

# **Overview of DEP Requirements and Procedures**

**Michael R. Barnett, P.E., Chief  
Bureau of Beaches and Coastal  
Systems**

# Bureau of Beaches and Coastal Systems

- Beach and Coastal Ecosystem Management  
Florida Beach Erosion Control Program
- Coastal Protection and Engineering  
Coastal Construction Control Line Permitting Program
- Environmental Permitting  
Joint Coastal and Environmental Resource Permitting
- Coastal Data Acquisition  
Shoreline Surveying and Monitoring
- Coastal Engineering  
Expertise in coastal hydrodynamics, sediment processes, and geology

# Florida's Strategic Beach Management Plan

## Objectives

- Coastal System Approach
- Regional Opportunities
- Address Critical Erosion
- Inventory Sediment Resources
- Cost Effectiveness
- Innovative Technologies
- Environmental Sensitivity
- Existing Project Integration

# Objectives for Innovative Technologies Projects

- **Cost-effective**
- **Potential for success**
- **Longevity**
- **Meeting regulatory requirements**

# Legislative Direction

The Department is directed to periodically review innovative technologies for beach nourishment and, on a limited basis, authorize, through the permitting process, experimental projects that are alternatives to traditional dredge and fill projects to determine the most cost effective and less costly technologies for beach nourishment.

# Theory

Minimize  
Amount of  
Beach Quality  
Material  
Leaving the  
Littoral  
System

Maximize  
Amount of  
Beach Quality  
Material  
Entering the  
Littoral  
System

# Definition

**62B-41.003 (30) "New Technology" is applied science proposed to solve a specific coastal erosion or related problem in Florida, about which the staff and professional engineering community have insufficient available information to predict the performance reliability for general applications under a range of anticipated operational conditions and potential impacts to the coastal system.**

# Requirements

- Adequate scientific, engineering and design theory
- Properly located site with control sites
- Environmental concerns addressed
- Detailed experimental test plan
- Compliance assurances

# Experimental Test Plan

- Objectives and nature of the experiment
- Experimental test schedule
- Measures of effectiveness
- Measures of environmental impacts on:
  - Coastal system
  - Marine turtles
  - Turtle habitat
- Data to be collected

# Experimental Test Plan [cont.]

- Schedule of periodic monitoring
- Periodic progress reports with project performance assessment
- Procedures to be followed
- Equipment to be used
- Names and qualifications
- Contingency plans

# Department's Role

- Approve third party reviewer
- Determine effectiveness
- Determine feasibility for continuation
- Determine that no significant adverse impact has occurred, or require modification or removal