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Continuing Education Course #613
Airport Engineering
Part VII - Deicing Facility Design

1. In terms of deicing, what does FPD stand for?
 - a. Freezing point dilution
 - b. Fire protection device
 - c. Fault primary detection
 - d. Freezing point depressant
 - e. Forward power drain
2. Which document is governing for airport deicing facility design in the US?
 - a. AC 150/5130
 - b. Form 7480-1
 - c. AC 150/5100
 - d. AC 150/5300-14D
 - e. Form 7460-1
3. The main reason in-flight icing is dangerous is that it...
 - a. Adds weight to the aircraft
 - b. Changes the aerodynamics of the wings
 - c. Freezes the control surfaces in place
 - d. Makes the passengers feel uncomfortable
 - e. Causes food carts to slide down the aisle
4. Ice can be removed from wings during flight.
 - a. False
 - b. True
5. Width and length of a deicing parking area should equal...
 - a. The largest ADG
 - b. The smallest jet in the fleet mix
 - c. The heaviest airport maintenance vehicle
 - d. The rotor diameter of a life-flight helicopter
 - e. The nearest NAVAID
6. Which of the following aspects do not contribute to the location of a centralized deicing facility?
 - a. Holdover time
 - b. Taxiing time
 - c. Weather patterns
 - d. Distance to runway
 - e. Long term parking

7. The Interior Deicing Pad distance from Taxi CL to Taxi CL for ADG IV in a Movement Area is...?
- a. 396 ft
 - b. 112.5 ft
 - c. 74 ft
 - d. 269 ft
8. Infrared deicing methods may include all but which of the following features?
- a. Entrance taxiway
 - b. Nighttime lighting
 - c. Ice detection cameras
 - d. Deicing structure
 - e. Refueling point
9. True or False: Runoff from airport deicing facilities can either be isolated from storm sewers and/or recycled.
- a. True
 - b. False
10. Glycol deicing and antiicing fluids exhibit the properties all except one of the following. Which is not true?
- a. Always safe for human consumption
 - b. Relatively nontoxic for aquatic organisms
 - c. Usually toxic for mammals
 - d. Deplete dissolved oxygen
 - e. Encourages growth of undesirable bacteria

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