

PRESS Ministry of Natural Resources and Environment

Pollution Control Department

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PCD monitored the styrene disposal

On 13 July 2021, Mr. Athapol Charoenshunsa, Director General of Pollution Control Department (PCD), together with Mr. Thalearngsak Petchsuwan, Deputy Director General of Pollution Control Department, Mr. Aweera Pakkamart, Director of Regional Environmental Office 13 (Chonburi), and PCD team monitored hazardous waste disposal from fire incident of Mingty Chemical Co., Ltd., SamutPrakan Province, at AkkhiePrakarn Public Co., Ltd, SamutPrakan Province.

Mr. Athapol said that we came to monitor the residual styrene disposal from the fire incident at Mingty Chemical Co., Ltd., SamutPrakan Province, which was disposed at AkkhiePrakarn Public Co., Ltd., SamutPrakan Province. It was found that the incineration processes of hazardous waste requires temperature control and duration of waste vapor generated from incineration to be burnt or combusted completely in the incinerator by two-chamber combustion system. This system consists of 1) Primary Combustion Chamber (Rotary Kiln) is designed in accordance with US.EPA. regulations. Hazardous waste is burned at the temperature not lower than 850 degrees Celsius and 2) Secondary Combustion Chamber (SCR), gas produced by the rotary kiln will enter into the secondary combustion chamber, where the combustion will occur completely at the temperature of 1000 to 1200 degrees Celsius, to enhance the capacity of waste gas combustion. Then final results will be released water vapor through chimney which does not affect the environment and air quality is measured at the top of the chimney to the air quality monitoring center system.

Mr. Athapol also said that inside the laboratory system, there are pollution control system which consists of 1) Bottom ash cooling system 2) Partial Quench Tower 3) Dry Lime & Activated Carbon Injection System 4) Bag Filter House 5) Fly ash moisturizer 6) Selective Catalytic Reduction 7) Adsorption and 8) Packed Scrubber Tower. All pollutants will be disposed and only water vapor will be released from the chimney to the environment. In addition, the factory also has a Continuous Emission Monitoring System (CEMS) and data will be sent online to the Industrial Estates and the Department of Industrial Works.

The residual styrene from the fire incident at Mingty Chemical Co., Ltd., SamutPrakan Province is estimated about 1,000 tons. Currently, it has been moved out at about 360 tons, and estimated to be moved in 7-9 days. The AkkhiePrakarn Public Co., Ltd. can incinerate one ton per hour. It will take about 40-50 days. Then, PCD will monitor on the move-out and incineration of those residual styrene. At present, air quality at the nearby area of Mingty Chemical Co., Ltd., is returned to normal condition, Mr. Athapol said.