

shrimp catch for each net (by weight) is documented; (2) crustacea—mantis shrimp, sugar shrimp, seabobs, crabs, lobsters and other similar species—must be weighed as an aggregate; (3) other invertebrates—squid, jellyfish, starfish, sea pansies, shells, and other similar species—must be weighed as an aggregate; (4) each finfish species or species group listed in Appendix E must be weighed and counted; (5) other finfish—including all other fish not listed on the above-referenced form must be weighed as an aggregate; and (6) debris (mud, rocks, and related matter) must be weighed as an aggregate.

“Select” finfish species (page E–3 of this Manual) (*i.e.*, particular species to be quantified from the total catch and not just the sample) are red snapper, Spanish mackerel, and king mackerel. All individuals of the “Select” species from each test net (control and experimental net) must be collected, counted, weighed, and recorded. Lengths for as many as 30 individuals of each select species must be recorded on Form F–1. These data are necessary to robustly determine age-class composition, and specific mortality reductions attributable to each of the age classes.

Applicants must also collect qualitative information, using Form G–1, on the condition (alive or dead) and fate (floated off, swam down, eaten) of the discards whenever possible, and note the presence of any predator species such as sharks, porpoises, and jacks that are observed. The condition and fate of the bycatch is important for determining the fishing mortality and waste associated with this discard.

E. Reports

A report on the BRD candidate test results must be submitted for certification. The report must contain a comprehensive description of the tests, copies of all completed data forms used during the certification trials, and photographs, drawings, and similar material describing the BRD. The captain or owner must sign and submit the cover form (Appendix A). The report must include a description and explanation of any unforeseen deviations from the protocol which occurred during the test. Applicants must provide information on the cost of materials, labor, and installation of the BRD candidate. In addition, any unique or special circumstances of the tests, including special operational characteristics or fishing techniques which enhance the BRD's performance, should be described and documented as appropriate.

F. Certification

The RA will determine whether the required reports and supporting materials are sufficient to evaluate the BRD candidate's efficiency. The RA also will determine whether the applicant adhered to the prescribed testing protocol, and whether the BRD candidate meets the bycatch reduction criterion. In making a decision, the RA may consult with evaluation and oversight personnel.

The RA will determine the effectiveness of the BRD candidate. For the western Gulf, the statistical protocol in Appendix H provides the methodology that the RA will use to

estimate the reduction in bycatch mortality on age-1 juvenile red snapper if the test is conducted during the primary period (July or August). Tests conducted during other parts of the year will, most likely, catch both age 0 and age 1 red snapper. To evaluate the overall reduction in mortality rate of these juvenile age classes attributable to the BRD candidate will require alternative extensive analysis, involving use of the Goodyear (1995) stock assessment model to assign mortality reductions by specific size classes within the age 0 and age 1 red snapper catch.

For the eastern Gulf the RA will determine the effectiveness of the BRD candidate to, on average, reduce the bycatch of finfish by 30 percent by weight compared to the bycatch of finfish in the designated control net. To evaluate the efficiency of the BRD candidate, the RA will rely on the Southeast Fisheries Science Center to provide statistically valid mean reduction rates in finfish bycatch attributable to the BRD candidate.

Following a favorable determination of these criteria, the RA will certify the BRD (with any appropriate conditions as indicated by test results) and publish the certification in the **Federal Register**.

IV. BRDs Not Certified and Resubmission Procedures

The RA will advise the applicant, in writing, if a BRD is not certified. This notification will explain why the BRD was not certified and what the applicant may do to either modify the BRD or the testing procedures to improve the chances of having the BRD certified in the future. If certification was denied because of insufficient information, the RA will explain what information is lacking. The applicant must provide the additional information within 60 days from receipt of such notification; thereafter, the applicant must re-apply. If the RA subsequently certifies the BRD, the RA will announce the certification in the **Federal Register**.

V. Decertification of BRDs

The RA will decertify a BRD whenever it is determined that it no longer satisfies the bycatch reduction criterion. Before determining whether to decertify a BRD, the Council and public will be advised and provided an opportunity to comment on the advisability of any proposed decertification. The RA will consider any comments from the Council and public, and if the RA elects to proceed with decertification of the BRD, the RA will publish proposed and final rules in the **Federal Register** with a comment period of not less than 15 days on the proposed rule.

VI. Interactions With Sea Turtles

The following section is provided for informational purposes. Sea turtles are listed under the Endangered Species Act as either endangered or threatened. The following procedures apply to incidental take of sea turtles under 50 CFR 223.206(d)(1):

Any sea turtles taken incidentally during the course of fishing or scientific research activities must be handled with due care to prevent injury to live specimens, observed for activity, and returned to the water according to the following procedures:

(A) Sea turtles that are actively moving or determined to be dead (as described in paragraph (B)(4) below) must be released over the stern of the boat. In addition, they must be released only when fishing or scientific collection gear is not in use, when the engine gears are in neutral position, and in areas where they are unlikely to be recaptured or injured by vessels.

(B) Resuscitation must be attempted on sea turtles that are comatose or inactive by:

(1) Placing the turtle on its bottom shell (plastron) so that the turtle is right side up and elevating its hindquarters at least 6 inches (15.2 cm) for a period of 4 to 24 hours. The amount of elevation depends on the size of the turtle; greater elevations are needed for larger turtles. Periodically, rock the turtle gently left to right and right to left by holding the outer edge of the shell (carapace) and lifting one side about 3 inches (7.6 cm) then alternate to the other side. Gently touch the eye and pinch the tail (reflex test) periodically to see if there is a response.

(2) Sea turtles being resuscitated must be shaded and kept damp or moist but under no circumstance be placed into a container holding water. A water-soaked towel placed over the head, carapace, and flippers is the most effective method in keeping a turtle moist.

(3) Sea turtles that revive and become active must be released over the stern of the boat only when fishing or scientific collection gear is not in use, when the engine gears are in neutral position, and in areas where they are unlikely to be recaptured or injured by vessels. Sea turtles that fail to respond to the reflex test or fail to move within 4 hours (up to 24, if possible) must be returned to the water in the same manner as that for actively moving turtles.

(4) A turtle is determined to be dead if the muscles are stiff (*rigor mortis*) and/or the flesh has begun to rot; otherwise, the turtle is determined to be comatose or inactive and resuscitation attempts are necessary.

Any sea turtle so taken must not be consumed, sold, landed, offloaded, transshipped, or kept below deck.

References

- Gulf of Mexico Fishery Management Council, 1997. Amendment 9 to the Fishery Amendment 9 to the Fishery Management Plan for the Shrimp Fishery of the Gulf of Mexico, Including a Final Supplemental Environmental Impact Statement and Regulatory Impact Review and Social Impact Assessment. Gulf of Mexico Fishery Management Council, 3018 U.S. Highway 301 North, Suite 1000, Tampa, FL 33619, 153 p.
- Goodyear, C. P.; 1995. Red snappers in U.S. waters of the Gulf of Mexico. National Marine Fisheries Service, Southeast Fisheries Science Center, Miami Laboratory, Miami, FL. Laboratory Report, Contribution # MIA 95/96–05, 171 p.
- Hoese, H. Dickson and Richard H. Moore; 1977. Fishes of the Gulf of Mexico, Texas, Louisiana, and Adjacent Waters. Texas A&M University Press. College Station, TX, 327 p.
- SAFMC; 1997. Final Bycatch Reduction Device Testing Protocol Manual. South