CAMPBELL HELICOPTERS - AIRCRAFT CRITICAL SURFACE CONTAMINATION EXAM

Name: References:		Date:	
		Reviewed & Corrected to 100%	
1. 2. 3.	When In Doubt Company Operations Manual Canada Flight Supplement	Ву:	
		Signature:	
		Date:	
1	Responsibility of the pilot-in-command and ot Regulations related to operations in icing con Weather conducive to ice, frost and snow co Inspection before flight and removal of conta In-flight icing recognition	dition ntamination mination	

- 1. If you encounter icing and cannot leave the area you should?
 - a) Continue flight until clear of ice
 - b) Land at the nearest airport so you can de- ice
 - c) Land as soon as possible
 - d) Turn on the pitot heat, windshield heat, and close the cabin fresh air vents
- 2. Candidates taking the program on adverse effects of aircraft surface contamination:
 - a) need not to be tested.
 - b) shall be tested on the use of de-icing and anti-icing equipment.
 - c) shall be examined to verify they understand and are able to apply the concepts taught.
 - d) shall write an examination on the concept and use of de-icing and anti- icing equipment.
- 3. An air carrier shall provide training to crew members on the adverse effects of aircraft surface contamination:
 - a) biannually,
 - b) annually,
 - c) biennially,
 - d) on initial hiring only.
- 4. "Surface contamination" when applied to a rotorcraft air transport training program means any:
 - a) frost, ice or snow on or adhering to the critical surfaces of an aircraft.
 - b) material or fluids, including frost, ice or snow, on or adhering to the critical surfaces of an aircraft.
 - c) material or fluids on or adhering to the main or tail rotors of an aircraft.
 - materials or fluids, including de-icer fluid, on the rotors and control surfaces of an aircraft.

- 5. When a crew member of an aircraft observes frost, ice or snow adhering to the wings of an aircraft before commencing take-off, the crew member:
 - a) shall immediately report that observation to the PIC.
 - b) need not report that observation if the aircraft has recently been de-iced.
 - c) shall immediately report that observation to a designated crew member.
 - d) unless designated, need not report that observation.
- 6. In all cases, the ultimate responsibility for ascertaining that the aircraft is in a condition for safe flight rests with the PIC:
 - a) and the flight operations manager.
 - b) only.
 - c) and flight dispatch.
 - d) and the company chief pilot.
- 7. No person shall commence a flight in an aircraft:
 - a) unless it has been de-iced if frost, ice or snow conditions exist.
 - b) unless assured that adhering frost, ice or snow will slide off ontake-off.
 - c) if frost, ice or snow is adhering to the critical surfaces.
 - d) if frost, ice or snow adhering to the critical surfaces cannot be removed on take-off by the aircraft de-icing systems.
- 8. Who may inspect an aircraft before flight to determine if frost, ice or snow is adhering to the critical surfaces? The PIC and:
 - A. a flight crew member of the aircraft designated by the PIC to carry out the inspection
 - B. the operations officer
 - C. the de-icing crew
 - D. a person designated by the operator who has received training concerning surface contamination
 - E. any Aircraft Maintenance Engineer
 - a) A, B, C, D, E.
 - b) A, B, C, D.
 - c) A, B, C.
 - d) A, D.
- 9. Prior to take-off, the PIC cannot confirm that the aircraft is "clean". Take-off:
 - a) may be commenced provided the hold over time has not been exceeded.
 - b) may be commenced provided the anti-ice fluid used was of the type that prevents ice or snow from sticking to the critical surfaces.
 - may be commenced provided the amount of ice, snow or frost does not exceed that specified in the company operations manual.
 - d) must not be attempted until confirmation is obtained that the aircraft is clean.
- 10. Where frost or snow conditions exist, no person shall commence a flight in an aircraft unless the aircraft:
 - a) has been de-iced.
 - b) has been inspected to determine whether any frost, ice or snow is adhering to the critical surfaces.
 - skin temperature is warm enough to ensure that adhering frost, ice or snow will slide off on take-off.
 - d) power and runway length are sufficient to allow acceleration to Vr plus 30% before rotation.

- 11. A covering of dry snow remains on a parked aircraft during a sunny, warm winter afternoon. The next morning the pilot could expect to find:
 - a) a light dusting of snow.
 - b) no snow or ice.
 - c) a layer of slush.
 - d) a dusting of snow on top of ice
- 12. Are company aircraft allowed to be operated in forecasted icing conditions? Under what circumstances could you commence a flight if icing was forecast?
 - a) No, If current pilot reports or weather reports indicate that icing conditions no longer exist
 - b) Yes, If icing was not in your indented flight path, and it was only light icing
- 13. If the contaminant cannot be removed, under what circumstances could you commence a flight?
 - a) None, the flight must be cancelled or postponed
 - b) After you got most of the contaminants off, you can fly
- 14. What two performance issues will occur with ice build-up, relative to the autorotational capacity?
 - a) Lower Rotor RPM
 - b) High Rotor RPM
 - c) Low Rate of decent
 - d) High Rate of decent