

**Plan #**
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1.0 Purpose

The purpose of this Lightning Plan is to enable the safety of Airport personnel during lightning events at the CVG Airport.

2.0 Procedure

- When cloud to ground lightning is detected within 8 miles of the center of the Airport, KCAB's Weather Service Provider will notify KCAB's Airport Operations Center (AOC) via email.
- The AOC makes announcement via radio (KCAB only).
- When a cloud to ground lightning event occurs (lightning is detected within 5 miles of the center of the Airport – refer to map included), KCAB's Weather Service Provider notifies the AOC via email.
- The AOC does the following:
 1. Activates the Airport controlled strobe lights (see location of Airport strobes on the included map).
 2. Makes announcement via radio (KCAB only).
 3. Sends notification via the Airport's Notification System (only employees who subscribe to this particular notification will receive it; refer to OpsMemo2017-27.1 on the Customer Service SharePoint site for instructions on how to sign up).
- After 15 minutes have lapsed without another cloud to ground lightning event occurring within 5 miles of the center of the Airport, KCAB's Weather Service Provider notifies the AOC via email that the lightning event is terminated.
- The AOC does the following:
 1. De-activates the Airport controlled strobe lights.
 2. Makes announcement via radio (KCAB only).
 3. Sends Notification Airport's Notification System (only employees who subscribe to this particular notification will receive it).

This procedure applies to the passenger terminal complex in addition to three security gates (refer to map included). These protocols do not cover other ramp areas at the Airport such as the following:

- Maintenance hangar ramps
- DHL ramp area
- FBO ramp area

The entities responsible for these non-covered areas are encouraged to subscribe to the Lightning Event Notification; however there is no other indication of a Lightning Event provided by the Airport. The Airport encourages all entities, especially those not covered by the strobes, to invest in their own lightning detection system as well as educate their personnel on lightning detection methods suggested by the National Oceanic and Atmospheric Administration (NOAA).

- Light travels faster than sound, you can use thunder to gage the distance of a lightning strike.
You count the number of seconds between the moment you see the flash of lightning and hear the clap of thunder. Once you see lightning...start counting seconds. For every 5 seconds that go by before you hear the clap of thunder...that's one mile. Keep in mind this technique only tells you how far away that one lightning strike was from your location.

- When thunder roars, go indoors!

If you hear thunder, even a distant rumble, get to a safe place immediately. Thunderstorms always include lightning. Any thunder you hear is caused by lightning! NOAA advises that nowhere outside is safe when thunderstorms are in your area.

2.1 Fueling Operations During Lightning Events

- Aircraft fueling operators shall follow the procedures outlined below when lightning is within 5 miles of the Airport.
- Each fueling operator shall have internal processes in place in the MOU for detecting when lightning is within 5 miles of center of the Airport and for the notification of personnel or agents of the fueling operator.
 1. When lightning is detected within 5 miles of the center of the Airport, all fueling operations within the air operations area shall immediately be suspended.
 2. Fueling can be resumed when no lightning strikes occur within 5 miles of the center of the Airport for a period of 15-minutes following the last lightning strike.
 3. For each lightning occurrence within 5 miles of the center of the Airport, the 15 minute period in which fueling operations are required to be suspended shall reset to a new period of 15 minutes.
- Any other alterations or exceptions to the MOU shall be approved by the Airport Fire Chief.

2.2 Strobe Locations



2.3 Map Coverage of 5 mile Coverage of CVG Property for Lightning Notification

