#### UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE PLANT PROTECTION AND QUARANTINE

# APPLICATION FOR USDA FUMIGATION FACILITY APPROVAL

FOR USE IN CONDUCTING QUARANTINE FUMIGATION TREATMENTS UNDER USDA REGULATIONS

#### INSTRUCTIONS

a. Use one application for each chamber.

- b. Review the regulatory requirements in Chapters 2, 6 and 8 of the USDA Treatment Manual. An electronic PDF document of the manual is available at the following website: <a href="https://www.aphis.usda.gov/import export/plants/manuals/ports/downloads/treatment.pdf">https://www.aphis.usda.gov/import export/plants/manuals/ports/downloads/treatment.pdf</a>.
- c. Each application must include technical documents that support the information supplied. Please attach the supporting documentation in the form of PDF or Word files. Any large blueprints or facility schematics need to be in a high resolution format so that details can be clearly seen.
- d. Fill in each field of the application completely. Review of the application will not begin until all information is received. If a field is not applicable, please put "N/A" in the space provided.
- e. All responses and supporting materials in this application must be written in English.
- f. After receiving all requested information and required documentation, application approval may take as long as 60 (sixty) days.
- g. Once the application has been approved by APHIS-S&T, an onsite certification inspection may be scheduled.
- h. Facilities located in the United States should contact USDA-APHIS PPQ Field Operations (<u>PPQ.Ops.Treatments@usda.gov</u>) to discuss the certification process and requirements.
- i. Facilities located in countries other than the United States should contact the National Plant Protection Organization (NPPO) in their country to request information and submit their applications. The foreign country NPPO will then forward the application to USDA-APHIS International Services. (Your applicable International Services office can be located at <a href="https://www.aphis.usda.gov/aphis/ourfocus/internationalservices/contact\_map">https://www.aphis.usda.gov/aphis/ourfocus/internationalservices/contact\_map</a>). Applications will then be forwarded to PPQ Phytosanitary Issues Management (PIM), and finally Preclearance and Offshore Programs (POP). Foreign facilities should not contact PPQ without first consulting with their NPPO.
- j. Questions regarding the application should be routed to:

USDA-APHIS-PPQ-S&T-TMT Phone: +1-305-278-4877 ppqtmt@usda.gov

### **1. CONTACT INFORMATION**

This information will be used by USDA as the official contact information for this chamber			
NAME OF COMPANY	NAME AND TITLE OF REQUESTOR		
ADDRESS OF REQUESTOR	TELEPHONE		
	EMAIL		
Locat	tion of Fumigation Chamber		
NAME OF FACILITY	COUNTRY		
ADDRESS	TELEPHONE		
	EMAIL		

[ (Required) Attach a map showing the location of the treatment facility (drawing or satellite map).

1. CONTACT INFORMATION, CONTINUED Agent Responsible for the Fumigation Chamber (if different from Requestor)			
ADDRESS OF AGENT	TELEPHONE		
	EMAIL		
	Local APHIS-PPQ Contact		
NAME AND TITLE	TELEPHONE		
EMAIL			

Fumigator Information				
NAME OF CERTIFIED FUMIGATOR	IS THE FUMIGATOR/FUMIGATION COMPANY APPROVED BY PPQ?	NO		
ADDRESS OF FUMIGATOR	TELEPHONE			
	EMAIL			

#### 2. TYPE OF REQUEST

What type of request is this? (Check one only)

Request for approval of a new chamber (chamber is fully built and all equipment is in place).

Request for approval of plans to begin construction of a new chamber. For this type of request, only fill out sections 1 and 2 and attach facility drawings/plans. When the chamber is fully built and all equipment is in place, you will need to submit a full application.

Request for approval of modifications to an existing chamber that was previously certified by USDA. If this is a request for approval of modifications to a chamber that was previously certified, ONLY complete the sections below where changes have been made since the last time the facility was certified. If no changes have been made for a particular section, leave it blank.

If requesting approval of modifications to an existing chamber, please describe each modification below:

### 3. OPERATING PROCEDURES

Will this chamber be used to fumigate commodities for import, export, or domestic movement inside the United States? (Check all the states) and the states of the states o	hat apply.)	
Import Import		
Export Export		
US Interstate Movement		
Is this a vacuum or NAP (Normal Atmospheric Pressure) chamber?		
NAP		
Is this chamber a converted refrigerated container?	YES	NO

# 3. OPERATING PROCEDURES, CONTINUED

3. OPERATING PR	COCEDURES, CONTINUED
What commodity/commodities will be fumigated?	
What chemical will be used in fumigations?	
Methyl Bromide	
Phosphine If Phosphine, what formulation will b	e used?
Is the chamber located inside or outside of a building?	
Inside	
Outside	
If the chamber is located inside of a building, is a low-level gas monitorin	ng device installed in the same room as the chamber?
Number of Low-Level Gas Monitors:	Type of Low-Level Gas Monitors:
4. DES	IGN / LAYOUT
(Required) Attach fumigation chamber schematics that indicate the lo	5
<ol> <li>Chamber—delineation of treatment area; length, width, and height o</li> <li>Circulation system—fans, blowers, ductwork</li> </ol>	t chamber; chamber door(s)
3. Exhaust system—fans, stack, ventilation door/vent	
4. Fumigation monitoring system—fittings, leads, gas analyzer	
5. Fumigation dispensing system—cylinder, scale, volatilizer, gas intro-	duction point into chamber, hoses and tubing
6. Pressure testing—blower opening, fitting for manometer	
7. Auxiliary equipment—refrigeration unit, heating unit, temperature red	corder(s), temperature sensor(s), low-level gas monitoring device(s)
8. Vacuum pump and gauge (only for vacuum chambers)	
Chaml	ber Dimensions
CHAMBER VOLUME or CAPACITY (ft <sup>3</sup> )	WIDTH (feet)
LENGTH (feet)	HEIGHT (feet)
Constru	uction Materials
	ent, e.g., floor—concrete, walls—sheet metal. If a single component (e.g., walls)
is constructed of more than one material, please describe the location or exterior walls of the chamber are constructed of sheet metal with a layer	f each of these materials relative to each other. (Example: Both the interior and of polyurethane foam between the two layers.)
Walls:	
Floor:	
Ceiling:	
Door:	
Other:	
Connectio	ns of Joints/Seams
Describe how each category of joints/seams is connected, including any	solders, welds, or non-hardening materials used for joints/seams:
Seams between walls and panels:	
Seams between walls and floors:	
Seams between door and walls:	
Seams around any other opening:	

# 4. DESIGN / LAYOUT, CONTINUED

					-			
Ar	e the interior surface	s painted?					YES	
lf y	/es, what type of pair ] Epoxy resin	nt? (Aluminum	base paints ar	re NOT acceptable.	Stainless steel surfaces do not need to be	painted.)		
	Vinyl plastic							
	Asphalt base paint							
	Other, please desc	ribe and attac	h specification	sheet for the paint:				
				Ch	amber Doors			
	ow many doors does ve?	the chamber	Door Length	(feet):	Door Width (feet):	Door Height (fee	et):	
Lo	cation of chamber do	oors, describe:						
De	escription of chamber	r doors:						
Hc	ow are the chamber of	doors mounted	I? (Check all th	at apply)				
	Hinges	On Top	On Side		Are hinges made of heavy duty/ind	ustrial material?	YES	NO
		Horizontal	Vertical	Other:				
Ŀ	(Required) Attach pic							
De	escribe how chamber	r doors are cor	npressed agair	nst the gasket:				
ls	there a high quality g	gasket around	all vents and o	ther chamber openi	ngs?		YES	NO
De	escribe the gasket typ	bes around all	vents and othe	er chamber openings	s. Specify the material used to construct ga	skets:		
De	escribe location of ma	anometer and	blower holes in	n relation to each oth	ner:			
				5. E	QUIPMENT			
				Refrigeratio	on and Heating Units			
	( <i>Required</i> ) Attach a c	diagram and e	quipment manu	ual for the refrigerati	on unit and heating unit, if applicable.			
ls	a refrigeration unit pr	resent?					YES	
	the air inside the refr side the refrigeration		separated from	the air inside the ch	namber, such that fumigant cannot circulate	9	YES	
ls	a heating unit preser	nt?					YES	
ins	ide the heating unit i	itself?	rated from the a	air inside the chamb	per such that fumigant cannot circulate		YES	
De	escribe the heating u	nit:						
Do	pes the heating unit c	ontain expose	ed electric coils	or produce open fla	mes during operation?		YES	
			Temperatu	re Recorder (Not re	quired for treatments lasting less than 6 hours)			
MA	NUFACTURER				MODEL			
AC	CURACY				QUANTITY OF RECORDERS			
Ca	an temperature be me	onitored during	g a fumigation?	)			YES	
De	escribe how temperat	ture informatio	n is recorded a	and stored:				
Ca	an the recorder syste	m operate in b	ooth AC and DC	C modes?			YES	
ls	the recorder system	tamper-proof?	)				YES	NC
			Temperatu	Ire Sensors (Not req	uired for treatments lasting less than 6 hours)			
MA	NUFACTURER		-		MODEL			
AC	CURACY				QUANTITY OF SENSORS			
חח		200 (page 4 of	7)		I			

### 5. EQUIPMENT, CONTINUED

MODEL

NUMBER OF FANS/BLOWERS

#### TYPE (E.G., OPEN-ARM, ELECTRONIC)

MANUFACTUREF	S
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# Circulation Systems

#### Circulation Syste

(Required) Attach a diagram and equipment manuals for the fans/blowers. MANUFACTURER OF FANS/BLOWERS

MODEL

List CFM capacity of each fan/blower:

Calculated volume circulated within the chamber per minute (must be 1/3 of chamber volume or greater):

Describe how the circulation system works. Include the following: 1) the pattern of airflow within chamber, 2) the location, operation and design of ducts and fans used in gas movement, and 3) the point of gas introduction into the chamber.

Exhaust System

(*Required*) Attach a diagram and equipment manuals for the exhaust system. MANUFACTURER OF FANS/BLOWERS

MODEL	NUMBER OF FANS/BLOWERS

Describe the location of all exhaust fans/blowers:

List CFM capacity of each fan/blower:

Maximum airflow rate of system (in CFM):

How many gas exchanges per hour are the fans capable of (minimum of four is required):

Describe how the exhaust system operates:

Exhaust stack Height (feet):	Exhaust stack Diameter (feet):

Material used to construct exhaust stack:

Does the exhaust system, including stack height, meet state and local requirements?	YES	NO NO
Does the stack extend above the tallest point of the roof?	YES	NO NO
Does the stack extend at least 15 feet above nearby structures?	YES	NO
M/h and in the exchanged state of relative to the function initialized to the shorehow $2$		

Where is the exhaust stack located relative to the fresh air intake to the chamber?

Will a Methyl Bromide Recapture system be used?	lanual	YES	NO
Fur	nigation Monitoring System (Gas Analyzer)		
MANUFACTURER	MODEL		
Is this a USDA-approved gas analyzer?	·	YES	NO NO

# 5. EQUIPMENT, CONTINUED

Fumigation Dispensing System								
Type of device used to measure the amount of gas going into the chamber:								
Scale								
Graduated Dispenser								
VOLATILIZER MANUFACTURER:								
Volatilizer description:								
What is the source of heat for the wat	er in the volatilizer?							
Propane	Propane							
Electrical								
Other (describe):								
What material is the tubing in the vola	tilizer constructed of?							
Copper								
Other (describe):								
Outside diameter of tubing inside vola	ıtilizer (inches):	Length of tubing ins	ide of volatilizer (fee	t):				
Can the volatilizer heat water to 200°F		l of 150°E during gas	introduction?		YES			
What material(s) is (are) the introduction		for foor during guo						
Is the line, which runs from the cylinde	er to the volatilizer, a 3000 PSI hyd	Iraulic high pressure	hose with an inner d	iameter of at	YES			
least 3/8 inch?								
Is the line, which exits the volatilizer and runs into the enclosure 350 PSI tubing, of an inner diameter of at least 1/2 inch?								
What will be the rate of the gas introd	uction into the chamber?							
Describe how the introduction lines w	ill be purged of methyl bromide foll	owing gas introduction	on:					
	1 3 9	55						
	ecifications for the fumigant introdu	uction system includi	ng scale and velatili	70r				
	Bins or Pallets used to Hol	-	-	201.				
Are you using bins or pallets?		a commontes du	ing runngation					
	Longth (foot);	Midth (feet)		Lloight (foot)				
Dimensions of bins or pallets	Length (feet):	Width (feet):		Height (feet):				
What material are the bins or pallets constructed of?								
How much airspace is there undernea	ath the bins or pallets during fumiga	ation (in inches)?						
There must be at least 2 inches under the commodity and between each bin or pallet.								
Describe how the bins or pallets will be arranged in the chamber, will they be stacked? Please explain:								
(Required) Attach picture(s) of bins of	or pallets.							
	Provide Information on	Vacuum Chamber (	if applicable)					
VACUUM PUMP MANUFACTURER		VACUUM PUMP MOD	EL					
Does the vacuum pump have the capacity to reduce chamber pressure to 1 - 2 inches of mercury in 15 minutes or less?								
VACUUM GAUGE MANUFACTURER VACUUM GAUGE MODEL								
If this is a cylindrical chamber, are the	doors convex or concave?			CONCAVE				
Describe how the chamber is reinforced to be structurally sound:								

5. EQUIPMENT, CONTINUED						
Provide Information on Phosphine Chamber (if applicable)						
Are the fans and blowers manufactured from materials resistant to the fumigant? (Gold, silver, copper, brass, copper alloys are susceptible to corrosion.)	YES	NO				
Is wiring external to the chambers (recommended)?	YES	🗌 NO				
Are all wiring, electrical, and exhaust systems non-sparking and explosion-proof?	YES	NO NO				
6. SAFETY REQUIREMENTS						
Does the facility have fire extinguishers?	YES	NO NO				
Does the facility have a first aid kit?	YES	NO NO				
Are all electrical systems earth-grounded?	YES	NO NO				
Is there sufficient lighting in all working areas?	YES	NO NO				
Does the facility have personal safety detectors for the specific fumigant to be used?	YES	NO NO				
Does the facility have SCBA available?	YES	NO NO				
Does the facility have appropriate personal protective equipment (PPE) for all employees?	YES	NO NO				
7. ATTACHMENTS (supporting documentation)						
Are the following technical documents included in the submission attachments? (All information must be clearly referenced in supporting technical documents.)						
Map of Facility Location	YES	NO NO				
Fumigation Chamber Schematics	YES	NO NO				
Pictures of Chamber Doors	YES	NO NO				
Diagrams and Equipment Manuals for the Refrigeration Unit and Heating Unit, if applicable.	YES	NO NO				
Diagram and Equipment Manuals for Circulation System (fans/blowers).	YES	NO				
Diagram and Equipment Manuals for the Exhaust System (fans/blowers).	YES	NO				
Diagram and Specifications for Fumigant Introduction System	YES	NO				
Picture(s) of bins or pallets	YES	NO NO				

# 8. ADDITIONAL INFORMATION

Information critical to treatment at your facility not otherwise captured in this application form. Please describe below:

9. REQUESTOR SIGNATURE					
SIGNATURE	PRINT NAME	DATE (mm/dd/yyyy)			