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

## APPLICATION FOR USDA HOT WATER TREATMENT FACILITY APPROVAL

FOR USE IN CONDUCTING QUARANTINE HOT WATER TREATMENTS UNDER USDA REGULATIONS

## INSTRUCTIONS

- a. Use one application for each facility.
- 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: <a href="https://www.aphis.usda.gov/import">https://www.aphis.usda.gov/import</a> 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. Please combine all supporting materials in one document. 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 (<a href="PPQ.Ops.Treatments@usda.gov">PPQ.Ops.Treatments@usda.gov</a>) 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  |   |  |  |  |
|---|---|--|--|--|
| Requestor  This information will be used by USDA as the official contact information for this facility. |   |  |  |  |
| NAME OF COMPANY   | NAME AND TITLE OF OWNER                                 |  |  |  |
| ADDRESS OF COMPANY HEADQUARTERS   | TELEPHONE   |  |  |  |
|   | EMAIL   |  |  |  |
| Agent Responsible for Fac   | ility Design/Construction (if different from Requestor) |  |  |  |
| NAME OF COMPANY   | NAME OF AGENT   |  |  |  |
| ADDRESS OF AGENT  | TELEPHONE   |  |  |  |
|   | EMAIL   |  |  |  |

| 1. CONTACT INFORMATION, CONTINUED  |                                       |  |                              |   |  |
|--|---------------------------------------|--|------------------------------|---|--|
| Location of Treatment Facility   |                                       |  |                              |   |  |
| NAME OF FACILITY   |                                       | STAMP NUMBER (if appli   | STAMP NUMBER (if applicable) |   |  |
|  |                                       |  |                              |   |  |
| STREET ADDRESS OF FACILITY   |                                       |  |                              |   |  |
|  |                                       |  |                              |   |  |
| CITY   | STATE/PROVINCE                        | POSTAL CODE  | COUNTRY                      |   |  |
|  |                                       |  |                              |   |  |
| (Required) Attach a map showing  | the location of the treatment facil   | ity (drawing or satellite map).  | PAGE NUMBERS /               | FILENAME                                  |  |
| Indicate the page number(s) wh   | ere this item can be found in the     | attached technical documentation.  |                              |   |  |
|  | 2. TY                                 | PE OF REQUEST  |                              |   |  |
| What type of request is this? (Check   | • /                                   |  |                              |   |  |
| Request for approval of a new fa   | , , ,                                 | , ,  |                              | 0 1 11 1 5 111                            |  |
| <u> </u>   | 0                                     | ty. (For this type of request, only fill o<br>in place, you will need to submit a fu |                              | 2 and attach facility                     |  |
| Request for approval of modifica   | tions to an existing facility that wa | as previously certified by USDA.   |                              |   |  |
| If this is a request for approval of mormade since the last time the facility w  |                                       |  |                              | vhere changes have been                   |  |
| If requesting approval of modification   | -                                     | ·  | 2.70 II 2.12                 |   |  |
|  |                                       |  |                              |   |  |
|  |                                       |  |                              |   |  |
|  |                                       |  |                              |   |  |
|  |                                       |  |                              |   |  |
|  |                                       |  |                              |   |  |
|  |                                       |  |                              |   |  |
|  |                                       |  |                              |   |  |
|  |                                       | RATING PROCEDURE   |                              |   |  |
|  |                                       | of the facility, including the work flow the hot water treatment begins and c        |                              | PAGE NUMBERS / FILENAME                   |  |
| ·  |                                       | · ·  |                              |   |  |
| Indicate the page numbers and filename where this information can be found in the attached technical documentation.  |                                       |  |                              |   |  |
| Does this facility have a plan to remo   | ve culled, cut, and rotting fruit fro | m the premises on a daily basis?   |                              | YES NO                                    |  |
| 4. DESIGN / LAYOUT   |                                       |  |                              |   |  |
|  |                                       | General Design   |                              |   |  |
| TYPE OF HOT WATER FACILITY (Check  | - *                                   | STEM, PLEASE INDICATE ater tanks:  |                              | FOR CONTINUOUS FLOW,<br>PLEASE INDICATE   |  |
| Batch System (Jacuzzi)   |                                       | ts per tank:   |                              | Number of sensors per tank (must be >10): |  |
| Continuous Flow System   |                                       | per basket:  |                              | Is there a belt speed indicator           |  |
|  |                                       | A HYDRO-COOLING TANK? YES y hydro-cooling tanks are there?                           | ☐ NO                         | (encoder) installed?                      |  |
|  |                                       | •  |                              | YES NO                                    |  |
|  |                                       | ing all aspects of the facility. The bord<br>ne quarantine section must be clearly   |                              | PAGE NUMBERS / FILENAME                   |  |
| safeguarding measures must be identified as well (i.e., air curtains, double doors, etc.). The facility drawing can be submitted as a separate file. Either way, the drawing must be in high resolution so that it can be expanded in order to |                                       |  |                              |   |  |
| submitted as a separate file. Eit<br>see all features clearly.   | ner way, tne drawing must be in       | nign resolution so that it can be expai  | naed in order to             |   |  |
| -  |                                       |  |                              | <u> </u>                                  |  |

## 4. DESIGN / LAYOUT, CONTINUED For each item, indicate the page numbers where this information can be found in the attached technical documentation. Quarantine Section (Fruit Packing Area) PAGE NUMBERS / FILENAME Is a diagram included that clearly shows the entire border of the guarantine area? PAGE NUMBERS / FILENAME Are all entrances into the quarantine area indicated on diagrams? PAGE NUMBERS / FILENAME Do all entrances and exits to the quarantine area have quarantine security measures? YES PAGE NUMBERS / FILENAME Is the entire quarantine area enclosed by walls and/or screens without any holes or gaps? YES ⊃ ио PAGE NUMBERS / FILENAME Is the insect proof screen 100 meshes per square inch or greater? PAGE NUMBERS / FILENAME Do all loading docks have loading dock boots (cushions that tightly seal against the rear NO doors of the truck)? **Control Room** PAGE NUMBERS /FILENAME Does the control room overlook the treatment tanks? YES NO PAGE NUMBERS /FILENAME Is the control room air conditioned? YES NO PAGE NUMBERS / FILENAME Are there bathroom facilities inside or nearby the control room? 5. EQUIPMENT **Mechanical Infrastructure** TREATMENT TANKS ARE HEATED BY (Check one only) IF USING BOILER SYSTEM, Please indicate BTU and units: PAGE NUMBERS Central Boiler System Individual heating units for each tank PAGE NUMBERS Facility plans must show piping going from boiler to tanks. **Fruit Sorting Machine** All systems must be able to accurately segregate fruit into weight classes. MANUFACTURER AND MODEL OF FRUIT SORTER PAGE NUMBERS MANUFACTURER AND MODEL OF DIGITAL SCALE (Used to verify weight classes) PAGE NUMBERS **Hot Water Treatment Tanks** PAGE NUMBERS (Required) Attach a tank schematic showing dimensions, motor and propellers for water circulation, direction of water flow, probe location, inflow and outflow pipes leading to and from the boiler (only if the boiler is situated away from tanks). PAGE NUMBERS Will the fruit be submerged at least 4 inches (10.2 cm) below the water's surface during YES | NO treatment? Will the crates that are used during treatment have adequate openings for water circulation on all PAGE NUMBERS YES | NO l In/A sides? (Required) Attach pictures of crates for holding fruit, if applicable. PAGE NUMBERS / FILENAME Is there a micro-switch or some other method to automatically activate the treatment process as ОиГ YES soon as the basket is lowered into the treatment tanks? PAGE NUMBERS / FILENAME

YES

YES

PAGE NUMBERS / FILENAME

at no greater than 200 parts per million?

achieved with either audible or visual alarms or both.

Is there an alarm system that signals when the treatment process starts and ends? This can be

Will the water that is used for washing, dipping, hydro-cooling or showering the fruit be chlorinated

|  | 5.  | EQUIPMENT, CONTINU                   | ED                             |                          |   |
|--|---|--------------------------------------|--------------------------------|--------------------------|---|
| Tank Sensors   |   |                                      |                                |                          |   |
| Are the permanent tank sensors 100-O   | hm resistance temper  | ature detectors (RTD)?               | YES                            | s                        | PAGE NUMBERS  |
| Do the tanks with 1 basket have at least 2 sensors per tank?   |   |                                      |                                | s NO N/A                 | PAGE NUMBERS  |
| De tendenciale constitue de la |   |                                      |                                | PAGE NUMBERS             |   |
| For continuous flow systems, are there at least 10 concers?  |   |                                      |                                | PAGE NUMBERS             |   |
| Are the concers in the lower third of the tank?  |   |                                      |                                |                          | PAGE NUMBERS  |
| Is at least one sensor located near the outflow of the tank where temperatures will be coolect?  |   |                                      |                                |                          | PAGE NUMBERS  |
| Is at least one sensor located near the outliow of the tank where temperatures will be warmest?  YES NO N/A  YES NO N/A  |   |                                      |                                |                          | PAGE NUMBERS  |
|  |   | Temperature Recorder (m              | ust be approved by US          | EDA)                     |   |
| Is the recorder a USDA-approved mode   | 1?  |                                      |                                |                          | YES NO  |
| MANUFACTURER   |   | DEL                                  |                                | QUANTITY OF RECOF        |   |
| (Required) It is required that the recorder system be tamper-proof (password protected), accessible only by PPQ and by the National Plant Protection Organization for each country. This is to ensure that the set points cannot be altered once the tanks are certified and the temperature set points are set for the season. Attach a screen-shot of the monitor showing the password protected and tamper-proof?  PYES NO  |   |                                      |                                |                          | password protected and tamper-proof?                |
| [ (Required) Attach recorder printout that shows: correct number of tanks, temperature in °C or °F, time stamp and date when treatment was initiated and when treatment finished, process status and alarms. Must show all unique tank numbers and sensor names. (For continuous flow, belt speed must be controlled by recorder and must be captured on recorder printout). Indicate the page numbers and filename where this information can be found in the attached technical documentation.   |   |                                      |                                |                          |   |
|  |   | Air Curtains                         |                                | <u>.</u>                 |   |
| Note: Research for the exclusion of inse   |   | l air curtain over an opening i      | ndicates that the              | wind speeds should be    | e 18 mph (8 m/s) or                                 |
| higher at 3 feet (92cm) at a 15° angle from the floor.  All entrances into the Quarantine Area require phytosanitary protection to exclude the entrance of fruit flies. Please indicate the protections that are in place for each opening. If this facility uses a continuous flow system, information on phytosanitary protections may be provided on diagrams rather than completing the table below.   |   |                                      |                                |                          |   |
| Opening into the Quarantine Area   | a. Air Curtains<br>present?   | b. Air Curtain<br>Manufacturer/Model | c. Height of<br>Opening (feet) | d. Double doors present? | e. Plastic flaps<br>(Hawaiian curtains)<br>present? |
| TREATMENT TANK BASKET ENTRANCE (required a, b, c)  | YES NO  |                                      |                                | YES NO                   | YES NO  |
| PERSONNEL ENTRANCE (required a, b, c, d)   | YES NO  |                                      |                                | YES NO                   | YES NO  |
| CRATE EXIT (required a, b, c, e)   | YES NO  |                                      |                                | YES NO                   | YES NO  |
| BOX ENTRY (required a, b, c, e)  | YES NO  |                                      |                                | YES NO                   | YES NO  |
| OTHER (please explain)   | YES NO  |                                      |                                | YES NO                   | YES NO  |
| OTHER (please explain)   | YES NO  |                                      |                                | YES NO                   | YES NO  |
| IF USING PLASTIC FLAPS (HAWAIIAN CURTAINS), IS THERE A DOOR THAT SEALS THE OPENING WHEN NOT IN USE?  YES NO  |   |                                      |                                |                          |   |
| (Required) Attach pages from all air curtain manuals listed above showing air curtain velocity.  PAGE NUMBERS / FILENAME   |   |                                      |                                |                          |   |
| Hydro-cooling tanks  |   |                                      |                                |                          |   |
| What method of cooling will the facility employ? (Check all that apply)  PAGE NUMBERS / FILENAME  HYDRO-COOLING TANK  AIR-COOLING  |   |                                      |                                |                          |   |
| If using hydro-cooling, what protocol will the facility employ? (Check all that apply)  PAGE NUMBERS / FILENAME  WAIT 30 MIN BEFORE HYDRO-COOLING  |   |                                      |                                |                          |   |
| EXTEND TREATMENT TIME BY 10 MI   | N   |                                      | B. 27                          | MDEDO / 5" 5"            |   |
| (Required) Attach architectural drawing  | (Required) Attach architectural drawings showing location of the hydro-cooling tank(s). |                                      |                                |                          |   |

| 5. EQUIPMENT, 0   | CONTINUED              |                                |                         |
|---|------------------------|--------------------------------|-------------------------|
| Is the hydro-cooling tank within the Quarantine Section?  |                        | YES NO N/A                     | PAGE NUMBERS            |
| Does the treated fruit enter the Quarantine Section immediately after being trea  | ited?                  | YES NO N/A                     | PAGE NUMBERS            |
| Will the water in the hydro-cooling tanks be maintained at a temperature of 70°F  | or higher?             | YES NO N/A                     | PAGE NUMBERS            |
| Equipment for Facili  | ty Certification       |                                | _                       |
| Each facility is required to have its own calibrated mercury, non-mercury, or dig models are listed in Appendix E of the Treatment Manual.  | gital reference thermo | ometer. This equipment require | es approval. Approved   |
| Please indicate the digital reference thermometer manufacturer/model:   | Is this an approved    | model? YES                     | NO                      |
| Who will supply the portable digital thermometers and sensors for certification?  | 1                      |                                |                         |
| THE FACILITY (PLEASE FILL OUT THE NEXT SECTION)   |                        |                                |                         |
| OTHER PARTY, PLEASE SPECIFY WHO:  |                        |                                |                         |
| The portable digital thermometers and sensors used during certification require USDA Treatment Manual.                                      | approval. Approved     | manufacturers/models are list  | ed in Appendix E of the |
| Are the digital thermometer and sensors USDA-approved equipment?  |                        | YES NO                         | PAGE NUMBERS            |
| Are there a minimum of 24 sensors for your facility?  |                        | YES NO                         | PAGE NUMBERS            |
| Are the cable lengths of the sensors greater than 10 feet?  |                        | YES NO                         | PAGE NUMBERS            |
| 6. SAFE   | TY                     |                                |                         |
| Are steam and hot water pipes insulated or otherwise protected?   |                        |                                | 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 keep it free from microbial contamination?                                     |                        |                                | YES NO                  |
| Are all electrical systems earth-grounded?  |                        |                                | YES NO                  |
| Does all electrical wiring throughout the facility meet both international, as well as local safety code requirements?                      |                        |                                | YES NO                  |
| Does the facility use a commercial line conditioner (surge protector) to protect computers and microprocessors? (Recommended, not required) |                        |                                | YES NO                  |
| Does the facility have a back-up generator in case of power outages? (Recommer  | nded, not required)    |                                | YES NO                  |

|   | 7. ATTACHMENTS (supporting documentation)                               |  |
|---|---|--|
| Are the following technical documents include not have to be separate files.)                                     | ided in the submission attachments? Please indicate filena              | mes in the space provided. (Note: They |
| Map showing location of treatment facility/pack <b>FILENAME:</b>  | inghouse  | YES NO                                 |
| Narrative describing the operational procedure <b>FILENAME</b> :  | and work flow of the treatment process                                  | YES NO                                 |
| Facility diagrams or architectural drawings shown quarantine area and locations of hydro-cooling <b>FILENAME:</b> | wing all aspects of the facility, including the entire borders of tanks | YES NO                                 |
| Tank schematic FILENAME:  |   | YES NO                                 |
| Pictures of crates for holding fruit <b>FILENAME:</b>   |   | YES NO N/A                             |
| Recorder printout FILENAME:   |   | YES NO                                 |
| Tamper-proof statement for recorder <b>FILENAME</b> :   |   | YES NO                                 |
| Pages from air curtain manuals showing velocit <b>FILENAME</b> :  | ty  | YES NO                                 |
|   | 8. ADDITIONAL INFORMATION   | _                                      |
| Information critical to treatment at your facility n  | not otherwise captured in this application form. Please describe        | below:                                 |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   | 9. REQUESTOR SIGNATURE  |  |
| SIGNATURE   | PRINT NAME  | DATE (mm/dd/yyyy)                      |
|   |   |  |