

Proposed Special Condition on Isolated Compartments

Applicable to A318-112 VIP

Introductory Note:

The following Special Condition has been classified as an important Special Condition and as such shall be subject to public consultation, in accordance with EASA Management Board decision 02/04 dated 30 March 2004, Article 3 (2.) of which states:

"2. Deviations from the applicable airworthiness codes, environmental protection certification specifications and/or acceptable means of compliance with Part 21, as well as important special conditions and equivalent safety findings, shall be submitted to the panel of experts and be subject to a public consultation of at least 3 weeks, except if they have been previously agreed and published in the Official Publication of the Agency. The final decision shall be published in the Official Publication of the Agency."

Statement of Issue:

For the initial certification of the STC for an Airbus A318-112 VIP conversion a Certification Review Item for Isolated Compartments was necessary. In the A318-112 VIP aircraft the galley area is separated from the remainder of the cabin by a sliding door in the longitudinal direction of the aircraft and a curtain. For this reason the galley area was classified as an isolated compartment.

Due to the classification as an isolated compartment, a smoke detector is required that meets the intent of JAR 25.858.

The galley area of the A318-112 VIP aircraft will be equipped with cooking and baking equipment. Since cooking and baking may lead to the generation of smoke and thus to possible nuisance smoke alerts on the flight deck, a motion detector was incorporated in the design to suppress smoke alerts when someone is present in the galley area.

The smoke detection system will be re-activated when motion is no longer detected. A short time delay has been used on the re-activation of the smoke detector to prevent possible nuisance alerts when the person that is cooking or baking briefly steps out of the detection range of the motion detector.

The time delay creates a short delay in the re-activation of the smoke detector, however the certification program will make sure that the intent of JAR 25.858 is met.

In addition the AFM supplement will include a limitation that someone must be present in the galley area when cooking and/or baking equipment is in use.