**YOUR COMPANY NAME HERE**

# PESTICIDES

**YOUR COMPANY NAME HERE**

**PESTICIDE PROGRAM**

## GENERAL PESTICIDE USE

**Poisoning via dermal**, **oral, inhalation or eye**

All employees regularly handling, mixing, loading, and/or applying pesticides shall complete an annual course on pesticides and pesticide safety and worker safety.

## PESTICIDE HANDLING

***Poisoning via spillage of material or breakage of containers during handling.***

* Pesticide containers shall be carried only by handles provided on the containers.
* Pesticides shall be stored only original containers.
* During mixing of pesticides employees shall wear at least a face shield, goggles or safety glasses, long sleeved shirt, long pants, and unlined neoprene or rubber gloves. For mixing of non‑premeasured dusts and wettable powders, employees shall wear a NIOSH/MSA approved respirator in addition to the above listed protective equipment.
* The employee shall routinely clean all personal protective equipment. All gloves shall be washed with soap and water daily. Respirators shall be maintained in a manner described in the WIIPP Respirator section.
* Pesticides shall be mixed only according to label rates. Employees shall ensure that the top of the pesticide container and the top of the pesticide tank into which they are pouring the material are below waist level of the employee.
* All mixing of pesticides shall be conducted outside
* During pouring of the pesticides, employees shall NOT use their waist, leg or other part of the body to hold the pesticide container in order to support or otherwise stabilize it.
* During all mixing and loading operations, employees shall NOT smoke, drink any beverage or consume food.
* After all mixing and loading operations are complete; employees shall thoroughly wash their hands with soap and water.
* All spilled pesticides shall be cleaned up immediately upon spillage and waste disposed of properly. Empty pesticide containers shall be triple rinsed, repeatedly punctured or otherwise made unusable and discarded in the trash. Rinsate shall be poured into the termiticide power spray rig tank.

## STORAGE (FIXED SITE)

### Spills

* Pesticide containers shall be stored securely on shelves with front plates (wood, wire or metal) to ensure no containers fall.
* Pesticide containers shall be stored in a separate area from all flammables, heating units, food and non‑pesticide paper goods. Storage areas shall remain locked except when employees enter area to replenish supplies or remove pesticides.
* Only employees of Your company name here are to be allowed access to the pesticide storage area. The pesticide storage area shall have a sign on the outside of the door and the other three sides stating this is a pesticide storage area in letters readable from 25 feet away in English and Spanish.
* All fire and building safety codes for the storage of pesticides shall be adhered to at all times. All fumigants shall be stored in a locked enclosed cabinet, not inside of a building. All fumigant cylinders shall be stored upright and securely with chains, bars or other devices to prevent the cylinders from falling over.
* Labels and safety data sheets for all materials stored in the pesticide storage area shall be maintained at a location near the entrance to the storage area.
* There shall be a separate air vent from the pesticide storage area to the outside air for venting of any fumes.
* There shall be a fire extinguisher available near the pesticide storage location.
* There shall be a safety shower/eyewash or reasonable facsimile of in a convenient location near the pesticide storage location and there shall be a pesticide spill kit in or near the pesticide storage location.
* There shall be a complete set of personal protective equipment stored in a location outside of but near to the pesticide storage location. All pesticide equipment shall be stored in the pesticide storage area.

## STORAGE (MOBILE SITES: TRUCKS)

### Spills

* All pesticides shall be stored, closed, in their original containers.
* They shall be transported in the upright position.
* The vehicle shall have a complete set of labels and Safety Data Sheets available in the cab of the vehicle.
* There shall be a fire extinguisher stored in the cab of the vehicle along with a pesticide spill control kit kept in the pesticide storage area of the vehicle.
* Pesticides shall not be stored or transported in the cab or otherwise occupant's airspace.
* All personal protective equipment shall not be stored in the same area as the pesticides.
* The storage areas of the vehicle shall be locked at all times except when the employee is at the vehicle.
* All pesticide application equipment shall be stored in the pesticide storage area.
* All aerosol cans should be stored upright with their caps securely in place.
* All pesticide storage boxes shall be marked on one side as pesticide storage containers.

## DIGGING, TRENCHING

### Strains, Muscle pulls and Cuts from flying objects

* Wear long sleeves, boots and gloves.
* Wear safety glasses at all times.
* Inspect all tools to ensure heads arc secure and tools are in good condition.
* Use proper tool for job.

***Damaging utility lines:***

***Gas explosions***

Ensure site supervisor is familiar with placement of all utility lines prior to digging.

***Inhalation of dusts: lung damage hazard***

Workers digging in sub areas shall wear respiratory protection devices such as particle dust masks.

## DUSTING FOR PESTS

***Bumping Head***

Technician should be aware of headroom when moving in and around areas to be baited.

***Unsanitary Conditions***

* Technician should wear gloves when working in filthy environments.
* Wash hands after job is complete, before using restrooms and before eating.

***Inhalation Poisoning***

Technician shall wear approved respirator when working with dusts.

***Dermal Poisoning***

Technician shall wear long sleeved shirt and neoprene gloves when handling or dispensing dusts.

***Electrical Shock***

* Avoid placing tip of duster in electrical outlets.
* Place I inch long piece of rubber fuel line hose or aquarium air hose on end of duster dispensing tube to insulate unit.

***Off Target Application poisoning of humans, environment and wildlife.***

* Verify wind direction and speed prior to spraying.
* Check all sides of the sight to observe potential off target application or other exposure problems.
* Check for water sources, wells, streams, creeks and drains.
* Make sure the spray will not move into these areas.
* Make sure all watering systems are turned off during and immediately after application.
* Keep all animals and humans off treated areas until spray has dried.

***Post Treatment***

* Turn off engine.
* Wind up hose onto reel slowly, cleaning hose with rag as it is wound back up.
* Secure reel.
* Release pressure valve at regulator.
* Secure/Store gunjet and all other application equipment.

## ROUTINE MAINTANANCE

***Equipment down time and******Pesticide spills.***

* Always wear neoprene gloves and safety glasses when repairing, cleaning or otherwise servicing any equipment used to apply pesticides.
* Prior to leaving from office, visually inspect entire rig for any signs of trouble or wear and tear. If problems are noted, vehicle is **NOT** to leave office and should be repaired immediately.
* Report problems to manager or supervisor for appropriate corrective procedures.
* Remember, the rig includes inside of tank, engine, pump, strainer, hoses, reel and gunjet.
* Flush system with a pesticide neutralizing material on a weekly basis. Flush system with at least 5 gallons of clean water to rinse. This rinsate is to stay in the tank and to be used on the next job. This is allowable under company policy.
* On a quarterly basis have the pump serviced and inspected by a mechanic or other duly designated person who is to conduct routine maintenance.
* Every **six months** or sooner, change the oil in the engine and check the spark plug, air filter clement, and other necessary maintenance items. This should be conducted by a mechanic or other duly designated person to conduct routine maintenance.
* Once or more per week clean strainer of debris.
* Fill out logbook for sprayer maintenance. Include all work conducted on rig and condition of all equipment and rig components

## REFUELING ENGINE

* Turn off engine while refueling.
* No smoking while refueling.
* Avoid inhaling vapors when refueling.
* Check oil for correct levels in engine.
* Use only recommended oil.
* Use only "Regular" fuel as recommended by the manufacturer.

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## AEROSOL FOGGING

* When fogging, the protective equipment shall consist of half face respirator with goggles or safety glasses, or a full-face respirator.
* All persons not wearing personal safety protection shall vacate areas to be treated for a period of time not less than **30 minutes**.
* Elderly, young, sensitive or ill persons shall be requested to vacate for at least **four hours**.
  + Neoprene rubber gloves shall be worn when applying aerosol products.
  + All persons performing treatments with aerosols shall wear clothing with long sleeves and long pant legs.
* Treatment shall be at only label rates for sites and pests listed on the label of the material being used.
* Volume of area to be treated in cubic feet shall be determined prior to treatment in order to calculate time of release of pesticide.
* Based on amount of time determined to be necessary from the above listed step, the aerosol will be dispensed in the treatment area for that calculated amount of time.

## AEROSOL CRACK & CREVICE APPLICATIONS

* Treatment shall be at only label rates for sites and pests listed on the label of the material being used.
* Application straw shall be inserted in to crack or crevice.
* Pesticide shall be dispensed into crack or crevice for **one (1) second** bursts per location.
* Application along cracks shall be made such that the application straw is more than the recommended rate by the product label.
* Eye protection shall be worn when applying any aerosol pesticide in a crack and crevice method due to potential for back spray of material into applicator's eyes.

## PESTICIDE PARTICLES OR VAPORS IN THE AIR

* All employees shall be fit tested with banana oil or irritant smoke for correctness of fit of all new respirators.
* All employees wearing respirators shall be required to have a doctor fill out a form stating that they have no physical impairments that would preclude the wearing of a cartridge respirator.
* Employees required to wear respirators shall NOT have any facial hair that would impair the functioning of the respirator.
* Respirators shall be worn when pesticides are mixed or applied indoors, or where otherwise stated on the label for any outdoor applications.
* Respirators shall be broken down and cleaned with soap and water weekly.
* Respirators shall be inspected daily for defects that would impair the functioning of the respirator. Defective parts shall be replaced immediately prior to the next usage of the respirator.
* Respirator cartridges shall be replaced every eight hours of use.
* Respirator dust filters shall be replaced every eight hours of use of when they are full of dust.
* Employees shall conduct negative and positive pressure tests on the fit of their respirators each time they don the respirator.
* Employees using respirators shall complete an annual worker safety course.

## PESTICIDE APPLICATIONS

* Eye protection shall be worn at all times when applying any pesticide and shall include **safety glasses** or a face shield when conducting outdoor applications and **safety goggles** when conducting indoor applications.
* Safety goggles may be required for outdoor applications if application occurs above the shoulder of the applicator or the label/SDS of the pesticide requires such additional protective measures.
* Eye protection shall be cleaned and well maintained by the individual user. The user is responsible for weekly washing of their eye protection in soap and water.
* All employees handling, mixing, loading, applying or disposing of pesticides or their containers shall wear unlined neoprene or rubber gloves
* Gloves shall be checked for soundness **daily**. This may be accomplished by filling the glove with water and checking for leaks that would indicate holes in the glove. If gloves are shown to have any holes or other significant wear, they shall be replaced immediately.
* Each employee shall wash his or her gloves in soap and water once a week.
* Employees shall wash their hands after handling gloves and/or pesticides prior to eating, smoking, drinking or utilization of restroom facilities.
* Employees shall wear long sleeved shirts and long pants when handling or applying any pesticide. Shirt sleeves shall not be rolled up during pesticide related activities.
* Employees shall launder their clothing **daily** and shall **NOT** wear the same uniform clothing over the course of two days. An extra set of clothing shall be kept in the vehicle at all times.
* If clothing starts to be wetted during applications of pesticides above the shoulders, employees shall stop application and don a rubberized raincoat and hat.

## MIXING/LOADING

* Fill tank with half desired amount of water. Add appropriate amount of concentrate pesticide to tank. Add remainder of water required for desired amount of finished solution.
* Use only approved and marked pesticide-measuring devices.
* Wear eye protection when measuring and loading chemicals into tank as well as dermal protection, neoprene gloves, long sleeved shirt, pants and chemical resistant boots.
* Wear appropriate respiratory protection when mixing/loading dusts and wettable powders.
* Do NOT mix, pour or otherwise load concentrates above level of head.

**DO NOT MIX More than the Needed Amount for Each Job**

***Pesticide spills***

* Check tank for leaks when filling with water.
* Verify tight connections at all joints, hose and other plumbing connections.
* Be familiar with all company safety procedures.
* Be familiar with pesticide spill emergency procedures.

## TRANSPORT FROM JOBSITE TO JOBSITE

***Pesticide spill in accident***

***Vehicular accident***

**DO NOT TRANSPORT ANY DILUTE SPRAY MIXTURE IN THE TANK!**

Drive in a safe and courteous manner at all times.

## PESTICIDE APPLICATION

***Pesticide exposure***

Wear appropriate personal protective gear at all times when applying any pesticide. This shall include long sleeved shirt, pants, chemical resistant shoes, neoprene gloves, and appropriate eye protection.

***Pesticide spills***

* Check tank for leaks when filling with water.
* Verify tight connections at all joints, hose and other plumbing connections.
* Be familiar with all company safety procedures.
* Be familiar with pesticide spill emergency procedures.

***Application***

Follow above procedure for mixing and loading at job site.

**Do Not Transport Dilute Chemical in Tank.**

Mix only the amount necessary for the job.

* Check all fluid levels in engine on rig.
* Secure necktie and other loose-fitting equipment prior to starting engine.
* Verify guards are in place over belts.
* Start engine to mix material in tank.
* Pull out hose from reel slowly while standing at vehicle. **Do NOT** pull hose from reel by pulling on end of hose.
* Pull off amount of hose necessary to apply pesticide at desired locations while still at truck.
* Make sure pressure at pump is not more than 25 psi for termite rigs and 50 psi for general pest sprays.
* Briefly inspect hose while unreeling for any cuts, breaks, kinks or other problems.
* Verify that occupants and all other human or animal life are considered prior to any pesticide application.
* Check wind direction and speed to minimize or prevent over spray and off target application.
* Wear appropriate safety gear for specific application.
* Initiate application.
* For termite work, verify during and after application that chemical is not leaking into structure from cracks, holes and the like. If this occurs, see company emergency response guidelines (Appendix).

### Standard Procedure

* Fill duster 2/3's full of appropriate dusting material.
* Technician shall wear a dust mask and neoprene gloves when filling duster.
* When completed filling, place stopper or closure device in place and close duster.
* When transporting duster, place in plastic Ziploc- type bag. Bag should be labeled in large black or red letters as for duster storage only.
* Gently shake duster to ensure break up of any clumps in duster.
* Turn duster so that output tube is on top.
* Place end of tube into opening of void or crack/crevice.
* Gently compress duster to discharge dust into desired area.
* While applying dust, observe for movement of dust out of void. If this occurs, discontinue application at this spot and move on to next spot.
* When finished, place duster in storage bag and return to vehicle.

### GENERAL

***Bumping Head***

Technician should be aware of headroom when moving in and around areas to be baited.

***Trips, Slips and Falls***

* Be aware of surroundings and look ahead when walking to identify potential problems in landscape.
* **Do not** carry overly heavy amount of equipment in one trip to work site at location. Make several trips.

### PEST INSPECTIONS

***Standard Procedure***

* Starting at one comer of the structure, walk clockwise around structure.
* Look at all windows, doorways and other areas where pests and carcasses may gather or gain entry.
* Note moisture conditions around plants.
* Note general health conditions of plants and insect pest activity on plants.
* Note if plants, weeds, turf and other plant materials are growing up against side of structure.
* Note holes, rodent activity, bird activity and other vertebrate pest activity around structure.
* Observe structure for obvious signs of water problems such as mold, fungal growth, salt stains and water stains on side of structure.
* Observe for general insect activity around structure.

## TREATMENT WITH PESTICIDES

* Wear long sleeved shirt, long pants, pesticide resistant footwear, eye protection and neoprene chemical resistant gloves when handling, mixing/loading or applying any pesticide.
* During mixing, wear approved respirator as additional protection.
* Wear approved respirator when mixing pesticides out of doors. Although respirator is not required when applying out of doors, it is suggested because the applicator may contact drift.

***Off Target Application***

Mix only the amount of dilute chemical required for job.

* Follow WIPP procedures for operating power sprayers.
* If using a power sprayer for job, verify wind direction and speed prior to initiating application.
* Check all sides of site to observe potential off target application or other exposure problems such as children, pets and toys.
* Check for water sources, wells, streams, creeks and drains. Make sure spray will not move into these areas.
* Make sure all water sources are turned off during and immediately after application.
* Keep all animals and humans off treated areas until spray has dried.

***Application Standard Procedure***

* Mix appropriate amount of material in tank.
* Wear appropriate safety gear for application.
* Set pressure low, 20 to 25 psi.
* For perimeter treatments (quarterlies) apply a band of dilute spray completely around structure; 3 feet up walls and 4 feet out from structure on ground. Move slowly, making sure not to miss areas or walk through treated areas.
* For flea treatments, apply dilute material up to 4 feet around the perimeter of the structure. Treat areas under all bushes and other ornamental plantings. Treat all animal runs and other areas where pets may be found routinely.
* For all outbuildings, treat perimeter of structure up to 6 feet away from structure.

## UNSANITARY CONDITIONS

* Technician should wear gloves when working in filthy environments.
* Wash hands after job is complete, before using restrooms and before eating.

***Standard Procedure******Bait Stations***

* Select bait type depending upon pest identification.
* Date all bait stations and attach double sided sticky tape (supplied with station) to center back (square side) of station.
* Place station so that at least one side is abutting against another linear surface, preferably out of sight of humans, but in area where pests are found.
* Map out where stations have been placed in area.
* Record number of baits used and time for placement.
* Standard Procedure Gel
* Place bait in bait gun (if available).
* Select locations for placement that are common areas for pest harborage but will not be found readily by humans.
* Put on neoprene gloves.
* Place bait in location by placing tip of gun or tube against crack/crevice or other location and gently depressing trigger or depressing plunger on tube. When desired amount of bait has been placed in location, discontinue pressure.
* Remove gun or tube from area and cover tip.
* Continue bait placement until completed.
* Record on diagram all bait placements.
* Record amount of bait used.

***Standard Procedure******Granules (Baygon Bait)***

* Put on neoprene gloves and safety glasses.
* Open top of Baygon Bait container so that numerous small holes are visible dispensing part of top.
* Starting at one end of location to be baited, gently sprinkle bait over floor area and other areas pests are found.
* Do not place bait in cups, trays or other containers.
* Application rate should be enough so that floor area is lightly covered with granules.
* When finished, close container top.