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Mesures for Increasing Hot Stove Heat Efficiency

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熱風炉熱効率の向上策

Measures for Increasing Hot Stove Heat Efficiency

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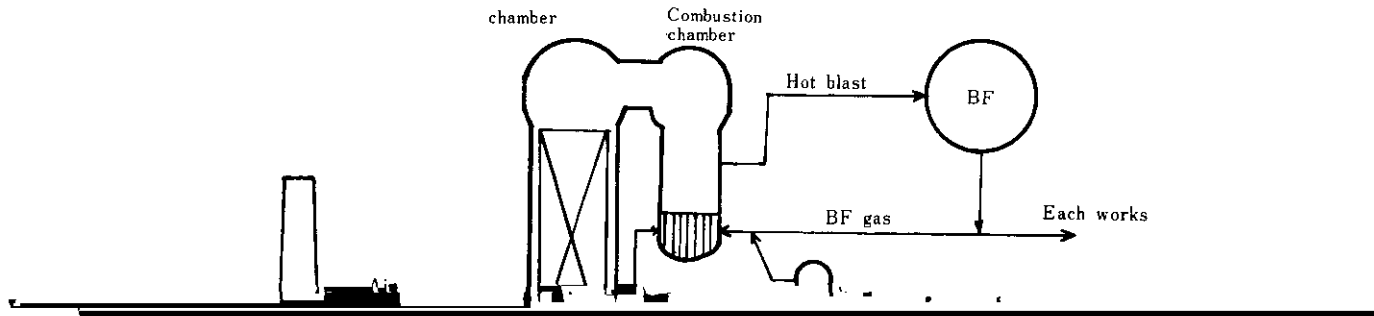
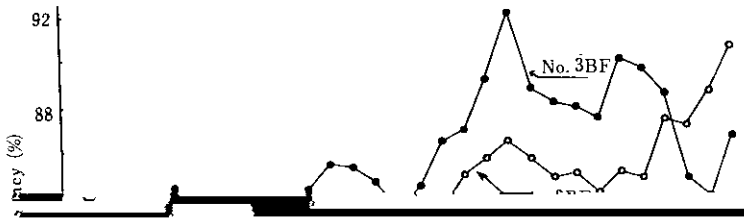
Synopsis:

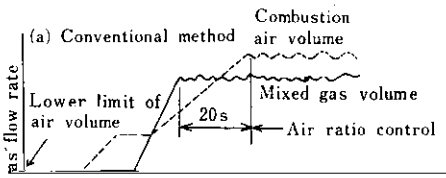
Hot stove operation was improved and waste gas heat recovery equipment was installed to increase heat effi-


chamber
Combustion chamber
Hot blast
BF
BF gas
Each works


92
88
(%)
No. 3BF

する。

Cガス富化率を上げ，投入熱量を大きくし，流速


(a) Conventional method
Combustion air volume
Mixed gas volume
Lower limit of air volume
20s
Air ratio control
as flow rate

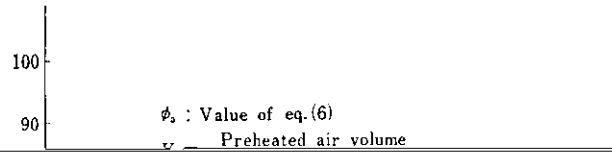

100
90
ϕ_s : Value of eq.(6)
Preheated air volume

Table 3 Actual effect of calorific value of mixed gas on hot stove efficiency at No. 2BF (Mizushima)

Item \ Case	1	2	3

Table 4 Specification and performance of hot stove air preheater

	Chiba No.5BF(3rd)	Chiba No.6BF(1st)	Mizushima No.2BF(3rd)	Mizushima No.3BF(2nd)	Mizushima No.4BF(2nd)
					During


600
400
Temperature (°C)