

An Evaluation of the Dredging Program in the North Atlantic Division

Presentation to:

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George Nieves

Operations Program Manager

Navigation Business Line Manager

North Atlantic Division



US Army Corps of Engineers
BUILDING STRONG



Dredging Program in the North Atlantic Division

DISCUSSION POINTS:

- **Floating Plant Strategic Plan**
- **Low Use Navigation Pilot Program focusing on the Atlantic Coast and Chesapeake Bay**

Dredging in the North Atlantic Division

- **OBJECTIVE:**

To investigate ways in which the North Atlantic Division (NAD) can better prepare for the future while ensuring that waterways are dredged so they are maintained in a safe and efficient condition.

- **METHODS OF ANALYSIS:**

- ▶ Develop a Floating Plant Strategic Plan on how best to utilize the existing fleet to accomplish the mission.
- ▶ Identify full inventory of waterways
- ▶ Analyze dredging history: type of equipment used, frequency of dredging, etc.

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Dredging in the North Atlantic Division

- **CHALLENGES:**

- Plant availability – Industry and Government
- Need to respond quickly to Nor'easter's and hurricanes along the Atlantic Coast
- Budget priorities
- Asset Management: How best to optimize fleet investments through a disciplined approach

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NAD FLOATING PLANT STRATEGIC PLAN

Develop a Floating Plant Strategic Plan across all missions:



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NAD FLOATING PLANT STRATEGIC PLAN

Develop a Floating Plant Strategic Plan

- ✓ Provide value to the Nation
 - ✓ Maximize safety
- ✓ Maintain or improve fleet to meet present and future needs
 - ✓ Determine the future right-sized fleet

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Analysis of Dredging in the North Atlantic Division

Assumptions: ➤ Looking at Low Use & Shallow Draft projects



- Currently funded projects
- CURRITUCK or CURRITUCK II
- CURRITUCK working on a 24/7 schedule
- Average vessel usage 300 days/year
- Average 10 days each project (incl. travel)

Typical Projects Currently Being Dredged

PROPOSED DREDGE SCHEDULE
Last Updated 04 May 2010

VESSEL	MAR 2010	APR 2010	MAY 2010	JUN 2010	JUL 2010	AUG 2010	SEP 2010
CURRITUCK	06 Assateague Island 30 days	5 Barnaget 8 days	5 Clinton CT 20 days	9 Shark River 13 days	04 Chincoteague 21 days	3 Rudee 7 days	16 Cold Sp 6 days
		13 Absecon 14 Cold Springs	Patohogue River 8 days	21 Manasquan 8 days		10 Lynnhaven 7 days	
		19 Shark River 24 New England Stage Harbor	Great Salt Pond Aunt Lydia's Cove 0 days	27 Barnaget 0 days	25 Onancock 12 days	17 Assateague 30 days	22 Or Inlet 14 days
DISTRICT		29 Green Harbor					
MERRITT	Bogue Inlet					AWW 20 days	Bogue Inlet
				SHOPYARD Repairs	New River		
	24 Oregon Inlet		Lockwoods Folly 30 days			Carolina Beach Inlet	New Topsail Inlet
FRY	Oregon inlet cont.	Oregon inlet cont.		1		Lockwood Folly Inlet	Oregon Inlet
			Bogue Inlet		10 Topsail Inlet		
DISTRICT							
SNELL	Rodathe-cont		12 Orslow Beach			1	
	Oregon Inlet Maintenance	Oregon Inlet	163 Samples			SHOPYARD REPAIRS	15
			17 Oregon Inlet		Ocean City Dock Maint 20 Days		5 weeks
Dates							

Projection Only: Subject to change depending on greatest need and funding. For further information, Contact Plant Section @ 910-251-4052

Current and Future Capability of Special Purpose Dredges in NAD

Dredge	Date Built	Length (ft)	Beam (ft)	Light Draft (ft)	Loaded Draft (ft)	Minimum Dredging Depth (ft)	Maximum Dredging Depth (ft)	Hopper Capacity (cy)
CURRITUCK	1972	150	24.67	4.25	8	4	18	315
Proposed USACE dredge for SAD (Under Construction)	June 2011	156	35	4.25	9.5	4	20	518
Future Industry & Government	?	~200	~43	~6	~15	~12	~65	~1100

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Dredging in the North Atlantic Division

- Sufficient work is expected to continue in the future to support shallow draft & Congressionally directed work
- National usage vs. regional usage
- Factor in those projects affected by coastal storms which the Corps maintains either directly or by Congressional adds
- Factor in direct pumpout capability for beach nourishment and environmental restoration projects

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Low Use Navigation Pilot Program

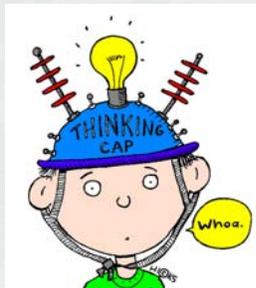
- FY11 President's Budget - \$1.5M Requested
- Purpose: Verify projects with low levels of commercial traffic and non-Federal sponsors
- Intent - Assist sponsors with efforts leading to navigation project dredging.
- Assist with background work on disposal site sizing and identification, environmental clearances, plan and spec development and possibly contract quality assurance and administration.
- Similar program in Recreation - Challenge Cost Share Program. Public/Private Partnerships

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Low Use Navigation Pilot Program

STATUS OF PILOT PROGRAM:

- Prioritizing our list of projects



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QUESTIONS?

