

Sinter operation Control System with Artificial Intelligence

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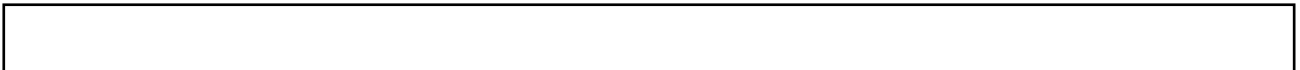
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Synopsis :

At Nos. 3 and 4 Sinter Plants of Kawasaki Steel's Mizushima Works, a sinter operation control system with a diagnostic expert system has automated its sintering plant operation. Control functions include burning through point (BTP) control at 1- and 5-min cycles, equipment protection, sintered ore production control, and quality control. Software structures include expert rules (about 500 rules) and FORTRAN program (about 11 K steps). The expert system has achieved reduction by half of BTP dispersion and highly stabilized production quality.

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要旨

水島製鉄所の第3, 第4焼結工場に診断型エキスパートを用いた



Table 1. Definition of actual BTP.

	Definition	
BTP	Burn through point which is end point of sintering (point P3)	Wind box Measured point of temperature Temperature (y)
BTP _A	Actual BTP which is expressed x-coordinates of top of approximate equation (1)	
	Long time radiative BTP which is expressed	

