



US Army Corps
of Engineers
Wilmington District

Surf City and North Topsail Beach, NC (Coastal Storm Damage Reduction - Construction)

- **Sponsors: Towns of Surf City and North Topsail Beach**
- **Project authorized for construction in WRRDA 2014**
- **Project ready for new construction start**
- **Development of plans and specifications substantively completed**
- **Sponsors remain extremely motivated to execute PPAs and begin construction**



CONGRESSIONAL DISTRICT: NC 3, 7

DATE: 23 February 2015

1. **AUTHORIZATION:** Water Resources Reform and Development Act of 2014 (WRRDA-2014).
2. **LOCATION AND DESCRIPTION:** The towns of Surf City and North Topsail Beach are located in the central and northern part of Topsail Island. Topsail Island is a well developed barrier island located about 25 miles northeast of Wilmington between New Topsail Inlet and New River Inlet. From north to south, this island includes the communities of North Topsail Beach, Surf City, and Topsail Beach. Local interests desire a coastal storm damage reduction project including periodic shoreline nourishment to reduce flood risk to upland structures and infrastructure for both towns. The authorized project consists of constructing a sand dune at an elevation of 15 feet NGVD and a berm with a crown width of 50 feet and a top elevation of 7 feet above NGVD over approximately 10 miles of shoreline.

PROJECT INFORMATION - Surf City and North Topsail Beach, NC (Coastal Storm Damage Reduction-Construction) – Continued

3. **COST ESTIMATE:** Project Construction (Price level as of 1 October 2015):

Initial Construction:

\$106,207,000	(Federal – 65%)
\$57,188,000	(Non-Federal – 35%)
(\$52,179,000)	(Non-Federal Cash Contribution)
<u>(\$5,009,000)</u>	(Non-Federal Lands and Damages)
\$163,395,000	

Periodic Nourishment:

\$262,060,000	(Federal – 50%)
<u>\$262,060,000</u>	(Non-Federal – 50%)
\$524,120,000	

Total Estimated Project Cost:

\$368,267,000	Federal
<u>\$319,248,000</u>	Non-Federal
\$687,515,000	Total

4. **FEDERAL FUNDING ALLOCATION THRU FY 2014 (PED):** \$1,430,000.

5. **FY 2015 FUNDING ALLOCATION:** \$0. Using carry-in Investigations funds, complete economic update.

6. **FY 2016 BUDGET AMOUNT:** \$0.

7. **KEY DATES:**

June 2014 – Project authorized for construction in WRRDA-2014

September 2014 – Substantially complete plans and specifications

TBD – Execution of project partnership agreement, subject to the appropriation of construction funding.

8. **OTHER INFORMATION:** As a result of Hurricane Fran in 1996 and Hurricane Floyd in 1999, the damage to publicly owned properties exceeded \$5,000,000 and the total losses paid to privately owned property by FEMA was about \$32,000,000. Further, Hurricane Bertha, also in 1996, and Fran eroded at least 25 feet of protective beach width over the project area leaving 66 percent of the Surf City and North Topsail Beach shoreline without its natural vegetation. This erosion has either severely damaged or destroyed the primary dune system along the ocean shoreline leaving the towns vulnerable to damage from future storm events. Estimated average damages without the proposed project area are over \$19 million per year.

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Coastal Barrier Resources Act (CBRA) – The North Topsail Beach portion of the project covers 12 miles of shoreline. However, 7 miles of shoreline are located in a CBRA zone which restricts Federal spending that could foster development in undeveloped areas, thus precluding inclusion of this portion of the coastline within the Federal recommended project.

A design agreement was executed on August 8, 2011, and remains enforce until a project partnership agreement (PPA) is executed. Appropriation of construction funds would allow the project to achieve a new construction start followed by execution of the PPA.