## Development of Decontamination System for Radioactive Matter on Paved Road Using Dry Ice Blast Method

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## Summary

As a decontamination method for paved road surface, the "Dry Ice Blast Decontamination System" has been developed. This decontamination system has characteristic as follows; 1) Generation of decontamination waste is extremely small, 2) not using water, 3) not damaging the pavement surface. In actual decontamination work, more than 60% average (maximum 84%) reduction rate of the radiation counting rate has been achieved. In addition to these features, this system prevent the diffusion into the surrounding and the radiation exposure of workers by sucking waste quickly using attached dust collecting function. This system is also characterized in that it does not cause a difference in skill by the operator because of faceted decontamination using repetitive motion by concatenating three pellet injection nozzle and self-propelled decontamination machine.

**Key Words:** Dry ice, Blast, Decontamination system for paved road, Reduction of decontamination waste, Exposure prevention