

§ 679.28 *Equipment and operational requirements.*

(a) Applicability.

This section contains the operational requirements for scales, observer sampling stations, bins for volumetric estimates, vessel monitoring system hardware, catch monitoring and control plan, and catcher vessel electronic logbook software. The operator or manager must retain a copy of all records described in this section (§ 679.28) as indicated at § 679.5(a)(5) and (6) and make available the records upon request of NMFS observers and authorized officers as indicated at § 679.5(a)(5).

(b) Scales used to weigh catch at sea.

In order to be approved by NMFS a scale used to weigh catch at sea must meet the type evaluation requirements set forth in paragraph (b)(1) of this section and the initial inspection and annual reinspection requirements set forth in paragraph (b)(2) of this section. Once a scale is installed on a vessel and approved by NMFS for use to weigh catch at sea, it must be reinspected annually and must be tested daily and meet the maximum permissible error (MPE) requirements described in paragraph (b)(3) of this section.

(1) List of scales eligible for approval.

The model of scale must be included on the Regional Administrator's list of scales eligible to be approved for weighing catch at sea before an inspector will schedule or conduct a scale inspection under paragraph (b)(2) of this section. A scale will be included on the list when the Regional Administrator receives the information specified in paragraphs (b)(1)(i) through (iv) of this section. This information identifies and describes the scale, sets forth contact information regarding the manufacturer, and sets forth the results of required type evaluations and testing. Type evaluation and testing must be conducted by a laboratory accredited by the government of the country in which the tests are conducted.

(i) Information about the scale.

(A) Name of scale manufacturer.

(B) Name of manufacturer's representative.

(C) Mailing address of scale manufacturer and manufacturer's representative.

(D) Telephone and fax number of manufacturer's representative.

(E) Model and serial number of the scale tested.

(F) A written description of the scale and diagrams explaining how the scale operates and how it compensates for motion.

(G) A list of the model numbers of all scales for which type evaluation results are applicable, identifying the differences between the model evaluated in the laboratory and other models listed. The scales may differ only in the elements of the scale that perform motion compensation, the size or capacity of the scale, and the software used by the scale.

(H) A list of types of scale adjustments that will be recorded on the audit trail, including the name of the adjustment as it will appear on the audit trail, and a written description of the adjustment.

(ii) Information about the laboratory.

(A) Name of laboratory.

(B) Mailing address of laboratory.

(C) Telephone and fax number of laboratory's representative.

(D) Name and address of government agency accrediting the laboratory.

(E) Name and signature of person responsible for evaluation of the scale and the date of signature.

(iii) Checklist. A completed checklist indicating that all applicable technical and performance standards in appendix A to this part and the laboratory tests in the annex to appendix A to this part have been met.

(iv) Verification of test results. Verification that a scale meets the laboratory evaluation and testing requirements in appendix A of this part and each of the influence quantity and disturbance tests as specified in the annex to appendix A to this part:

(A) Test results and data on forms supplied by NMFS;

(B) National Type Evaluation Program (NTEP) Certificates of Conformance, test results and data for a component of a scale or for the entire device. NTEP Certificates of Conformance, test results, and data may be submitted only in lieu of the specific influence factor tests conducted to obtain the NTEP Certificates of Conformance. Additional information must be submitted to verify compliance with the laboratory tests that are not performed under the NTEP; and/or

(C) International Organization of Legal Metrology (OIML) Certificates of Conformance, test results and data.

(v) Exceptions. A scale manufacturer or their representative may request that NMFS approve a custom built automatic hopper scale under the following conditions:

(A) The scale electronics are the same as those used in other scales on the Regional Administrator's list of scales eligible for approval;

(B) Load cells have received Certificates of Conformance from NTEP or OIML;

(C) The scale compensates for motion in the same manner as other scales made by that manufacturer which have been listed on the Regional Administrator's list of scales eligible for approval;

(D) The scale, when installed, meets all of the requirements set forth in paragraph 3 of appendix A to this part, except those requirements set forth in paragraph 3.2.1.1.

(2) Inspection of at-sea scales.

(i) What is an inspection? An inspection is a visual assessment and test of a scale after it is installed on the vessel and while the vessel is tied up at a dock and not under power at sea to determine if the scale meets all of the applicable performance and technical requirements in paragraph (b)(2) of this section and in appendix A to this part. A scale will be approved by the inspector if it meets all of the applicable performance and technical requirements in paragraph (b)(2) of this section and appendix A to this part.

(ii) How often must a scale be inspected? Each scale must be inspected and approved before the vessel may participate in any fishery requiring the weighing of catch at sea with an approved scale. Each scale must be reinspected within 12 months of the date of the most recent inspection.

(iii) Who may perform scale inspections and approvals? Scales must be inspected and approved by a NMFS-staff scale inspector or an inspector designated by NMFS and trained by a NMFS-staff scale inspector.

(iv) How does a vessel owner arrange for a scale inspection? The operator must submit a request for a scale inspection at least 10 working days in advance of the requested date of inspection by filing a request online or by printing and faxing the scale inspection

request at <http://alaskafisheries.noaa.gov/scales/default.htm>.

(v) [Reserved]

(vi) Responsibilities of the vessel owner during a scale inspection. After the vessel owner has installed a model of scale that is on the Regional Administrator's list of scales eligible to be approved for weighing catch at sea, the vessel owner must:

(A) Make the vessel and scale available for inspection by the scale inspector.

(B) Provide a copy of the scale manual supplied by the scale manufacturer to the inspector at the beginning of the inspection.

(C) Transport test weights, test material, and equipment required to perform the test to and from the inspector's vehicle and the location on the vessel where the scale is installed.

(D) Apply test weights to the scale or convey test materials across the scale, if requested by the scale inspector.

(E) Assist the scale inspector in performing the scale inspection and testing.

(vii) Scale inspection report.

(A) A scale is approved for use when the scale inspector completes and signs a scale inspection report verifying that the scale meets all of the requirements specified in this paragraph (b)(2) and appendix A to this part.

(B) The scale inspector must provide the original inspection report to the vessel owner and a copy to NMFS.

(C) The vessel owner must either:

(1) Maintain a copy of the report on board when use of the scale is required and make the report available to the observer, NMFS personnel, or an authorized officer, upon request, or;

(2) Display a valid NMFS-sticker on each approved scale.

(D) When in use, an approved scale must also meet the requirements described in paragraphs (b)(3) through (b)(6) of this section.

(3) At-sea scale tests.

To verify that the scale meets the MPEs specified in this paragraph (b)(3), the vessel operator must test each scale or scale system used to weigh total catch one time during each 24-hour period when use of the scale is required. The vessel owner must ensure that these tests are performed in an accurate and timely manner.

(i) Belt scales and automatic hopper scales.

(A) The MPE in the daily at-sea scale tests is plus or minus 3 percent of the known weight of the test material.

(B) Test procedure. A material test must be conducted by weighing at least 400 kg of fish or an alternative material supplied by the scale manufacturer on the scale under test. The known weight of the test material must be determined by weighing it on a platform scale approved for use under paragraph (b)(7) of this section.

(ii) Platform and hanging scales.

(A) Maximum Permissible Error. The MPE for platform and hanging scales is plus or minus 0.5 percent of the known weight of the test material.

(B) Test weights. Each test weight must have its weight stamped on or otherwise permanently affixed to it. The weight of each test weight must be annually certified by a National Institute of Standards and Technology approved metrology laboratory or approved for continued use by the NMFS authorized inspector at the time of the annual scale inspection. The amount of test weights that must be provided by the vessel owner is specified in paragraphs (b)(3)(ii)(B)(1) and (b)(3)(ii)(B)(2) of this section.

(1) Platform scales used as observer sampling scales or to determine the known weight of test materials. Any combination of test weights that will allow the scale to be tested at 10 kg, 25 kg, and 50 kg.

(2) Scales used to weigh total catch. Test weights equal to the largest amount of fish that will be weighed on the scale in one weighing.

(iii) Requirements for all scale tests.

(A) Notify the observer at least 15 minutes before the time that the test will be conducted, and conduct the test while the observer is present.

(B) Conduct the scale test by placing the test material or test weights on or across the scale and

recording the following information on the at-sea scale test report form:

(1) Vessel name;

(2) Month, day, and year of test;

(3) Time test started to the nearest minute;

(4) Known weight of test material or test weights;

(5) Weight of test material or test weights recorded by scale;

(6) Percent error as determined by subtracting the known weight of the test material or test weights from the weight recorded on the scale, dividing that amount by the known weight of the test material or test weights, and multiplying by 100; and

(7) Sea conditions at the time of the scale test.

(C) Maintain the test report form on board the vessel until the end of the fishing year during which the tests were conducted, and make the report forms available to observers, NMFS personnel, or an authorized officer. In addition, the scale test report forms must be retained by the vessel owner for 3 years after the end of the fishing year during which the tests were performed. All scale test report forms must be signed by the vessel operator.

(4) Scale maintenance.

The vessel owner must ensure that the vessel operator maintains the scale in proper operating condition throughout its use; that adjustments made to the scale are made so as to bring the performance errors as close as practicable to a zero value; and that no adjustment is made that will cause the scale to weigh fish inaccurately.

(5) Printed reports from the scale (not applicable to observer sampling scales).

The vessel owner must ensure that the printed reports are provided as required by this paragraph. Printed reports from the scale must be maintained on board the vessel until the end of the year during which the reports were made and be made available to observers, NMFS personnel, or an authorized officer. In addition, printed reports must be retained by the vessel owner for 3 years after the end of the year during which the printouts were made.

(i) Reports of catch weight and cumulative weight. Reports must be printed at least once every 24 hours when use of the scale is required. Reports must also be printed before any information stored in the scale computer memory is replaced. Scale weights must not

be adjusted by the scale operator to account for the perceived weight of water, mud, debris, or other materials. Scale printouts must show:

(A) The vessel name and Federal fisheries or processor permit number.

(B) The haul or set number as recorded in the processor's DCPL (see § 679.5);

(C) The total weight of the haul or set;

(D) The total cumulative weight of all fish or other material weighed on the scale.

(ii) Printed report from the audit trail. The printed report must include the information specified in sections 2.3.1.8, 3.3.1.7, and 4.3.1.8 of appendix A to this part. The printed report must be provided to the authorized scale inspector at each scale inspection and must also be printed at any time upon request of the observer, the scale inspector, NMFS staff, or an authorized officer.

(6) Scale installation requirements.

The scale display must be readable from where the observer collects unsorted catch.

(7) Platform scales used as observer sampling scales or to determine the known weight of test materials.

Platform scales used only as observer sampling scales or to determine the known weight of fish for a material test of another scale are required to meet all of the requirements of paragraph (b) of this section and appendix A to this part except sections 4.3.1 and 4.3.1.5 of appendix A to this part (printer) or section 4.3.1.8 (audit trail) of appendix A to this part.

(c) *Scales approved by the State of Alaska.*

Scale requirements in this paragraph are in addition to those requirements set forth by the State of Alaska, and nothing in this paragraph may be construed to reduce or supersede the authority of the State to regulate, test, or approve scales within the State of Alaska or its territorial sea. Scales used to weigh groundfish catch that are also required to be approved by the State of Alaska under Alaska Statute 45.75 must meet the following requirements:

(1) Verification of approval.

The scale must display a valid State of Alaska sticker indicating that the scale was inspected and approved within the previous 12 months.

(2) Visibility.

The owner and manager of the processor must ensure that the scale and scale display are visible simultaneously to the observer. Observers, NMFS personnel, or an authorized officer must be allowed to observe the weighing of fish on the scale and be allowed to read the scale display at all times.

(3) Printed scale weights.

(i) The owner and manager of the processor must ensure that printouts of the scale weight of each haul, set, or delivery are made available to observers, NMFS personnel, or an authorized officer at the time printouts are generated and thereafter upon request for the duration of the fishing year. The owner and manager must retain scale printouts as records as specified in § 679.5(a)(5)(ii).

(ii) A scale identified in a CMCP (see paragraph (g) of this section) must produce a printed record for each delivery, or portion of a delivery, weighed on that scale. If approved by NMFS as part of the CMCP, scales not designed for automatic bulk weighing may be exempted from part or all of the printed record requirements. The printed record must include:

(A) The processor name;

(B) The weight of each load in the weighing cycle;

(C) The total weight of fish in each delivery, or portion of the delivery that was weighed on that scale;

(D) The total cumulative weight of all fish or other material weighed on the scale since the last annual inspection;

(E) The date and time the information is printed;

(F) The name and ADF&G number of the vessel making the delivery. This information may be written on the scale printout in pen by the scale operator at the time of delivery.

(4) Inseason scale testing.

Scales identified in an approved CMCP (see paragraph (g) of this section) must be tested by plant personnel in accordance with the CMCP when testing is requested by NMFS-staff or NMFS-authorized personnel. Plant personnel must be given no less than 20 minutes notice that a scale is to be tested and no testing may be requested if a scale test has been requested and the scale has been found to be accurate within the last 24 hours.

(i) How does a scale pass an inseason test?

To pass an inseason test, NMFS staff or NMFS-authorized personnel will verify that the scale display and printed information are clear and easily read under all conditions of normal operation, weight values are visible on the display until the value is printed, and the scale does not exceed the maximum permissible errors specified below:

Test Load in Scale Divisions	Maximum Error In Scale Divisions
(A) 0-500	1
(B) 501-2,000	2
(C) 2,001-4,000	3
(D) >4,000	4

(ii) How much weight is required to do an inseason scale test? Scales must be tested with the amount and type of weight specified for each scale type in the following tables:

(A) Automatic hopper 0 to 150 kg (0 to 300 lb) capacity.

Certified Test Weights	Other test material
(1) Minimum weight or 10 kg (20 lb), whichever is greater	Minimum
(2) Maximum	Maximum

(B) Automatic hopper > 150 kg (300 lb) capacity.

Certified Test Weights	Other test material
(1) Minimum weight or 10 kg (20 lb), whichever is greater	Minimum
(2) 25 percent of maximum of 150 kg (300 lb), whichever is greater	Maximum

(C) Platform or flatbed 0 to 150 kg (0 to 300 lb) capacity.

Certified Test Weights	Other test material
(1) 10 kg (20 lb)	Not Acceptable
(2) Midpoint	Not Acceptable
(3) Maximum	Not Acceptable

(D) Platform or flatbed > 150 kg (300 lb) capacity.

Certified Test Weights	Other test material
(1) 10 kg (20 lb)	Not Acceptable
(2) 12.5 percent of maximum or 75 kg (150 lb), whichever is greater	50 percent of maximum or 75 kg (150 lb), whichever is greater
(3) 25 percent of maximum or 150 kg (300 lb), whichever is greater	75 percent of maximum or 150 kg (300 lb), whichever is greater

(E) Observer sampling scale > 50 kg capacity.

Certified Test Weights	Other test material
(1) 10 kg	Not Acceptable
(2) 25 kg	Not Acceptable
(3) 50 kg	Not Acceptable

(iii) Certified test weights. Each test weight used for inseason scale testing must have its weight stamped on or otherwise permanently affixed to it. The weight of each test weight must be certified by a National Institute of Standards and Technology approved metrology laboratory every 2 years. An observer platform scale must be provided with sufficient test weights to test the scale at 10 kg, 25 kg, and 50 kg. All other scales identified in an approved CMCP must be provided with sufficient test weights to test the scale as described in this paragraph (c)(4) of this section. Test weights for observer platform scales must be denominated in kilograms. Test weights for other scales may be denominated in pounds.

(iv) Other test material. When permitted in paragraph (c)(4)(ii) of this section, a scale may be tested with test material other than certified test weights. This material must be weighed on an accurate observer platform scale at the time of each use.

(v) Observer sampling scales. Platform scales used as observer sampling scales must:

(A) Have a capacity of no less than 50 kg;

(B) Have a division size of no less than 5 g;

(C) Indicate weight in kilograms and decimal subdivisions; and

(D) Be accurate within plus or minus 0.5 percent when tested at 10 kg, 25 kg, and 50 kg by NMFS staff or a NMFS-certified observer.

(d) Observer sampling station

(1) Accessibility.

All of the equipment required for an observer sampling station must be available to the observer at all times while a sampling station is required and the observer is aboard the vessel, except that the observer sampling scale may be used by vessel personnel to conduct material tests of the scale used to weigh total catch under paragraph (b)(3) of this section, as long as the use of the observer's sampling scale by others does not interfere with the observer's sampling duties.

(2) Location.

(i) Motherships and catcher/processors or catcher vessels using trawl gear. The observer sampling station must be located within 4 m of the location from which the observer collects unsorted catch. Clear, unobstructed passage must be provided between the observer sampling station and the location where the observer collects unsorted catch. When standing where unsorted catch is sampled, the observer must be able to see that no fish have been removed between the bin and the scale used to weigh total catch.

(ii) Vessels using nontrawl gear. The observer sampling station must be located within 5 m of the collection area, described at § 679.28(d)(7)(ii)(B), unless any location within this distance is unsafe for the observer. Clear, unobstructed passage must be provided between the observer sampling station and the collection area. Access must be provided to the tally station, described at § 679.28(d)(7)(ii)(A). NMFS may approve an alternative location if the vessel owner submits a written proposal describing the alternative location and the reasons why a location within 5 m of where fish are brought on board the vessel is unsafe, and the proposed observer sampling station meets all other applicable requirements of this section.

(iii) What is clear, unobstructed passage?

Where clear and unobstructed passage is required, passageways must be at least 65 cm wide at their narrowest point, be free of tripping hazards, and be at least 1.8 m high. Doorways or companionways must be free of obstacles.

(3) Minimum work space.

The observer must have a working area for sampling of at least 4.5 square meters. This working area includes the observer's sampling table. The observer must be able to stand upright and have a work area at least 0.9 m deep in the area in front of the table and scale.

(4) Table.

The observer sampling station must include a table at least 0.6 m deep, 1.2 m wide and 0.9 m high and no more than 1.1 m high. The entire surface area of the table must be available for use by the observer. Any area used for the observer sampling scale is in addition to the minimum space requirements for the table. The observer's sampling table must be secured to the floor or wall.

(5) Observer sampling scale.

The observer sampling station must include a NMFS -approved platform scale with a capacity of at least 50 kg located within 1 m of the observer's sampling table. The scale must be mounted so that the weighing surface is no more than 0.7 m above the floor. The scale must be approved by NMFS under paragraph (b) of this section and must meet the maximum permissible error requirement specified in paragraph (b)(3)(ii)(A) of this section when tested by the observer.

(6) Other requirements.

The sampling station must include flooring that prevents slipping and drains well (grating or other material where appropriate), adequate lighting, and a hose that supplies fresh or sea water to the observer.

(7) Requirements for sampling catch.

(i) Motherships and catcher/processors using trawl gear. The conveyor belt conveying unsorted catch must have a removable board to allow fish to be diverted from the belt directly into the observer's sampling baskets. The diverter board must be located downstream of the scale used to weigh total catch so that the observer can use this scale to weigh large samples. At least 1 m of accessible belt space, located downstream of the scale used to weigh total catch, must be available for the observer's use when sampling a haul.

(ii) Catcher/processors using non-trawl gear. In addition to the sampling station, vessels using non-trawl gear must provide:

(A) Tally station. A place where the observer can see the gear as it leaves the water and can count and identify fish. It must be within 5 m of where fish are brought aboard the vessel and in a location where the observer is not in danger of falling overboard or being injured during gear retrieval. Where exposed to wind or seas, it must be equipped with a railing at least 1.0 m high, grating or other non-slip material, and adequate lighting.

(B) Collection area. A collection area is a place where the observer, or vessel crew under the observer's guidance, collects fish as they come off the line or are removed from pots. It must be located where the observer can see the gear when it leaves the water. Where exposed to wind or seas, it must be equipped with a railing at least 1.0 m high and grating or other non-slip material.

(8) Inspection of the observer sampling station.

Each observer sampling station must be inspected and approved by NMFS prior to its use for the first time and then one time each year within 12 months of the date of the most recent inspection with the following exceptions: If the observer sampling station is moved or if the space or equipment available to the observer is reduced or removed when use of the observer sampling station is required, the observer sampling station inspection report issued under this section is no longer valid, and the observer sampling station must be re-inspected and approved by NMFS. Inspection of the observer sampling station is in addition to inspection of the at-sea scales by an authorized scale inspector required at paragraph (b)(2) of this section.

(i) How does a vessel owner arrange for an observer sampling station inspection? The owner may arrange the inspection time and place by submitting to NMFS by fax (206-526-4066) or e-mailing station.inspections@noaa.gov an Inspection Request for Observer Sampling Station available on the NMFS Alaska Region Web site at <http://www.fakr.noaa.gov>. Inspections will be scheduled no later than 10 working days after NMFS receives a complete application for an inspection. The owner must provide the following information:

(A) Name and signature of the person submitting the application, and the date of the application.

(B) Business mailing address, telephone number, and fax number of the person submitting the application.

(C) Whether the vessel or processor has received an observer sampling scale inspection before and, if so, the date of the most recent inspection report.

(D) Vessel name and name of contact person on vessel.

(E) Federal fishery permit number.

(F) Location of vessel where sampling station inspection is requested to occur, including street address and city.

(G) Requested inspection date.

(H) For catcher/processors using trawl gear and motherships, a diagram drawn to scale showing the location(s) where all catch will be weighed, the location where observers will sample unsorted catch, and the location of the observer sampling station including the observer sampling scale, and the name of the manufacturer and model of the observer sampling scale.

(I) For all other vessels, a diagram drawn to scale showing the location(s) where catch comes on board the vessel, the location where observers will sample unsorted catch, the location of the observer sampling station, including the observer sampling scale, and the name of the manufacturer and model of the observer sampling scale.

(J) For all vessels, a copy of the most recent scale inspection report issued under paragraph (b)(2) of this section.

(e) Certified bins for volumetric estimates of catch weight

(1) Certification.

The information required in this paragraph (e) must be prepared, dated, and signed by a licensed engineer with no financial interest in fishing, fish processing, or fish tendering vessels. Complete bin certification documents must be submitted to the Regional Administrator prior to harvesting or receiving groundfish from a fishery in which certified bins are required and must be on board the vessel and available to the observer at all times.

(2) Specifications.

(i) Measurement and marking. The volume of each bin must be determined by accurate measurement of the internal dimensions of the bin. The internal walls of the bin must be permanently marked and numbered in 10-cm increments indicating the level of fish in the bin in cm. All marked increments and numerals must be readable from the outside of the bin through a viewing port or hatch at all times. Marked increments are not required on the wall in which the viewing port is located, unless such increments are necessary to determine the level of fish in the bin from another viewing port. Bins must be lighted in a manner that allows marked increments to be read from the outside of the bin by an observer or authorized officer. For bin certification documents dated after July 6, 1998, the numerals at the 10-cm increment marks must be at least 4 cm high.

(ii) Viewing ports. Each bin must have a viewing port or ports from which the internal bin markings and numerals on all walls of the bin can be seen from the outside of the bin, except that bin markings and numerals are not required on the wall in which the viewing port is placed, if that wall cannot be seen from any other viewing port in the bin.

(3) Information required.

For bin certification documents submitted after July 6, 1998, the person certifying the bins must provide:

(i) The vessel name;

(ii) The date the engineer measured the bins and witnessed the location of the marked increments and numerals;

(iii) A diagram, to scale, of each bin showing the location of the marked increments on each internal wall of the bin, the location, and dimensions of each viewing port or hatch, and any additional information needed to estimate the volume of fish in the bin;

(iv) Tables indicating the volume of each certified bin in cubic meters for each 10-cm increment marked on the sides of the bins;

(v) Instructions for determining the volume of fish in each bin from the marked increments and table; and

(vi) The person's name and signature and the date on which the completed bin certification documents were signed.

(4) Recertification.

The bin's volume and the marked and numbered increments must be recertified if the bin is modified in a way that changes its size or shape or if marking strips or marked increments are moved or added.

(5) Operational requirements.

(i) Placement of catch in certified bins. All catch must be placed in a bin certified under this paragraph (e) to estimate total catch weight prior to sorting. Refrigerated seawater tanks may be used for volumetric estimates only if the tanks comply with all other requirements of this paragraph (e). No adjustments of volume will be made for the presence of water in the bin or tank.

(ii) Prior notification. Vessel operators must notify observers prior to any removal of fish from or addition of fish to each bin used for volumetric measurements of catch so that an observer may make bin volume estimates prior to fish being removed from

or added to the bin. Once a volumetric estimate has been made, additional fish may not be added to the bin until at least half the original volume has been removed. Fish may not be removed from or added to a bin used for volumetric estimates of catch weight until an observer indicates that bin volume estimates have been completed and any samples of catch required by the observer have been taken.

(iii) Fish from separate hauls or deliveries from separate harvesting vessels may not be mixed in any bin used for volumetric measurements of catch.

(iv) The bins must not be filled in a manner that obstructs the viewing ports or prevents the observer from seeing the level of fish throughout the bin.

(f) Vessel Monitoring System (VMS) Requirements

(1) What is a VMS?

A VMS consists of a NMFS-approved VMS transmitter that automatically determines the vessels position and transmits it to a NMFS-approved communications service provider. The communications service provider receives the transmission and relays it to NMFS.

(2) How are VMS transmitters and communications service providers approved by NMFS?

(i) NMFS publishes type approval specifications for VMS components in the ***Federal Register***.

(ii) Transmitter manufacturers or communication service providers may submit products or services to NMFS for evaluation based on the published specifications.

(iii) NMFS will publish a list of NMFS-approved transmitters and communication service providers in the ***Federal Register***. As necessary, NMFS will publish amendments to the list of approved components in the ***Federal Register***.

(3) What are the vessel owner's responsibilities?

If you are a vessel owner that must participate in a VMS, you or your crew must:

(i) Obtain a NMFS-approved VMS transmitter and have it installed onboard your vessel in accordance with the instructions provided by NMFS. You may get a copy of the VMS installation and operation instructions from the Regional Administrator upon request.

§ 679.28 Equipment and operational requirements

(ii) Activate the VMS transmitter and receive confirmation from NMFS that the VMS transmissions are being received before engaging in operations when a VMS is required.

(iii) Continue the VMS transmissions until no longer engaged in operations requiring VMS.

(iv) Stop fishing immediately if:

(A) Informed by NMFS staff or an authorized officer that NMFS is not receiving position reports from the VMS transmitter, or

(B) The vessel operator determines that the VMS is not transmitting properly.

(v) Make the VMS transmitter available for inspection by NMFS personnel, observers or an authorized officer.

(vi) Ensure that the VMS transmitter is not tampered with, disabled, destroyed or operated improperly.

(vii) Pay all charges levied by the communication service provider.

(4) What must the vessel owner do before activating a VMS transmitter for the first time?

If you are a vessel owner who must use a VMS and you are activating a VMS transmitter for the first time, you must:

(i) Register the vessel's VMS unit with an appropriate service provider;

(ii) Use VMS check-in report to contact OLE by fax at 907-586-7703 and provide the date (mm/dd/yyyy), vessel name, USCG documentation number, FFP number or Federal crab vessel permit number, name and telephone number of contact person, and VMS transmitter ID or serial number; and

(iii) Call OLE at 907-586-7225, Monday through Friday, between the hours of 0800 hours, A.I.t., and 1630 hours, A.I.t., at least 72 hours before leaving port and receive confirmation that the transmissions are being received.

(5) What must the vessel owner do when the vessel replaces a VMS transmitter?

A vessel owner who must use a VMS and who intends to replace a transmitter, must follow the reporting and confirmation procedure for the replacement transmitter, as described in paragraph (f)(4) of this section.

(6) When must the VMS transmitter be transmitting?

Your vessel's transmitter must be transmitting if:

(i) You operate a vessel in any reporting area (see definitions at § 679.2) off Alaska while any fishery requiring VMS, for which the vessel has a species and gear endorsement on its Federal Fisheries Permit under § 679.4(b)(5)(vi), is open.

(ii) You operate a vessel required to be federally permitted in reporting areas located in the Aleutian Islands subarea or operate a federally permitted vessel in adjacent State waters; or

(iii) You operate a vessel required to be federally permitted with **non-pelagic trawl or dredge** gear onboard in reporting areas located in the GOA or operate a federally permitted vessel with **non-pelagic trawl or dredge** gear onboard in adjacent State waters; or

(iv) When that vessel is required to use functioning VMS equipment in the Rockfish Program as described in § 679.7(n)(3).

(g) Catch monitoring and control plan requirements (CMCP).

(1) What is a CMCP?

A CMCP is a plan submitted by the owner and manager of a processing plant, and approved by NMFS, detailing how the processing plant will meet the catch monitoring and control standards detailed in paragraph (g)(7) of this section.

(2) Who is required to prepare and submit a CMCP for approval?

The owner and manager of shoreside or stationary floating processors receiving fish harvested in the following fisheries must prepare, submit, and have approved a CMCP prior to the receipt of fish harvested in these fisheries:

(i) AFA pollock,

(ii) AI directed pollock,

(iii) Rockfish Program, unless those fish are harvested under the entry level rockfish fishery as described under § 679.83.

(3) How is a CMCP approved by NMFS?

NMFS will approve a CMCP if it meets all the requirements specified in paragraph (g)(7) of this section. The processor must be inspected by NMFS prior to approval of the CMCP to ensure that the

processor conforms to the elements addressed in the CMCP. NMFS will complete its review of the CMCP within 14 working days of receiving a complete CMCP and conducting a CMCP inspection. If NMFS disapproves a CMCP, the plant owner or manager may resubmit a revised CMCP or file an administrative appeal as set forth under the administrative appeals procedures described at § 679.43.

(4) How is a CMCP inspection arranged?

The time and place of a CMCP inspection may be arranged by submitting a written request for an inspection to NMFS, Alaska Region. NMFS will schedule an inspection within 10 working days after NMFS receives a complete application for an inspection. The inspection request must include:

- (i) Name and signature of the person submitting the application and the date of the application;
- (ii) Address, telephone number, fax number, and email address (if available) of the person submitting the application;
- (iii) A proposed CMCP detailing how the processor will meet each of the performance standards in paragraph (g)(7) of this section.

(5) For how long is a CMCP approved?

NMFS will approve a CMCP for 1 year if it meets the performance standards specified in paragraph (e)(2) of this section. An owner or manager must notify NMFS in writing if changes are made in plant operations or layout that do not conform to the CMCP.

(6) How do I make changes to my CMCP?

An owner and manager may change an approved CMCP by submitting a CMCP addendum to NMFS. NMFS will approve the modified CMCP if it continues to meet the performance standards specified in paragraph (e)(2) of this section. Depending on the nature and magnitude of the change requested, NMFS may require a CMCP inspection as described in paragraph (g)(3) of this section. A CMCP addendum must contain:

- (i) Name and signature of the person submitting the addendum;
- (ii) Address, telephone number, fax number and email address (if available) of the person submitting the addendum;
- (iii) A complete description of the proposed CMCP change.

(7) Catch monitoring and control standards.

(i) Catch sorting and weighing requirements. All groundfish delivered to the plant must be sorted and weighed by species. The CMCP must detail the amount and location of space for sorting catch, the number of staff assigned to catch sorting and the maximum rate that catch will flow through the sorting area.

(ii) Scales used for weighing groundfish. The CMCP must identify by serial number each scale used to weigh groundfish and describe the rationale for its use.

(iii) Scale testing procedures. Scales identified in the CMCP must be accurate within the limits specified in paragraph (c)(4)(i) of this section. For each scale identified in the CMCP a testing plan must be developed that:

- (A) Describes the procedure the plant will use to test the scale;
- (B) Lists the test weights and equipment required to test the scale;
- (C) Lists where the test weights and equipment will be stored; and
- (D) Lists the plant personnel responsible for conducting the scale testing.

(iv) Printed record. The owner and manager must ensure that the scale produces a complete and accurate printed record of the weight of each species in a delivery. All of the groundfish in a delivery must be weighed on a scale capable of producing a complete printed record as described in paragraph (c)(3) of this section. However, NMFS may exempt scales not designed for automatic bulk weighing from some or all of the printed record requirements if the CMCP identifies any scale that cannot produce a complete printed record, states how the processor will use the scale, and states how the plant intends to produce a complete record of the total weight of each delivery.

(v) Delivery point. Each CMCP must identify a single delivery point. The delivery point is the first location where fish removed from a delivering catcher vessel can be sorted or diverted to more than one location. If the catch is pumped from the hold of a catcher vessel or a codend, the delivery point normally will be the location where the pump first discharges the catch. If catch is removed from a vessel by brailing, the delivery point normally will be the bin or belt where the brailer discharges the catch.

(vi) Observation area. Each CMCP must designate an observation area. The observation area is a location designated on the CMCP where an individual may monitor the flow of fish during a delivery. The owner and manager must ensure that the observation area meets the following standards:

(A) Access to the observation area. The observation area must be freely accessible to NMFS staff or NMFS-authorized personnel at any time a valid CMCP is required.

(B) Monitoring the flow of fish. From the observation area, an individual must have an unobstructed view or otherwise be able to monitor the entire flow of fish between the delivery point and a location where all sorting has taken place and each species has been weighed.

(vii) Observer work station. Each CMCP must identify and include an observer work station for the exclusive use of NMFS-certified observers. Unless otherwise approved by NMFS, the work station must meet the following criteria:

(A) Location of observer work station. The observer work station must be located in an area protected from the weather where the observer has access to unsorted catch.

(B) Platform scale. The observer work station must include a platform scale as described in paragraph (c)(4) of this section;

(C) Proximity to observer work station. The observer area must be located near the observer work station. The plant liaison must be able to walk between the work station and the observation area in less than 20 seconds without encountering safety hazards.

(D) Workspace. The observer work station must include: A working area of at least 4.5 square meters, a table as specified in paragraph (d)(4) of this section, and meet the other requirements as specified in paragraph (d)(6) of this section.

(E) Lockable cabinet. The observer work station must include a secure and lockable cabinet or locker of at least 0.5 cubic meters.

(viii) Communication with observer. The CMCP must describe what communication equipment such as radios, pagers or cellular phones, is used to facilitate communications within the plant. The plant owner must ensure that the plant manager provides the NMFS- certified observer with the same communications equipment used by plant staff.

(ix) Plant liaison. The CMCP must designate a plant liaison. The plant liaison is responsible for:

(A) Orienting new observers to the plant;

(B) Assisting in the resolution of observer concerns; and

(C) Informing NMFS if changes must be made to the CMCP.

(x) Scale drawing of plant. The CMCP must be accompanied by a scale drawing of the plant showing:

(A) The delivery point;

(B) The observation area;

(C) The observer work station;

(D) The location of each scale used to weigh catch; and

(E) Each location where catch is sorted.

(h) *ELB software*.

(1) How do I get my ELB software approved by NMFS?

(i) Specifications. NMFS will provide specifications for ELB software upon request. Interested parties may contact NMFS by mail at NMFS Alaska Region, Sustainable Fisheries Division, Catch Accounting/Data Quality, P.O. Box 21668, Juneau, AK 99802-1668; by telephone at 907-586-7228. The four types of ELB software are:

(A) Catcher vessel longline or pot gear (see § 679.5(c)(3));

(B) Catcher/processor longline or pot gear (see § 679.5(c)(3));

(C) Catcher vessel trawl gear (see § 679.5(c)(4)); and

(D) Catcher/processor trawl gear (see § 679.5(c)(4)).

(ii) ELB submittal package. A vendor or developer wishing to have an ELB approved by NMFS must submit:

(A) A fully operational test copy of the software; and

(B) An application for ELB-approval giving the following information (see paragraphs (h)(1)(ii)(B)(1) through (3) of this section):

(1) Company, contact person, address, telephone number, and fax number for the company developing the software;

(2) Name and type of software; and

(3) Printed name and signature of individual submitting the software for approval.

(C) Copies of all manuals and documentation for the software.

(iii) ELB approval. NMFS will approve ELB software within 60 working days of receipt of all required information if the software meets the following standards in paragraphs (h)(1)(iii)(A) through (H) of this section):

(A) Has fields for the entry of all information required for a paper DFL or DCPL as described in § 679.5(c)(3) and (4), as appropriate.

(B) The software must automatically time and date stamp each printed copy of the ELB logsheet and ELB discard report and clearly identify the first printed copy as an original. If any changes are made to the data in the ELB, subsequent printed copies must clearly be identified as revised. The software must be designed to prevent the operator from overriding this feature.

(C) The software must export data as an ASCII comma delimited text file, xml file, or other format approved by NMFS.

(D) The software must integrate with the vessel's global positioning system (GPS) to allow vessel location fields to be completed automatically.

(E) When the software is started, it must clearly show the software version number.

(F) The software must be designed to facilitate the transfer of an export file to NMFS as an email attachment.

(G) The software must be designed to ensure that an operator can comply with the requirements for ELB use as described in § 679.5(f).

(H) The software must include sufficient data validation capability to prevent a submitter from accidentally transmitting a data file or printing an ELB logsheet that is incomplete or contains clearly erroneous data.

(2) What if I need to make changes to NMFS-approved ELB software?

(i) NMFS-instigated changes. NMFS will provide the developer with information that affects the ELB software as soon as it is available for distribution, e.g., changes in species codes or product codes.

(ii) Developer-instigated changes. The developer must submit a copy of the changed software along with documentation describing the need for the change to NMFS for review and approval as described in paragraph (h)(1)(ii) of this section. NMFS will review and approve the new version according to the guidelines set forth in paragraph (h)(1)(iii) of this section.

(iii) NMFS-approved ELB changes. If changes to ELB software are approved by NMFS, the developer must:

(A) Give the revised software a new version number;

(B) Notify all known ELB users of the software that a new version is available; and

(C) Ensure that the ELB users are provided with a revised copy within 15 days of notification.

(i) ***Bin monitoring***.

(1) Bin monitoring standards.

The vessel owner or operator must comply with the requirements specified in paragraph (i)(1)(i) of this section unless the vessel owner or operator has requested, and NMFS has approved, one of the monitoring options described at paragraph (i)(1)(ii) or (i)(1)(iii) of this section.

(i) Option 1--No crew in bin or tank. No crew may enter any bin or tank preceding the point where the observer samples unsorted catch, unless:

(A) The flow of fish has been stopped between the tank and the location where the observer samples unsorted catch;

(B) All catch has been cleared from all locations between the tank and the location where the observer samples unsorted catch;

(C) The observer has been given notice that the vessel crew must enter the tank; and either

(D) The observer is given the opportunity to observe the activities of the person(s) in the tank; or

(E) The observer informs the vessel operator, or his designee, that all sampling has been completed for a given haul, in which case crew may enter a tank containing fish from that haul without stopping the flow of fish or clearing catch between the tank and the observer sampling station.

(iii) Option 2--Line of sight option. From the observer sampling station, the location where the observer sorts and weighs samples, and the location from which the observer collects unsorted catch, an observer of average height (between 64 and 74 inches (140 and 160 cm)) must be able to see all areas of the bin or tank where crew could be located preceding the point where the observer samples catch. If clear panels are used to comply with this requirement, those panels must be maintained sufficiently clear to allow an individual with normal vision to read text located two feet inside of the bin or tank. The text must be written in 87 point type (corresponding to line four on a standard Snellen eye chart) and the text must be readable from the observer sampling station, the location where the observer sorts and weighs samples, and the location from which the observer collects unsorted catch. The observer must be able to view the activities of crew in the bin from these locations.

(iv) Option 3--Video option. A vessel must provide and maintain cameras, a monitor, and a digital video recording system for all areas of the bin or tank where crew could be located preceding the point where the observer collects catch. The vessel owner or operator must ensure that:

(A) The system has sufficient data storage capacity to store all video data from an entire trip. Each frame of stored video data must record a time/date stamp in Alaska local time (A.l.t.). At a minimum, all periods of time when fish are inside the bin must be recorded and stored;

(B) The system must include at least one external USB (1.1 or 2.0) port or other removable storage device approved by NMFS;

(C) The system uses commercially available software;

(D) Color cameras must have at a minimum 420 TV lines of resolution, a lux rating of 0.1, and auto-iris capabilities;

(E) The video data must be maintained and made available to NMFS staff, or any individual authorized by NMFS, upon request. These data must be retained onboard the vessel for no less than 120 days after the beginning of a trip, unless NMFS has notified the

vessel operator that the video data may be retained for less than this 120-day period;

(F) The system provides sufficient resolution and field of view to see and read a text sample written in 130 point type (corresponding to line two of a standard Snellen eye chart) from any location within the tank where crew could be located;

(G) The system is recording at a speed of no less than 5 frames per second at all times when fish are inside the tank;

(H) A 16-bit or better color monitor, for viewing activities within the tank in real time, is provided within the observer sampling station (or location where the observer sorts and weighs samples, if applicable). The monitor must:

(1) Have the capacity to display all cameras simultaneously;

(2) Be operating at all times when fish are in the tank;

(3) Be securely mounted at or near eye level;

(4) Provide the same resolution as specified in paragraph (i)(1)(iii)(F) of this section.

(I) The observer is able to view any earlier footage from any point in the trip and is assisted by crew knowledgeable in the operation of the system in doing so;

(J) The vessel owner has, in writing, provided the Regional Administrator with the specifications of the system. At a minimum, this must include:

(1) The length and width (in pixels) of each image;

(2) The file type in which the data are recorded;

(3) The type and extent of compression;

(4) The frame rate at which the data will be recorded;

(5) The brand and model number of the cameras used;

(6) The brand, model, and specifications of the lenses used;

(7) A scale drawing of the location of each camera and its coverage area;

(8) The size and type of storage device;

(9) The type, speed, and operating system of any computer that is part of the system;

(10) The individual or company responsible for installing and maintaining the system;

(11) The individual onboard the vessel responsible for maintaining the system and working with the observer on its use; and

(12) Any additional information requested by the Regional Administrator.

(K) Any change to the video system that would affect the system's functionality must be submitted to, and approved by, the Regional Administrator in writing before that change is made.

(v) Failure of line of sight or video option. If the observer determines that a monitoring option selected by a vessel owner or operator specified in paragraph (i)(1)(ii) or (i)(1)(iii) of this section fails to provide adequate monitoring of all areas of the bin where crew could be located, then the vessel must use the monitoring option specified in paragraph (i)(1)(i) of this section until the observer determines that adequate monitoring of all areas of the bin where crew could be located is provided by the monitoring option selected by the vessel owner or operator.

(2) Who must have a bin monitoring option inspection?

A vessel owner or operator choosing to operate under the line of sight option (option 2) in paragraph (i)(1)(ii) of this section or the video option (option 3) in paragraph (i)(1)(iii) of this section must receive an annual bin monitoring option inspection.

(3) How does a vessel owner arrange for a bin monitoring option inspection?

The owner may arrange the inspection time and place by submitting to NMFS by fax (206-526-4066) or e-mail station.inspections@noaa.gov an Inspection Request for Bin Monitoring available on the NMFS Alaska Region Web site at (<http://www.fakr.noaa.gov>). Inspections will be scheduled no later than 10 working days after NMFS receives a complete application for an inspection. The owner must provide the following information:

(i) Name and signature of the person submitting the application, and the date of the application;

(ii) Business mailing address, telephone number, and fax number of the person submitting the application;

(iii) Whether the vessel has received a bin monitoring option inspection before, and if so, the date of the most recent inspection report;

(iv) Vessel name;

(v) Federal fishery permit number;

(vi) Location where the inspection is requested to occur, including street address and city; and

(vii) A diagram drawn to scale showing the locations where all catch will be weighed and sorted by the observer, the location where unsorted catch will be collected, and the location of any video equipment or viewing panels or ports.

(4) Where will bin monitoring option inspections be conducted?

Inspections will be conducted on vessels tied to docks at Dutch Harbor, Alaska, Kodiak, Alaska, and in the Puget Sound area of Washington State.

(5) Bin monitoring option inspection report.

A bin monitoring option inspection report, valid for 12 months from the date it is signed by NMFS, will be issued to the vessel owner if the bin monitoring option meets the requirements of paragraph (i)(1)(ii) or (i)(1)(iii) of this section. The vessel owner must maintain a current bin option inspection report onboard the vessel at all times the vessel is required to provide an approved bin monitoring option under this paragraph (i)(5). The bin monitoring option inspection report must be made available to the observer, NMFS personnel or to an authorized officer upon request.