

Title (en)

EMISSION MONITORING SYSTEM FOR A VENTING SYSTEM OF A NUCLEAR POWER PLANT

Title (de)

EMISSIONSÜBERWACHUNGSSYSTEM FÜR EIN VENTINGSYSTEM EINES KERNKRAFTWERKS

Title (fr)

SYSTÈME DE SURVEILLANCE D'ÉMISSIONS POUR SYSTÈME DE VENTILATION D'UNE CENTRALE NUCLÉAIRE

Publication

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Application

EP 19708963 A 20190220

Priority

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Abstract (en)

[origin: WO2019162350A1] The invention relates to a nuclear system, in particular a nuclear power plant (2), comprising a containment (4) and an associated venting system (6), which has a venting line (8) connected to the containment (4), wherein an emission monitoring system (16) is provided for the venting system (6). The object of the invention is to provide a device and an associated method for obtaining a representative measuring sample, which is taken from the clean gas line of the venting system, and which can be tested for aerosol-type decomposition products online in a subsequent analysis system. In addition, according to the invention, the emission monitoring system comprises a sampling line (44) for a sample flow branching off from the venting line (8) and leading into a sample container (32), and a recirculation line (54) leading from the sample container (32) to the venting line (8), wherein the sample container (32) contains a wet scrubber (34) for the sample flow, as well as an ionisation separator (64) downstream of the wet scrubber (34) in relation to the sample flow, and wherein a liquid removal line (78) leads from the sample container (32) to an analysis unit (20).

IPC 8 full level

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Citation (search report)

See references of WO 2019162350A1

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