Gotham Shield 2017 Overview

Brief to Metropolitan North New Jersey
Federal Executive Board
January 10, 2017

JB Cuartas
Chief, Operational Planning
DHS FEMA Region II Response
Gotham Shield 17 Purpose

- The purpose of GS 17 is to evaluate the whole community effort to prevent, protect from, respond to, and plan initial recovery after the effects of an Improvised Nuclear Device attack using established exercises to achieve objectives in the relevant mission areas and capabilities.

- GS 17 will assess regional and national incident management and incident support capabilities, to include pre- and post-nuclear device detonation and recovery.
GS 17 Scope

- Partnered exercises will include Ardent Sentry 17 (with Fuerzas Amigas 17), Vital Archer 17, Vibrant Response 17, Staunch Maple 17, and Prominent Hunt 17

- Exercises will utilize a common scenario and incorporate the protect, prevent, response, and elements of the recovery mission area

- IND scenario within FEMA Region II
Existing Exercise Purpose Statements

- **Vital Archer** is the annual U.S. Department of Defense (DOD) exercise aligned to the counterterrorism response operations, including weapons of mass destruction, outside the contiguous United States.

- **Vibrant Response** is U.S. Northern Command’s (USNORTHCOM) annual field training exercise for chemical, biological, radiological, nuclear, and high-yield explosive consequence management forces designed to improve their ability to respond to catastrophic incidents.

- **Fuerzas Amigas** is the United States and Mexico’s annual cross-border military operations exercise.

- **Ardent Sentry** is the North American Aerospace Defense Command’s (NORAD) and USNORTHCOM’s major annual exercise focused on Defense Support of Civil Authorities.

- **Prominent Hunt** is the Domestic Nuclear Detection Office (DNDO) National Technical Nuclear Forensics Ground Collection Task Force’s annual exercise centered on assessing the United States’ capability to collect radioactive evidence in the immediate aftermath of a nuclear detonation.

- **Staunch Maple** is the Canadian Joint Operations Command’s exercise to practice and improve Canadian Armed Forces’ ability to support other government departments and agencies in order to ensure the security and safety of Canada.
GS 17 Structure

Gotham Shield

Prevent/Protect
- Vital Archer

Ardent Sentry
- Fuerzas Amigas
- Vibrant Response

Prominent Hunt
- Staunch Maple

Recover
- TTX

Exercise Leads:
- NORTHCOM
- DNDO
- CJOC
- FEMA
- Fed/State/Local/Tribes
GS 17 Structure (continued)

Vital Archer
• Overseas threat stream involving known terrorist group indicating potential attack on contiguous United States (CONUS)

Ardent Sentry
Fuerzas Amigas
Vibrant Response
Staunch Maple
Prominent Hunt
• Response to IND detonation(s) within FEMA Region II and Canada

Recovery Functional Exercise or TTX
• Discussion of response and recovery planning and operations

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GS 17 Interagency Core Planning Team (ICPT)

- Provides collaborative leadership over the series of federal, state, and local exercises
- Coordinates interagency planning efforts and ensures each exercise is linked from prevention to recovery
- Allows for the coordination of exercise design development actions and ensures alignment of common priorities
- Meets on a regular basis to coordinate exercise design
# GS 17 ICPT Members

<table>
<thead>
<tr>
<th>Agency/Department/State/Locality</th>
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<tbody>
<tr>
<td>U.S. Department of Energy</td>
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<tr>
<td>U.S. Domestic Nuclear Detection Office</td>
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<tr>
<td>U.S. Federal Bureau of Investigation</td>
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<tr>
<td>U.S. Federal Emergency Management Agency</td>
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<tr>
<td>U.S. Northern Command</td>
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<tr>
<td>State of New Jersey Office of Emergency Management</td>
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<td>State of New York Office of Emergency Management</td>
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<tr>
<td>City of New York Office of Emergency Management</td>
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</table>
GS 17 Exercise Planning Timeline (Confirmed)

- GS 17 Scenario Development/Ground Truth: November 15-18, 2016
- Mid-Term Planning Meeting: December 6–8, 2016
- MSEL Script Meeting: January 31–February 1, 2017
- MSEL Sync Meeting: February 28–March 1, 2017
- Final Planning Meeting: March 28–30, 2017
- Exercise: April 18–May 5, 2017
- Draft After-Action Report: TBD
- Locations: Within FEMA Region II
Summary of Planning Progress

- GS 17 Plume Model completed
- GS 17 Interagency Objectives for Protect/Prevent/Response/Recovery finalized
  - Please see attachment
- GS 17 Intra-FEMA Objectives finalized
  - Please see attachment
- GS 17 Scenario Development and Ground Truth Meeting, November 15–18, 2016
  - Subject matter experts and exercise planners reviewed the Ground Truth and provided feedback to the U.S. Department of Defense (DOD)
Summary of Planning Progress

- GS 17 Mid-term Planning Meeting, December 6–8, 2016
  - Exercise planners reviewed updates to Ground Truth and provided draft Extent of Play information

- GS 17 Recovery Tabletop Exercise Roles and Responsibilities Discussion, December 19, 2016
  - It was determined that the National Exercise Division will lead development of the Recovery TTX, with continued support and engagement from FEMA Exercise Branch
Summary of Recovery TTX

- TTX will occur May 8–12, 2017
  - Location of TTX to be determined
  - TTX will be 3 days in duration
  - First 1.5 days will cover short-term recovery
  - Last 1.5 days will cover long-term recovery
  - The FEMA National Exercise Division will provide direct support to FEMA Region II in developing the TTX

- Recovery TTX Points of Contacts:
  - Christine Haggerty: Christine.haggerty@fema.dhs.gov
  - Leah Lubin: Leah.Lubin@fema.dhs.gov
  - Jamele Parsons: Jamele.Parsons@fema.dhs.gov
GS 17 Detonation Location and Wind Direction
GS 17 Blast Impact Radius

NOT APPROVED BY NARAC

Prompt Nuclear Detonation Pop. Effects
(Overpressure, Thermal, and Radiation)

Prompt (Immediate) Effects

<table>
<thead>
<tr>
<th>Description</th>
<th>Extent Area</th>
<th>Population Fatalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatalities in over 90% of population from prompt radiation, overpressure, and thermal effects.</td>
<td>1.3 km, 5.7 km²</td>
<td>32,700, 32,500</td>
</tr>
<tr>
<td>Fatalities in over 50% of population from prompt radiation, overpressure, and thermal effects.</td>
<td>1.4 km, 6.3 km²</td>
<td>38,200, 38,600</td>
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<tr>
<td>Fatalities in over 10% of population from prompt radiation, overpressure, and thermal effects.</td>
<td>1.5 km, 6.9 km²</td>
<td>44,200, 43,900</td>
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<tr>
<td>Major injuries in over 50% of surviving population from prompt rad, overpressure, and thermal effects.</td>
<td>1.5 km, 7.4 km²</td>
<td>49,200, 47,200</td>
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<tr>
<td>Major injuries in over 10% of surviving population from prompt rad, overpressure, and thermal effects.</td>
<td>1.5 km, 8.2 km²</td>
<td>55,400, 48,800</td>
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</tbody>
</table>

Note: Areas and counts in the table are cumulative. Casualties include both Fatal and Non-Fatal effects. Population Source - LandScan USA v1.0.

Effects or contamination from April 16, 2017 12:00 UTC to April 18, 2017 12:00 UTC at or near ground level.

Release Location: 40.766697 N, 74.017586 W
Material: 10 kt Nuclear Detonation Radioactive Debris
Generated On: September 28, 2016 15:25 UTC
Model: NUKE
Comments:
Hypothetical release starting at 04/18/2017 12:00:00 UTC for 1 sec

Map Size: 5.3 km by 5.3 km
Id: Production.rcE26284.roC1

NARAC Operations: (NARAC Staff); narac@lnl.gov; 925-424-6465
Requested by: [Brenda Pobanz (mgr); NARAC – Operations; 925-422-1823; pobanz2@lnl.gov]
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## Gotham Shield 2017 Exercise Conduct Timeline

### Gotham Shield 2017

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Response</th>
<th>Recovery</th>
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<tr>
<td><strong>TUE</strong> 18 Apr</td>
<td><strong>MON</strong> 24 Apr D</td>
<td><strong>TUE</strong> 9 May</td>
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<tr>
<td>D-6</td>
<td></td>
<td>D+7</td>
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<td><strong>WED</strong> 19 Apr</td>
<td><strong>TUE</strong> 25 Apr D+1</td>
<td><strong>WED</strong> 10 May</td>
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<td><strong>WED</strong> 26 Apr D+2</td>
<td>D+8; D+30</td>
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<td><strong>THU</strong> 20 Apr</td>
<td><strong>THU</strong> 27 Apr D+3</td>
<td><strong>THU</strong> 11 May</td>
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<td>D-4</td>
<td><strong>THU</strong> 28 Apr D+4</td>
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**Lead Agency**
- FEMA/Reg II
- NORTHCOM
- ARNORTH
- CJOC
- DNDO

**Vital Exercise Designations**
- FEMA IND RESPONSE PLAN
- ARDENT SENTRY
- FUERZAS AMIGAS
- VIBRANT RESPONSE (PH. 1)
- STAUNCH MAPLE
- PROMINENT HUNT

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Strategic Level Participation Overview

- **Day 1**: Monday, April 24, 2017
  - 10:00 a.m. detonation
  - National Response Coordination Center (NRCC) stood up
  - Limited State and Local (NY/NJ/NYC) core command/operations cells operational
  - Simulation Cell operational

- **Day 2**: Tuesday, April 25, 2017
  - Incident Management Assistance Teams deployed
  - NRCC activated
  - New York City Emergency Operations Center (EOC) activated
  - Limited State (NY/NJ) core command/operations cells operational
  - Simulation Cell operational
Strategic Level Participation Overview

- **Day 3**: Wednesday, April 26, 2017
  - NRCC activated
  - New York and New Jersey EOCs activated
  - Limited Local (NYC) core command/operations cells operational
  - Simulation Cell operational

- **Day 4**: Thursday, April 27, 2017
  - NRCC activated
  - Limited State and Local (NY/NJ/NYC) core command/operations cells operational
  - Simulation Cell operational

- **Day 5**: Friday, April 28, 2017
  - Hotwashes
  - Simulation Cell operational
# Strategic Level Participation Overview

<table>
<thead>
<tr>
<th>Participant</th>
<th>Monday Apr 24</th>
<th>Tuesday Apr 25</th>
<th>Wednesday Apr 26</th>
<th>Thursday Apr 27</th>
<th>Friday Apr 28</th>
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Exercise Locations

- **New York State SEOC**
  - Albany, NY

- **New Jersey SEOC**
  - Trenton, NJ

- **NRCC**
  - Washington D.C.

- **New York City EOC**
  - NYC, NY

- **Master Control Cell**
  - Fort Hamilton
  - Brooklyn, NY
Contact Information

FEMA-Exercise@fema.dhs.gov