Air Force Civil Engineer Center

Offutt AFB Flood
March 2019

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AFCEC Facility Engineering
Agenda

- Flood Overview
- Pre-Flood Prep
- Recovery Operations
- Partners
- Funding Profile
- Rebuild Strategy
Flood Overview

- 6 yrs of levee upgrade plans/approval/funding at state/local gov’t
- Waiting on snow melt, weeks from improving two levees at $30M
- Notified of rapidly rising Missouri, Platte & Papio Creek
- River has not been dredged in 50+ years
- 15 Mar - Emergency Operations Center Stood up
- Fly-away crews alerted, prepped for evacuation
- Critical infrastructure identified
- Levee 613 breech, then Levee 616 rushed and overtopped
Flood Overview

• 400,000 sand bags filled by 700 personnel
• 720 million gallons of flood water on base...2,500 acres flooded
• 1.2 million square feet across 137 of Offutt’s facilities flooded
• 3,000 ft of the 11,700 ft of runway submerged
• 3,200 personnel displaced from work centers
Flood Overview
Flood Overview
Pre-Flood Prep

- Evacuated aircraft
- Isolated electrical grids
- Built Hesco Barriers, sandbag walls
Pre-Flood Prep
Recovery Operations

18 Mar- Emergency Ops Center transitioned to Recovery Ops Center
Recovery Operations
Partners

- Air Force Civil Engineer Center (AFCEC)
- Army Corps of Engineers (USACE)
- Navy Mobile Utilities Support Equipment (MUSE)
- Omaha Public Power District (OPPD)
- Request For Forces (RFF)
- City of Bellevue
Air Force Contract Augmentation Program (AFCAP)

- Contingency contract tool teaming government and industry for urgent response to National Command Authority requirements

- Administered by the AF Civil Engineer Center (AFCEC)

- AFCAP IV began Oct ‘15 for 5 years with 8 vendors (DynCorp at Offutt)

- 55th Civil Engineer Squadron and 55th Contracting Squadron provided statement of work, funding, administrative contracting officer and contracting officer representatives
Airfield Evaluation

- Tested all flooded pavement sections
- Verified post-flood structural capacity
- Non-destructive, Heavy Weight Deflectometer (HWD) testing
  - 45 sec test sequence simulates 50,000 lbf aircraft wheel loading
  - Deflection data used in layered elastic model to compute AGLs and Pavement Classification Numbers (PCNs)
- Returned to limited daytime flight operations 25 March
Funding Profile

19 Mar – 26 Apr
Immediate Flood Recovery Efforts
O&M / Repairs: $37M

6 Jun
FY19 Disaster Relief Supplemental Act
O&M / Repairs: $51M

TBD
FY20 Nat’l Defense Authorization Act

MILCON: $358M
Procurement: $277M
O&M / Repairs: $60M
Rebuild Strategy
Major Facility Demolition

1. 55th Wing Headquarters
2. 55th Operations Group Headquarters
3. 595th Command & Control Group HQ
4. ABNCP (E-6B) Alert Facility
5. 55th Wing Command Post and Installation Control Center
6. 55th Intelligence Support Squadron Facility
7. 55th Security Forces Squadron Facility
8. SATCOM / MILSTAR Complex
9. ABNCP Airborne Launch Control System Simulator Facility
10. 343d Reconnaissance Squadron Facility
11. 55th Operations Support Squadron HQ
12. Combat Arms Training & Maintenance (CATM) Range and Facilities
13. Precision Measurement Equipment Lab
14. Defense Courier Station
15. Petroleum Operations Facility
16. TACAN and ILS Glide Slope Facilities
17. Base Lake Recreation Facilities
Rebuild Strategy
Major Facility Refurbishment

1. E-4B Aircraft Hangar
2. E-4B Aircrew Alert Facility
3. E-6 Aircraft Ground Equipment Facility
4. Bennie Davis Maintenance Facility
5. Hydrant Fueling Facilities and Utilities
6. Munitions Storage Facilities
7. 97th Intelligence Squadron Facility
8. Veterinarian Clinic
Rebuild Strategy
Major Facility Refurbishment

World's Greatest Maintainers!

Bennie Davis: $18.1M

E-4B
AIRBORNE COMMAND POST

NAOC Alert: $12.6M

Electrical & Sewage Pump Stations: $1M

Tennant Hall: $11M

Munitions & HAZMAT Storage: $1.8M
Rebuild Strategy
New Construction

Master Plan Functional Areas/Campuses
1. Nuclear Command/Control Alert Campus
2. Non-Kinetic Operations Campus
3. Security Campus
4. SATCOM/MILSTAR Campus
5. Logistics Readiness Campus
6. Flightline Hanger Campus
7. Emergency Power MicroGrid
8. Base Lake Campus

- Guided by Offutt Installation Development Plan
- Rebuild Infrastructures to meet 21st Century Demands:
  - Optimize Functional Capabilities
  - Enhance Organizational Efficiencies
  - Enhance Mission Assurance
  - Provide Multi-use And Multi-purpose
  - Increase Infrastructure Resiliency
  - Cost Savings Features
  - Decrease Security Workload
  - Decrease Maintenance
  - Improve Safety
  - Improve Traffic Flow
Rebuild Strategy
New Construction
Rebuild Strategy
New Construction

- Bennie Davis
- STRATCOM HQ: B500
- Flightline Hangars Campus
- LRS Campus
- Security Campus
- NKO Campus
- NC3 Alert Campus
- SATCOM / MILSTAR Campus
- CDC II
- 557 WW
- Base Lake Campus

*Not shown: Electrical Microgrid