

Completion of Fuel Conversion for NISSHIN STEEL/Kure Works Reheating Furnace

Nippon Steel & Sumikin Engineering Co., Ltd. (Representative Director and President: Shinichi Fujiwara; Head Office: Shinagawa-ku, Tokyo; hereinafter, “NSENGI”) is pleased to announce that fuel conversion has been completed for the No. 1 reheating furnace (hereinafter, “the reheating furnace”) at the hot-rolling line of Kure Works (Hiroshima Prefecture), NISSHIN STEEL CO., LTD.

The reheating furnace is a walking beam type reheating furnace built and completed by NSENGI in 1985. Completion of fuel conversion means the reheating furnace can switch from heavy fuel oil to natural gas based city gas for its fuel, which allows for significant reductions in the amount of sulfur oxide in the flue gas, and reduction of carbon dioxide emission, by approximately 20% per heating capacity.

It also allows for a reduction in operation cost, as it eliminates the need for regular cleaning of fuel lines, as well as steam consumption to heat the fuel, which was necessary with the use of heavy fuel oil.

This is the second instance of fuel conversion for Kure Works of NISSHIN STEEL CO., LTD. after fuel conversion on the No. 2 reheating furnace was completed in 2015. In the future, NSENGI will continue to handle the construction of new reheating furnaces as well as fuel conversion, utilizing our cutting-edge combustion technologies to provide solutions for industrial furnaces, and reducing our clients’ energy costs as well as the burden on the environment, mainly in Japan and Asia.

Construction Overview

Equipment: No. 1 Reheating Furnace, Hot-Rolling Factory, Kure Works (Hiroshima Prefecture), NISSHIN STEEL CO., LTD.

Steel Type: Hot-rolled steel sheets

Construction: Converting combustion system from heavy fuel oil combustion to natural gas based city gas combustion



Fuel system after conversion

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