

## Agricultural Aviation Security



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☐ Provide automatic proximity sensor activated security

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Aircraft, facilities, support equipment, and chemicals represent an enormous investment that must be safeguarded. Safeguards should provide resistance to theft, vandalism, fire, weather, and now terroristic manipulations. The events of September 11, 2001 have heightened our awareness for the need to enhance security measures. Proper planning may also help address all general security needs.

Good security measures are your best insurance against problems resulting from accidental or intentional damage by unauthorized personnel at your facility. A modest investment of resources and effort can prevent a substantial loss to your operation. Common sense and a general heightened awareness about security should allow you to implement these and other ideas to enhance safety and security.

## Facilities

ra	acinties
	Post contact numbers: Police, Fire, Emergency, Poisor Control, Management, and others.
	Make sure that there is an accessible phone in case of emergencies.
	Install a security fence, locked storage building, and other means of preventing unauthorized public access to your property.
	The main entrance to the facility should have a sign indicating that all persons must check in at the main office immediately upon arrival. This will allow you to know who is on the site and proper assistance can be provided.
	Lock all gates and doors when your facility is unattended.
	All valves on bulk product tanks should be secured with locks.
	Equip sight gauges on bulk storage tanks with bottom valves that are normally turned off and locked.
	Lock all sump pumps from containment areas.
	Application equipment containing product that is stored overnight should be parked on a rinse pad, secured and equipped with locked discharge valves.
	Install adequate lighting in all product storage and handling areas.
	Seal or eliminate containment drain lines. Septic systems with leach fields should never be used for

disposal of any liquid that may contain agri-chemical

contaminants.

	lights for worker protection and to minimize
	vandalism at containment and mix-load facilities.
	These proximity sensors may also be used to trigger
	some type of alarm in needed.
	Utilize security alarms for facilities, equipment, and offices.
	Utilize local law enforcement
	Periodic patrols of airport
	List of activity times and people involved
	Provide list of employees and associates
	Transient (non-based) pilots register aircraft with
	airport/Fixed Base Operator (FBO) upon arrival and notify at departure.
	Post contact information to report suspicious activity and/or emergencies.
	Limit keys and document who has each key with accurate and up to date accounting.
	Airports with combination lock access points will help control who is allowed on the property during all hours. Combinations should be changed often and access given on to those with a real need.
	Post all signs and emergency instructions in dual languages as appropriate.
A	ircraft
	Use of anti-theft devices and lockable control surface devices.
	Utilize prop and/or tail wheel locks.
	Lock hopper gate or hopper door in the open position.
	Locks on hangars to prevent unauthorized entry.
	Secure aircraft — remove keys when unattended.
	Encourage pilots to escort visitors at all times.
	Block passages with trucks or other items.

☐ Aircraft departing for an extended period of time

Airport Businesses, Flight Schools, Flying

should notify airport manager/FBO.

☐ Use key lock boxes with limited access and

☐ Aircraft should remain locked and secure when

☐ Utilize photo ID to identify.

Clubs

distribution.

unattended.

☐ Refueling vehicles should remain locked and secure when unattended.	☐ Inspect tanks regularly for cracks, leaks, sludge, and rust.
A import community weetch management	☐ Clean pesticide leaks and spills immediately.
Airport community watch program  ☐ Coordinated locally by pilots and airport officials.	☐ Keep sumps covered when not in use to keep out trash, dirt, and debris.
☐ Establish a community monitoring network.	☐ Use collected storm water as makeup water or dispose
☐ Encourage proactive participation in:	of properly.
☐ Aircraft security	☐ Keep a spill cleanup kit readily available near the
☐ Facility security	mixing-loading area for quick, efficient cleanup of
Heightened awareness	spills.
☐ Post signs promoting the program, warning that the airport is watched.	☐ Use dry break connectors on hoses that are connected frequently.
☐ Provide training to employees for recognizing	☐ Mix only the amount of pesticide that will be used.
suspicious activity and appropriate response tactics.	☐ Segregate rinse water by crop commodity or label
☐ Utilize law enforcement personnel for airport	restrictions so that it can be used as diluent in future
community education.	loads.
<ul><li>□ Periodic meetings of airport community.</li><li>Fuel Storage</li></ul>	☐ Store triple-rinsed empty containers neatly in a secured dry area before disposal.
☐ Put locks and consumption recording devices on all	☐ Rinse container caps and outside of containers to
fuel outlets.	remove pesticide residues.
☐ Locate all on-site fuel tanks above ground in a	☐ Do not allow rain water to run off containers on to the
secondary containment, or utilize tanks with built in	ground – there may some undesirable residuals
secondary containment.	washed off.
☐ All underground storage tanks should be registered	☐ Regularly log, inspect, and inventory chemicals on
and appropriate procedures and records maintained	hand to be sure of exact amounts.
according to state and federal laws.	Storage and Handling
☐ All new underground petroleum tanks must be	Prevention of air, surface, and ground water contamina
equipped with leak detection and corrosion protection	tion should be a top priority in the operation of your facility
systems. The design specifications and periodic fuel	This should be accomplished while enhancing the overall
volume reconciliation must be documented and	efficiency of the facility.
maintained in a permanent file according to state and federal regulations.	☐ Store pesticides and fertilizers in separate
☐ Fuel and chemical product tanks and piping should be	containments.
protected from vehicle collision damage.	☐ Storage areas must be well ventilated using explosion proof electrical control wiring and fan motors with <b>at</b>
☐ Appropriate NFPA Fuel Warning and No Smoking	least 6 air exchanges per hour.
placards must be posted at fuel storage facilities.	☐ Make sure storage facilities are placarded with the
☐ Employees must be instructed not to smoke or eat	appropriate warning and hazard signs.
while handling pesticides or fuels.	☐ Place appropriate fire extinguishers outside near
☐ Material Safety Data Sheets (MSDS) for all hazardous	storage entrances.
materials (pesticides, ammonia, or acids) used at the	☐ Store dry pesticides above liquid pesticides or in
facility must be readily available for worker access.	separate areas.
Dogticide Storage and Security	☐ Use corrosion proof metal shelving with a retainer lip
Pesticide Storage and Security  The appropriate of the proportion is a direct reflection	at the front of each shelf.
The appearance of your operation is a direct reflection of your professional business management to customers,	☐ Maintain an inventory of type and quantity of each
neighbors, the general public, and regulatory officials. Good	chemical at the local fire department. This should be
housekeeping creates a positive impression while	updated when there are significant changes in quantity
disorganized, unclean, or generally sloppy appearances may	and/or type of chemical.
be an indication of other potential problem areas. Use the	☐ Manually operate all containment sump pumps unless
following practices:	authorized otherwise by state regulation.
☐ Clean mixing/loading and storage areas daily or after	☐ Place each small volume container (up to 5 gallons) in
each use.	a separate "rubber tub" containment.
☐ Use collection containers to catch drips when	☐ A detailed diagram of inventory storage locations
connecting or disconnecting hoses.	should be on file with appropriate local emergency
	police and fire fighting personnel.

☐ Use tarps, plastic sheeting, or catch pans under fertilizer conveyor transfer points to contain leaks and spills.	amounts as prescribed by your state regulations, usually a 25-year storm (see MWPS-37 Handbook for 25-year storm graph for your region of the United
☐ Keep all pesticide containers closed.	States).
Use closed transfer handling of pesticides for worker safety.	☐ If the pesticide containment area is outside, consider plans to roof the pad to eliminate storm water accumulation.
Dry Fertilizer	☐ Locate all transfer pumps, pipes, hoses, and valves
By law, fertilizers and pesticides must be stored in	within a containment structure, above the highest
separate containments. Fertilizer containment overflows may drain into pesticide containment, but pesticide	anticipated flood or spill level, for easy inspection and
containment overflows cannot drain into fertilizer	operation.
containments.	☐ Make routine inspections of the storage area to check for leaks and spills daily during the application
☐ Store all dry fertilizer products under roof.	season, then weekly or bi-weekly.
☐ Divert rainwater away from the fertilizer storage area.	☐ Document primary inspections factors (time, date,
☐ Contaminated rainwater should be collected and	place, conditions, etc.) in a log book.
applied as product.	☐ Repair leaks and clean contaminated pad area
Recover and use any spilled product immediately.	immediately.
☐ Fugitive dust from storage and transfer areas should be contained and used.	<ul> <li>Clean spills immediately and properly dispose of the waste.</li> </ul>
☐ Dry fertilizer handling areas should have containment	☐ Equip the containment area with a spill collection
diking.	sump, sump pump, or transfer pump suction hose and
☐ Clean storage areas daily or after each use.	holding tank. A transfer suction pump dedicated to
Liquid Fertilizer	each product type may be useful when product cross
☐ Liquid fertilizer tanks should have secondary	contamination is a concern.
containment. Containment sizes should be the same as	☐ Store all pesticide mini-bulk tanks in a pesticide
outlined in the pesticide section below.	storage containment area to avoid accidental runoff or
☐ Tank outlets should be locked.	drainage into streams, ditches, or well heads.  ☐ Use stored rinsate and storm water immediately in
☐ Storage areas should be fenced with controlled access.	suitable product mixes -1 part rinsate to 4 parts clean
☐ Tank bottoms should be kept dry if possible. This may	water. Check state regulations regarding rinsate
be accomplished by placing the tank on 6 inches of	concentrations allowed.
loose pea gravel in a containment ring and then keeping the main floor pumped dry.	☐ Keep packaged chemicals inside a secure building designed with at least 6-inch deep internal
Pesticides	containment to hold water or other chemicals used in
All pesticides must be stored in a separate, isolated area	fire extinguishing.
to prevent possible contamination of animal feed, grain,	Mixing-Loading Areas
fertilizer, or other materials.	☐ Properly ventilate inside mixing areas with at least 6
☐ Keep flammable and/or combustible materials	air changes per hour for pesticide handling.
segregated from all ignition sources.	☐ Prominently display appropriate warning signs
☐ Store all bulk chemicals inside a diked containment area under roof.	regarding hazardous chemicals and non-smoking
☐ Store collected rainwater from diked areas for use in	areas at all entrances and exits to a building.
future application blends or mixes, or pump it out if it	☐ All product and rinsate storage should be properly
is clean and is allowable by regulations in your area.	labeled by content.
☐ Pesticide secondary containment tanks under roof	Locate mixing and transfer tanks and pump systems
should hold a containment volume at least 110 percent	within a containment area capable of holding 110 percent of its contents if under roof, or 125 percent if
of the largest tank in the containment area, including	not roofed.
the displacement volume of all tanks and equipment in	☐ Design the load pad containment system to handle 110
the area.	percent of the volume of the largest transport truck or
☐ For a containment area not under roof, the containment volume should hold 125 percent of the	applicator vehicle if under roof, or 125 percent if not
volume of the largest tank in the containment area,	roofed.
including the displaced volume of all tanks in the area,	☐ Conduct all product loading over a containment load
plus freeboard (6 inches is typical), plus rainfall	pad with a collection sump.

☐ Handle pesticide and fertilizer products using mix-	Rinsate Handling and Reuse
load equipment in a common containment area but	☐ Rinse hopper, plumbing, and boom equipment over
store them in separate containments.	the application site if possible, and apply rinsate to the
☐ Secure all mix-load areas, drain valves, transfer lines,	target while at the site to avoid rinsing at the facility upon return from the field.
and pumps.	☐ If spray equipment is rinsed at the facility, collect
Personal Safety	rinsate and segregate in holding tanks that are
☐ Proper personal protective equipment should be	dedicated and marked according to crop for reuse to
provided at each site for each employee as required by	avoid pesticide cross-contamination.
the Worker Protections Standard.	☐ Thoroughly clean rinsate tanks used for different
☐ All employees should receive adequate training in the	crops and/or chemicals that are not compatible.
use of appropriate protective gear and equipment for handling products.	☐ Exterior equipment wash-down should be done on a
☐ Proper use of safety equipment and clothing and	clean mix-load pad, and the rinsate should be
laundry practices will protect you, your employees,	collected and sprayed on an approved target even
and families involved. Use washer and dryer at site to	though external rinse water has been defined as non-hazardous. Clean pad thoroughly after washing down.
prevent transporting possible contaminated clothing	☐ Apply the liquid collected from the mix-load pad
home and mixing with family laundry. Therefore,	sump immediately to an approved target (for the job
changing clothes before leaving work is suggested.	the rinsate was generated from if practical), or
Use closed mixing and/or transfer systems for	temporarily store it in an aboveground tank for a short
pesticide handling safety.  ☐ Use a separate washer and dryer. Do not mix pesticide	period of time until it can be used on another job
contaminated clothing with family clothing. Hang	requiring that chemical. Underground storage may not be allowed. Follow tank size and time allowances in
clothing outside in direct sunlight and wind to dry	your state.
when possible.	•
☐ Use strong detergents and hot water for washing. Run	Suspicious activities
empty washer with detergent and hot water cycle to	Another important part of securing the safety of your
empty washer with detergent and hot water cycle to clean after washing contaminated clothing.	agricultural aviation facility and business centers on general
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