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

APPLICATION FOR USDA VAPOR HEAT/FORCED HOT AIR TREATMENT CHAMBER APPROVAL

FOR USE IN CONDUCTING QUARANTINE HEAT TREATMENTS UNDER USDA REGULATIONS

INSTRUCTIONS

- a. Use one application for each chamber.
- b. Review the regulatory requirements in Chapters 3 and 6 of the USDA Treatment Manual. An electronic PDF document of the manual is available at the following website: http://www.aphis.usda.gov/import_export/plants/manuals/ports/downloads/treatment.pdf.
- c. Each application must include technical documents that support the information supplied. Please attach the supporting documentation in the form of a PDF or Word file. The page number requested for specific technical information should be the PDF or Word document page number. Any large blueprints can be attached as a separate file. These drawings 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 to (PPQ.Ops.Treatments@usda.gov) 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 https://www.aphis.usda.gov/aphis/ourfocus/internationalservices/contact_map.) 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

CONTACT INFORMATION This information will be used by USDA as the official contact information for this facility.			
ADDRESS OF REQUESTOR	TELEPHONE		
	EMAIL		
Agent Responsible for the VT/FHA Chamber C	Deration (if different from Requestor)		
NAME OF COMPANY	NAME OF AGENT		
ADDRESS OF AGENT	TELEPHONE		
	EMAIL		

1 CONTACT INFORMATION CONTINUED			
1. CONTACT INFORMATION, CONTINUED Location of Treatment Facility			
NAME OF FACILITY	Localic	on or readilent racinty	
STREET ADDRESS OF FACILIT	Y		
CITY	STATE/PROVINCE	POSTAL CODE	COUNTRY
<u> </u>	nowing the location of the treatment factors; er(s) and/or filename where this item of	, ,	PAGE NUMBERS / FILENAME
0 14 11: 11		I APHIS-PPQ Contact	
NAME	on only if the facility is located in the U	Inited States. If the facility is located o	utside the United States, leave blank.
TV WIL		THEE AND ONLY	
TELEPHONE		EMAIL ADDRESS	
	2.	TYPE OF REQUEST	
What type of request is this?	`		
=	new chamber. (Chamber is fully built	,	. Ell and a series of a series of Constant at the series of Series
	•	namber. (For this type of request, only nent is in place, you will need to subm	y fill out sections 1 and 2 and attach facility it a full application.)
Request for approval of	modifications to an existing chamber t	that was previously certified by USDA	
		was previously certified, ONLY comple anges have been made for a particula	ete the sections below where changes have r section, leave it blank.
If requesting approval of mod	ifications to an existing chamber, plea	ase describe each modification below	
3. OPERATING PROCEDURE			
		ses of the facility including the followir into the chamber and placement of te	
sensors; treatment start		onitoring and recording process; post-	
Indicate the page number documentation.	ers and/or filename where this informa	ation can be found in the attached tec	hnical

4. DESIGN /	LAYOUT		
General D	esign		
(Required) Attach a facility diagram that shows all aspects of the facility, included and a facility diagram that shows all aspects of the facility, included and a facility diagram that shows all aspects of the facility, included and a facility diagram that shows all aspects of the facility, included and area for storage of untreated fruits area. 4. Treatment area (vapor heat or forced hot air chamber) 5. Cooling equipment 6. Post-treatment packing area 7. Area for storage of treated fruits (refrigerated rooms) 8. Area designated for loading of treated fruit 9. Delimitation of areas of untreated and treated fruits 10. Designated quarantine area 11. Double doors, heavy duty vinyl curtains, and air curtains on entrances. The diagram must clearly show the entire border of the Quarantine Section and phytosanitary protection and these protections should be indicated on the diagram.	and exits to the quarantine area		
Quarantine Section (Fr	uit Packing Area)		
Is a diagram included that clearly shows the entire border of the quarantine area Are all entrances into the Quarantine Section indicated on diagrams? Do all entrances and exits to the quarantine area have quarantine security meas is the entire quarantine area enclosed by walls and/or screens without any holes is the insect proof screen 100 meshes per square inch or greater? Do all loading docks have loading dock boots (cushions that tightly seal against	ures? s or gaps?	YES NO	
5. EQUIPI	MENT		
Chamber Spec			
<u>_</u>			
What type of chamber is this? (Check one or more) Vapor Heat Cham TOTAL VOLUME OF THE CHAMBER (m³)		ed Hot Air Chamber OF CONTAINERS/BASKETS/BINS)	
VOLUME OF EACH BASKET/CONTAINER/BIN (m³)	APPROXIMATE NUMBER OF FR	UIT PER BASKET/CONTAINER/BIN	
How is the fruit arranged in the holding containers? SINGLE LAYER IN E MULTIPLE LAYERS	ACITBASKET	R, PLEASE DESCRIBE:	
(Required) Attach pictures of containers for holding fruit. Indicate the page number this information can be found in the attached technical documentation.	mbers and/or filename where	PAGE NUMBERS / FILENAME	
HEATING SYSTEM: STEAM FROM BOILER HEATER(S)			
How are the permanent sensors connected to the chamber? HARDWIRED TO TH DETACHABLE AND	ie or it wilder	R, PLEASE DESCRIBE:	
(Required) Attach detailed technical specifications, operating manuals and soft and hot air system.	tware manuals for the chamber	PAGE NUMBERS / FILENAME	
Chamber Air Flow Direction			
UP-FLOW ONLY DOWN-FLOW ONLY	ALTE	RNATE FLOW DIRECTIONS	
(Required) Attach a chamber schematic showing dimensions, direction of air f chamber and location of permanent temperature air and pulp sensors.	low, crate arrangement in	PAGE NUMBERS / FILENAME	

5. EQUIPMENT, CONTINUED					
	Heating/Steam (Generating Unit			
MANUFACTURER OF HEATING/STEAM GENERATING UN	IIT -	MODEL OF HEATING/STEAM	GENERATING UNIT	_	
LOCATION OF HEATING/STEAM GENERATING UNIT		BTU HEATING CAPACITY			
1	remperature Recorder	* (must be approved by USDA)			
Is the recorder a USDA-approved model?				YES NO	
MANUFACTURER	MODEL		QUANTITY OF RECORDERS		
Are recorders password-protected and tamper-proof?				YES NO	
(Required) Attach a recorder printout displaying all sensors in the chamber. Printout must include all sensors, temperature in °C or °F, time and date, and alarm set points.		PAGE NUMBERS / FILENAME			
RECORDER SERIAL NUMBER 1	RECORDER SERIAL NU	MBER 2	RECORDER SERIAL N	RECORDER SERIAL NUMBER 3	
		W W	D-i		
Computer SERIAL NUMBER 1	SERIAL NUMBER 1	Monitor	SERIAL NUMBER 1	nter	
SERIAL NUMBER 2	SERIAL NUMBER 2		SERIAL NUMBER 2		
	Temp	erature Sensors	L		
Description		Air Sensors	Pulp S	ensors	
MANUFACTURER					
MODEL					
LENGTH OF SENSOR CABLE (m)					
			PAGE NUMBERS / FILENAME		
(Required) Attach a table showing the number of te	mperature sensors				
	Fruit Sort	ting Machine			
		tely segregate fruit into weight co			
MANUFACTURER AND MODEL OF FRUIT SORTER		MANUFACTURER AND MODEL OF	DIGITAL SCALE (Used to	venty weight classes)	
			PAGE NUMBERS / FIL	ENAME	
(Required) Attach photos, diagrams and technical s and for the digital scale for weighing fruit. The do			FAGE NUMBERS/TIE	LIVAIVIL	
	Equipment for Cha	mber Certification			
Does the facility have a digital hot water bath with an	immersion circulator for	r sensor calibration?		YES NO	
Does it have a capacity large enough to include all portable sensors?				YES NO	
Does it have a temperature accuracy of at least $\pm~0.3\mbox{C}^{\circ}$ or $\pm~0.5\mbox{°F}$ of true temperature?				YES NO	
Does it have a temperature stability of at least ± 0.1°C (± 0.18°F)?			YES NO		
Does it have a NIST-traceable calibration (National Institute of Standards and Technology)?			YES NO		
Does the facility have a portable calibrated digital thermometer/data logger with probe for fruit pulp temperatures?			YES NO		
Does it meet the requirements listed in the USDA Treatment Manual?			YES NO		
Does it have a pulp temperature accuracy of at least \pm 0.3C° or \pm 0.5°F of true temperature?			YES NO		
Does the facility have a calibrated certified reference thermometer (accuracy of ± 0.1°C or ± 0.18°F) approved by USDA?					

	6. SAFETY	_	
Are steam and hot water pipes insulated or otherwise protected	1?	YES NO	
Are safety plates installed on all pulley and belt systems?		YES NO	
Do all catwalks and stairways have railings for safety?		YES NO	
Is there sufficient lighting in all working areas?		YES NO	
Does the facility have fire extinguishers?		YES NO	
Does the facility have a first aid kit?		YES NO	
Does the facility have a method to maintain water quality to kee	ep it free from microbial contamination?	YES NO	
Are all electrical systems earth-grounded?		YES NO	
Does all electrical wiring throughout the facility meet both intern	national, as well as local safety code requirements?	YES NO	
Does the facility use a commercial line conditioner (surge protein required)	ector) to protect computers and microprocessors? (Recommended,	not YES NO	
Does the facility have a back-up generator in case of power ou	tages? (Recommended, not required)	YES NO	
7. ATTACHN	IENTS (supporting documentation)		
Are the following technical documents included in the sub	mission attachments?		
Map showing the location of the treatment facility		YES NO	
Written description and diagrams of all operational processes of	of the facility	YES NO	
Facility diagram showing all aspects of the facility, including the	e designated quarantine area	YES NO	
Pictures of containers for holding fruit		YES NO	
Technical specifications, operating manuals and software manuals	uals for the chamber and hot air system	YES NO	
Chamber schematic showing dimensions, direction of air flow, temperature air and pulp sensors	crate arrangement in chamber and location of permanent	YES NO	
Temperature recorder printout (must include date and time, each	ch sensor with unique ID, temperature unit, and alarms)	YES NO	
Table indicating the number of temperature sensors		YES NO	
Technical specifications for the fruit sizing and sorting equipme	nt, including accuracy and photos/diagrams	YES NO	
Technical specifications including accuracy for the digital scale	for weighing fruit	YES NO	
8. A	DDITIONAL INFORMATION		
Information critical to treatment at your facility not otherwise cal	otured in this application form. Please describe below:		
9. REQUESTOR SIGNATURE			
SIGNATURE		DATE (mm/dd/yyyy)	