaporated per hour*2,487 lbs.	42,562 lbs.
Favirelest mater evaporated per nour 2,487 lbs.	3,891 lbs.
Equivalent water evaporated	~
from and at 212°F. per hour*3,027 lbs.	5,445 lbs.
Horse power developed (34½	
lbs. water evaporated per	
hour into Steam from and at	1 63 751
212° F. 1 Horse Power.)*97.6 H.P.	157.8 H.P.
Water evaporated per lb. of refuse*56 lbs.	
refuse*56 lbs.	1,125 lbs.
Water evaporated from and at 212° F. per lb. of refuse*68 lbs.	
212° F. per lb. of refuse*68 lbs.	1.368 lbs.
Cost per H.P. per hour*1.154 cents	.77 cents.
Cost per ton of refuse des-	
troyed 51.8 cents	68.8 oents.
Actual amount of steam avail-	
able for power per lb. of	
refuse*44 lbs.	
Analysis of gases	CO.CO O N
(Average percentages)8.4 .1 3.5 86.2 10	2 1 6 3 4 8 66
*The low evaporation per pound of refuse burned is ac-	

(Average percentages)......8.4.1 3.5 86.2 10.2 1.6 3.4 8.66

*The low evaporation per pound of refuse burned is accounted for by the fact that the safety valves were unable to carry away all the steam generated. The door of the first compartment of the boiler being kept open the greater portion of the first test, allowing cold air to rush in and cool down the gases. During this test the steam rose considerably above blowing off pressure, so this was done to avoid any danger caused by an excess pressure being generated on the boiler. Provision was made to carry away the excess steam generated and a second test was carried out to determine the evaporation per pound of refuse.



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