

Gotham Shield 2017 Overview

Brief to Metropolitan North New Jersey
Federal Executive Board
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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



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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



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Existing Exercise Purpose Statements

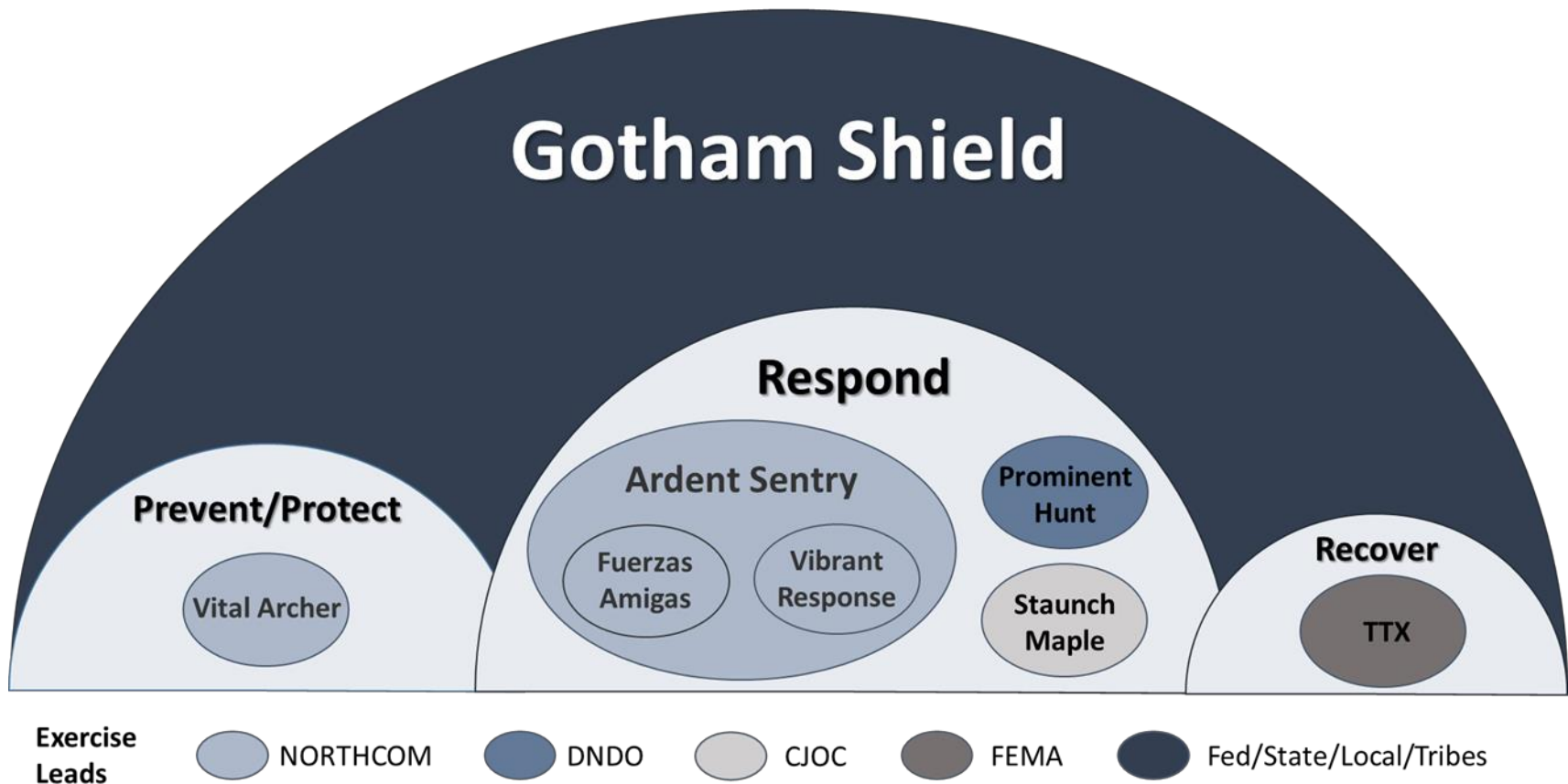
- **Vital Archer** is the annual U.S. Department of Defense (DOD) exercise aligned to the counterterrorism response operations, including weapons of mass destruction, outside the contiguous United States
- **Vibrant Response** is U.S. Northern Command's (USNORTHCOM) annual field training exercise for 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



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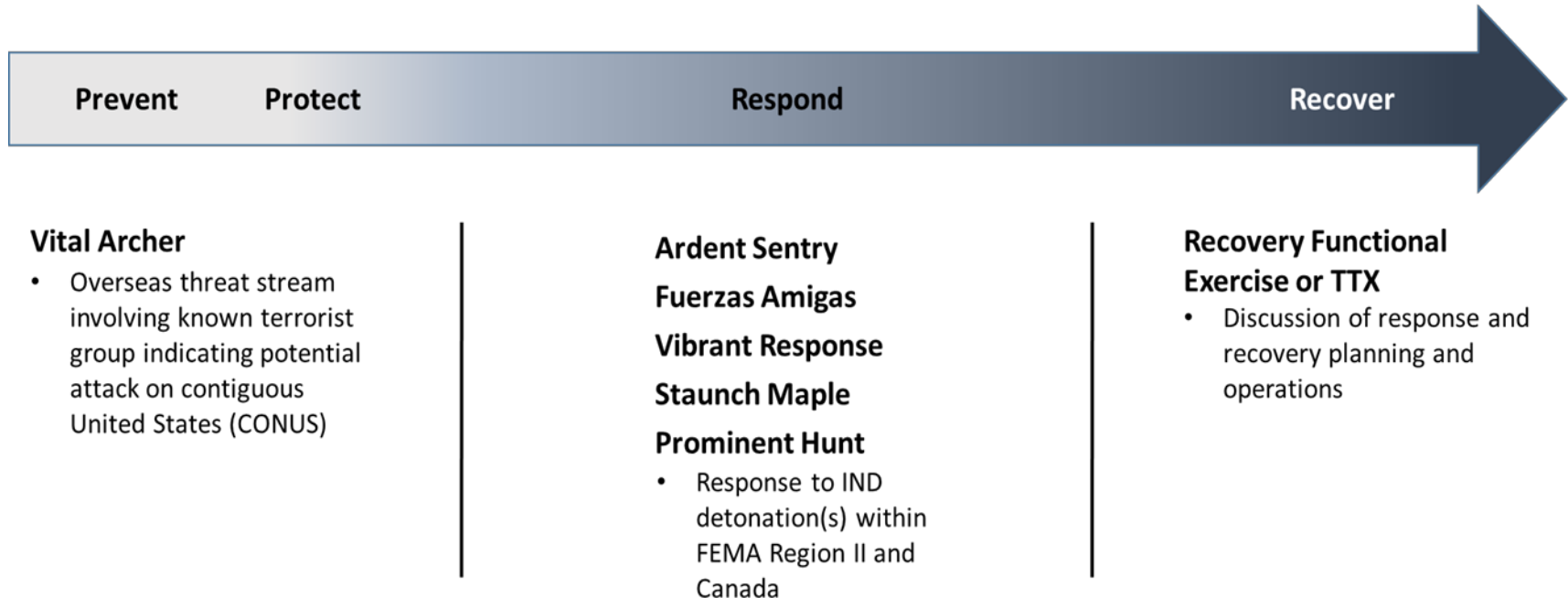
GS 17 Structure



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GS 17 Structure (continued)



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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



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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



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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



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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)



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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



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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



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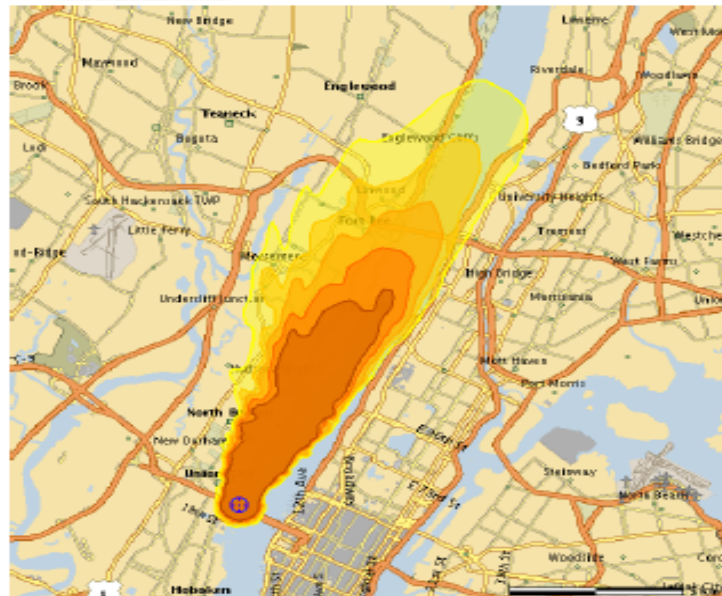
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GS 17 Detonation Location and Wind Direction



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Early Fallout Casualties
 (1-Day Groundshine Dose)

Gotham 5
 Automated Report - Testing



Map Size: 20.7 km by 20.7 km Id: Production.rcE26284.rcC1

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 Not approved for further distribution

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

Acute (Short-Term) Effects

Description	(rad) Extent Area	Population Fatalities Casualties
Fatalities in over 90% of Population.	>450 8.7 km 14.0 km2	78,700 77,900 76,700
Fatalities in over 50% of Population.	>300 10.0 km 20.4 km2	103,000 95,100 103,000
Fatalities in over 10% of Population.	>200 11.9 km 28.7 km2	131,000 102,000 129,000
Non-Fatal Injuries/Effects in over 50% of Surviving Population.	>150 14.3 km 39.9 km2	168,000 104,000 154,000
Non-Fatal Injuries/Effects in over 10% of Surviving Population.	>100 16.4 km 59.6 km2	242,000 104,000 172,000

Note: Areas and counts in the table are cumulative. Casualties include both Fatal and Non-Fatal effects. Population Source = LandScan2010.

Effects or contamination from April 18, 2017 12:00 UTC to April 19, 2017 12:00 UTC

Release Location: 40.766697 N, 74.017586 W

Material: Nuclear Detonation Radioactive Debris

Generated On: September 28, 2016 15:25 UTC

Model: ADAPT/LODI

Comments:

Population counts have been reduced by Prompt Effect Fatalities

Hypothetical release starting at 04/18/2017 12:00:00 UTC for unknown
 canned met at 04/18/2017 12:00:00 UTC

-10-

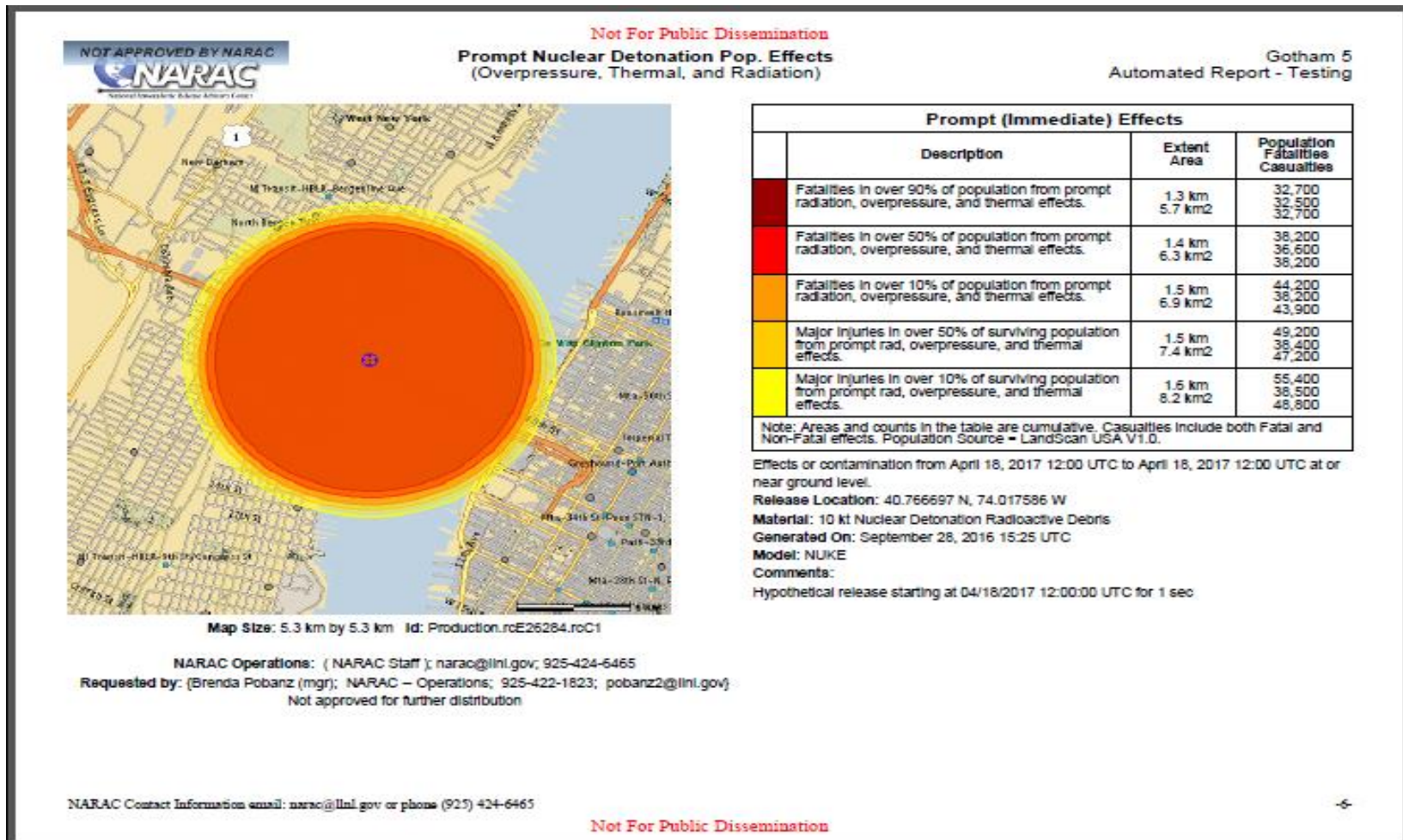
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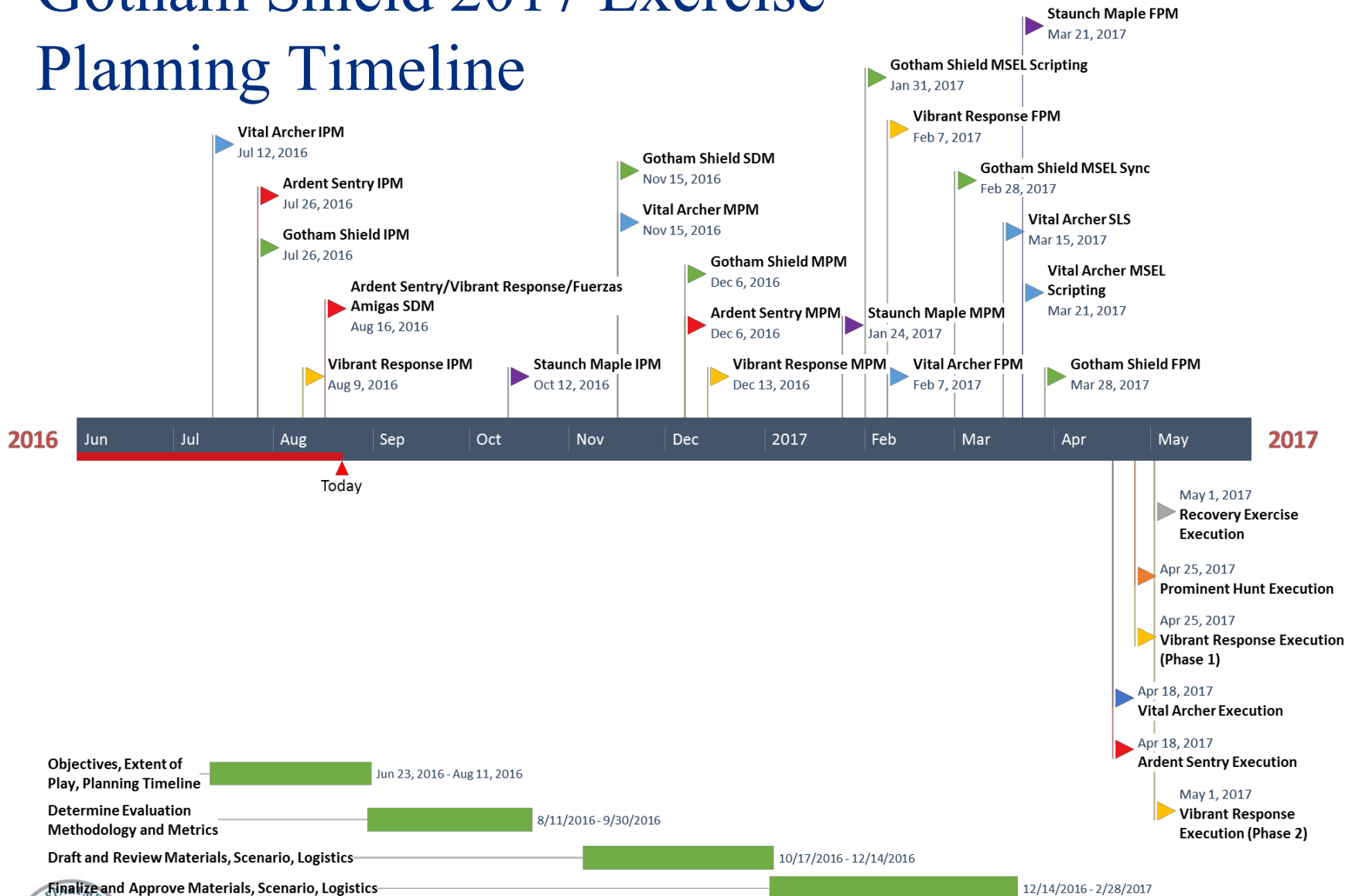
GS 17 Blast Impact Radius



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Gotham Shield 2017 Exercise Planning Timeline



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Gotham Shield 2017 Exercise Conduct Timeline

Gotham Shield 2017														
	Prevention						Response					Recovery		
	TUE 18 Apr D-6	WED 19 Apr D-5	THU 20 Apr D-4	FRI 21 Apr D-3	SAT 22 Apr D-2	SUN 23 Apr D-1	MON 24 Apr D	TUE 25 Apr D+1	WED 26 Apr D+2	THU 27 Apr D+3	FRI 28 Apr D+4	TUE 9 May D+7	WED 10 May D+8; D+30	THU 11 May D+31
Lead Agency														
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							



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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



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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



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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



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Exercise Locations



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Contact Information

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