



Operations Memorandum

To: CVG Airlines and Tenants
Subject: Updated CVG Lightning Plan
Date: July 10, 2018

Effective Immediately

Updated Lightning Plan and KCAB Procedures

Please review the updated procedure that KCAB will follow to promote safety to all Airport personnel during lightning events. If you have questions or concerns please contact Seth Constien with KCAB Safety at 859-767-3680.

- Whenever **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 Communications Center (ACC) via email.
- The ACC does the following:
 1. Makes announcement via radio (KCAB only)
- Whenever 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 KCAB ACC via email.
- The ACC 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 to all of those subscribing to this particular notification).
 4. Reference OM2017-27.1 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 contacts the ACC via email that the lightning event is terminated.
- The ACC does the following:
 1. De-activates the Airport controlled strobe lights.
 2. Makes announcement via radio (KCAB only).
 3. Sends Notification (via the Airport's Notification System to all of those subscribing to this particular notification).



NOTE

Refer to map included for coverage by the HALO Deionizing lightning suppression system below.

The above protocols apply to the passenger terminal complex in addition to three security gates (refer to map included) as well as KCAB, in general. These protocols do not cover other ramp areas at the Airport such as the following:

- Maintenance hangar ramps
- DHL ramp area
- FBO ramp area, etc.
- These 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."

Also, NOAA advises the following:

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."

HALO Deionizing Lightning Suppression System

These deionizing lightning suppression system devices are designed to suppress the chance of lightning. However, given that there is no guarantee that these devices will actually suppress lightning, it is up to each operator to make its own determination in the event of a lightning strike whether to allow its personnel and contactors to continue to conduct ground handling and fueling operations in the areas covered by these devices. (Refer to maps included).



Fueling Operations During Lightning Events

- Aircraft fueling operators shall follow the procedures outlined below when lightning is within 5 miles of the CVG Airport. Each fueling operator shall have internal processes in place in the MOU for detecting when lightning is within 5 miles of center point of CVG and for the notification of personnel or agents of the fueling operator.
 1. When lightning is detected within 5 miles of the center point of CVG, 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 point of CVG for a period of 15-minutes following the last lightning strike.
 3. For each lightning occurrence within 5 miles of the center point of CVG, the 15 minute period in which fueling operations are required to be suspended shall reset to a new period of 15 minutes.
 4. Each fueling operator conducting fueling operations is required to familiarize themselves as to the areas covered by the lightning suppression system devices (refer to map included). It shall not be considered a violation if fueling operations occur in areas covered by the lightning suppression devices during lightning events; however, each fueling operator conducting fueling operations in these covered areas shall do so at their own risk.
- Any other alterations or exceptions to the MOU shall be approved by the Airport Fire Chief.

Areas Covered by HALO Lightning Suppression System



5 and 8 mile Coverage of CVG Property for Lightning Notification

