

## News Release

February 8th, 2021

Nippon Steel Engineering Co., Ltd.

### **Order for Cokes Dry Quenching Received from POSCO for Pohang Steelworks in South Korea**

Nippon Steel Engineering Co., Ltd. (Representative Director and President: Yukito Ishiwa; Head Office: Shinagawa-ku, Tokyo) is pleased to announce that it has received an order from POSCO (CEO: Jeong-Woo Choi, Head Office: Pohang-si, Gyeongsangbuk-do, Republic of Korea; hereinafter "POSCO") for cokes dry quenching (hereinafter "CDQ" <sup>\*1</sup>) for their Pohang Steelworks.

This CDQ project (Coke cooling capacity of 190 t/h), for the replacement of the old coke oven at Pohang Steelworks with a new one, features state-of-the-art technology to meet the latest environmental requirements. In comparison with the wet quenching (water sprinkling) type, CDQ improves environmental performance by reducing the generation of dust when cooling the coke, and the recovered steam can be utilized to generate electricity, which also contributes to energy-saving and the reduction of CO<sub>2</sub> emissions.

Among the variety of Japanese energy-saving and environmental facilities supplied to overseas steel companies, CDQ is, in particular, highly effective in the reduction of CO<sub>2</sub> emissions. The majority of the orders for CDQ received by Nippon Steel Engineering Group has been for overseas steel companies, and they have been making major contributions to the reduction of CO<sub>2</sub> emissions in the steel industry around the world.

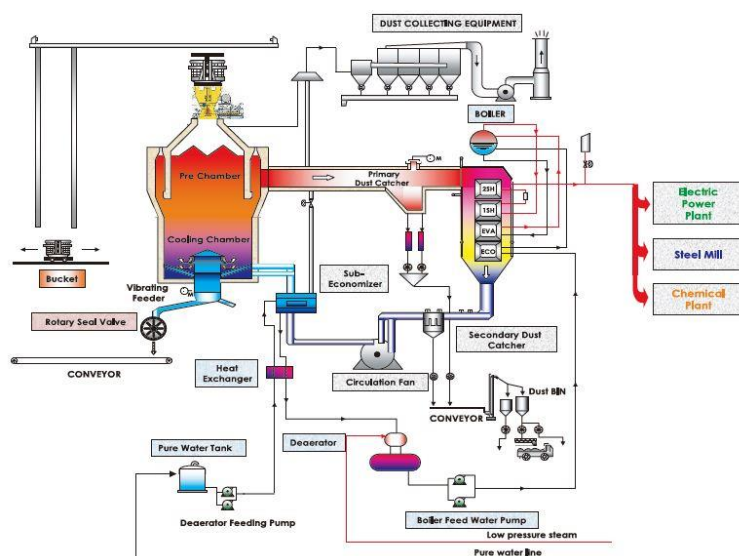
This time, Nippon Steel Engineering has received an order due to POSCO's high evaluation on the following points.

- (1) The world's highest-level steam generation rates.
- (2) The abundant track record in the delivery of large-scale CDQ units.
- (3) The high and stable operation rate of all nine CDQ units delivered by Nippon Steel Engineering to POSCO in the past.

With this order, Nippon Steel Engineering Group has received a total of 10 orders for CDQ units from POSCO. Last year, Nippon Steel Engineering has received an order from a steel company in Taiwan for a large-scale CDQ with the largest coke cooling capacity in the world (260 t/h), and with this latest order, Nippon Steel Engineering Group has received orders for 143 CDQ units in total around the world.

Looking ahead, Nippon Steel Engineering Group will continue, as a top supplier of the environment and energy-conservation technologies in the steel industry, to greatly contribute to the development of the steel industry around the world and the resolution of global issues through the development and provision of energy-saving and CO<sub>2</sub> emission-reduction technologies, which match Goal 13 (“Take urgent action to combat climate change and its impacts”) of the UN’s Sustainable Development Goals (SDGs).

**\*1: CDQ is an abbreviation for “Coke Dry Quenching.” CDQ is composed of a sealed cooling tower containing a prechamber and cooling chamber. Red-hot coke that is dry distilled in the coke oven is cooled using the inert gas in the cooling tower, while recovering the sensible heat of the red-hot coke, which was previously dispersed, in a boiler as steam. CDQ has been attracting attention in recent years as it reduces the generation of dust when cooling coke, reduces CO<sub>2</sub> emissions by generating electricity via steam, and improves the quality of coke so that it is suitable for use in a blast furnace.**



[Figure 1] CDQ overview

[For more information, please contact below]

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