

USACE Rapid Disaster Infrastructure Program

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Discussion Topics

- RR-TCX Program
 - Mission
 - History
 - Program Overview
 - Cost Reimbursable
 - Project Examples
 - Mega Power: Palo Seco, Yabucoa
 - AMR & RH Potable Water Supply
 - COVID ACF



RR-TCX Mission

- RR-TCX authority from HQ USACE, via MSC, to execute time-sensitive work across CONUS and US Territories (UNR).
- The RR-TCX provides support to all Federal Agencies who meet program criteria
- **First: Project Acceptance via MSC and Impacted Geographic**
- PDT includes representatives from impacted geographic district
- RR-TCX personnel are considered Subject Matter Experts
 - Cost Reimbursable Contracts
 - Expertise needed for near real time decision
- Specialized contract capabilities: RR SATOCs & RDI MATOCs
- Maintain standards, quality, safety and flexibility.
- Transition to supported Geo-District for long-term response solution



RR-TCX History

- Began in 1989 with EPA Superfund to support time critical removal actions.
- Genesis for Fuels Program, TRSS, SDIC, RDI
- Currently >\$4 Billion in Project Execution
 - >1000 task orders
 - Time-Sensitive HTRW Recovery
 - 900 actions at \$1.7B
 - Time-Sensitive Disaster & Infrastructure Repairs
 - 150 actions at \$1.3BM



RR-TCX Programs

- **Rapid Disaster Infrastructure Program**
 - Time-sensitive Disaster and Infrastructure Repairs
 - MATOC
 - UNR, SB, Hub Zone
- **Rapid Response Program**
 - Time-sensitive HTRW recovery
 - SATOC
 - UNR, SB, SD VOSB, 8a



Rapid Disaster Infrastructure (RDI) MATOC

- Time-sensitive
 - Immediately dangerous to life and health
 - Operational impacts to the government
- Cost Reimbursable Construction-based contract for:
 - Disaster Response and Recovery
 - Infrastructure Repairs
 - Incidental Design, Munitions, Environmental, HTRW
- Infrastructure, Disaster
 - NOT: Security, O&M
- CONUS Work and US Territories
 - Also includes Alaska, Hawaii, District of Columbia



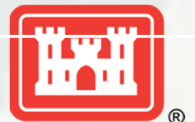
Program Status -RDI

RDI #1 distribution of capacity (**\$2B initially, COVID increase to \$4B**)

- UNR: 60% (expired)
- SB: 13.33% (active)
- SDVOSB: 13.33% (expired)
- 8(a): 13.33% (expired)

RDI #2 distribution of capacity (**\$2B initially, COVID increase to \$10B**)

- UNR: 50% (active)
- SB: 25% (unawarded)
- SDVOSB: 7% (unawarded)
- HUBZone: 5% (active)
- 8(a): 13% (unawarded)



Rapid Response Program

- Hazardous, Toxic, Radioactive Waste Recovery Actions
 - Provides full-suite of HTRW Recovery service in situations where rapid or immediate response action is necessary to protect human life, public health or the environment for projects such as:
 - Aliamanu Military Reservation and Red Hill
 - Aircraft crash cleanup
 - Tank spill response
 - Hydrant system repair/spill response
 - Asbestos, sediment and soil removal actions
 - Design/build landfill cover systems
 - Mine tailings removal and remediation under the Abandoned Mine Lands Program
 - Drum removal and underground/ above ground storage tank spill response support
 - House Hold Hazardous Waste



Program Status - RR

RR5 distribution of capacity (**\$245M**)

- UNR SATOC: 33% (expired)
- SB SATOC: 39% (expired)
- SDVOSB SATOC: 14% (active)
- 8(a) SATOC: 14% (active)

RR6 distribution of capacity (**\$245M initially, increased to \$265M**)

- UNR SATOC: 33% (active)
- SB SATOC: 39% (unawarded)
- SDVOSB SATOC: 14% (unawarded)
- 8(a) SATOC: 14% (unawarded)



Cost Reimbursable

- Cultural change from Firm Fixed
 - Executive Office, PM, OC, Contracting, Engineering, Construction, RM, Program Analyst, Chemistry, IH, Safety
- Time-Sensitive Need for Action
 - Inherent uncertainties
 - Changes are incessant => Change Management
 - Cost reimbursable = flexibility
 - Task order = 1 WAD/WOE
 - Reimburse allowable, allocable, reasonable costs
 - Government Has Risk



Cost Reimbursable

- Project Delivery Team:
 - Contractor and Government reps
 - Identify and Manage Risk
 - Near real-time decision making
- Change Management
 - In-Scope Discussion Only
 - Inherent uncertainties = Incessant Changes
 - Contractor and Government must change together
 - Gov and Contractor “Wargame”
 - Contractor submits resource needs
 - Gov approves before changes executed



Cost Reimbursable

- Procurement Strategies:
 - Prime contractor performs high risk work features under cost reimbursable
 - Subcontracts to local vendors low risk work features under Firm Fixed
- Vertical Ramp up of Resources:
 - Needed for most task orders



RDI Project Examples

- Mega Power Generation
 - Palo Seco Power Plant
 - Yabucoa Power Plant
- Aliamanu Military Reservation and Red Hill Potable Water Supply
- COVID Alternative Care Facilities
 - Colorado Convention Center
 - Beverly and Mission



Puerto Rico Temporary Power

- Hurricane Maria, a Category 5 Storm, reached Puerto Rico in late 20 September 2017 and substantially destroyed the power grid on the island.
- Utilizing Rapid Disaster Infrastructure MATOC, the Omaha District was able to put in place a contract to deliver temporary power generation at Palo Seco, PR and Yabucoa.
- This was one of the fastest mobilizations and set up of fully operational temporary power generation units ever conducted.



North (right) and south (left) generators being set-up



PALO SECO TIMELINE

9/20/17

Hurricane Maria Makes Landfall

10/4/17

Rapid Disaster Infrastructure
Mission Assignment

10/8/17

Contract Awarded

10/9/17

Team Mobilized

10/15/17

Equipment On Site

10/29/17

Generators Operational

Eleven contract modifications and extensions



The two generators installed at the Palo Seco Power Plant provided a combined 50 megawatts of power from Oct. 29, 2017, through March 8, 2019.

3/08/19

Operations Complete

3/22/19

Demobilization Complete

Five contract modifications and extensions

10/30/17
Rapid Disaster Infrastructure
Mission Assignment

11/6/17
Contract Awarded

11/17/17
Equipment On Site

12/09/17
Generators Operational

7/18/18
Operations Complete

8/23/18
Demobilization Complete

Utilizing the Rapid Disaster Infrastructure MATOC, the U.S. Army Corps of Engineers-Omaha District was able to put in place a contract to deliver temporary power generation at Yabucoa, Puerto Rico, in a timely manner in order to stabilize the power grid and reduce outages on the east side of the island.



YABUCOA TIMELINE



Palo Seco, PR Temporary Power

WHO: Rapid Response Center of Expertise, Omaha District, USACE

WHAT: Palo Seco, Puerto Rico, Temporary Power Generation

WHEN: Hurricane Maria landfall = 20SEP17

RDI Mission Assignment = 04OCT17

Contract Award = 08OCT17

Began Mobilization = 09OCT17

Equipment onsite = 15OCT17

Generators operational = 29OCT17

WHERE: Palo Seco, Puerto Rico

WHY: To help stabilize the power grid and reduce outages across the island.



Stats: \$233 Million dollar contract value

Operational 495 Calendar days: 29 Oct 2017 8 Mar 2019

Consumed over 44 Million gallons of fuel without any spills

Produced over 600,000 MW of power

Worked approximately 100,000 man-hours without a lost time incident (over 288 days)

Approximately 97% efficiency operating time (including ALL scheduled and unscheduled outages)



Yabucoa, PR Temporary Power

WHO: Rapid Response Center of Expertise, Omaha District,
USACE

WHAT: Palo Seco, Puerto Rico, Temporary Power Generation

WHEN: Hurricane Maria landfall = 20SEP17

RDI Mission Assignment = 04OCT17

Contract Award = 08OCT17

Began Mobilization = 09OCT17

Equipment onsite = 15OCT17

Generators operational = 29OCT17

WHERE: Palo Seco, Puerto Rico

WHY: To help stabilize the power grid and reduce outages
across the island.



Stats: \$57.4 Million dollar contract value

Operational: 221 Calendar Days: 9 Dec 2017 18 July 2018

Consumed over 9 Million gallons of fuel without any spills

Produced over 120,000 MW of power

Worked approximately 51,000 man-hours without a lost time incident (over 288 days)

Approximately 98.5% efficiency operating time (including ALL scheduled and
unscheduled outages)



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