

# 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



**FEMA**

FOR OFFICIAL USE ONLY

# 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



FEMA

FOR OFFICIAL USE ONLY

# 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



**FEMA**

**FOR OFFICIAL USE ONLY**

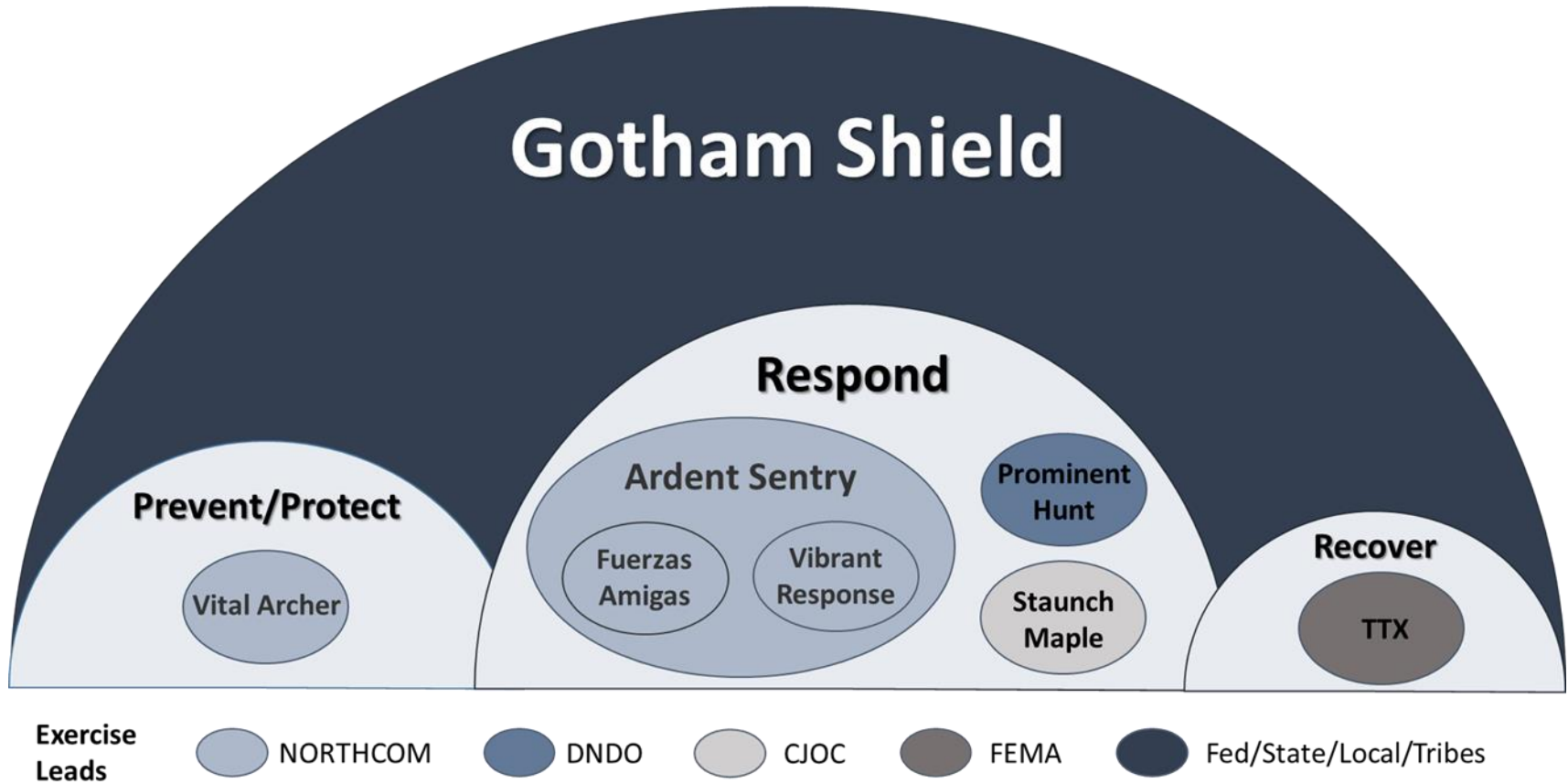
# Existing Exercise Purpose Statements

- **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



FEMA

# GS 17 Structure



FEMA

FOR OFFICIAL USE ONLY

# 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



**FEMA**

# 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



**FEMA**

**FOR OFFICIAL USE ONLY**

# GS 17 ICPT Members

Agency/Department/State/Locality
U.S. Department of Energy
U.S. Domestic Nuclear Detection Office
U.S. Federal Bureau of Investigation
U.S. Federal Emergency Management Agency
U.S. Northern Command
State of New Jersey Office of Emergency Management
State of New York Office of Emergency Management
City of New York Office of Emergency Management



**FEMA**

**FOR OFFICIAL USE ONLY**



# 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**



**FEMA**

**FOR OFFICIAL USE ONLY**

# 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)



**FEMA**

# 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



**FEMA**

# Summary of Recovery TTX

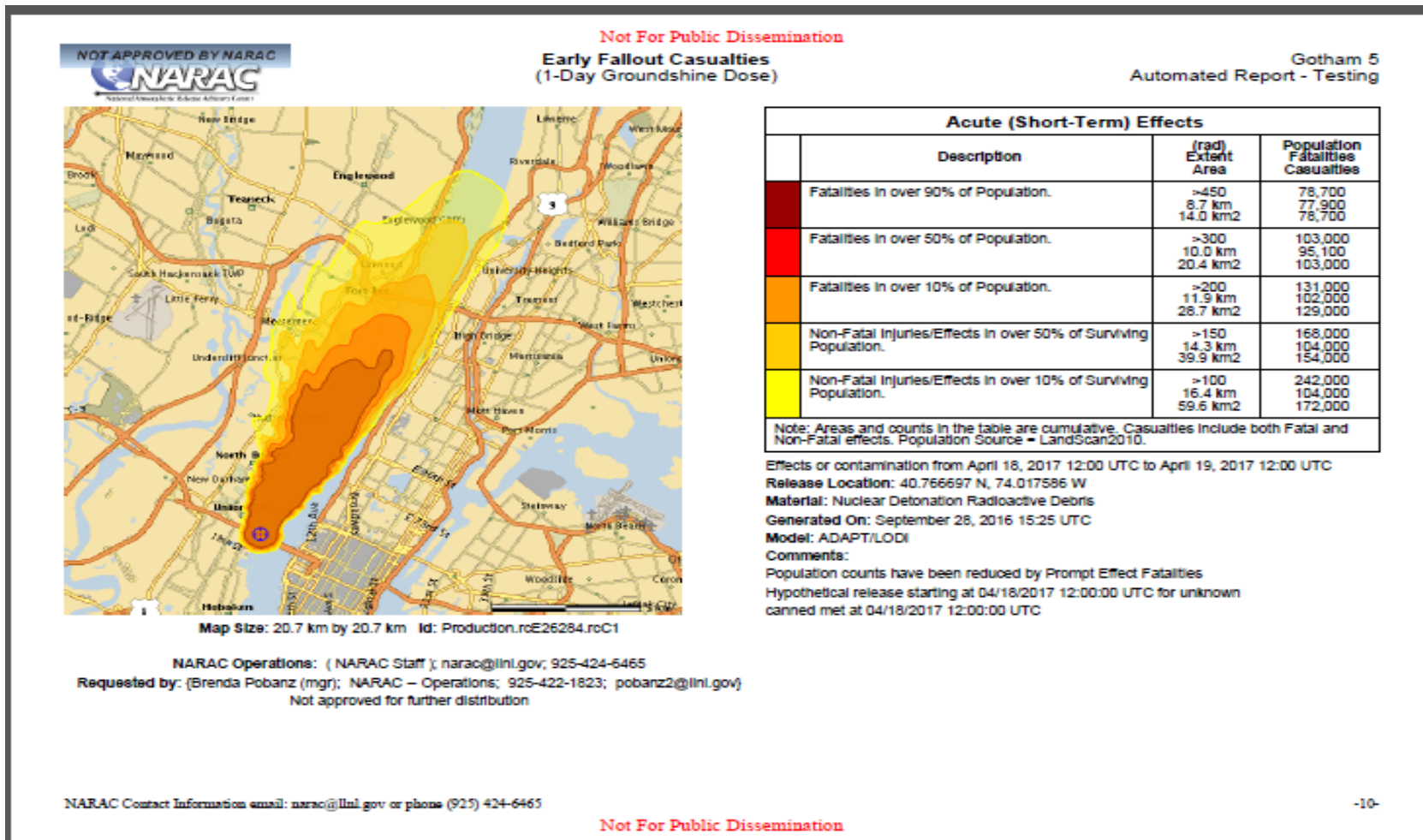
- TTX will occur May 8–12, 2017
  - Location of TTX to be determined
  - TTX will be 3 days in duration
  - First 1.5 days will cover short-term recovery
  - Last 1.5 days will cover long-term recovery
  - The FEMA National Exercise Division will provide direct support to FEMA Region II in developing the TTX
- Recovery TTX Points of Contacts:
  - Christine Haggerty: [Christine.haggerty@fema.dhs.gov](mailto:Christine.haggerty@fema.dhs.gov)
  - Leah Lubin: [Leah.Lubin@fema.dhs.gov](mailto:Leah.Lubin@fema.dhs.gov)
  - Jamele Parsons: [Jamele.Parsons@fema.dhs.gov](mailto:Jamele.Parsons@fema.dhs.gov)



**FEMA**

FOR OFFICIAL USE ONLY

# GS 17 Detonation Location and Wind Direction



# FEMA

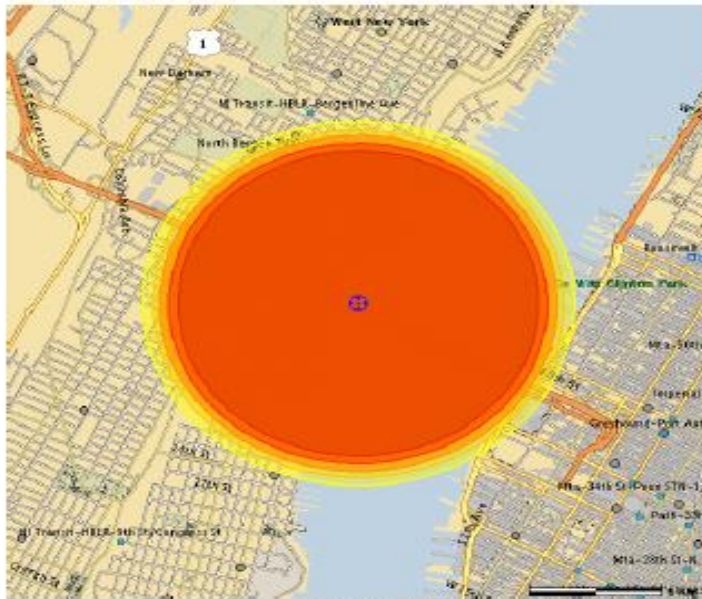
FOR OFFICIAL USE ONLY

# GS 17 Blast Impact Radius

Not For Public Dissemination

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

Gotham 5  
Automated Report - Testing



Map Size: 5.3 km by 5.3 km Id: Production.rcE26284.rc1

NARAC Operations: ( NARAC Staff ); narac@llnl.gov; 925-424-6465

Requested by: (Brenda Pobanz (mgr); NARAC – Operations; 925-422-1823; pobanz2@llnl.gov)  
Not approved for further distribution

Prompt (Immediate) Effects			
	Description	Extent Area	Population Fatalities Casualties
	Fatalities in over 90% of population from prompt radiation, overpressure, and thermal effects.	1.3 km 5.7 km <sup>2</sup>	32,700 32,500 32,700
	Fatalities in over 50% of population from prompt radiation, overpressure, and thermal effects.	1.4 km 6.3 km <sup>2</sup>	38,200 36,600 38,200
	Fatalities in over 10% of population from prompt radiation, overpressure, and thermal effects.	1.5 km 6.9 km <sup>2</sup>	44,200 38,250 43,900
	Major injuries in over 50% of surviving population from prompt rad, overpressure, and thermal effects.	1.5 km 7.4 km <sup>2</sup>	49,200 38,400 47,200
	Major injuries in over 10% of surviving population from prompt rad, overpressure, and thermal effects.	1.6 km 8.2 km <sup>2</sup>	55,400 38,500 48,800

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 18, 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

NARAC Contact Information email: narac@llnl.gov or phone (925) 424-6465

Not For Public Dissemination

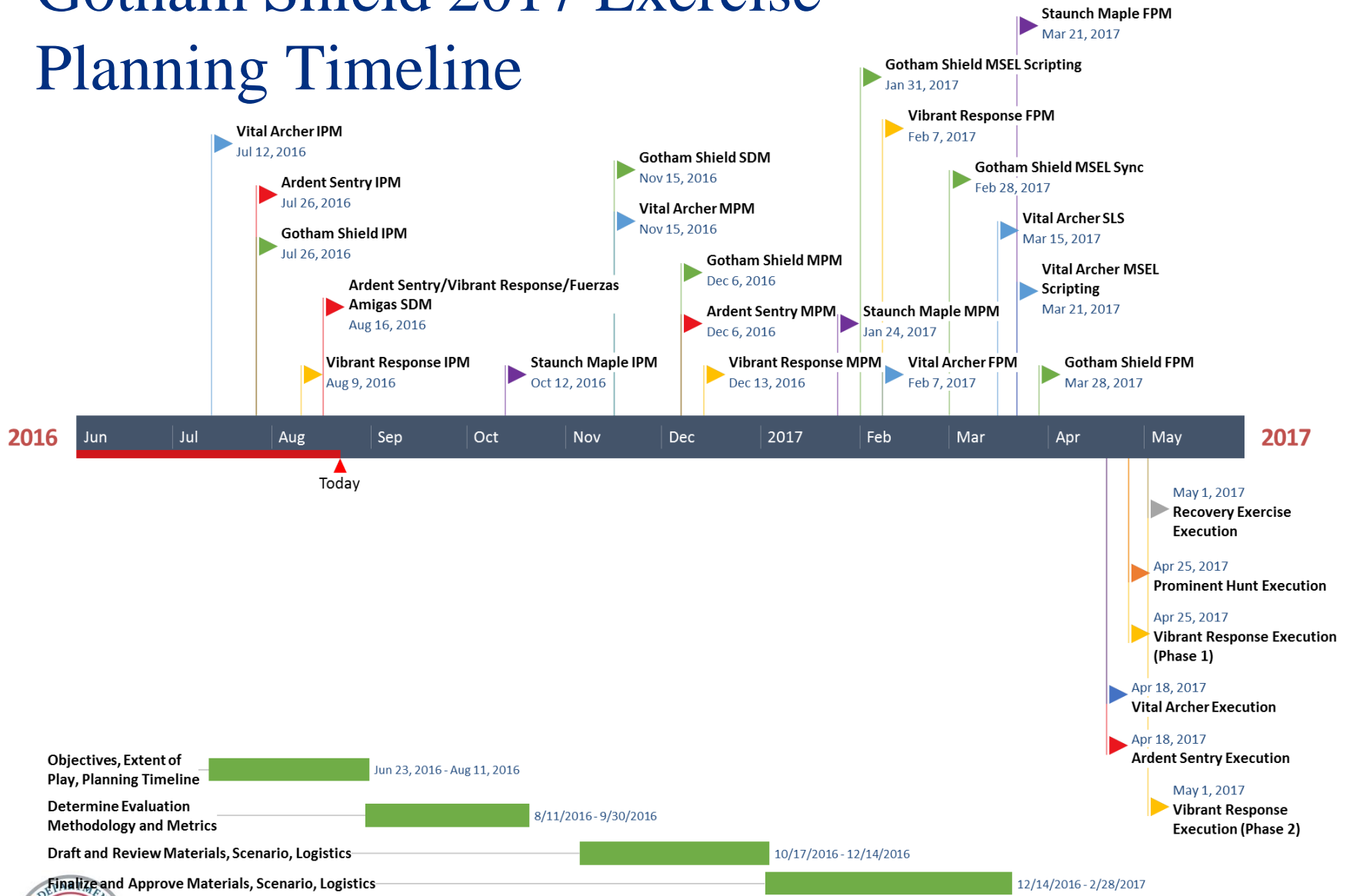
-6-



# FEMA

FOR OFFICIAL USE ONLY

# Gotham Shield 2017 Exercise Planning Timeline



**FEMA**

**FOR OFFICIAL USE ONLY**

# Gotham Shield 2017 Exercise Conduct Timeline

Gotham Shield 2017														
	Prevention						Response					Recovery		
	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	TUE	WED	THU
	18 Apr	19 Apr	20 Apr	21 Apr	22 Apr	23 Apr	24 Apr	25 Apr	26 Apr	27 Apr	28 Apr	9 May	10 May	11 May
Lead Agency	D-6	D-5	D-4	D-3	D-2	D-1	D	D+1	D+2	D+3	D+4	D+7	D+8; D+30	D+31
FEMA/Reg II							FEMA IND RESPONSE PLAN					RECOVERY		
NORTHCOM	VITAL ARCHER						ARDENT SENTRY FUERZAS AMIGAS							
ARNORTH							VIBRANT RESPONSE (PH. 1)							
CJOC	STAUNCH MAPLE													
DNDO							PROMINENT HUNT							



**FEMA**



# 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



**FEMA**

# 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



**FEMA**

# Strategic Level Participation Overview

Participant	Monday Apr 24	Tuesday Apr 25	Wednesday Apr 26	Thursday Apr 27	Friday Apr 28
NRCC	X	X	X	X	
IMAT		X	X	X	
NYC OEM		X			
NY State			X		
NJ State			X		
NORTHCOM	X	X	X	X	X



**FEMA**

# Exercise Locations



# FEMA

FOR OFFICIAL USE ONLY

# Contact Information

[FEMA-Exercise@fema.dhs.gov](mailto:FEMA-Exercise@fema.dhs.gov)



**FEMA**

**FOR OFFICIAL USE ONLY**



**FEMA**