US Army Corps of Engineers
Wilmington District

Brunswick County Beaches, NC
(Coastal Storm Damage Reduction)

Ocean Isle Beach Portion:

- **Sponsor: Ocean Isle Beach**
- **Initial project constructed in 2001**
- **Project covers 3.2 miles of shoreline**
- **Estimated nourishment cycle is 3 years**
- **Nourishment cycle completed in FY 2014**
- **Next nourishment cycle scheduled for completion in FY 2017**

Ocean Isle Beach Portion, NC

Oak Island/Caswell Beach and Holden Beach Portions:

- **Sponsors: Oak Island, Caswell Beach and Holden Beach**
- **General Reevaluation Report is on hold pending negotiation of an FCSA**
- **Potential project portions cover a cumulative 24 miles of shoreline**

Oak Island/Caswell Beach and Holden Beach Portions, NC

Oak Island after Hurricane Floyd

CONGRESSIONAL DISTRICT: NC 7 DATE: 23 February 2015

1. **AUTHORIZATION:** Flood Control Act of 1966 (H. Doc 511/89/2)

2. **LOCATION AND DESCRIPTION:** The project is located in Brunswick County, North Carolina. The project includes the Ocean Isle Beach, Oak Island/Caswell Beach and Holden Beach portions. The authorized project would reduce flood damages along these coastline areas due to hurricane and storm action and shoreline erosion.

Ocean Isle Beach Portion

This first segment of this portion of the project consists of a dune with a base generally bordering at or near the building line with a crown width of 25 feet at an elevation of 9.5 feet national geodetic vertical datum (NGVD) together with an integral shoreline berm with a crown width of 50 feet at elevation 7 feet NGVD for a distance of 5,150 feet. The second segment is a berm-only having a crown width of 50 feet at elevation 7 feet NGVD for a distance of 2,600 feet.

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The third segment is also a berm-only with a crown width of 25 feet at elevation 7 feet NGVD for a distance of 2,400 feet. The transition on the eastern end is 4,200 feet and 2,800 feet on the western end. This portion of the project totals 17,150 feet in length. Federal participation in the periodic nourishment of coastal storm damage reduction for this portion of the project is currently authorized for a period not to exceed 50 years from the year of initial construction (FY 2001 to 2050).

Oak Island/Caswell Beach and Holden Beach Portions

These portions of the project would provide for eventual construction of a dune with a base generally bordering at or near the building line and an adjacent shoreline berm. The original authorized plan for these portions of the project would help reduce the total average annual damages of about $25 million due to hurricane and storm action and coastal storm damage erosion. Total property value within these portions of the project is about $500 million.

3. **COST ESTIMATE:** All activities on the Ocean Isle Beach portion of this project are cost-shared at 65% Federal and 35% non-Federal. Normal operation and maintenance activities between nourishment cycles are the responsibility of the town of Ocean Isle Beach. All ongoing activities on the Oak Island/Caswell Beach and Holden Beach General Reevaluation Report are currently not cost-shared.

Ocean Isle Beach Portion:

Total Estimated Project Cost (Price level as of 1 October 2014):

$97,685,000	Federal (65%)
$52,600,000	Non-Federal (35%)
$150,285,000	Total

Oak Island/Caswell Beach and Holden Beach Portions:

Estimated costs to complete the general reevaluation report thru the Chief's Report is $8,500,000. Estimated balance to complete is $550,000.

4. **TOTAL FEDERAL PROJECT FUNDING ALLOCATION THRU FY 2014**: $26,242,000.

5. **FY 2015 FUNDING ALLOCATION:** $0. Carry-in funds are being used to perform an economic update for Ocean Isle Beach and develop the path forward with the project sponsor on completing the Oak Island/Caswell Beach and Holden Beach GRR.

6. **FY 2016 BUDGET REQUEST**: $0. No additional Federal funds are required at this time. Minimal carry-in funds will be used to complete the economic update for Ocean Isle Beach.

7. **KEY DATES:** For the Ocean Isle Beach portion of this project, the previous periodic coastal storm damage reduction nourishment contract was completed in April 2014. The next nourishment cycle is expected in 2017. For the Oak Island/Caswell Beach and Holden Beach portions of this project, the completion date of the GRR is being determined, subject to the willingness and availability of required cost-shared funds from the non-Federal sponsors.

8. **OTHER INFORMATION:**

Ocean Isle Beach Portion

The results of the latest monitoring report completed in 2009 has verified that the impact of deepening of Shallotte Inlet, the borrow source, has no negative impacts on adjacent shorelines.

Oak Island/Caswell Beach and Holden Beach Portions

The GRR report for Oak Island and Caswell Beach was initiated in November 1996 and for Holden Beach in October 1997. All of these portions of the project are now combined into one report effort. The report will also identify if there is sufficient borrow material to construct and nourish these portions of the project for 50 years without causing significant environmental impacts.

Also, Corps' headquarters has determined that (1) no additional Federal expenditures are authorized for substantive GRR completion and (2) 100% non-Federal funds are to be used to complete the study pending execution of an agreement that also includes a non-Federal upfront repayment plan for the sponsors' proportionate share of sunk Federal costs which have been fully Federally funded to date. The Corps is working with the sponsors on a path forward on this project. In the meantime, no direct actions are currently being undertaken on the GRR.