

# **NEW YORK STATE COMPREHENSIVE EMERGENCY MANAGEMENT PLAN**

## **Volume 1: New York State Hazard Mitigation Plan**



**Disaster Preparedness  
Commission**

### **Annex for Non-Natural Hazards**

**PREPARED BY THE NEW YORK STATE  
DIVISION OF HOMELAND SECURITY AND  
EMERGENCY SERVICES**

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# **New York State Comprehensive Emergency Management Plan**

## **Annex to Volume 1: New York State Hazard Mitigation Plan**

The New York State Hazard Mitigation Plan (SHMP) has been approved by FEMA December 2018 and is a document that identifies and evaluates risks and vulnerabilities associated with natural hazards and resulting disasters. This document will be used as an annex to the SHMP and will address non-natural hazards.

### **1. Mitigation**

Volume 1 of the State Comprehensive Emergency Management Plan is the State Multi-Hazard Mitigation Plan. Pursuant to the requirements of 44 CFR 201.4, the State Multi-Hazard Mitigation Plan is required to focus on natural hazards that are likely to substantially impact the State. Volume 1 addresses the overall State hazard mitigation planning process, risk assessment, strategy development, and plan maintenance. The State Multi-Hazard Mitigation Plan was Federally approved by DHS/FEMA in 2018. Each county has a FEMA approved hazard mitigation plan, pursuant to the requirements of NYS Executive Law Article 2B-§ 23-7A. Mitigation planning efforts for technological and human-caused hazards are not recognized in Volume 1. The threats and hazards facing New York are evolving and require a forward-thinking approach to our preparedness and response efforts.

### **2. Planning/Risk Assessment**

A variety of mechanisms are used to understand the various risks and associated threats and hazards facing the State. As required by the Homeland Security Grant Program (HSGP) and the National Preparedness Goal, the State must complete an annual Threat Hazard Identification Risk Assessment (THIRA). The process involves the identification of scenarios that will most stress the State's capabilities and an assessment of those capabilities. Those capabilities are mapped to the core capabilities in each of the ESF Annexes created under the State Comprehensive Emergency Management Plan. Further, New York State has developed additional programs and methodologies to better understand risk at the local level. This includes a County Emergency Preparedness Assessment (CEPA), which the State has conducted in each of the 57 counties of New York and New York City. Counties also participate in their own CEPA to help understand their risks. CEPA provides great insight as to the State's risk profile from a local-level perspective.

This document will outline the strategies, goals, objectives and actions of State agencies in terms of mitigation of non-natural hazards both in the interim- and long-term. The elements are linked, in whole or in part, to the State Preparedness report and the State Homeland Security Strategy.

### **3. Annex Maintenance**

This annex will be reviewed and updated every 5 years along with the NYS Hazard Mitigation Plan. Updates will be conducted based upon the evaluation of goals and objectives, as well as an analysis of the State's capabilities.

#### 4. Applicable Hazards

The following list of hazards is from the Hazard Analysis Report, State Homeland Security Strategy, and NYS Hazard Mitigation Plan. The goals and objectives in this document are applicable to all hazards in the table below:

Rank	Hazard	Rank	Hazard
1	Cyber Attack on Critical Infrastructure	22	Hazardous Materials Release - Fixed Site
2	Flood	23	Extreme Temperatures (Heat/Cold)
3	Complex Coordinated Terrorist Attack	24	Severe Storms
4	Improvised Explosive Device (IED)	25	Tornado
5	Vehicle-Born IED	26	Active Shooter
6	Severe Winter Storm	27	Biological Agent Release
7	Epidemic	28	Animal Disease
8	Coastal Storm Surge	29	Major Fire
9	Earthquake	30	Major Transportation Accident
10	Hurricane/Coastal Storm	31	Lightning
11	Dam Failure	32	Vehicle Ramming Attack
12	Pandemic	33	Tsunami/Seiche
13	Critical Infrastructure Failure	34	Coastal Erosion/Sea Level Rise
14	Drone (UAS) Attack	35	Hail
15	Food Contamination	36	Wildfire
16	Wind	37	Sustained Power Outage
17	Improvised Nuclear Device (IND)	38	Radiological Dispersal Device (RDD)
18	Ice Storm	39	Drought
19	Civil Unrest	40	Avalanche
20	Hazardous Materials Release - In-Transit	41	Landslide
21	Radiological Release - Fixed Site	42	Volcano

#### 5. Statutory Regulations

The authority to implement specific hazard mitigation goals can be found in New York State Law, regulations, and Federal authorities including NYS Executive Law Article 2B, as well as a Congressional mandate to do a risk assessment to help FEMA produce the National Preparedness Report.

#### 6. Documentation of progress

Progress of the mitigation activities will be captured in the Threat Hazards Identification Risk Assessment (THIRA), State Preparedness Report (SPR), and the State Emergency Preparedness Assessment (SEPA), which are updated every three years. The documentation will also be captured in this annex.

#### 7. Technical Support

New York State supplies technical support for non-natural hazard mitigation through a variety of venues such as grants assistance, planning support, school emergency mapping, training programs (both at the State Preparedness Training Center and at local municipalities), intelligence gathering, enhanced crude oil inspections, Counter Terrorism Zone (CTZ) assessments, and infrastructure hardening. This is not a complete list, but just a snapshot into the work being done around the State.

## 8. Repetitive Loss

Repetitive loss is not readily trackable with non-natural hazard mitigation. Incidents are sporadic and occur at different locations across the State and generally don't occur in the same locations multiple times. For this reason, there is no definitive way to track repetitive loss. Some events are tracked for security reasons, such as cyber events or potential threats. For natural hazards, repetitive loss and severe repetitive loss can be found in the NYS Hazard Mitigation Plan.

## 9. Goals

The following is a list of goals and objectives that are ranked in order of priority and are applicable for all hazards listed in the NYS Hazard Analysis Report, State Homeland Security Strategy, and NYS Hazard Mitigation Plan.

**Goal 1: Strengthen Intelligence and Information-Sharing Capabilities** through collaborative partnerships with Federal, State, local, and private sector stakeholders, intelligence and information-sharing capabilities will be strengthened to better protect against and respond to terrorist threats, both foreign and domestic, and other incidents, such as active shooter situations.

### Interim-Term Strategies and Objectives:

- Objective 1: Encourage public vigilance through “*See Something, Say Something*,” “*See Something, Send Something*,” and any other Suspicious Activity Reporting (SAR) programs.
- Objective 2: Ensure robust intelligence reporting by State and local law enforcement and first responders through the Field Intelligence Officer (FIO) and Intelligence Liaison Officer (ILO) programs and Crime Analysis Center programs respectively.
- Objective 3: Provide both unclassified and classified intelligence briefings to appropriate law enforcement officials, first responders, and other key stakeholders.
- Objective 4: Test intelligence and information sharing capabilities through the use of training and exercises.
- Objective 5: Expand outreach efforts and knowledge share beyond traditional law enforcement and intelligence communities to include first responders (including the Fire Service and Emergency Managers) and the private sector.

### Long-Term Strategies and Objectives:

- Objective 6: Collect, analyze, and appropriately disseminate written intelligence products on current and emerging threats for law enforcement, the intelligence community, and executive stakeholders.
- Objective 7: Foster greater information sharing through the state-sponsored Crime Analysis Centers, development of formalized plans and protocols in coordination with recognized Fusion Centers.
- Objective 8: Utilize technological systems to empower wide spread information sharing between Federal, State, local, and international partners.
- Objective 9: Facilitate security clearances for personnel whose duties require access to classified information.
- Objective 10: Ensure the New York State Intelligence Center (NYSIC) meets baseline capabilities for fusion centers, including the presence of a privacy policy.

**Goal 2: Strengthen Counter-Terrorism and Law Enforcement Capabilities** by continuing to improve counter- terrorism operations and partnerships across New York State and by building specialized capabilities to address threats and acts of terrorism.

**Interim-Term Strategies and Objectives:**

- Objective 1: Continue support for the State’s Bomb Squads and Explosive Detection Canine Teams to further enhance Improvised Explosive Device (IED) prevention and response efforts.
- Objective 2: Enhance existing efforts to support the State’s Tactical Teams, through capability assessments and the acquisition of equipment and training to meet State standards.
- Objective 3: Continue initiatives to detect and curtail the use of fraudulent documents.
- Objective 4: Continue Operation Safeguard outreach from law enforcement to the public and private sector facilities on the indicators of terrorism.
- Objective 5: Conduct counter-terrorism training for law enforcement officials and other personnel on current and emerging threats and tactics.
- Objective 6: Improve security at the Northern Border through intelligence-driven operations, implementation of the State’s Northern Border Security Strategy, and the continuation of related local, State, federal, and tribal partnerships.

**Long-Term Strategies and Objectives:**

- Objective 7: Equip, train, exercise and otherwise support other specialized law enforcement response teams, such as Public Safety Dive Teams, Contaminated Crime Scene Emergency Response Teams (CCSERTs), Commercial Vehicle Enforcement Units (CVEUs), and Forensic Identification Units.
- Objective 8: Ensure coordination of federal, state, and local law enforcement investigations through the Counter-Terrorism Zones (CTZs), Joint Terrorism Task Forces (JTTFs) and other related structures.
- Objective 9: Build law enforcement counter-terrorism capabilities through the purchase and sustainment of specialized equipment and technology, including License Plate Readers (LPRs), Facial Recognition, Social Media Review, Mobile Data Terminals (MDTs), and law enforcement surveillance and information sharing systems.
- Objective 10: Test security measures through the use of “Red Teams” and other related exercises.
- Objective 11: Ensure resources are in place to train for, recognize, respond, and investigate emerging threats, such as the use of small arms, knives, vehicle-ramming, and fire as a weapon.
- Objective 12: Enhance multi-disciplinary preparedness and response capabilities to address Active Shooter Events.

**Goal 3: Protect Critical Infrastructure and Key Resources (CIKR)** based on a systematic process of identifying and cataloging infrastructure, conducting site visits and risk assessments, investing in target hardening projects, and providing additional protective and mitigation measures based on the current threat environment this goal will be reached.

**Interim-Term Strategies and Objectives:**

- Objective 1: Continue identifying and cataloging CIKR site information.
- Objective 2: Work with local, State, and Federal agencies and private entities to conduct critical infrastructure site visits.

- Objective 3: Continue surge deployments of personnel at critical locations and mass gathering sites in accordance with the threat environment, such as Task Force Empire Shield and Transit Operational Response Canine Heavy (TORCH) weapons teams in the New York City metropolitan area.

#### Long-Term Strategies and Objectives:

- Objective 4: Conduct outreach to critical infrastructure owners and operators to support protection and emergency response efforts.
- Objective 5: Assess and analyze threats, vulnerabilities, and consequences of critical locations through the completion of risk assessments.
- Objective 6: Implement physical security enhancements and target hardening activities to reduce identified risk at critical infrastructure locations, including emergency service and public safety facilities.
- Objective 7: Leverage the use of technological platforms and database applications, such as Geospatial Information Systems (GIS) and risk-based modeling software, to support CIKR analysis.
- Objective 8: Promote, enhance and execute safety efforts at schools, universities and other special hazard occupancies in New York State, both directly and in conjunction with local public safety agencies.
- Objective 9: Provide terrorism and security awareness training at critical transportation hubs and other key infrastructure locations.

**Goal 4: Enhance Cyber Security Capabilities** through outreach and education as well as implementing programs and policies to identify, prevent, protect against, detect, respond to, and recover from cyber-attacks or other major cyber incidents in collaboration with key partners and stakeholders.

#### Interim-Term Strategies and Objectives:

- Objective 1: Enhance cyber security awareness through outreach and education efforts to relevant stakeholders.
- Objective 2: Ensure New York State has a sustainable cyber workforce through improved workforce development and succession planning efforts.
- Objective 3: Incorporate cyber security into exercises to build and test capabilities.
- Objective 4: Expand partnerships with Federal, other state, local governments, private sector, non-governmental organizations, and academia to foster situational awareness and advance cyber security efforts in New York State.
- Objective 5: Strengthen networking infrastructure by upgrading outdated infrastructure and introducing new technologies that vastly improve security within State and local government agencies.

#### Long-Term Strategies and Objectives:

- Objective 6: Conduct, support, and attend relevant cyber security trainings to improve technical capabilities.
- Objective 7: Conduct cyber risk assessments and other efforts to examine threats, vulnerabilities, and consequences in accordance with relevant standards (e.g., National Institute of Standards and Technology).
- Objective 8: Analyze cyber threats and conduct forensic cyber investigations.
- Objective 9: Develop and disseminate cyber security alerts and advisories to relevant stakeholders.



- Objective 10: Implement, maintain, and update cyber security governance frameworks, policies and standards for NYS government entities, and monitor compliance.
- Objective 11: Incorporate cyber security into exercises to build and test capabilities.

**Goal 5: Enhance Citizen and Community Preparedness Capabilities** by better preparing New York State’s citizens and communities for disasters and other emergencies, including the ability to sustain themselves for seven to ten days after an event and to assist their neighborhoods in the aftermath of a disaster.

**Interim-Term Strategies and Objectives:**

- Objective 1: Maintain a statewide citizen preparedness training program to educate New Yorkers on how to prepare themselves, their families, and their neighbors for disasters.
- Objective 2: Conduct annual citizen preparedness surveys to gauge the preparedness levels of New Yorkers.
- Objective 3: Enhance efforts to understand and mitigate the psychological impacts that emergencies have on both first responders and the general public.
- Objective 4: Enhance surge and mass care sheltering capacity through partnerships with community organizations and other entities.

**Long-Term Strategies and Objectives:**

- Objective 5: Engage in various formal citizen preparedness campaigns that utilizes both traditional and new forms of outreach.
- Objective 6: Integrate community and non-profit organizations into disaster preparedness and response efforts.
- Objective 7: Ensure that the needs of vulnerable populations in communities are integrated into disaster preparedness and response efforts.
- Objective 8: Identify and develop community preparedness groups, including Citizen Corps Councils, Community Emergency Response Teams, and Medical Reserve Corps.
- Objective 9: Establish and maintain a system(s) to accept/receive/distribute donations of food, supplies, and other goods and services in the event of a disaster.
- Objective 10: Establish, promote and integrate programs to engage younger populations regarding disaster preparedness and safety.

**Goal 6: Enhance Emergency Management and Response Capabilities** through the implementation of a proactive posture to prepare for and respond to emergencies quickly and effectively.

**Interim-Term Strategies and Objectives:**

- Objective 1: Maintain a proactive regional response posture through the enhancement and deployment of regional response capabilities, such as regional personnel and teams as well as assets from the State’s Regional Stockpile locations.
- Objective 2: Participate in formal Mutual Aid Agreements such as the Intrastate Mutual Aid Program (IMAP), Fire Mobilization and Mutual Aid Plan, and the Emergency Management Assistance Compact (EMAC).
- Objective 3: Maintain specialized training for emergency response stakeholders, including first responders, emergency managers, elected officials, etc., and offer state-of-the-art multidisciplinary training facilities such as the State Preparedness Training Center and the State Fire Academy.
- Objective 4: Promote the advancement of the emergency management profession through official accreditation programs such as the Emergency Management

Accreditation Program (EMAP) and the New York Emergency Management Accreditation Program.

- Objective 5: Maintain support for the completion of standardized threat and hazard assessments at the State and county level and a statewide system to assess state and local emergency preparedness capabilities.
- Objective 6: Strengthen alert and warning capabilities through enhanced participation in emergency notification systems such as NY Alert and IPAWS.

Long-Term Strategies and Objectives:

- Objective 7: Work with state and local emergency preparedness stakeholders to develop and maintain a wide variety of preparedness and response plans, to include Comprehensive Emergency Management Plans (CEMPs) and relevant annexes.
- Objective 8: Build and maintain State, regional, and local response capabilities needed to save lives, reduce suffering, and protect property.
- Objective 9: Build and maintain specialty response team capabilities to augment emergency response efforts, such as the Incident Management Team (IMT) and Technical Rescue Teams.
- Objective 10: Coordinate disaster response activities with the use and enhancement of New York Responds.
- Objective 11: Leverage new and emerging technology, to include Unmanned Aircraft Systems (UAS) to enhance emergency response capabilities.

### **Goal 7: Strengthen CBRNE Preparedness and Response Capabilities**

preparedness and response capabilities by attaining equipment, training, and resources necessary for first responders to detect, interdict, and respond to incidents that include CBRNE materials.

Interim-Term Strategies and Objectives:

- Objective 1: Ensure CBRNE response plans, including county and New York City Hazardous Material Plans, are updated regularly and include planning for catastrophic events that overwhelm statewide capabilities.
- Objective 2: Conduct exercises to test CBRNE plans, procedures, and response protocols.
- Objective 3: Maintain and support HazMat regional partnerships in New York State.
- Objective 4: Ensure that all regional HazMat partnerships undertake a self- assessment of team capabilities annually, as part of the HazMat Accreditation Program.
- Objective 5: Enhance capacity for decontamination, both on-scene and at secondary locations (such as hospitals), including triage, medical management, antidote administration and care of non-ambulatory and ambulatory contaminated patients.
- Objective 6: Improve statewide capability to respond to rail emergencies involving ignitable liquids (e.g., crude oil, ethanol, etc.).

Long-Term Strategies and Objectives:

- Objective 7: Based on capability analyses, identify, purchase, and maintain equipment for responders to safely detect, identify, and respond to CBRNE events.
- Objective 8: Identify training shortfalls and conduct training to ensure first responders have the knowledge, skills, and abilities to recognize and safely respond to a CBRNE event.

- Objective 9: Enhance radiological detection capabilities, to include wirelessly mapping radiological readings and utilizing environmental surveillance equipment, through continued participation in the “Secure the Cities” initiative and other related efforts.
- Objective 10: Ensure off-site preparedness activities in areas surrounding nuclear sites in New York State.
- Objective 11: Develop and maintain a statewide capability to monitor and assess environmental health impacts of a CBRNE event.

### **Goal 8: Advance Interoperable and Emergency Communications Capabilities**

through the efficient utilization and development of communication resources and procedures to ensure that first responders can effectively communicate with each other during a major incident in order to protect lives and property.

#### Interim-Term Strategies and Objectives:

- Objective 1: Maintain the State Communications Interoperability Plan (SCIP).
- Objective 2: Develop and maintain a Statewide Field Operations Guide (FOG) and distribute among communication specialists and first responders.
- Objective 3: Conduct multi-jurisdictional, multi-disciplinary communications training and exercises to evaluate interoperability.
- Objective 4: Implement the State and local Implementation Grant Program, which further advances development of the public safety broadband network (FirstNet).
- Objective 5: Enhance mobile, back-up and/or redundant communications capabilities.

#### Long-Term Strategies and Objectives:

- Objective 6: Develop and maintain communications Standard Operating Procedures (SOPs) that are integrated with the National Incident Management System (NIMS)
- Objective 7: Develop and maintain governance structures for interoperability that are consistent with the Statewide Communications Interoperability Plan (SCIP)
- Objective 8: Conduct communications asset surveys and needs assessments with all New York State counties to improve interoperable communications planning
- Objective 9: Develop and implement Statewide Public Safety Network Common Internet Protocol (NCIP) for communication systems
- Objective 10: Assure deployment of open standards--based technologies (e.g., P--25 for digital systems) to ensure interoperability
- Objective 11: Provide communications leadership and technical training to improve communications planning and execution
- Objective 12: Develop and implement Next Generation 911 (NG911) statewide

**Goal 9: Support Health Emergency Preparedness** by readying the State and local communities to distribute medical assistance on a large scale and supporting the ability of the healthcare community to surge bed capacity and other resources in the event of a large numbers of sick or injured people during any incident.

#### Interim-Term Strategies and Objectives:

- Objective 1: Enhance local, regional, State, and Federal cross-disciplinary planning efforts to prepare for and respond to a health emergency
- Objective 2: Maintain laboratory capability and capacity for the detection of CBRNE agents
- Objective 3: Support public health surveillance capabilities to more effectively deter and monitor outbreaks of disease

- Objective 4: Enhance medical emergency response capabilities including medical triage, decontamination, COOP and surge capabilities at healthcare facilities
- Objective 5: Enhance mass fatality management capabilities statewide
- Objective 6: Expand health emergency preparedness through training and exercise efforts across the State
- Objective 7: Maintain a patient tracking system statewide

#### Long-Term Strategies and Objectives:

- Objective 8: Advance triage and pre-hospital treatment capabilities, including medical triage, decontamination, and the administration of countermeasures, through support and personal protective measures for Emergency Medical Service (EMS) providers
- Objective 9: Ensure the availability, viability, and access to mass prophylaxis and other medical countermeasures statewide

**Goal 10: Become More Resilient Against Future Events** through resiliency planning and by developing long term recovery capabilities, mitigation initiatives, and other efforts to ensure the continuity of critical systems during a crisis.

#### Interim-Term Strategies and Objectives:

- Objective 1: Provide training and exercises aimed at enhancing disaster recovery and resiliency efforts
- Objective 2: Support the case management needs of New Yorkers, in conjunction with FEMA, the Human Needs Task Force, State and local governments, and Volunteer Organizations Active in Disasters
- Objective 3: Advance Continuity of Operations (COOP) and Continuity of Government (COG) planning to ensure seamless operations after a major disaster occurs
- Objective 4: Enhance use of data to inform risk, policy decisions, and develop best practice/lessons learned

#### Long-Term Strategies and Objectives:

- Objective 5: Develop and maintain disaster recovery plans, to include individual assistance resource-based plans as well as long term recovery plans, in communities impacted by major disasters
- Objective 6: Create or leverage disaster recovery committees in communities impacted by major disasters
- Objective 7: Identify, administer, and ensure the integration of disaster recovery programs/projects
- Objective 8: Develop and maintain capabilities to restore critical services (e.g., power, utilities, fuel) to communities as soon as possible post disaster
- Objective 9: Develop and maintain State and regional hazard mitigation plans to help reduce the impact of future disasters
- Objective 10: Proactively identify opportunities to increase resiliency through smarter building codes, urban planning, and other associated infrastructure improvements