Puerto Rico & Hurricane Maria

February 2018
Introductions

- Matthew Caesar, FEMA RX Planning Branch Chief
- Justin Craven, FEMA RX Planner
## Puerto Rico - 2017

### Historic Federal Response

<table>
<thead>
<tr>
<th>Mission Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longest sustained air mission of food and water in FEMA history</td>
<td>Fixed-Wings 1,008, Rotary-Wings 1,328</td>
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<tr>
<td>Largest air mission in FEMA’s history</td>
<td>61.14 + million liters of water, 54.01 + million meals and</td>
</tr>
<tr>
<td></td>
<td>continuing</td>
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<tr>
<td>Largest commodity mission in FEMA history</td>
<td>1,013 generators installed</td>
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<td>Largest power mission for the 249th Engineer Battalion on U.S. soil</td>
<td>38,037 patients cared for</td>
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<tr>
<td>One of, if not the, largest disaster medical response missions ever</td>
<td></td>
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<tr>
<td>One of, if not the, largest disaster housing missions in FEMA history</td>
<td></td>
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<tr>
<td>The largest sea-bridge operation of federal disaster aid in FEMA history</td>
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Challenges

- Continual situational awareness requirement
- Isolated communities
- Logistics
- Lack of:
  - All communications and connectivity
    - Situational awareness
  - Access and transportation
    - Distribution capability
  - Fuel
  - Water
  - Food
  - Power
  - Sewer services/water treatment
Planning

- Huge personnel footprint with a lack of transportation options and general resources necessitated calculated and coordinated actions

- Many complex missions across multiple functional areas required considerable coordination to be effective and efficient

- Task forces

- Resource allocation

- Specific power restoration priorities would have been extremely helpful (an RRAP could have been useful)
Logistics

- Insufficient transportation bandwidth
- Prioritization
- Enable the private sector
  - Include the private sector in prioritization of goods and services
- Reception, staging, onward movement and integration (RSOI)
- Billeting
Operations

- Concept of operations
- Operational coordination
  - DoD
- State prioritization information required for all initial missions (beyond 40 days)
- Initially assumption based
- Task forces
- Air operations
Best Practices and Lessons Learned

- Many FEMA RX personnel deployed to PR
- Formal After Action Report (AAR) forthcoming
- RX very interested in the AAR for Puerto Rico
Puerto Rico

By The Numbers

<table>
<thead>
<tr>
<th>Commodities</th>
<th>Water</th>
<th>Meals</th>
<th>Power - Generators</th>
<th>Debris Cleared</th>
<th>Disaster Unemployment Assistance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Potable Water</td>
<td>Total Meals Delivered</td>
<td></td>
<td></td>
<td>Approved</td>
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<tr>
<td></td>
<td>16.18 million gallons</td>
<td>54.01 million</td>
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<td>4,207</td>
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<td></td>
<td>Bottled Water</td>
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<td></td>
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<tr>
<td></td>
<td>61.14 million liters</td>
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<thead>
<tr>
<th>Housing, Public Assistance and SBA</th>
<th>Individual and Households Program Maria</th>
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<tbody>
<tr>
<td>Total Registrations</td>
<td>1,095,028</td>
</tr>
<tr>
<td>Total Dollars Approved</td>
<td>$894,160,377.17</td>
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<thead>
<tr>
<th>Public Assistance Maria</th>
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<tbody>
<tr>
<td>Total Dollars Obligated</td>
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<thead>
<tr>
<th>Small Business Administration</th>
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<tr>
<td>Applications Received</td>
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<tr>
<td>Total Dollars Approved</td>
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<table>
<thead>
<tr>
<th>Number of Federal Civilian Employees and Military Personnel</th>
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<tbody>
<tr>
<td>FEMA Only</td>
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<tr>
<td>Department of Defense</td>
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<tr>
<td>Surge Force</td>
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<tr>
<td>Local Hires</td>
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<tr>
<td>Total</td>
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<tr>
<th>FEMA Temporary Roofing</th>
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<td>Self Help Tarps</td>
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<tr>
<th>Blue Roof Mission</th>
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<tr>
<td>Rights of Entry</td>
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<tr>
<td>Installed</td>
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*As of January 10, 2018