



Hanscom Aero Club Safety Meeting

16 October 2019



Outline

- **Fire Emergency Procedures Review**
 - Fire In-flight
 - Fire Upon Engine Start
- **Massport ARFF tour**
- **N36120's New Look**
- **Bird Strike Aftermath**



Emergency Request Methods

- **For any Fire/Medical Emergency:**
 - 911 from land line on Hanscom
 - 911 from Cell (dials MSP, ask for Hanscom Fire for Emergency)
 - 121.7 or 118.5 from VHF (in-aircraft)
- **Tell them what the emergency is (fire, medical, etc)**
- **Stay on the phone (or radio) until told to hang-up**

For any emergency, use 911 or VHF 121.7/118.5



Engine Fire During Startup

IF STARTED, CONTINUE TO RUN FOR "A FEW SECONDS" THEN PROCEED BELOW

OR IF ENGINE HASN'T ALEADY STARTED

Passenger (if present)	LEAVE PLANE, CALL FOR HELP (911 at HAFB)
Starter	CONTINUE CRANKING ENGINE
Mixture	IDLE CUT-OFF
Throttle	OPEN
Electric Fuel Pump	OFF
Fuel Selector	OFF
Pilot	ABANDON IF FIRE CONTINUES CALL FOR HELP IF PASSENGER HASN'T YET

**Keep cranking engine to suck the fire back in the engine.
If that fails, abandon, get clear (300 ft+) and call for help**



Hazards from Aircraft on Fire (On-Ground)

- **Smoke**

- Inhalation and visibility hazard
- What's burning:
 - » Oil and Fuel
 - » Plastic (interior of cabin) – essentially more oil
- Thick black smoke to be expected (not like a campfire)

- **Fuel**

- Lots of it, generates significant heat
- Can spill once fuel tanks ruptured and then spread, along with the fire

- **Tires**

- Can explode when super-heated
- Flying hot balls of rubber, you don't want to be in the path

<https://www.kold.com/2019/09/14/watch-air-plane-catches-fire-marana/>



Fire In Flight

Promptly Identify Source		ELECTRICAL VS ENGINE	
ELECTRICAL		ENGINE	
Master	OFF	Fuel Selector	OFF
Alternator	OFF	Throttle	Closed
Vents	OPEN	Mixture	IDLE CUT-OFF
Cabin Heat	OFF	Fuel Pump	OFF
LAND AS SOON AS POSSIBLE		Heater/Defroster	OFF
		LAND AS SOON AS POSSIBLE PREPARE FOR POWER OFF LANDING	

<https://www.youtube.com/watch?v=SWWSykk53S8>

**Emergency Descent and Land ASAP.
Do your best to vent cabin so you can see and breathe**



Massport Apparatus

- **2x ARFF Vehicles (Airport Rescue and Fire Fighting)**
 - AFFF (Aqueous Film Forming Foam)
 - Halotron (Engine 51)
 - 54' boom (piercing nozzle Engine 51) and 55' Nozzle (Engine 52)



Lots of help is available, don't hesitate to call for it



N36120 New Paint

- In case you're wondering who's plane this is: Hanscom Aero's!
- More aircraft to be repainted in the near future





Bird Strike Aftermath



Cowling



Windscreen



Bird Strike Aftermath



Cowling



Cowling