

Commodity Fumigation Facility Work Site Plan

This Work Site Plan has five sections:

1. **Section A** records general information about the work site.
2. **Section B** records compliance with general permit conditions.
3. **Section C** is used to determine the size of the buffer zones.
4. **Section D** records compliance with other specific conditions.
5. **Section E** records information for alternate conditions.

The Work Site Plan must be completed and submitted to the CAC. Restricted Materials Permits must be obtained by both the facility operator and pest control business, if applicable.

A Restricted Materials Permit cannot be issued unless all questions in the appropriate sections are answered correctly. Incorrect information on the Work Site Plan will result in denial of the permit.

Fumigation Site:

Address: _____ City: _____ Zip: _____

Contact Person: _____ Phone: _____
(Facility Operator, Grower, QAC, QAL, etc.)

Pest Control Business: _____ Permit Number: _____

Address: _____ City: _____ Zip: _____

Contact Person: _____ Phone: _____
(QAL with the appropriate category)

I VERIFY THE FOLLOWING INFORMATION IS ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.

Signature: _____ Date: _____
(Facility Operator)

Title: _____

Consult with the County Agricultural Commissioner for suggestions on alternative conditions.

B.1: Maximum Application Rate	<p><i>(Condition 1).</i> Will your application rate be eight pounds per 1000 cubic feet or less?</p> <p>If question B.1 is answered NO, you must complete Section E.</p>	YES	NO	
B.2: Total Fumigant	<p><i>(Condition 2).</i> Will you be using 1000 pounds or less of sulfuryl fluoride or methyl bromide at the work site during a 24-hour period?</p> <p>If question B.2 is answered NO, you must complete Section E.</p>	YES	NO	
B.3: Other Types of Applications	This permit condition does not apply to sulfuryl fluoride applications.	N/A	N/A	
B.4: Enclosed Areas	<i>(Condition 4).</i> Is the fumigation enclosure outside of other buildings (i.e., not within a secondary enclosed area)?	YES	NO	
B.5: Common Walls	<i>(Condition 4).</i> Is the fumigation enclosure physically separated from all other structures (i.e., the fumigation enclosure does not share a common wall with another building)?	YES	NO	
B.6: Outside Introduction	<i>(Condition 5).</i> Is the fumigant introduced from outside the enclosure?	YES	NO	
B.7: Gas-tight Fumigant Lines	<i>(Condition 6).</i> Are fumigant lines and connections checked for leaks during each fumigation?	YES	NO	

If concentrations within the enclosure are monitored with a Fumiscope or other instrument, are the following precautions taken?

B.8: Test Equipment Seals	(Condition 7). Is the enclosure sealed where instrument sampling lines pass through enclosure walls?	YES	NO	does not apply
B.9: Test Equipment Exhaust	(Condition 8). Is the exhaust from the monitoring instrument vented out of the control room or back into the enclosure?	YES	NO	does not apply

If fumigant is introduced from within an enclosed control room, are the following precautions taken?

B.10: Fumigant Line Purge	(Condition 9). Is nitrogen gas or compressed air used to purge fumigant lines prior to changing cylinders?	YES	NO	does not apply
B.11: Control Room Ventilation	(Condition 10). Is the control room mechanically ventilated when people are present?	YES	NO	does not apply
B.12: Control Room Storage	(Condition 11). Are fumigant cylinders stored outside the control room?	YES	NO	does not apply
B.13: Aeration Initiation	(Condition 12). Is a Self Contained Breathing Apparatus worn when initiating aeration?	YES	NO	
B.14: Minimum Aeration Time	(Condition 14). If the enclosure is aerated with mechanical ventilation, is the aeration period at least four hours?	YES	NO	does not apply
B.15: Minimum Aeration Time	(Condition 14). If the enclosure is aerated passively, is the aeration period at least 12 hours?	YES	NO	does not apply
B.16: Testing Aeration Completeness	(Condition 15). Is the air concentration checked according to approved procedures before moving the commodity from the enclosure?	YES	NO	does not apply

If the treated commodity is stored in an enclosed area, are the following precautions taken?

B.17: Storage Area Testing	(<i>Condition 16</i>). Is the air concentration within the enclosed area checked according to DPR approved procedures before people enter?	YES	NO	does not apply
B.18: Storage Area Work Schedule	(<i>Condition 16</i>). Do workers spend less than one hour in a 24-hour period inside the enclosed storage area?	YES	NO	does not apply
B.19: Document Requirements	(<i>Condition 18</i>). Are all test results kept for 2 years?	YES	NO	does not apply

Alternate Conditions - Describe alternatives if any of the questions in Section B were answered NO.

The information in this section is used by the County Agricultural Commissioner to determine the size of the buffer zones for each enclosure at the work site. Complete this section for each enclosure, unless the answers to all of the questions for all enclosures are the same.

Retention Category	C.1. Is the enclosure a vacuum chamber?	YES	NO	
Determination	C.2. Does the enclosure pass the USDA pressure test?	YES	NO	
	C.3. Has the enclosure been retention tested according to DPR-approved procedures?	YES	NO	
Aeration Category Determination	C.4. Does the enclosure use an exhaust stack for aeration? <i>If C.4 is answered NO, skip C.5 – C.11 and go to question C.12.</i>	YES	NO	

	C.5. What is the exhaust stack's height above ground level? Use lowest stack if more than 1.	_____feet		
	C.6. Is the top of the exhaust stack at least 10 feet above the enclosure's highest point?	YES	NO	
	C.7. Is the top of the exhaust stack at least 10 feet above all major obstructions (building, silo, orchard) within 200 feet of the stack?	YES	NO	
	C.8. What is the rated fan capacity or air flow rate of the exhaust fan for this enclosure (combine all fans if more than one)?	_____cubic feet per minute		
	C.9. What is the stack cross-sectional area for this enclosure (combine all stacks)? Area of circle = $3.14 \times \text{radius}^2$	_____square feet		
	C.10. Divide the value from question C.8 by the value from question C.9. This is the exit velocity.	_____feet per minute		
	C.11. What is the largest amount of fumigant that will be used for the entire work site in a 24-hour period?	_____pounds		

Fumigation Information	C.12. What is the highest application rate that will be used for this enclosure?	_____ pounds per 1000 cubic feet	
	C.13. What is the maximum number of fumigations in a 24-hour period for this enclosure?	_____	
	C.14. What is the fumigated volume for this enclosure?	_____ cubic feet	
	C.15. What is the maximum amount of fumigant used in a 24-hour period for this enclosure?	_____ pounds	
	C.16. What is the duration of the longest treatment period?	_____ hours	
	C.17. If this enclosure has been retention tested according to a DPR approved test, what is the loss ratio (proportion of fumigant leaked from the enclosure per hour)?	_____	does not apply
Other Enclosures	C.18. Give the name, identification or designation for this enclosure:	_____ _____	
	C.19. List any other enclosures that have the same answers to all of the questions in Section C.	_____ _____ _____	
	C.20. List any other enclosures that may be fumigated or aerated within the same 24-hour period and how many times they may be used.	_____ _____ _____	

Complete this section for each enclosure, unless all of the answers are the same.

D.1: Vertical Stack Exhaust	(Condition 21). If one or more stacks are used to aerate, are they vented vertically to the outside air?	YES	NO	does not apply
D.2: Unobstructed Exhaust	(Condition 21). If one or more stacks are used to aerate, are the tops of the stacks free of overhead obstructions during aeration?	YES	NO	does not apply
D.3: Daylight Aeration	(Conditions 13 and 22). Do you always initiate aeration during daylight hours?	YES	NO	

Alternate Conditions - Describe alternatives if any of the questions in Section D were answered NO. Attach additional pages if necessary.

Complete this section only if alternate conditions need to be evaluated by the Department of Pesticide Regulation. Consult with the County Agricultural Commissioner before filling out this section. This section must be completed for each enclosure for which alternate conditions are being requested.

E.1. Enclosure Identification:

E.2. Description of Enclosure:
(chamber, tarped bins)

E.3. Enclosure Material (plastic tarp, wood):

E.4. Enclosure Dimensions:

E.5. Description of Secondary Enclosed Space (if any):

E.6. Secondary Enclosed Space Dimensions (if any):

E.7. Commodity/Site Fumigated:

E.8. Months Fumigations Conducted (e.g., Jan-Dec):

E.9. Months of Peak Season (e.g., Jan-Dec):

E.10. Number of Fumigations Per Week During Peak Season:

E.11. Aeration Duration (hours or days):

E.12. Treated Commodity Storage Area Description:

E.13. Treated Commodity Storage Area Dimensions:

E.14. Description of Work Activities in Storage Area (if any):

E.15. Identify permit condition(s) for which alternate conditions are being requested:

E.16. Describe suggested alternate conditions. If no specific alternate conditions can be suggested, identify which of the following general mitigation measures are possible:

- Containment (better containment of fumigant within the enclosure)
- Dilution (dilute the released fumigant with fresh air)
- Distance (increase the distance between the fumigant and people)
- Time (decrease the time people are exposed)
