

CONTROL OF POLLUTION IN THE IRON AND STEEL INDUSTRY

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Keywords: Environmental pollution, Smelting, Converting, Ironmaking, Steel production, Steelmaking, Primary reduction, Rolling, Slabbing, Casting, Hot treatment, Steel treatment, Metallurgical technologies.

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Abstract

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Introduction

Summary

The iron and steel industry causes significant effects on environmental media – air, water and soil. In the steel plant the dominant emissions generated from material handling, remelting processes, discharge and, and cold storage are particulate emissions – mainly iron oxides, sulfur oxides, carbon oxides, hydrocarbons, carbonaceous compounds, and chlorides. Emissions of particulate matter, carbon monoxide, sulfur dioxide, nitrogen compounds and sulfur pentoxide originate from several operations in the making plant. Emissions from the blast furnace are generated from the top in the casting region by drilling and plugging the top. During the casting operation, iron oxides, nitrogen oxides and carbonaceous compounds are generated. The most significant emissions from the basic oxygen process are emitted during the oxygen-blow period: iron oxides, mainly heavy metals and chlorides. The operations which generate emissions during the electric steelmaking are: melting – iron oxide, sulfur, carbon oxides from the slag; charging – iron and metallic oxides from slag in the scrap; stirring, slag and tapping – iron and metallic oxides from the furnace. During the

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