

Project: Technological Development of Asbestos Detoxification System using Fusion Furnace with Turning Equipment.

Contact :

Name Hidenobu UCHIDA

Title Group Leader

Environmental Eng. Group, Research Institute of Technology, Tobishima Corporation

Address 5478, Kimagase, Noda-shi, Chiba 270-0222, Japan

Phone/Fax +81-4-7198-7553 / +81-4-7198-7586

E-mail hidenobu_uchida@tobishima.co.jp

Summary :

This report describes technological development of the asbestos detoxification system using the fusion furnace with the conveyor system in negative pressure. The conveyor system such as the treble gate type acceptance hopper, four axis rippers, and the screw conveyors was arranged in the five story test building made negative pressure. It was verified to be able to do melted detoxification without dispersing asbestos by assuming negative pressure in the conveyor system. In the proof examination that used the asbestos content heat insulator, it was confirmed that asbestos fiber did not disperse when cast, crushing, convey, and the melt were being processed. Asbestos was not detected in granulated slag samples, dust samples and a residue sample.

Key words : asbestos, melted, detoxification, negative pressure, crusher, heat insulator