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Acronyms/Abbreviations

Environmental Impact Statement (EIS) Cover Sheet

Fishery Impact Statement - Social Impact Analysis - **(Keithly, Brannon, SERO Econ will Review)**

1.0 Executive Summary - Completed later **(SERO)**

2.0 Introduction - Completed, revise as needed **(All)**

2.1 Background

2.2 Management History

3.0 Purpose and Need for Action - **(SERO Staff, GC, Swingle)**

4.0 Management Alternatives - **(Summaries of Actions to be completed by responsible authors for each Action under Section 6.0 (i.e biology summary by SERO and HQ staff, Soci/Econ by Contractors))**

4.1 Action 1: Types of Aquaculture Permits Required

4.2 Action 2: Duration of the Permit

4.3 Action 3: Permit Conditions

4.4 Action 4: Species Allowed for Aquaculture

4.5 Action 5: Allowable Marine Aquaculture Systems

4.6 Action 6: Designation of Sites or Areas for Aquaculture

4.7 Action 7: Establish Buffer Zones for Marine Aquaculture Facilities

4.8 Action 8: Recordkeeping and Reporting

5.0 Affected Environment

5.1 Physical Environment - **(Dale, Rester)**

5.1.1 Geological Features

5.1.2 Oceanographic Features

5.1.3 Environmental Sites of Special Interest

5.1.4 Locations Suitable for Aquaculture Facilities

5.2 Biological Environment - **(SERO staff, Swingle)**

5.2.1 Life History and Biology

5.2.2 Species Suitability for Aquaculture

5.2.3 Status of Stocks

5.2.3.1 Council Managed Species

5.2.3.2 Highly Migratory Species

5.2.3.3 Marine Mammals and Protected Species

5.3 Economic and Social Environment **(Keithly, Brannon, SERO Econ will Review)**

5.3.1 Description of the Fisheries

5.3.2 Economic Environment

5.3.3 Social Environment

5.4 Administrative Environment **(Complete, revise as needed, All)**

5.4.1 Federal Management

5.4.1.1 National Marine Fisheries Service

5.4.1.2 Gulf of Mexico Fishery Management Council

5.4.1.3 U.S. Army Corps of Engineers

5.4.1.4 U.S. Environmental Protection Agency

5.4.1.5 Minerals Management Service

5.4.1.6 U.S. Coast Guard

5.4.1.7 U.S. Food and Drug Administration

- 5.4.1.8 U.S. Fish and Wildlife Service
- 5.4.2 State Management
 - 5.4.2.1 Alabama
 - 5.4.2.2 Florida
 - 5.4.2.3 Louisiana
 - 5.4.2.4 Mississippi
 - 5.4.2.5 Texas

6.0 Environmental Consequences

6.1 General Description of Environmental Impacts

- 6.1.1 Native vs. Non-native Species - **(Fairgrieve)**
 - 6.1.1.1 Escapement and Colonization
 - 6.1.1.2 Genetic Diversity
 - 6.1.1.3 Competition
- 6.1.2 Aquatic Animal Health - **(Amos)**
 - 6.1.2.1 Infectious disease interactions between wild and cultured species
 - 6.1.2.2 Therapies to prevent and control infectious diseases
 - 6.1.2.3 Measures to protect the health of wild and cultured stocks
- 6.1.3 Effluents from culture facilities - **(Nash)**
 - 6.1.3.1 Effects on benthos from solids
 - 6.1.3.2 Dissolved nutrients
 - 6.1.3.3 Best Management Practices
- 6.1.4 Physical Interaction with Marine Wildlife - **(Lee)**
 - 6.1.4.1 Entanglement
 - 6.1.4.2 Attraction of Wildlife
 - 6.1.4.3 Predator Control
- 6.1.5 Competing Uses - **(Keithly, Brannon, SERO Econ will Review)**
 - 6.1.5.1 Fishing Grounds
 - 6.1.5.2 Navigation
- 6.1.6 Economic and Social Impacts on Domestic Fisheries - **(Keithly, Brannon, SERO Econ will Review)**

6.2 Action 1: Types of Aquaculture Permits Required

- 6.2.1 Direct and Indirect Effects on the Physical, Biological, and Ecological Environment - **(Rueter)**
- 6.2.2 Direct and Indirect Effects on the Economic and Social Environment - **(Keithly, Brannon, SERO Econ will Review)**
- 6.2.3 Direct and Indirect Effects on the Administrative Environment - **(Rueter)**

6.3 Action 2: Duration of the Permit

- 6.3.1 Direct and Indirect Effects on the Physical, Biological, and Ecological Environment - **(Weeder)**
- 6.3.2 Direct and Indirect Effects on the Economic and Social Environment - **(Keithly, Brannon, SERO Econ will Review)**
- 6.3.3 Direct and Indirect Effects on the Administrative Environment - **(Weeder)**

6.4 Action 3: Permit Conditions

- 6.4.1 Direct and Indirect Effects on the Physical, Biological, and Ecological Environment - **(Rueter)**
- 6.4.2 Direct and Indirect Effects on the Economic and Social Environment - **(Keithly, Brannon, SERO Econ will Review)**
- 6.4.3 Direct and Indirect Effects on the Administrative Environment - **(Rueter)**

- 6.5 Action 4: Species Allowed for Aquaculture
 - 6.5.1 Direct and Indirect Effects on the Physical, Biological, and Ecological Environment - **(Weeder)**
 - 6.5.2 Direct and Indirect Effects on the Economic and Social Environment - **(Keithly, Brannon, SERO Econ will Review)**
 - 6.5.3 Direct and Indirect Effects on the Administrative Environment - **(Weeder)**
- 6.6 Action 5: Allowable Marine Aquaculture Systems
 - 6.6.1 Direct and Indirect Effects on the Physical, Biological, and Ecological Environment - **(Weeder)**
 - 6.6.2 Direct and Indirect Effects on the Economic and Social Environment - **(Keithly, Brannon, SERO Econ will Review)**
 - 6.6.3 Direct and Indirect Effects on the Administrative Environment - **(Weeder)**
- 6.7 Action 6: Designation of Sites or Areas for Aquaculture
 - 6.7.1 Direct and Indirect Effects on the Physical, Biological, and Ecological Environment - **(Weeder)**
 - 6.7.2 Direct and Indirect Effects on the Economic and Social Environment - **(Keithly, Brannon, SERO Econ will Review)**
 - 6.7.3 Direct and Indirect Effects on the Administrative Environment - **(Weeder)**
- 6.8 Action 7: Establish Buffer Zones for Marine Aquaculture Facilities
 - 6.8.1 Direct and Indirect Effects on the Physical, Biological, and Ecological Environment - **(Rueter)**
 - 6.8.2 Direct and Indirect Effects on the Economic and Social Environment - **(Keithly, Brannon, SERO Econ will Review)**
 - 6.8.3 Direct and Indirect Effects on the Administrative Environment - **(Rueter)**
- 6.9 Action 8: Recordkeeping and Reporting
 - 6.9.1 Direct and Indirect Effects on the Physical, Biological, and Ecological Environment - **(Rueter)**
 - 6.9.2 Direct and Indirect Effects on the Economic and Social Environment - **(Keithly, Brannon, SERO Econ will Review)**
 - 6.9.3 Direct and Indirect Effects on the Administrative Environment - **(Rueter)**
- 6.10 Comparison of Alternatives to Magnuson-Stevens Act National Standards - **(Swingle)**
- 6.11 Mitigation Measures - **(Weeder)**
- 6.12 Cumulative Effects Analysis - **(Rueter)**
- 6.13 Unavoidable Adverse Effects - **(Rueter)**
- 6.14 Relationship Between Short-term Uses and Long-term Productivity - **(Rueter)**
- 6.15 Irreversible and Irretrievable Commitments of Resources - **(Rueter)**
- 6.16 Any Other Disclosures - **(Rueter)**
- 7.0 Regulatory Impact Review - **(Keithly, Brannon, SERO Econ will Review)**
 - 7.1 Introduction
 - 7.2 Problems and Issues in the Fishery
 - 7.3 Objectives
 - 7.4 Description of the Fisheries
 - 7.5 Impacts of the Management Alternatives
 - 7.5.1 Types of Aquaculture Permits Required
 - 7.5.2 Duration of the Permit
 - 7.5.3 Permit Conditions
 - 7.5.4 Species Allowed for Aquaculture
 - 7.5.5 Allowable Marine Aquaculture Systems

- 7.5.6 Designation of Sites or Areas for Aquaculture
- 7.5.7 Establish Buffer Zones for Marine Aquaculture Facilities
- 7.5.8 Recordkeeping and Reporting
- 7.6 Determination of Significant Regulatory Action
- 8.0 Initial Regulatory Flexibility Analysis - **(Keithly, Brannon, SERO Econ will Review)**
 - 8.1 Introduction
 - 8.2 Description of Reasons Why Action by the Agency is Being Considered
 - 8.3 Statement of the Objectives of, and Legal Basis for, the Proposed Rule
 - 8.4 Description and Estimate of the Number of Small Entities to which the Proposed Rule will Apply
 - 8.5 Description of the Projected Reporting, Record-keeping, and Other Compliance Requirements of the Proposed Rule, Including an Estimate of the Classes of Small Entities which will be Subject to the Requirement and the Type of Professional Skills Necessary for the Preparation of the Report or Records
 - 8.6 Identification of all Relevant Federal Rules, which may Duplicate, Overlap, or Conflict with the Proposed Rule
 - 8.7 Significance of the Economic Impacts on Small Entities
 - 8.8 Description of Significant Alternatives to the Proposed Rule and Discussion of How the Alternatives Attempt to Minimize Economic Impacts on Small Entities
- 9.0 Other Applicable Laws - **Completed, revise as needed - (All)**
 - 9.1 Administrative Procedures Act
 - 9.2 Coastal Zone Management Act
 - 9.3 Data Quality Act
 - 9.4 Endangered Species Act
 - 9.5 Rivers and Harbors Act of 1899
 - 9.6 Clean Water Act
 - 9.7 National Marine Sanctuaries Act
 - 9.8 National Invasive Species Act
 - 9.9 National Aquaculture Act
 - 9.10 Outer Continental Shelf Lands Act
 - 9.11 National Sea Grant College and Program Act
 - 9.12 Fish and Wildlife Coordination Act
 - 9.13 Executive Orders
 - 9.13.1 E.O. 11987: Exotic Organisms
 - 9.13.2 E.O. 12866: Regulatory Planning and Review
 - 9.13.3 E.O. 12630: Takings
 - 9.13.4 E.O. 13089: Coral Reef Protection
 - 9.13.5 E.O. 13112: Invasive Species
 - 9.13.6 E.O. 13132: Federalism
 - 9.13.7 E.O. 13158: Marine Protected Areas
 - 9.14 Marine Mammal Protection Act
 - 9.15 Paperwork Reduction Act
 - 9.16 Small Business Act
 - 9.17 Essential Fish Habitat
- 10.0 References - **(All provide, Weeder, Rueter assemble)**
- 11.0 List of Preparers - **(Done, revise as necessary)**
- 12.0 List of Agencies, Organizations, and Persons to Whom Copies of the Statement Are Sent
- 13.0 Tables - **(Rueter)**
- 14.0 Figures - **(Rueter)**
- Appendices - **(Swingle, Rueter)**