Overview

Summary

The New York City Emergency Management Department (NYCEM) has plans and protocols in place to guide New York City's response to weather emergencies, including plans for winter weather, coastal storms, extreme heat, flash floods, and events causing power outages, damage to structures, and/or significant amounts of debris. The four key weather emergency plans include the Winter Weather Emergency Plan, Coastal Storm Plan, Heat Emergency Plan, and Flash Flood Emergency Plan. Each plan:

- Describes a coordinated, flexible response to the hazardous weather event
- Defines agency roles and responsibilities
- Guides agencies through key decisions and actions to mitigate effects on people, critical infrastructure, and City operations

Plan Activation Process

- NYCEM Watch Command tracks New York City weather conditions in real time in conjunction with the National Weather Service, 24 hours a day, seven days a week, and disseminates related hazard information to agencies.
- When a weather emergency meets one or more of the forecast triggers, NYCEM activates
 the relevant plan and convenes interagency steering committee conference calls to
 coordinate preparation for the event.
- NYCEM activates the Emergency Operations Center, when necessary, to prepare for and respond to weather emergencies.
- NYCEM provides public messaging through Notify NYC, NYCEM's website, and the NYC Severe Weather website, as well as social media, emails and calls to elected officials, private and non-profit partners and other means.
- When a weather emergency exhausts New York City's response resources, NYCEM will work
 with agencies to identify vendors that can provide appropriate resources or will request
 support from the state through the established mission request process.
- If conditions warrant, NYCEM may concurrently activate additional all-hazards and recovery plans and protocols.

Based on forecast triggers and interagency steering committee discussion, NYCEM may convene citywide coordination at one of the following levels:

Activation Levels

	Level	Coordination Center	Agencies	
	1	EOC (full)	NYCEM personnel, all interagency steering committee agencies, and additional subject matter experts and partners as needed	
	2	EOC (partial)	NYCEM personnel and a subset of interagency steering committee agencies	
3		Situation Room	NYCEM personnel and key interagency steering committee agencies	
	4	Watch Command	The City's EOC is always, at a minimum, at Level 4 activation. In modified Level 4 activations, EOC Team staff and agency representatives serve as an extension of Watch Command, as needed.	

Overview

	If resources are required beyond City assets and procurement, NYCEM will request assistance from NYS OEM through the following options (in order):			
	Mutual Aid Options	Description		
Mutual Aid	State-level or federal- level assets	NYS OEM coordinates requested resource through appropriate NYS or federal agencies		
Assistance	Intra-State Mutual Aid Program (IMAP)	Once an emergency is declared, NYS OEM requests assistance from participating local governments within New York State		
	Emergency Management Assistance Compact (EMAC)	After gubernatorial declaration of state of emergency, NYS OEM requests assistance from surrounding states		
Plan Development/ Maintenance Actions	I lead to the leading of the leading			
	 Updated agency alert triggers and thresholds 			

Winter Weather Emergency Plan

This document summarizes the weather emergency protocols that are contained within the NYC Winter Weather Emergency Plan (WWEP). Snowfall exceeding six inches High temperatures below 15°F for a 48-hour period Wind chill below 0°F **Triggers** Sustained winds exceeding 40 miles per hour Forecasted ice storms or freezing rain 311 Metropolitan Transportation Authority American Red Cross Metropolitan Transportation Authority Police Department Amtrak National Grid Community Affairs Unit National Weather Service Con Edison New Jersey Transit Department for the Aging New York City Emergency Management Department of Buildings Department Department of Citywide Administrative Services New York City Fire Department **Department of Corrections** New York City Housing Authority Department of Education New York City Office of Citywide Event Department of Environmental Protection Coordination and Management Department of Health and Mental Hygiene New York City Police Department Department of Homeless Services New York City Street Conditions Winter Department of Housing Preservation and Observation Unit (SCOUT) Weather Development New York State Unified Court System **Emergency** Department of Human Resources New York State Department of Health Steering Administration Committee New York State Department of Department of Information Technology and Transportation **Telecommunications** New York State Office of Emergency Department of Parks and Recreation Management Department of Sanitation Office of the Chief Medical Examiner Department of Transportation Port Authority of New York and New First Deputy Mayor's Office Jersey **Greater New York Hospital Association** Public Service Enterprise Group NYC Health + Hospitals Incorporated (PSEG) - Long Island Regional Emergency Medical Services Council **United States Coast Guard**

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Winter Weather Emergency Plan

	The following are WWEP strategies implemented by agencies and coordinated by NYCEM:			
	Operational Strategy	Agencies		
	Issue Alerts and Declarations	311, DCAS, DOE, DOHMH, DOITT, DSNY, DOT, FDNY, LAW, Mayor's Office, NYCEM, NYPD, OLR		
	Disseminate Public Information	311, DOITT, DSNY, Mayor's Office, NYCEM		
	Transportation Network Condition Assessment	311, DOT, DPR, DSNY, FDNY, MTA, NYCEM, SCOUT		
	Street and Facility Clearing	DOT, DPR, DSNY, MTA, PANYNJ		
Operational Strategies	Winter Weather Towing	DCAS, DOT DSNY, FDNY, MTA, NYCEM, NYPD		
	Transportation Network Operations and Suspensions	DOT, MTA, NYPD, NYS DOT, PANYNJ		
	No Heat/No Hot Water	311, CON ED, DOHMH, HPD, NATIONAL GRID, NYCHA, NYCEM		
	Respond to Electric Utility Issues	CON ED, PSEG-LI		
	Identify Public Health Conditions	311, ARC, CON ED, DHS, DFTA, DOE, DOHMH, Mayor's Office, FDNY, GNYHA, H+H, HPS, NATIONAL GRID, NYCEM, NYCHA, NYS DOH, PANYNJ, PSEG-LI		
	Homeless Outreach	311, DHS, DPR, DSNY, FDNY, MTA, NYPD, PANYNJ		

Winter Weather Emergency Plan

	The following represents the range of decisions and actions city agencies may initiate:			
	Action	Description		
	Issue hazardous weather advisory	Identifies weather-related hazards and advises the public to stay off roads, use public transportation, and exercise caution while driving.		
	Close schools or delay opening	Reduces number of children and parents using roadways.		
	Suspend alternate side parking and/or meter rules	Reduces number of people moving vehicles due to parking rules.		
Key Actions	Begin towing operations NYPD or entity designated by DOT may revehicles obstructing traffic or illegally particles.			
Ney Actions	Activate Tow Truck Task Force	Coordinated towing of stuck ambulances, buses, and other vehicles.		
	Issue Cold Weather Alert	Triggers increased outreach to vulnerable populations; issued automatically when overnight temperatures are forecast to fall below 32°.		
	Issue DSNY Snow Alert	DSNY operates normally and prepares for storm; issued when snow is predicted within 24-48 hours.		
	Issue NYCEM Travel Advisory and Hazardous Travel Advisory Increase hazard awareness for the public diminish numbers of vehicles on roadways			
	Issue weather emergency declaration include any of the actions listed above nece protect public safety.			
	NYCEM activated the Winter Weather Emergency Plan five times during the reporting period of November 15, 2016 to November 14, 2017:			
Plan Activations	December 15, 2016 January 7, 2017* March 13, 2017*	February 9, 2017* February 12, 2017		
	* Snow event with snowfall equal to or in excess of six inches within a period of 24 hours; reportable in the 2017 Interagency Snow Preparedness and Response Report (Local Law 26/2011)			

Coastal Storm Plan

This document summarizes the weather emergency protocols that are contained within the NYC Coastal Storm Plan (CSP).				
Trigger	National Weather Service forecasts a coastal storm making landfall north of North Carolina with potential impacts to New York City.			
Coastal Storm Steering Committee	 Amtrak American Red Cross Community Affairs Unit Con Edison CUNY Department of Buildings Department of Corrections Department of Design and Construction Department of Education Department of Environmental Protection Department of Health and Mental Hygiene Department of Housing Preservation and Development Department of Human Resources Administration Department of Information Technology and Telecommunications Department of Sanitation Department of Small Business Services Department of Transportation Federal Emergency Management Agency Greater New York Health Care Facilities Association Mayor's Office Mayor's Office of Contract Services Mayor's Office of Intergovernmental Affairs Mayor's Office of Recovery & Resiliency Metropolitan Transportation Authority MTA Police Department 	 National Grid National Parks Service National Weather Service NYC Health + Hospitals NYC Service New Jersey Transit New York City Emergency Management Department New York City Fire Department New York City Housing Authority New York City Law Department New York City Office of Citywide Event Coordination and Management New York City Office of Labor Relations New York City Police Department New York Racing Association New York State Department of Health New York State Department of Transportation New York State Office of Emergency Management Office of the Chief Medical Examiner Office of Management and Budget Port Authority of New York and New Jersey Public Service Enterprise Group Incorporated (PSEG) – Long Island Regional Emergency Medical Services Council Taxi and Limousine Commission Transportation Operations Coordinating Committee (TRANSCOM) United States Coast Guard U.S. Department of Health and Human Services Verizon 		

Coastal Storm Plan

The following functional plans comprise the NYC Coastal Storm Plan. Each document is a standalone plan implemented by agencies and coordinated by NYCEM:

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	Coastal Storm Functional Plan	Description		
	Activation Playbook	Provides a summary view of the plan and includes a series of timelines designed to guide decision-makers through the actions needed to activate and implement the numerous operations that constitute the citywide response.		
	Advance Warning System*	Pushes targeted emergency information to individuals with special needs during emergencies.		
	Evacuation	Describes the systems, processes, and procedures to evacuate the general atrisk population from areas of the City that will be inundated with storm surge to safer areas prior to the predicted Zero hour.		
Operational Strategies	Healthcare Facility Evacuation	Describes a coordinated operation to evacuate at-risk healthcare facilities in evacuation zones to like facilities on higher ground.		
J	Sheltering	Explains the procedures to activate and manage a disaster sheltering system for New Yorkers and visitors who are unable to find alternative shelter outside of storm surge areas.		
	Logistics*	Outlines the basic activities and timelines needed to effectively implement shelter system support and post-storm commodities distribution operations.		
	Public Information*	Outlines steps for City public information efforts before, during, and after a coastal storm.		
	Recovery and Restoration	Addresses post-storm recovery and restoration activities including: declaration and reimbursement management, initial response and re-entry, damage and needs assessment, essential services restoration, reconstruction coordination, human services.		
	Debris Management Plan*	Provides organizational structure, guidance and standardized procedures for debris clearance, removal, storage, and disposal.		
* All-Hazards plans not limited to Coastal Storm activations.				

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Coastal Storm Plan

	The following represents the range of decisions and actions city agencies may initiate:			
	Action	Description		
	Issue recommended evacuation	Issued when risks do not warrant an evacuation order; may target specific areas, facilities, or populations.		
	Issue ordered evacuation	Issued under authority of executive law; empowers the mayor to make emergency orders to protect life and property.		
Key Actions	Suspend alternate side parking and/or meter rules	Reduces the number of people moving vehicles due to parking rules.		
	Issue recommended/ordered cessation of non- essential services	Allows citywide resources to be directed toward response operations, especially in specific areas or facilities.		
	Open shelters	Allows voluntary evacuation as a response to a localized threat or supports a mandatory evacuation.		
	Issue weather emergency declaration	A mayoral weather emergency declaration may include any of the actions listed above necessary to protect public safety.		
Plan	NYCEM activated the Coastal Storm Plan one time during the reporting period of No. 15, 2016 to November 14, 2017:			
Activations	September 15, 2017 Hurricanes Jose and Maria			

Heat Emergency Plan

This document summarizes the weather emergency protocols that are contained within the NYC *Heat Emergency Plan* (HEP).

Triggers

Heat

Emergency

Steering

Committee

Heat Emergency Plan Activation Criteria:

- Predicted Heat Index of 100° F or higher for one day or more
- Predicted Heat Index of 95° F or higher for two consecutive days or more

In addition to *Heat Emergency Plan* activation criteria, the following triggers for excessive heat considerations include:

- Predicted Heat Index of 105° F for any duration, or
- Predicted Heat Index of 95° F for four days or more
- 311
- American Red Cross
- Community Affairs Unit
- Con Edison
- Department of Buildings
- Department of Citywide Administrative Services
- Department of Corrections
- Department of Design and Construction
- Department of Environmental Protection
- Department of Youth and Community Development
- Department for the Aging
- Department of Education
- Department of Health and Mental Hygiene
- Department of Homeless Services
- Department of Housing Preservation and Development
- Department of Human Resources Administration
- Department of Information Technology and Telecommunications
- Department of Parks and Recreation
- Department of Sanitation
- Department of Transportation
- Deputy Mayor's Office

- Economic Development Corporation
- Greater New York Hospital Association
- NYC Health + Hospitals National Grid
- Mayor's Office for People with Disabilities
- Metropolitan Transportation Authority
- National Weather Service
- New York 811
- New York City Emergency Management Department
- New York City Fire Department
- New York City Housing Authority
- New York City Police Department
- New York Power Authority
- New York State Department of Health
- New York State Office of Emergency Management
- Office of the Chief Medical Examiner
- Office of Citywide Event Coordination and Management
- Port Authority of New York and New Jersey
- Public Service Enterprise Group Incorporated (PSEG) – Long Island
- Regional Emergency Medical Services Council
- Salvation Army
- Verizon

Heat Emergency Plan

	tional Grid, H, OPWDD, DFTA, DOE, Y Public			
Advance Warning System District 75, DOHMH, ESRD, HBCA, H+H, HRA, Nat MOPD, MTA, NYCEM, NYCHA, NYS DOH, NYS OME PSEG – LI, SA, VA 311, ARC, Brooklyn Public Library, CERT, CUNY, DOITT, DPR, HRA, MTA, NYCEM, NYCHA, NYPD, NY Library, Queens Library, SA Homeless Outreach Excavation Safety Alert Spray Cap Program DEP, FDNY, NYPD The following represents the range of decisions and actions city agencies may initiate: Action Description Provide advance information about forecasted weather,	tional Grid, H, OPWDD, DFTA, DOE, Y Public			
Cooling Centers Coolin	Y Public			
Excavation Safety Alert Con Ed, DDC, DEP, DOT, DPR, National Grid, MTA 811, PSEG – LI, Verizon Spray Cap Program DEP, FDNY, NYPD The following represents the range of decisions and actions city agencies may initiate: Action Description Provide advance information about forecasted weather,	, NYCEM, NY			
Spray Cap Program DEP, FDNY, NYPD The following represents the range of decisions and actions city agencies may initiate: Action Description Provide advance information about forecasted weather,	, NYCEM, NY			
The following represents the range of decisions and actions city agencies may initiate: Action Description Provide advance information about forecasted weather,				
Action Description Provide advance information about forecasted weather,				
Provide advance information about forecasted weather,	The following represents the range of decisions and actions city agencies may initiate:			
	rovide advance information about forecasted weather, potential azards of heat, health information, and the availability of resources uch as cooling centers to NYC agencies and organizations whose lients consist of special needs populations.			
Open cooling centers Protocol for opening free air-conditioned facilities (e.g., centers, libraries, community centers) to the public.	Protocol for opening free air-conditioned facilities (e.g., senior centers, libraries, community centers) to the public.			
	Increase outreach efforts and monitoring of homeless persons to determine need for further protection from heat exposure.			
	Provide guidance to contractors on enhanced protective measures to excavate safely around underground critical facilities.			
Implement chray can program	Distribute fire hydrant spray caps to the public to provide relief from the heat and minimize impact to municipal water supply pressure.			
Issue heat-related information to the public Communicate information about heat safety and power conservation tips to the public.	Communicate information about heat safety and power conservation tips to the public.			
Issue weather emergency declaration may include actions listed above necessary to protect public safety.	nayoral weather emergency declaration may include any of the cions listed above necessary to protect public safety.			
NYCEM activated the <i>Heat Emergency Plan</i> three times during the reporting period November 15, 2016 to November 14, 2017:	d of			
Activations July 12, 2017 July 19, 2017 August 21, 2017	y 12, 2017 July 19, 2017 August 21, 2017			

Flash Flood Emergency Plan

	summarizes the weather emergency ergency Plan (FFEP).	protocols and prod	cedures that are con	tained within the NYC	
Trigger	Rainfall rate of one inch per hour for the duration of 60 minutes or longer				
Flash Flood Conference Call Agencies	 311 CAU City Hall Con Edison Department of Environmental I Department of Buildings Department of Information Tector Telecommunications Department of Parks and Recre Department of Sanitation Department of Transportation 	hnology and	 National Grid Metropolitan Transportation Authority National Weather Service New York City Emergency Management Department New York City Fire Department New York City Police Department Port Authority of New York and New Jersey Public Service Enterprise Group Incorporated (PSEG) – Long Island Verizon 		
Operational Strategies	The following are FFEP strategies in Operational Strategy Targeted Cleaning and Maintenance Monitoring and Response Recovery Assistance	DEP, FDNY, NYPD, DOT, NYCEM ARC, CAU, DEP, DOHMH, DHS, HRA, DoITT, NYCEM			
	The following represents the range of decisions and actions city agencies may initiate: Action Description				
	Commence targeted cleaning and maintenance operations		City agencies deploy personnel to designated recurring flooding locations to clear streets and catch basins of debris.		
Key Actions	Monitor recurring flood locations	City agencies and volunteers provide targeted monitoring of recurring flood locations to improve response during a flood event and to help direct recovery efforts.			
,	Begin dewatering operations	FDNY provides dewatering equipment and personnel to support flood response at critical streets and intersections.			
	Provide recovery assistance	City agencies provide services and distribute appropriate recovery resources to affected residents through reception centers or Disaster Assistance Service Centers (DASC).			
	Issue weather emergency declaration	A mayoral weather emergency declaration may include any of the actions listed above necessary to protect public safety.			
Plan	NYCEM activated the Flash Flo November 15, 2016 to Novem	d Emergency Plan eight times during the reporting period of er 14, 2017:			
Activations	January 22, 2017 July 18, 2		y 21, 2017	August 18, 2017	
	September 18, 2017 October 6, 2017		tober 22, 2017	October 27, 2017	