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PAPER TITLE ~~Radiological Consequences in the Environment Following~~
~~a Venting Procedure at PWR and BWR~~

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ABSTRACT (See instructions overleaf)

The release of radioactive material during venting procedures of the containment of BWR and PWR after a postulated melting of the core results in an exposure of the public in the environment. This exposure can be significantly reduced by disaster control. The methods and the extend of the disaster control have to be determined with suitable forecast-models based on measured activity-concentrations in the atmosphere of the containment. The dose caused by the release of radioactive iodine is caused by conservative release-assumptions. The release of radioactive noble-gases and the resulting dose hereby can be reduced significantly by the installation of delay-systems. The instruments to optimize venting procedures for the environment from the viewpoint of radiation protection are shown and discussed.