UPDATE ON THE U.S. ARMY CORPS OF ENGINEERS FLOOD STUDIES

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NORFOLK DISTRICT – U.S. ARMY CORPS OF ENGINEERS

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT

THE TEAM
356
Civilian Employment
5 Military

IN FY 2019
$159 million
Appropriations

2017 REGULATORY PROGRAM
Delivering the Regulatory Program: 4,366 regulatory actions in the Commonwealth of Virginia in 2017

GATHRIGHT DAM
ALLEGHANY COUNTY, VA

- Protects the Occoquan River from flood damages
- Contributed to the creation of 1,000 jobs and $1 billion in investments in Covington, VA

NORFOLK COASTAL STORM RISK MANAGEMENT STUDY

Recommended Plan:
$1.0 billion in reduction using structural, non-structural, and natural and nature-based features

Residual Risk:
The recommended plan provides a 73% damage reduction for the 50-year storm event

NATIONAL ECONOMY
PORT OF VIRGINIA

- Norfolk Harbor Navigation Improvements
- Elizabeth River Southside Branch Navigation Improvements
- North Landing Bridge Study

NATIONAL HERITAGE
CHESAPEAKE BAY RESTORATION

- Oyster Restoration in multiple areas
- Multiple efforts to protect the environment and wetlands

NATIONAL DEFENSE
Norfolk District

PROGRAM
- Approximately $300M contracts awarded/year
- $150M contract fulfillment/year

ARLINGTON NATIONAL CEMETERY
ANC PROGRAM:
- Approximately $30M/Year
- Building Renovations, Roads, Utilities
- Amphitheater Renovations
- Admin Building Renovation
- Southern Expansion Project
- Construction PK212E
- First In Honor: $50-60k

DEPARTMENT OF DEFENSE EDUCATION ACTIVITY (DEA)
- Serve as design center for all DoDEA projects
- Transforming new facilities to 21st century schools

INTERAGENCY, INTERNATIONAL AND ENVIRONMENTAL SERVICES (IES)
- Environmental Protection Agency
- National Oceanic and Atmospheric Administration
- NASA
- National Park Service
- Organizing National Cemetery

CIVIL WORKS PROJECTS

- Craney Island Environmental Restoration (CIRE): Norfolk, VA
- Norfolk Competition Risk Management Study
- AWW Deep Creek Bridge Replacement Project
- Elizabeth River Southside Branch Navigation Improvements

- Norfolk Harbor Deepening, Hampton Roads, VA
- North Landing Bridge
- Continuing Authorities Program

MILITARY PROJECTS

- Ft Lee – AIT Barracks Complex Phase II
- DLA Operations Center PH I
- Langley AFB – Targeting Center
- Ft Eustis – AIT Barracks – PH II + III
Deliver enduring and essential water resource solutions using effective transformation strategies.

Navigation

Flood Risk Management

Ecosystem Restoration and Infrastructure

Recreation and Natural Resource Management

Hydropower

Regulatory

Wetlands and Waterways

Water Supply

Expenses

Includes ASA(CW)
Objective: Improve the resilience and decrease the vulnerability of our missions, operations, programs, projects, and systems of projects to the effects of climate change and variability.

Priorities:
- Modernizing USACE programs and policies to support climate-resilient investment
- Managing USACE lands and waters for climate preparedness and resilience
- Supporting State, local, and tribal preparedness
- Providing actionable climate information, tools, and projections
- International leadership provided by USACE supporting climate preparedness
Resilience: the ability of a system to **Prepare for**, Resist, Recover, and Adapt to achieve functional performance under the stress of disturbances through time.
HOW TO ACCESS USACE CONSTRUCTION FUNDING

- Must have:
  - Authorization (Study, then Construction)
  - Appropriations (Study, then Construction)

- Conduct studies, which:
  - Identify a Federal Interest in investment
  - Inform the Report of the Chief of Engineers to Congress

- Favorable Reports result in Construction Authorization from Congress

- Construction authorizations most often in Water Resource Development Acts (WRDA)

- WRDA 2018 anticipated later this year
CW Step 1: Problem Identification

CW Step 2: Congressional Study Resolution / Authority

CW Step 3: Execute FCSA and Feasibility Funds

CW Step 4: Conduct Feasibility Study

CW Step 5: Complete Final Report for Coordination & Submission

CW Step 6: Division Engineer's Transmittal


CW Step 8: Chief of Engineer's Report (Chief's Report)

CW Step 9: Administration Review
- Assistant Secretary of the Army for Civil Works [ASA(CW)]
- Office of Management and Budget (OMB)

CW Step 10: Project Authorization (WRDA Bill or other legislation)

CW Step 11 District Executes Design Agreement

CW Step 12: District conducts Preconstruction Engineering and Design activities

CW Step 13: District drafts Project Partnership Agreement (PPA)

CW Step 14: Congress appropriates Construction Funds

CW Step 15: Execute PPA

CW Step 16: Project is Constructed

CW Step 17: Operation, Maintenance, Repair, Replacement, and Rehabilitation (OMRR&R)
USACE STUDIES

- Focused Portfolio of Priority Feasibility Studies
- All Feasibility Studies expected to follow 3-3-3 Rule
  - 3 Year study duration
  - $3 Million maximum per study cost
  - Vertical team integration at 3 command levels (District, Division, HQUSACE)
  - Exemption process for very large, complex studies that cannot meet the 3-year and/or $3 million policy
- Feasibility Cost Sharing Agreement (FCSA) is first step
- Goal of Study: USACE Recommendation based on Benefit Cost Ratio (BCR)
NORFOLK FLOOD RISK MANAGEMENT STUDY

Hyunsoo Leo Kim / The Virginian-Pilot
GLOBAL SECURITY HUB
- Home to Naval Station Norfolk (World’s Largest Naval Station)
- NATO’s North American Headquarters
- 12.4 miles of waterfront
- 6,200 acres with special areas
- 46,000 military assigned on ships and ashore
- 21,000 civilian government employees and contractors

INTERNATIONAL TRADING NEXUS
- Port of Virginia supplies the eastern third of the nation

NORFOLK IS A GLOBAL LEADER IN URBAN RESILIENCE
- One of the first Rockefeller Foundation Resilient Cities
  - 3rd City to Launch a citywide resilience strategy—Oct. 2015
- Adopted Citywide Green Infrastructure Master Plan
- Adopted Zoning Code to support Resilience
- Retain Your Rain program to incentivize private property stormwater retention

POC Niklas Hallberg 757-201-7728
NED/Recommended Plan

Reach removed since TSP
CRITICAL INFRASTRUCTURE

Note: Assumes USACE Intermediate RSLR increase of 1.45 ft from 2016

POC Niklas Hallberg 757-201-7728
PROJECT IMPLEMENTATION: CONSTRUCTION SEQUENCING

1. Downtown Area
2. Pretty Lake Area
3. Lafayette River Area
4. Broad Creek Area
5. Campostella/Berkley Area
WHAT’S NEXT FOR NORFOLK CSRM?

- Completed Chief’s Report with an identified recommended plan for implementation (Dec 2018)(ACCELERATED from Feb 2019)
- Chief’s Report to Congress (2019) (Requires Clearance from Administration)
- Construction Authorization (Future WRDA)
- Construction New Start Appropriations
- Preconstruction Engineering and Design
- Construction
MULTI-JURISDICTIONAL RESILIENCY STRATEGY

- Norfolk Flood Risk Management Study: almost complete
- Awaiting Coastal Virginia Resilience Study Authority – expected in WRDA 2018
- Proposed Virginia Peninsula Coastal Storm Risk Management Study
- Proposed Chincoteague Study
- Subsequent studies in Coastal Virginia: proposed prioritization based on damages avoided to critical infrastructure
- Requires close alignment with Commonwealth to study resiliency alternatives
HOW CAN THE COMMONWEALTH HELP?

1. Assist with Cost Sharing Challenges
   - Scope beyond political jurisdictions of individual localities, Commonwealth could serve as Sponsor
   - Some localities may not have financial capability, but have a need

2. Provide Guidance/Vision on State-Level Priorities to Address Recurrent Flooding

3. Provide clear legislation allowing localities to provide required real estate interest in State bottom for USACE projects
QUESTIONS?