

ISRP 2002 abstract

Presenter/author	Title	Abstract
Kodera, Katsumi Kurano, Norikazu Mori, Masaharu Yamada, Hiroshi <i>Shigematsu Works Co. Ltd, Saitama, Japan</i>	Protective Performance of Respirators against Dioxin Generated in a Waste Incineration Plant	Dioxin, known to be a poisonous and endocrine-disrupting chemical, is generated in waste incineration plants. Recommendable types of respirators, according to working contents and dioxin concentrations are prescribed by regulation in Japan. The performance of such respirators has been understood by testing with test contaminants in laboratories; however the actual performance against dioxin is obscure. Also knowledge of the gaseous dioxin concentration is not enough. We examined the performance of three types of respirators (a pressure demand type air-line respirator, a chemical cartridge respirator and a particulate respirator) against dioxin generated in a waste incineration plant. Dioxin concentration was measured separately in states of gas and solid. It turned out that each of the respirators was effective in protecting against dioxin for the working contents designated by the regulation. We will discuss the details of test results and also we will refer to a new air supply system for pressure demand type air-line respirators.