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Ironmaking Technology, Secondary Refining, and Center-Segregation Control with Forging in CC

Technology for Prolonging Campaign Life of Blast Furnace

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Synopsis:

The Chiba No.6 blast furnace with an inner volume of 4500 m3 has operated for 16 years without intermediate relining since June 1977. It has achieved a record of long campaign life and accumulated iron production to the class of 4000 m3 inner volume. This record has been established with a ne

Technology for Prolonging Campaign Life of Blast Furnace*



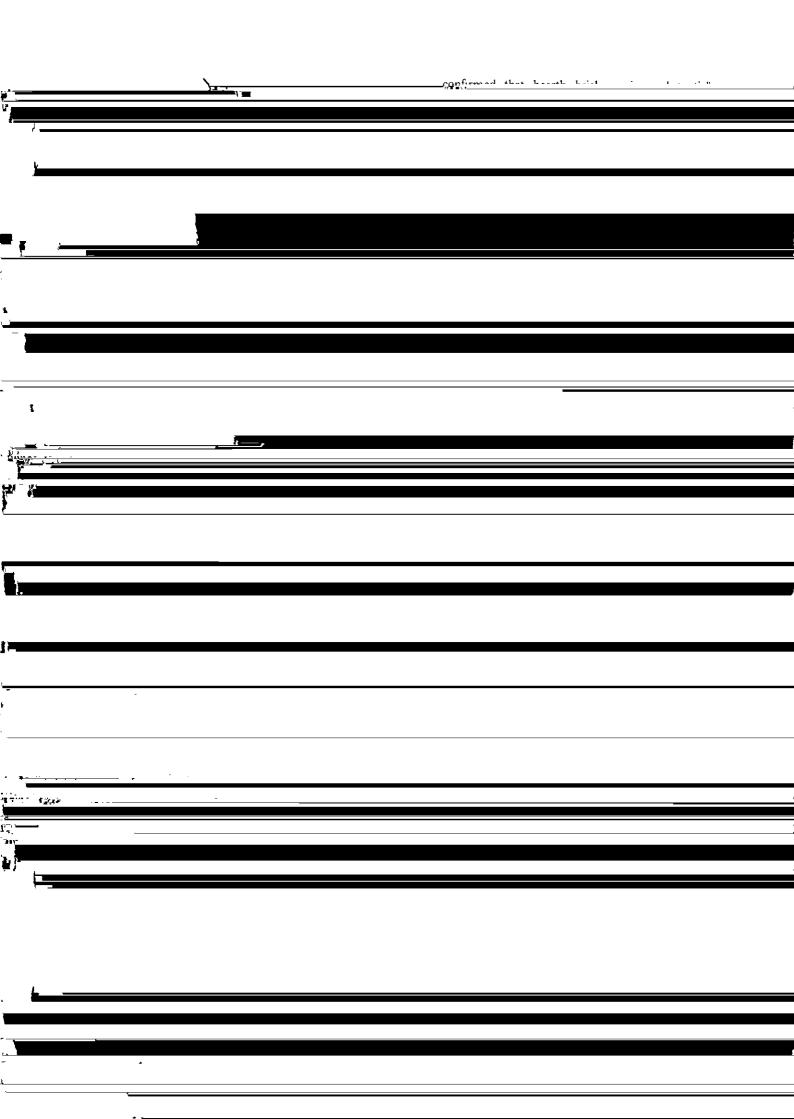




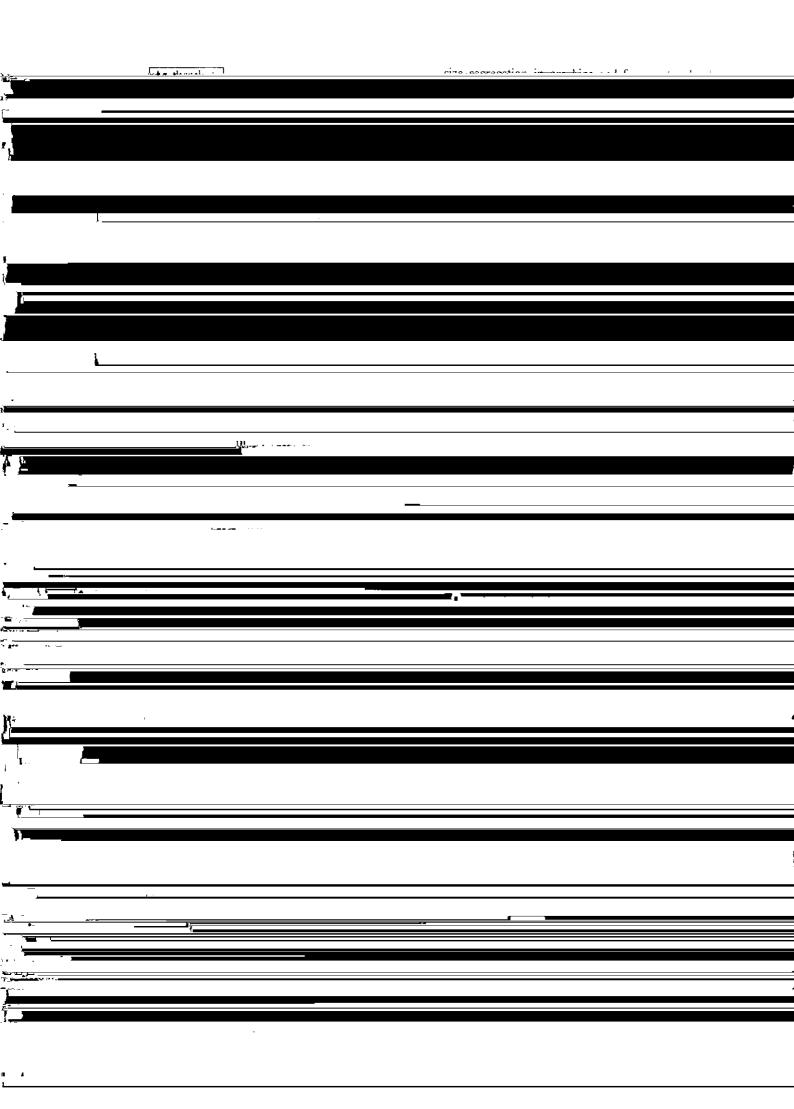
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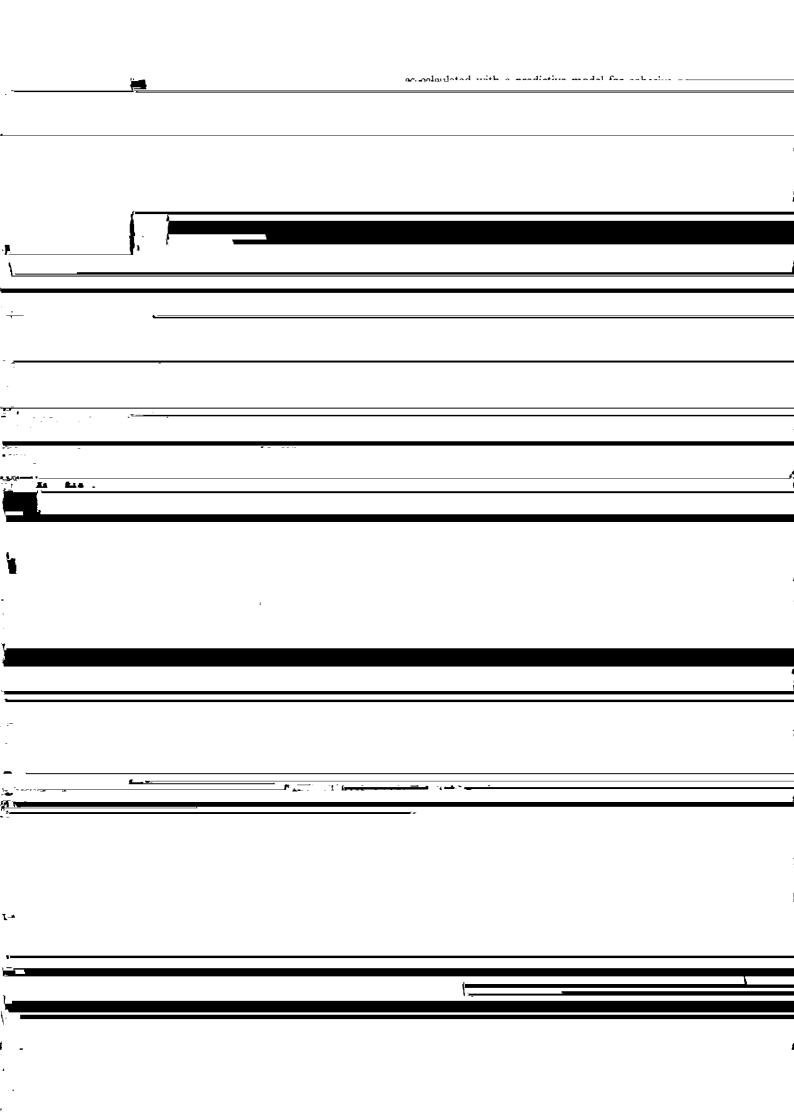
The Chiba No. 6 blast furnace with an inner volume of





Chiba No. 5 BF · Pulverized coal injection operation following star-3 Operating Technology for Prolonging Campaign tup of PCI plant Life Ultra-high Fuel Rate8) 3.1 Operational Trend of Chiba No. 6 BF to Date · Ultra-high fuel rate (≥ 530 kg/t-p) in considera-The energional results of Chiba No. 4 BE from blo





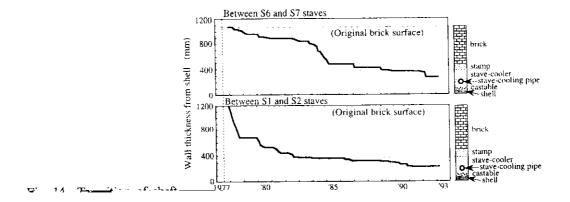


gerously. 16) These measures are illustrated in Fig. 10.

4.1.2 Upper shaft refractory damage

Progressive wear of the upper shaft refractories caused changes in the gas flow distribution, as shown in the avantage in Fig. 11. After 1999, when upper shaft

irregularities in the profile of the furnace wall.¹⁷⁾ The increased peripheral flow due to this type of decreased controllability of the gas flow distribution invites an increased heat load on the furnace body, and is therefore a major problem from the viewpoint of furnace



(No. 6 BF) Years after blow-in	-
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(No. 6 BF) Years after blow-in	
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stave-front refractory material has already disappeared in	
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