

Developing Ash-fall impact forecasting content.

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The falling ash is expected to cause extensive damage over a wide area, because the ash widely spread out. For example, the highway road was closed to traffic due to falling ash, because the falling ash causes a car slip accident. In Mt.Aso 2016 Eruption, the Aso-shi lost power, because the ash fall an electric power substation. On the other hand, the wooden houses may be collapsed by over volcanic ash load. In addition, the buildings that are constructed by Reinforced Concrete or Steel such as a hospital, an office or a city hall are not collapsed, but the building equipment on the roof supposes to be damaged by the falling ash. Thus, we research the impact of the building equipment function due to falling ash by experimental study.

We report the experimental result of a cooling tower by falling ash. In addition, we report the prototype ash-fall impact forecasting content for the infrastructure and the building equipment, based on the Central Disaster Management Council report and the experimental result.

Keywords: ash-fall, damage estimation, volcano disaster countermeasure, experiment, building equipment