

§ 318.13-4d

7 CFR Ch. III (1-1-05 Edition)

dosage shall be applied at the rate of 2 pounds per 1,000 cubic feet for 3½ hours at 70 °F. or above.

(2) Tomatoes to be fumigated may be individually wrapped in gas-permeable tissue paper and packed in standard slatted tomato lugs or containers similarly vented. The fumigation chamber shall not be loaded to more than two-thirds of its capacity. The 3½-hour exposure period shall begin when all the fumigant has been introduced into the chamber and volatilized. Good circulation above and below the load, and between individual containers, shall be provided as soon as the tomatoes are loaded in the chamber and shall continue during the full period of fumigation and until the tomatoes have been removed to a well-ventilated location.

(b) *Supervision of treatments and subsequent handling.* The treatment approved in this section and the subsequent handling of the tomatoes so treated must be under the supervision of a plant quarantine inspector of the Animal and Plant Health Inspection Service. Such treated tomatoes must be safeguarded against reinfestation during the period prior to movement from Hawaii in a manner satisfactory to the inspector. Certification of tomatoes for such movement will be made only upon compliance with the prescribed treatment and posttreatment safeguards.

(c) *Costs.* All costs of the treatments and prescribed posttreatment safeguards provided for in this section, other than the services of the supervising inspector during regularly assigned hours of duty and at the usual place of duty, shall, as required by § 318.13-4(b), be borne by the owner of the tomatoes, or his representative.

(d) *Department not responsible for damage.* (1) This treatment is recognized as one which may be marginal as to varietal tolerance of tomatoes and the owner or shipper is warned of possible injury. The Department of Agriculture and its inspectors assume no responsibility for any loss or damage resulting from any treatment prescribed or supervised.

(2) In test fumigations the following varieties of tomatoes indicated tolerance to the prescribed treatment when harvested early in the season and in

the mature stage after some color development: Big Boy, Bounty, Break O Day, Burpee Hybrid, Earliana, Hawaii, Homestead, J. Moran, Kalohi, Kaulaii, Lanai, Marglobe, Maui, Niihau, N-46, Oahu, Pearson, Pritchard, Rutgers, San Malzano, Step 274, Step 278, Step 280, Step 281, Step 305, and Step 314. Varieties showing poor tolerance were Desert Pride, Kolea C. Manalucie, and Pennheart.

[27 FR 1551, Feb. 20, 1962, as amended at 36 FR 24917, Dec. 24, 1971. Redesignated at 50 FR 9788, Mar. 12, 1985, and further amended at 55 FR 38979, Sept. 24, 1990]

§ 318.13-4d [Reserved]

§ 318.13-4e [Reserved]

§ 318.13-4f **Administrative instructions prescribing methods for irradiation treatment of certain fruits and vegetables from Hawaii.**

(a) *Approved irradiation treatment.* Irradiation, carried out in accordance with the provisions of this section, is approved as a treatment for the following fruits and vegetables at the specified dose levels:

IRRADIATION FOR PLANT PESTS IN HAWAIIAN FRUITS AND VEGETABLES

Commodity	Dose (gray)
Abiu .....	250
Atemoya .....	250
Bell pepper .....	250
Carambola .....	250
Eggplant .....	250
Litchi .....	250
Longan .....	250
Mango .....	300
Papaya .....	250
Pineapple (other than smooth Cayenne) .....	250
Rambutan .....	250
Sapodilla .....	250
Italian squash .....	250
Sweetpotato .....	400
Tomato .....	250

(b) *Conditions of movement.* Fruits and vegetables from Hawaii may be authorized for movement in accordance with this section only if the following conditions are met:

(1) *Location.* The irradiation treatment must be carried out at an approved facility in Hawaii or on the mainland United States. Fruits and vegetables authorized under this section for treatment on the mainland may be treated in any State on the

mainland United States except Alabama, Arizona, California, Florida, Georgia, Kentucky, Louisiana, Mississippi, Nevada, New Mexico, North Carolina, South Carolina, Tennessee, Texas, or Virginia. Prior to treatment, the fruits and vegetables may not move into or through Alabama, Arizona, California, Florida, Georgia, Kentucky, Louisiana, Mississippi, Nevada, New Mexico, North Carolina, South Carolina, Tennessee, Texas, or Virginia, except that movement is allowed through Dallas/Fort Worth, Texas, as an authorized stop for air cargo, or as a transloading location for shipments that arrive by air but that are subsequently transloaded into trucks for overland movement from Dallas/Fort Worth into an authorized State by the shortest route.

(2) *Approved facility.* The irradiation treatment facility and treatment protocol must be approved by the Animal and Plant Health Inspection Service. In order to be approved, a facility must:

(i) Be capable of administering the minimum absorbed ionizing radiation doses specified in paragraph (a) of this section to the fruits and vegetables;<sup>2</sup>

(ii) Be constructed so as to provide physically separate locations for treated and untreated fruits and vegetables, except that fruits and vegetables traveling by conveyor directly into the irradiation chamber may pass through an area that would otherwise be separated. The locations must be separated by a permanent physical barrier such as a wall or chain link fence six or more feet high to prevent transfer of cartons. Untreated fruits and vegetables shipped to the mainland United States from Hawaii in accordance with this section may not be packaged for shipment in a carton with treated fruits and vegetables;

(iii) Complete a compliance agreement with the Animal and Plant Health Inspection Service as provided in § 318.13-4(d) of this subpart; and

(iv) Be certified by Plant Protection and Quarantine for initial use and annually for subsequent use. Recertifi-

cation is required in the event that an increase or decrease in radioisotope or a major modification to equipment that affects the delivered dose. Recertification may be required in cases where a significant variance in dose delivery is indicated.

(3) *Treatment monitoring.* Treatment must be carried out under the monitoring of an inspector. This monitoring must include inspection of treatment records and unannounced inspectional visits to the facility by an inspector. Facilities that carry out continual irradiation operations must notify an inspector at least 24 hours before the date of operations. Facilities that carry out periodic irradiation operations must notify an inspector of scheduled operations at least 24 hours before scheduled operations.<sup>3</sup>

(4) *Packaging.* (i) Fruits and vegetables that are treated in Hawaii must be packaged in the following manner:

(A) The cartons must have no openings that will allow the entry of fruit flies and must be sealed with seals that will visually indicate if the cartons have been opened. They may be constructed of any material that prevents the entry of fruit flies and prevents oviposition by fruit flies into the fruit in the carton.<sup>4</sup>

(B) The pallet-load of cartons must be wrapped before it leaves the irradiation facility in one of the following ways:

(1) With polyethylene sheet wrap;

(2) With net wrapping; or

(3) With strapping so that each carton on an outside row of the pallet load is constrained by a metal or plastic strap.

(C) Packaging must be labeled with treatment lot numbers, packing and treatment facility identification and

<sup>3</sup>Inspectors are assigned to local offices of the Animal and Plant Health Inspection Service, which are listed in telephone directories.

<sup>4</sup>If there is a question as to the adequacy of a carton, send a request for approval of the carton, together with a sample carton, to the Animal and Plant Health Inspection Service, Plant Protection and Quarantine, Phytosanitary Issues Management Team, 4700 River Road Unit 140, Riverdale, Maryland 20737-1236.

<sup>2</sup>The maximum absorbed ionizing radiation dose and the irradiation of food is regulated by the Food and Drug Administration under 21 CFR part 179.

location, and dates of packing and treatment.

(ii) Cartons of untreated fruits and vegetables that are moving to the mainland United States for treatment must be shipped in shipping containers sealed prior to interstate movement with seals that will visually indicate if the shipping containers have been opened.

(iii) Litchi and longan from Hawaii may not be moved interstate into Florida. All cartons in which litchi or longan are packed must be stamped "Not for importation into or distribution in FL."

(5) *Dosage*. The fruits and vegetables must receive the minimum absorbed ionizing radiation dose specified in paragraph (a) of this section.<sup>5</sup>

(6) *Dosimetry systems*. (i) Dosimetry must demonstrate that the absorbed dose, including areas of minimum and maximum dose, is mapped, controlled, and recorded.

(ii) Absorbed dose must be measured using a dosimeter that can accurately measure the absorbed doses specified in paragraph (a) of this section.

(iii) The number and placement of dosimeters used must be in accordance with American Society for Testing and Materials (ASTM) standards.<sup>6</sup>

(7)(i) *Certification on basis of treatment*. A certificate shall be issued by an inspector for the movement of fruits and vegetables from Hawaii that have been treated and handled in Hawaii in accordance with this section. To be certified for interstate movement under this section, litchi from Hawaii must be inspected in Hawaii and found free of the litchi fruit moth (*Cryptophlebia* spp.) and other plant pests by an inspector before undergoing irradiation treatment in Hawaii for fruit flies, and sweetpotato from Hawaii must be inspected in Hawaii and found free of the gray pineapple mealybug (*Dysmicoccus neobrevipes*) and the Kona coffee-root knot nematode (*Meloidogyne konaensis*) by an inspector

before undergoing irradiation treatment in Hawaii.

(ii) *Limited permit*. A limited permit shall be issued by an inspector for the interstate movement of untreated fruits and vegetables from Hawaii for treatment on the mainland United States in accordance with this section. To be eligible for a limited permit under this section, untreated litchi from Hawaii must be inspected in Hawaii and found free of the litchi fruit moth (*Cryptophlebia* spp.) and other plant pests by an inspector, and untreated sweetpotato from Hawaii must be inspected in Hawaii and found to be free of the gray pineapple mealybug (*Dysmicoccus neobrevipes*) and the Kona coffee-root knot nematode (*Meloidogyne konaensis*) by an inspector.

(8) *Records*. Records or invoices for each treated lot must be made available for inspection by an inspector during normal business hours (8:00 a.m. to 4:30 p.m., Monday through Friday, except holidays). An irradiation processor must maintain records as specified in this section for a period of time that exceeds the shelf life of the irradiated food product by 1 year, and must make these records available for inspection by an inspector. These records must include the lot identification, scheduled process, evidence of compliance with the scheduled process, ionizing energy source, source calibration, dosimetry, dose distribution in the product, and the date of irradiation.

(c) *Request for approval and inspection of facility*. Persons requesting approval of an irradiation treatment facility and treatment protocol must submit the request for approval in writing to the Animal and Plant Health Inspection Service, Plant Protection and Quarantine, Oxford Plant Protection Center, 901 Hillsboro St., Oxford, NC 27565. Before the Administrator determines whether an irradiation facility is eligible for approval, an inspector will make a personal inspection of the facility to determine whether it complies with the standards of paragraph (b)(2) of this section.

(d) *Denial and withdrawal of approval*. (1) The Administrator will withdraw the approval of any irradiation treatment facility when the irradiation

<sup>5</sup> See footnote 2.

<sup>6</sup> Designation E 1261, "Standard Guide for Selection and Calibration of Dosimetry Systems for Radiation Processing," American Society for Testing and Materials, *Annual Book of ASTM Standards*.

processor requests in writing the withdrawal of approval.

(2) The Administrator will deny or withdraw approval of an irradiation treatment facility when any provision of this section is not met. Before withdrawing or denying approval, the Administrator will inform the irradiation processor in writing of the reasons for the proposed action and provide the irradiation processor with an opportunity to respond. The Administrator will give the irradiation processor an opportunity for a hearing regarding any dispute of a material fact, in accordance with rules of practice that will be adopted for the proceeding. However, the Administrator will suspend approval pending final determination in the proceeding, if he or she determines that suspension is necessary to prevent the spread of any dangerous insect infestation. The suspension will be effective upon oral or written notification, whichever is earlier, to the irradiation processor. In the event of oral notification, written confirmation will be given to the irradiation processor within 10 days of the oral notification. The suspension will continue in effect pending completion of the proceeding and any judicial review of the proceeding.

(e) *Department not responsible for damage.* This treatment is approved to assure quarantine security against the Trifly complex and other plant pests. From the literature available, the fruits and vegetables authorized for treatment under this section are believed tolerant to the treatment; however, the facility operator and shipper are responsible for determination of tolerance. The Department of Agriculture and its inspectors assume no responsibility for any loss or damage resulting from any treatment prescribed or supervised. Additionally, the Nuclear Regulatory Commission is responsible for ensuring that irradiation facilities are constructed and operated in a safe manner. Further, the Food and Drug Administration is responsible for ensuring that irradiated foods are

safe and wholesome for human consumption.

(Approved by the Office of Management and Budget under control number 0579-0198)

[62 FR 36974, July 10, 1997, as amended at 63 FR 65648, Nov. 30, 1998; 68 FR 5800, Feb. 5, 2003; 68 FR 37935, June 26, 2003]

**§ 318.13-4g Administrative instructions governing movement of avocados from Hawaii to Alaska.**

Avocados may be moved interstate from Hawaii to Alaska without being certified in accordance with § 318.13-4 (a) or (b) only under the following conditions:

(a) *Distribution and marking requirements.* The avocados may be moved interstate for distribution in Alaska only, the boxes of avocados must be clearly marked with the statement "Distribution limited to the State of Alaska", and the shipment must be identified in accordance with the requirements of § 318.13-6.

(b) *Commercial shipments.* The avocados may be moved in commercial shipments only.

(c) *Packing requirements.* The avocados must have been sealed in the packing house in Hawaii in boxes with a seal that will break if the box is opened.

(d) *Ports.* The avocados may enter the continental United States only at the following ports: Portland, Oregon; Seattle, Washington; or any port in Alaska.

(e) *Shipping requirements.* The avocados must be moved either by air or ship and in a sealed container. The avocados may not be commingled in the same sealed container with articles that are intended for entry and distribution in any part of the United States other than Alaska. If the avocados arrive at either Portland, Oregon or Seattle, Washington, they may be transloaded only under the following conditions:

(1) *Shipments by sea.* The avocados may be transloaded from one ship to another ship at the port of arrival, provided they remain in the original sealed container and that APHIS inspectors supervise the transloading. If the avocados are stored before reloading, they must be kept in the original sealed container and must be in an