

Aviation Equipment Maintenance

AirTAP Fall Forum



Tank Maintenance

- Fall concerns
 - AST Venting
 - Inspect emergency vents and operating vents for moisture.
 - Frozen vents can cause structural damage to tank when filled.
 - Water
 - Cooler weather will cause condensation on inner tank walls.



Tank Maintenance

- UST Regulations
 - Cathodic Protection testing of all underground tanks and piping.
 - Inventory Reconciliation for leak detection.



Tank Cleaning

- Water Removal
 - Sump tank daily and before accepting any transport loads.
- Biocides
 - Used for bacteria and fungus growth.
 - Not all are suitable for aviation fuels or certain engines.



Fuel Sampling

- Most important preventative action to verify fuel quality.
 - Perform white bucket test at all bulk transfers.
 - Take millipore samples upstream and downstream of filter/separator or monitor.



Filter Inspection

- Gauges
 - Verify pump pressure does not exceed filter element design.
 - Differential pressure
 - Indicates performance of elements.
- Elements
 - Change on a calendar schedule.
 - Reduces chances for biological growth in fuel and water trapped in filter.



Dispensing

- Deadman controls
 - Overwing dispensing requires non-locking latches on refueling nozzles.
 - Underwing dispensing require manual switches that must be held.
- Grounding and Bonding
 - Grounding is connecting the plane to grounding rod thru wire.
 - Bonding is connecting the dispenser and plane thru the same wire.



Hose Inspection

- New Hose Installation
 - Flush all new hoses with fuel after installation.
 - Allow hose to sit unused for several hours.
 - Flush hose again before refueling aircraft.



Hose Inspection

- Periodic Inspections
 - Daily: Visual
 - Monthly: Complete hose hands-on for irregularities, scuffs, and soft spots. Inspect with and without pressure
 - 6-Month: Pressure test to Maximum Working Pressure and perform same inspection as monthly.



Questions?



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