



Indian Point Energy Center After Action Report

Exercise Date – September 25, 2018
Radiological Emergency Preparedness (REP) Program



FEMA

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After Action Report/Improvement Plan

Published – May 6, 2019

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EXECUTIVE SUMMARY

On September 25, 2018 an exercise was conducted in the plume exposure pathway emergency planning zone (EPZ) around the Indian Point Energy Center (IPEC). The exercise was evaluated by the Department of Homeland Security, Federal Emergency Management Agency (DHS/FEMA) Region II. The purpose of the exercise was to demonstrate and assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with FEMA's policies and guidance concerning the exercise of State and local radiological emergency response plans and procedures.

The most recent previous federally - evaluated exercise at this site was conducted on June 28-30, 2016. The qualifying emergency preparedness exercise for Indian Point Energy Center was conducted on March 3, 1982.

FEMA wishes to acknowledge the efforts of the many individuals in the State of New York, Westchester County, Orange County, Putnam County, Rockland County, and Bergen County, New Jersey who participated in this exercise.

This report contains the evaluation of the biennial exercise and of the following out-of- sequence activities in Orange, Putnam, Rockland and Westchester counties: Day Cares and School Interviews; Emergency Worker Decontamination Centers; General and Special Population Bus Companies; School Bus Companies; Traffic Control Points; and Medical Services Drills.

The State and local organizations, except where noted in this report, satisfactorily demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Level 1 Findings. Two Level Two Findings were identified and resolved by re-demonstration.

SECTION 1: EXERCISE OVERVIEW

1.1 Exercise Details

Exercise Name

Indian Point Energy Center

Type of Exercise

Plume

Exercise Date

September 25, 2018

Program

Department of Homeland Security/FEMA
Radiological Emergency Preparedness Program

Scenario Type

Radiological Emergency

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

State Jurisdictions

Boards of Cooperative Educational Services
New York City Department of Environmental Protection
New York National Guard 105th Airlift Wing
New York State Department of State
New York State Department of Agriculture and Markets
New York State Department of Environmental Conservation
New York State Department of Health
New York State Department of Health, Radiological
New York State Department of Labor
New York State Department of Transportation
New York State Department of Corrections and Community Supervision
New York State Division of Criminal Justice Services
New York State Division of Homeland Security and Emergency Services
New York State Division of Homes and Community Renewal
New York State Division of Military and Naval Affairs
New York State Department of Education
New York State Energy Research and Development Authority
New York State Office for People with Developmental Disabilities
New York State Office of Children and Family Services
New York State Office of Counter Terrorism
New York State Office of Emergency Management
New York State Office of Fire Prevention and Control
New York State Office of General Services
New York State Office of Information Technology Services
New York State Office of Mental Health
New York State Office of Victim Services
New York State Office for People with Developmental Disabilities
New York State Park Police
New York State Police
New York State Public Service Commission
New York State Department of Taxation and Finance Home
New York State Homes and Community Renewal
New York State Office for the Aging
New York State Parks Recreation and Historic Preservation
New York State Bridge Authority
New York State Thruway Authority
New York State Metropolitan Transportation Authority
Port Authority of the State of New York and New Jersey
New Jersey Office of Emergency Management
New Jersey State Police

Risk Jurisdictions

Orange County Executive's Office
Orange County Department of Emergency Services
Orange County Division of Emergency Management
Orange County Division of Fire Prevention and Control
Orange County EMS
Orange County Emergency Communications
Orange County Sheriff's Office
Orange County BOCES
Orange County Dept. of Budget and Finance
Orange County Dept. of Public Works
Orange County GIS
Orange County Human Resources
Orange County Office of Mental Health
Orange County Public Health
Orange County RACES
Orange County Social Services
Orange County Valley View
Orange County Veterans Affairs
Orange County Youth Bureau
American Red Cross
George M. Carroll Bus Company
Maybrook Fire Department
Monroe-Woodbury Bus Company
New Paltz Institute for Disaster Mental Health
New York State Ag & Markets
New York State Police
St. Luke's Cornwall Hospital
Town of Montgomery Ambulance Corps
Town of Montgomery Fire Department
United States Military Academy at West Point
Valley Central High School
Village of Walden Fire Department
Putnam County Bureau of Emergency Services
Putnam County Health Department
Putnam County Highway Department
Putnam County Office of Senior Resources
Putnam County Sheriff's Department
Putnam County Social Services
Putnam County IT/GIS
Putnam County Department of Personnel
Putnam County Finance
Putnam County Dept. of Planning, Development and Public Transportation
Cornell Cooperative Extension of Putnam County
Putnam / Northern Westchester BOCES

Radio Amateur Civil Emergency Services (RACES)
NYS Office of Emergency Management
New York State Police
NYS Department of Transportation
American Red Cross
Local Police
Rockland County Office of County Executive
Rockland County Department of Health
Rockland County Department of Mental Health
Rockland County Department of Environmental Health
Rockland County Department of Social Services
Rockland County Emergency Medical Services
Rockland County Geographic Information Systems
Rockland County Fire Coordinator
Rockland County Environmental Resources Department
Rockland County Highway Department
Rockland County Legislature
Rockland County Maintenance Department
Rockland County Office of Fire and Emergency Services
Rockland County Office for the Aging
Rockland County Public Transportation
Rockland County Purchasing Department
Rockland County Sheriff's Department
Rockland County Sheriff's Organizational Center
Rockland County BRIDGES
Rockland County Office of Personnel
Rockland County Board of Cooperative Educational Services
Rockland County Youth Bureau
Rockland County BOCES
American Red Cross
Clarkstown Police Department
NYS Park Police
NYS Department of Health
NYS Division of Homeland Security and Emergency Services
NYS Office of Children and Family Services
NYS Office of Fire Prevention and Control
Putnam/Northern Westchester Board of Cooperative Extension Services (BOCES)
Radio Amateur Civil Emergency Services (RACES)
Westchester County Attorney
Westchester County Executive's Office
Westchester County Department of Budget
Westchester County Department of Community Mental Health
Westchester County Department of Consumer Protection
Westchester County Department of Corrections
Westchester County Department of Emergency Services
Westchester County Department of Environmental Facilities

Westchester County Department of Health
Westchester County Department of Human Resources
Westchester County Department of Information Technology
Westchester County Department of Parks, Recreation, and Conservation
Westchester County Department of Public Safety
Westchester County Department of Public Works & Transportation
Westchester County Department of Social Services
Westchester County Law Department
Westchester County Office for People with Disabilities
Westchester County Planning Department
Westchester County Public Information Officer
Westchester Medical Center
Bergen County Department of Emergency Management
Bergen County Department of Health
Bergen County Department of Public Works
Bergen County Department of Social Services
Bergen County Fire Department
Bergen County Police Department
Bergen County Prosecutor's Office
Bergen County Utilities Authority

Private Organizations

100.7 WHUD
American Red Cross
Metropolitan Transportation Authority
Port Authority of New York and New Jersey
Radio Amateur Civil Emergency Service
St. Luke's Cornwall Hospital
State University of New York
United Water, New York
United Way
Entergy
Contingency Management Consulting Group (CMCG)
Exelon Corporation
Metro North Railroad
Buffalo Graphics
Con Edison

SECTION 2: EXERCISE DESIGN SUMMARY

2.1 Exercise Purpose and Design

The DHS/FEMA Region II Office evaluated the full participation, Plume Exercise on September 25 to assess the capabilities of the local emergency preparedness organizations in implementing their Radiological Emergency Response Plans and Procedures to protect the public health and safety during a radiological emergency involving the Indian Point Energy Center (IPEC). The purpose of this report is to present the results of the findings on the performance of the offsite response organizations during a simulated radiological emergency.

2.2 Exercise Objectives, Capabilities and Activities

Capabilities-based planning allows for exercise planning teams to develop exercise objectives and observe exercise outcomes through a framework of specific action items that were derived from the Target Capabilities List (TCL). The capabilities listed below form the foundation for the organization of all FEMA Region II REP Program objectives and observations in this exercise.

- **Emergency Operations Center (EOC) Management:** Is the capability to provide Multi-Agency Coordination (MAC) for incident management by activating and operating an EOC for a pre-planned or no-notice event. EOC management includes EOC activation, notification, staffing, and deactivation; management, direction, control, and coordination of response and recovery activities; coordination of efforts among neighboring governments at each level and among local, regional, state, and federal EOCs; coordination of public information and warning; and maintenance of the information and communication necessary for coordinating response and recovery activities.
- **Emergency Public Information and Warning:** Is the capability that includes public information, alert/warning and notification. It involves developing, coordinating, and disseminating information to the public, coordinating officials, and incident management and responders across all jurisdictions and disciplines effectively under all hazard conditions.
- **Citizen Evacuation and Shelter in Place:** Is the capability to prepare for, ensure communication of, and immediately execute the safe and effective sheltering-in-place of an at-risk population (and companion animals), and/or the organized and managed evacuation of the at-risk population (and companion animals) to areas of safe refuge in response to a potentially or actual dangerous environment. In addition, this capability involves the safe reentry of the population where feasible.
- **Emergency Public Safety and Security Response:** Is the capability to reduce the impact and consequences of an incident or major event by securing the affected area, including crime/incident scene preservation issues as appropriate, safely diverting the public from hazards, providing security support to other response operations and properties, and sustaining operations

from response through recovery. Public Safety and Security Response requires coordination among officials from Law Enforcement (LE), fire, and Emergency Medical Services (EMS).

- **Hazardous Materials Response and Decontamination:** Is the capability to assess and manage the consequences of a hazardous materials release, either accidental or as part of a terrorist attack. It includes testing and identifying all likely hazardous substances onsite; ensuring that responders have protective clothing and equipment; conducting rescue operations to remove affected victims from the hazardous environment; conducting geographical survey searches of suspected sources of contamination and establishing isolation perimeters; mitigating the effects of hazardous.
- **Materials:** Is the capability to decontaminate on-site victims, responders, and equipment; coordinating off-site decontamination with relevant agencies, and notifying environmental, health, and law enforcement agencies having jurisdiction for the incident to begin implementation of their standard evidence collection and investigation procedures.
- **Mass Care:** Is the capability to provide immediate shelter, feeding centers, basic first aid, bulk distribution of needed items, and related services to persons affected by a large-scale incident, including special needs populations. Special needs populations include individuals with physical or mental disabilities who require medical attention or personal care beyond basic first aid. Other special-needs populations include non-English speaking populations that may need to have information presented in other languages. The mass care capability also provides for pet care/handling through local government and appropriate animal-related organizations. Mass care is usually performed by nongovernmental organizations, such as the American Red Cross (ARC), or by local government-sponsored volunteer efforts, such as Citizen Corps. Special-needs populations are generally the responsibility of local government, with medical needs addressed by the medical community and/or its alternate care facilities. State and Federal entities also play a role in public and environmental health by ensuring safe conditions, safe food, potable water, sanitation, clean air, etc.
- **Triage and Pre-Hospital Treatment:** Is the capability to appropriately dispatch EMS resources; to provide feasible, suitable, and medically acceptable pre-hospital triage and treatment of patients; to provide transport as well as medical care in-route to an appropriate receiving facility; and to track patients to a treatment facility.

2.3 Scenario Summary

Basic Scenario Timeline:

0800 - Unit-2 Control Room team takes the watch.

0802 - Service water pump fails on the essential header due to a winding short. Control Room responds in accordance with the plant procedure.

0815 - Leak in the Reactor Coolant System (RCS) is identified inside containment. Control Room enters Leak-1. There is no radiological release at this point.

0825 - Reactor Coolant System (RCS) leak increases to 250 gallons per minute. Control Room trips the Reactor and manually initiates safety injection.

0840 - Alert is declared based on Emergency Action Level (EAL) FA 1.1 'Any loss or potential loss of either fuel cladding or RCS (Table F-I)', RCS potential loss D.2 RCS leak rate indicated greater than 87 gallons per minute.

0855 - Part I Form and Notifications are completed. There is no release to atmosphere.

0928 - Large break loss of cooling accident (LOCA) occurs on the 24-intermediate leg inside the Vapor Containment.

0940 – Emergency Response Organization (ERO) facilities are operational. Excluding the Joint Information Center (JIC)

0950 - Loss of Offsite Power (LOOP) occurs and SI pump 21 won't start due to 21 EDG being OOS, 22 SI pump won't start because 22 EDG has high delta P in the fuel filter and 23 SI pump trips on start up. 23 EDG remains operable.

1003 – Residual Heat Removal (RHR) pump fails causing the Reactor Vessel Level Indication System (RVLIS) to begin to decrease from —47%.

1005 - Due to the failed RI-JR pump RVLIS drops to <41% Rad Monitors R-25 and R-26 climb to --'10 Rhr -4

1020 – Site Area Emergency (SAE) based on FS 1.1 "Loss or potential loss of any two barriers" (Table F-I), RVLIS <41% and an RCS leak rate greater than 87 gallons per minute. There is no release at this point.

1025 – Power restored using the 13.8 KV lines from 13W92 to GT 25 and GT26, that will restore power to the 22 RHR pump. RVLIS begins to climb.

1027 - Reactor Vessel Level Indication (RVLIS) is increasing above 41%, but Rad Monitors R-25/R-26 are increasing and read >17R hr. Rad Monitors R-2 and R-7 read 10R hr. This is indicative of fuel failure caused by the RVLIS going below 41%.

1035- Part 1 form and Notifications are completed to Offsite Response Organizations.

1138 - Wind shift occurs: _7 Meters per second 180 Degrees.

C - Stability Class —1145 A hydrogen leak in the 80' PAB hydrogen bank causes a tank to become a projectile and go through the PAB and hit the enclosure of the 1173 valve causing the line to bend and fail the valve open. This will cause a release path out the plant vent. R-27 begins to climb rapidly and is reading ---8.00 E+06 liCi/sec and increasing. R-2 and R-7 are in high alarm.

1200 - General Emergency (GE) Declared based on EAL FG1.1: FC Loss C.3. Containment radiation monitor R-25 or R-26 >17 R hr, Loss D.2. RCS leak rate resulting in a loss of RCS sub cooling (table F-2), Potential Loss D.2 RCS leak rate greater than 87 gallons per minute and Loss E.5 Inability to isolate all valves in any one line and direct downstream pathway to the environment exists after containment isolation signal. The conditions for a Rapidly Progressing Severe Accident are not met because monitors R-25/R-26 are less than 68 R hr, and EAL AG1.1, AG1.2 or AG1.3 conditions are not met at this time.

1215 – Emergency Operating Facility (EOF) recommends Protective Action Recommendation (PAR)s to state and local counties in Sectors 1, 2 and 16 to evacuate 0-2 miles around and 2-5 miles downwind and the implementation of the State KI plan.

1220 - Rad Monitor R-27 climbs to 1.IE+9 and is holding. Field monitoring teams are getting readings out to 10 miles.

1330 - Repair and corrective actions teams are successful in repairing the leak to the atmosphere.

1400 - End of Exercise

SECTION 3: ANALYSIS OF CAPABILITIES

3.1 Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities which participated in the September 25, 2018, Plume Exercise to test the offsite emergency response capabilities of State and local governments in the 10-Mile EPZ surrounding the Indian Point Energy Center. Each jurisdiction and functional entity was evaluated based on its demonstration of criteria delineated in exercise evaluation areas contained in the FEMA REP Program Manual, January 2016.

3.2 Summary Results of Exercise Evaluation

Date: 09/25/2018 SITE: Indian Point Energy Center, NY L1: Level 1 Finding, L2: Level 2 Finding, P: Plan Issue, N: Not Demonstrated			
Location Abbreviation	Criteria Title	Criteria	Classification
IP JIC	Emergency Information and Instructions for the Public and the Media 32-18-5b1-P-01	5b1	P
RC AA	Rockland County Radiation Exposure Tracking 32-18-3a1-P-02	3a1	P
IP JIC	During media briefing #4, after the GE (ECL), the NYOEM Spokesperson incorrectly stated the recommended dosage of potassium iodide for children and adults. 32-18-5b1-L2-01	5b1	L2
OC AA	Radio Amateur Civil Emergency Service (RACES) were members of each field team but were not included as part of the pre-deployment radiological briefing. 32-18-3a1-L2-02	3a1	L2

3.3 Criteria Evaluation Summaries

3.3.1 New York State Jurisdictions

Emergency Operations

- New York State Warning Point
- New York State Emergency Operations Center
- New York State Accident Assessment
- New York State Call Center
- New York State/Orange County Emergency Worker Personnel Monitoring Center
- Indian Point EAS Station WHUD
- Indian Point Joint Information Center
- Indian Point Joint Information Center - Media Monitoring
- Indian Point Joint Information Center Briefings

In summary, the status of DHS/FEMA criteria for the State jurisdiction is as follows:

- a. LEVEL 1 FINDINGS: NONE
- b. LEVEL 2 FINDINGS: ONE

LOCATION: Joint Information Center

ISSUE NO: 32-18-5b1-L2-01

CRITERION: 5b1

CONDITION: In accordance with Procedure C, the NYSOEM PIO is responsible for ensuring the accurate and timely release of State information to the public and the media concerning decisions for public protective action recommendations and state emergency response activities during radiological emergencies. However, during media briefing #4, after the GE (ECL), the NYOEM Spokesperson incorrectly stated the recommended dosage of potassium iodide for children and adults.

CORRECTIVE ACTION DEMONSTRATED: Play was stopped. The Controller conducted training on the recommended doses of KI for the different risk groups. Prior to the exercise terminating, the NYSOEM Spokesperson conducted an additional briefing for the Controller and evaluator with the correct dosage information.

PLAN ISSUES: ONE

LOCATION: Joint Information Center

ISSUE NO: 32-18-5b1-P-01

CRITERION: 5b1

- **CONDITION:** In accordance with Procedure C, the NYSOEM PIO is responsible for ensuring the accurate and timely release of State information to the public and the media concerning decisions for public protective action recommendations and state emergency response activities during radiological emergencies. However, during media briefing #4, after the GE (ECL), the NYOEM Spokesperson incorrectly stated the recommended dosage of potassium iodide for children and adults.

CORRECTIVE ACTION DEMONSTRATED: The New York State Joint Information Work Plan was updated to include a section on the Use of Potassium Iodide during Radiological Emergencies that includes a table of Recommended Doses of KI for Different Risk Groups.

- d. PRIOR ISSUES – RESOLVED: NONE
- e. PRIOR ISSUES – UNRESOLVED: NONE

3.3.2 Risk Jurisdictions

Orange County

Emergency Operations

- Orange County - Emergency Operations
- Orange County – Facility Evaluation
- Orange County - Warning Point
- Orange County - Accident Assessment
- Orange County - Field Monitoring Team 1
- Orange County - Field Monitoring Team 2
- Orange County - Traffic and Access Control

Medical Services

- Orange County St. Luke's Cornwall Newburgh Hospital
- Orange Mobile Life Patient Medical Services Transport Bus Interviews

Bus Companies

- Orange County - Special and General Population Bus Company - Monroe-Woodbury School Bus Transportation Department
- Orange County - West Point Tours Special and General Population Bus Organization
- Orange County – George M. Carroll Special and General Population Bus Organization

School Interviews

- **Orange County - School Interviews - Highland Falls Intermediate School**
- **Orange County - School Interviews - Fort Montgomery Elementary School**
- **Orange County - School Interviews - James O' Neill High School**

Reception Centers

- **Orange County - General Population Reception Center - Valley Central High School**
- **Orange County - Valley Central High School - Registration Demo**
- **Orange County - Valley Central High School - General Population Reception Center - Facilities Evaluation 1.b.1**
- **Orange County/ New York State Joint Emergency Worker Personnel Monitoring Center**
- **Orange County/ New York State - Joint Emergency Worker Personnel Monitoring Center Facilities Evaluation 1.b.1**

Putnam County

Emergency Operations

- **Putnam County - Emergency Operations Center**
- **Putnam County - Warning Point**
- **Putnam County - Accident Assessment**
- **Putnam County - Traffic and Access Control**
- **Putnam County - Backup Alerting**
- **Putnam County - Field Monitoring Team Alpha**
- **Putnam County - Field Monitoring Team Bravo**

Medical Services

- **Putnam County - Medical Services Hospital - Putnam Hospital Center**
- **Putnam County – Medical Services Transport Drill – EMStar Ambulance**

Emergency Worker

- **Putnam County - NY Emergency Worker Decontamination - Carmel Fire Department**

School Interviews

- **Putnam County – School Interview - Haldane School District**
- **Putnam County – School Interviews - Haldane Elementary School**
- **Putnam County – School Interviews - Haldane Middle School**

- **Putnam County – School Interviews - Haldane High School**

Day Care Centers

- **Putnam County - Day Care Center - Nanny's House Daycare**

Rockland County

Emergency Operations

- **Rockland County - Emergency Operations Center**
- **Rockland County - Warning Point**
- **Rockland County - Accident Assessment**
- **Rockland County – Backup Alerting**
- **Rockland County - Field Monitoring Team 1**
- **Rockland County - Field Monitoring Team 2**
- **Rockland County - Traffic and Access Control**

Medical Services

- **Rockland County - Medical Services Drill – Good Samaritan Hospital**
- **Rockland County - Medical Services Drill - New City Volunteer Ambulance Corps**

Bus Companies

- **Rockland County – General Population Bus Company – Haverstraw Transit**
- **Rockland County – General Population Bus Company – Chestnut Ridge Transit**
- **Rockland County - BOCES School Bus Company**
- **Rockland County - Clarkstown Central School District Bus Company**

Reception Centers

- **Rockland County - School Reception Center - Saint Thomas Aquinas College**

Westchester County

Emergency Operations

- **Westchester County - Emergency Operations Center**
- **Westchester County - Warning Point**
- **Westchester County - Accident Assessment**
- **Westchester County - Public Inquiry Call Center**
- **Westchester County - Traffic and Access Control Points**
- **Westchester County - Field Monitoring Team HD-1**
- **Westchester County - Field Monitoring Team HD-2**

Day Care Centers

- Westchester County - Day Care Center - A Journey by Faith
- Westchester County - Day Care Center - Amuso, Beatrice
- Westchester County - Day Care Center - ABC Academy
- Westchester County - Day Care Center - All Aboard on the Hudson
- Westchester County - Day Care Center – Angel’s Daycare
- Westchester County - Day Care - A Rising Star Children’s Center
- Westchester County - Day Care Center - Berlow’s Taekwondo Academy
- Westchester County - Day Care Center - Bright Beginnings Pre-School
- Westchester County - Day Care Center - Bumble Bee Family
- Westchester County - Day Care Center - Fidelio, Caterina
- Westchester County - Day Care Center - Family YMCA at Tarrytown
- Westchester County - Day Care Center - Chappaqua Children's Workshop
- Westchester County - Day Care Center - Children of America
- Westchester County - Day Care Center - Children’s Corner Learning Center
- Westchester County - Day Care Center - Childrenspace Preschool
- Westchester County - Daycare Center - Club Fit Management Inc.
- Westchester County - Daycare Center - Corrales, Grace
- Westchester County - Daycare Center - J&B Daycare
- Westchester County - Daycare Center - Early Learning Center at Fieldhome
- Westchester County - Day Care Center - Country Cradle
- Westchester County - Day Care Center - Creative Kids Enrichment LLC
- Westchester County - Day Care Center - Paz, Daniela
- Westchester County - Day Care Center - Enrichment Center at Yorktown, Inc.
- Westchester County - Day Care Center – For Kids Only
- Westchester County - Day Care Center - Garden House School of Briarcliff
- Westchester County - Day Care Center - Growing Hearts Daycare LLC.
- Westchester County - Day Care Center - Happy Hearts on The Hudson, Inc.
- Westchester County - Day Care Center - Happy Hearts on The Hudson, Take 2
- Westchester County - Day Care Center - Happy Klubhouse Child Care
- Westchester County - Day Care Center - Happy Beginnings Daycare II
- Westchester County - Day Care Center - Happy Tots Child Care, Inc.
- Westchester County - Day Care - Healthy Kids Extended Day Brookside
- Westchester County - Day Care - Healthy Kids Extended Day Oakside
- Westchester County - Day Care - Healthy Kids Extended Day Ossining
- Westchester County - Day Care - Healthy Kids Extended Day Woodside
- Westchester County - Day Care - Johnson, Tabitha
- Westchester County - Day Care - Julie’s Little School
- Westchester County - Day Care - Jump For Joy Daycare Center Inc.
- Westchester County - Day Care - Jump For Joy Daycare Center II
- Westchester County - Day Care - Kelly’s Kids Family Childcare
- Westchester County - Day Care Center - Kidz On the Go Family Daycare, Inc.

- Westchester County - Day Care Center - Kidz Time Day Care
- Westchester County - Day Care Center - Lakeland Children's Center, Inc.
- Westchester County - Day Care Center - Lil' Sprouts Early Learning Center
- Westchester County - Day Care Center - Little Kings and Queens Daycare, Inc.
- Westchester County - Day Care Center - Lullaby One Westchester County
- Westchester County - Day Care Center - Little Blue Bears
- Westchester County - DayCare Center - Little Learners of Westchester
- Westchester County - Day Care Center - Little Red House of Westchester
- Westchester County - Day Center - Little Mirakle Makers
- Westchester County - Day Care Center - Morning Star Daycare
- Westchester County - Day Care Center - Marilena Lamberti
- Westchester County - Day Care Center - Milo's Play School
- Westchester County - Day Care Center - McKinley Street Daycare
- Westchester County - Day Care Center- The Mothers Connection of Cortlandt, Inc.
- Westchester County - Day Care Center - Bond, Sandra
- Westchester County - Day Care Center - My Little World
- Westchester County - Day Care Center - Nana's Place Child Care, Inc.
- Westchester County - Day Care Center - Ossining Children's Center, Inc.
- Westchester County - Day Care Center - Peekskill Head Start
- Westchester County - Day Care Center - Our Montessori School Yorktown
- Westchester County - Day Care Center - Pied Piper Pre-School
- Westchester County - Day Care Center - Play and Learn Daycare
- Westchester County - Day Care Center - Premier Athletic Club
- Westchester County - Day Care Center - Reliable Learning Child Care
- Westchester County - Day Care Center - Rose's Friendly Play and Learn, Corp
- Westchester County - Day Care Center - Salazar, Lorenza
- Westchester County - Day Care Center - Scarborough Presbyterian Children's Center
- Westchester County - Day Care Center - St. Mathews Head Start
- Westchester County - Day Care Center - Strawberry Early Childhood Development Center
- Westchester County Day Care - Sunshine RN, PT, OT, SLP and Psychology
- Westchester County - Day Care Center - The Learning Experience, Yorktown
- Westchester County - Day Care Center - Sunshine Children's Home
- Westchester County - Day Care Center - Tee's Little Bees
- Westchester County - Day Care - Westcop Therapeutic Nursery and Head Start
- Westchester County - Day Care Center - The Country Children's Center
- Westchester County - Day Care Center - The Seed Day Care Center
- Westchester County - Day Care Center - Tom Thumb Preschool Center
- Westchester County - Day Care Center - Under My Wings
- Westchester County - Day Care Center - Vergara, Nadine
- Westchester County - Day Care - Young Wonders LLC

- **Westchester County - Day Care Center - Westcop Aunt Bessie's Open Door**
- **Westchester County - Day Care - Westcop Yorktown Heights Head Start**
- **Westchester County - Day Care Center - Wiggles and Giggles**
- **Westchester County - Day Care Center - Yorktown Assembly of God Sonshine Preschool and Day School**
- **Westchester County - Day Care Center - Defino, Anne**

Reception Centers

- **Westchester County - General Population Reception Center - Fox Lane High School**
- **Westchester County - General Population Reception Center - Westchester Community College**

Medical Services

- **Westchester County - Medical Services Hospital - Westchester Medical Center**
- **Westchester County - Medical Services Transport - Empress Emergency Medical Service**
- **Yorktown Volunteer Ambulance Corp.**

Bus Companies

- **Westchester County - General Population Bus Company - Liberty Lines**
- **Westchester County - General Population Bus Company - Royal Coach Bus Company**
- **Westchester County - School Bus Company - National Express Bus Company**
- **Westchester County- School Bus Company-Lakeland SD Bus**
- **Westchester County- School Bus Company-Super Trans**
- **Westchester County- School Bus Company-TLC Transportation**
- **Westchester County - School Bus Company – Chappaqua Transportation**
- **Westchester County - School Bus Company - Croton Harmon SD Bus**
- **Westchester County - School Bus Company - Hendrick Hudson SD Bus**

School Interviews

- **Westchester County - School Interviews- Chappaqua School District**
- **Westchester County - School Interviews- Douglas Graffin Elementary School**
- **Westchester County - School Interviews-Roaming Brook Elementary School**
- **Westchester County - School Interviews- Westorcharde Elementary School**
- **Westchester County - School Interviews- Robert E. Bell Middle School**
- **Westchester County - School Interviews- Seven Bridges Middle School**
- **Westchester County - School Interviews – Horace Greeley High School**
- **Westchester County - School Interviews - Croton Harmon School District**
- **Westchester County - School Interviews - Croton Harmon High School**

- Westchester County - School Interviews - Pier Van Cortland Middle School
- Westchester County - School Interviews - Carrie E. Thompkins Elementary School
- Westchester County - School Interviews - Peekskill School District
- Westchester County - School Interviews - Uriah Hill Elementary School
- Westchester County - School Interviews - Peekskill High School
- Westchester County - School Interviews - Peekskill Middle School
- Westchester County - School Interviews - Oakside Elementary School
- Westchester County - School Interviews - Woodside Elementary School
- Westchester County - School Interviews - Hillcrest Elementary School
- Westchester County - School Interviews - Ossining School District
- Westchester County - School Interviews - Ossining High School
- Westchester County - School Interviews – Roosevelt School
- Westchester County - School Interviews – Claremont School
- Westchester County - School Interviews – Park School
- Westchester County - School Interviews – Brookside School
- Westchester County - School Interviews – AMD Middle School
- Westchester County - School Interviews – Putnam/Northern Westchester Board of Cooperative Educational Services
- Westchester County-School Interviews - Lakeland School District
- Westchester County - School Interviews - Fox Meadow School
- Westchester County - School Interviews - Walden School
- Westchester County - School Interviews - Pines Bridge School
- Westchester County - School Interviews - Yorktown Heights Center

In summary, the status of DHS/FEMA criteria for the Risk jurisdiction is as follows:

a. LEVEL 1 FINDINGS: NONE

b. LEVEL 2 FINDINGS: ONE

LOCATION: Orange County

ISSUE NO: 32-18-3a1-L2-02

CRITERION: 3a1

CONDITION: Procedure 22 in the Orange County Radiological Emergency Response Plan requires that the Radiological Monitoring Team Supervisor brief teams on known emergency information as part of the pre-departure procedures. Radio Amateur Civil Emergency Service (RACES) were members of each team, however were not included as part of the pre-deployment briefing.

CORRECTIVE ACTION DEMONSTRATED: Orange County Radiological Monitoring Team Supervisor successfully re-demonstrated the required pre-deployment radiological briefing as required by their Radiological Emergency Response Plan.

- c. PLAN ISSUES: ONE
- d. PRIOR ISSUES – RESOLVED: NONE
- e. PRIOR ISSUES – UNRESOLVED: NONE

LOCATION: Rockland County

ISSUE NO: 32-18-3a1-P-02

CRITERION: 3a1

CONDITION: There was no formal method for Rockland County EOC personnel to track their radiation exposure, or to account for accumulated radiation exposure when reporting for subsequent work shifts.

CORRECTIVE ACTION DEMONSTRATED: Rockland County revised the Department of Health Procedures DOH-4 and DOH 9 to address the concerns regarding exposure control and proper documentation of potassium iodide (KI) use for Emergency Operations Center (EOC) personnel. The revised procedures delineate the responsibilities of the Exposure Control Coordinator and to specify the revised EOC procedures to ensure that all individuals who work there, either for a single shift or multiple shifts over the period of an extended emergency, are able to document their exposure accurately. In addition, proper records will be kept concerning individuals' actual ingestion of KI, not just the fact that it was issued to them or that they were authorized to take it.

3.3.3 Support Jurisdictions

3.3.3.1 Bergen County Emergency Operations Center

3.3.3.2 Indian Point Emergency Operations Facility

In summary, the status of DHS/FEMA criteria for the Support jurisdiction is as follows:

- a. LEVEL 1 FINDINGS: NONE
- b. LEVEL 2 FINDINGS: NONE
- c. PLAN ISSUES: NONE
- d. PRIOR ISSUES – RESOLVED: NONE
- e. PRIOR ISSUES – UNRESOLVED: NONE

SECTION 4: CONCLUSION

Based on the results of the exercise, the offsite radiological emergency response plans and preparedness for the State of New York and the affected local jurisdiction are deemed adequate to provide reasonable assurance that appropriate measures can be taken to protect the health and safety of the public in the event of a radiological emergency. Therefore, 44 CFR Part 350 approval of the offsite radiological emergency response plans and preparedness for the State of New York, site-specific to the Indian Point Energy Center, will remain in effect.

APPENDIX A: BEST PRACTICES

New York State EOC Albany, NY

The inclusion of the Public Service Representative in the Command Staff briefings was instrumental in allowing decision makers to make informed decisions; the use of common and plain language to explain the incident at Indian Point was exceptional.

Orange County

During the Evaluated Exercise, the Orange County EOC staff responded to a real weather event. The EOC staff showed their ability to work seamlessly in a high-pressure environment while simultaneously working two events.

Rockland County

The Accident Assessment group performed hand calculations to validate each computer-generated dose projection. This an exceptional practice to ensure there were no computer errors and appropriate PADs were made.

Rockland County paper process helps AA folks to understand what happens “inside the black box (RASCAL, MIDAS, et al.)”, helping them to better understand the variables and impact of an offsite radiological release from which protective action decisions are made for the public. The Rockland County Radiation Exposure Record Card includes a section to account for total previous exposure. This allows for an accurate tracking of total emergency radiation exposure for events lasting longer than one day.

Bergen County

The scenario offered limited play for all the agencies, but they participated through to endex, playing as though it were a real event which really demonstrated Bergen County’s dedication to the mission.

The EOC Manager provided EOC staff refresher REP training through a short power point presentation detailing the REP exercise process.

Joint Information Center

The Indian Point JIC Media Briefing Worksheet (whiteboard tool), utilized by the JIC Manager, should be considered a best practice for JIC operations nationwide. The Media Briefing Worksheet (whiteboard) was filled out prior to each briefing to record and cover all important points to be provided to the public.

The JIC Manager discussed the current ECL, EAS broadcast precaution action, protective action decisions, rumors identified, and prioritized the order of the messaging, while recording this key information on the Worksheet. Additionally, the Spokespersons utilized Worksheets (job aid) from their JIC Plan to quickly record talking points to be delivered to the public.

New York's IT Specialists need to be commended for the outstanding job they did maintaining the PIO Coordination Line, Video Teleconferencing (Virtual JIC), and the File Transfer Protocol (FTP) Site throughout the exercise. Great use of technology without having to wait on faxes and printed copies of everything!

Putnam County

The officials in charge of the Putnam County Emergency Operations Center were two County Commissioners and an Operations Officer. As a team they worked together seamlessly and demonstrated a high level of coordination, to include cross consultation with the County Radiological Officer and a representative from the Indian Point Energy Center, resulting in timely and effective response actions taken.

The Operations Officer effectively briefed the Putnam County Emergency Operations Staff immediately following the receipt of new information. What made his briefings so unique was, after a member of the EOC provided their update or comment, he further elaborated on the information and explained why that individual was working on it and what impact it would have on the residents should there be an escalation of the events, making this a learning process for those who regularly staff the EOC, and for those who were new to their position and the operation.

The Public Inquiry Call Center

The Public Inquiry Call Center had a supervisor and an extra call taker that didn't handle any calls, but constantly monitored the information.

APPENDIX B: EXERCISE TIMELINE

DATE AND SITE: Sep. 25, 2018 – Indian Point Energy Center

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken							
		NY State EOC	JIC	EAS STATION	Putnam Co. EOC	Rockland Co. EOC	Westchester Co. EOC	Orange Co. EOC	Bergen Co. EOC
Unusual Event	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alert	0829	0835	0831	0839	0832		0837	0834	0829
Site Area Emergency	1002	1008	1009	1002	1002		1009	1004	1014
General Emergency	1149	1159	1151	1159	1207		1205	1200	1238
Simulated Rad. Release Started	1149	1159	1209	1149	1149		1149	1145	1213
Simulated Rad. Release Terminated	NA	NA	NA	NA	NA	NA	NA	Ongoing	NA
Facility Declared Operational		0850	0935	0915	0915		0910	0900	0929
Declaration of State of Emergency		0955	1058	0955	0955		1000	0955	0959
Exercise Terminated		1345	1345	1345	1345	1345	1345	1345	1345
Early Precautionary Actions: Park, School Dismissal, Stored Feed, Rail/Waterway		0907	0956	0927	NA		0923	0849/ 0905/0932	1019
"Heads Up" Siren Activation		NA	NA	NA	NA	NA	NA	NA	NA
"Heads Up" EAS Message		1000	NA	NA	NA	NA	NA	NA	NA
1st Protective Action Decision Shelter: Evacuate:		1215	NA	1215	1219		1215	1215/ 1226/1230	NA
1st Siren Activation		1226	1226	1226	1226		1226	1226	NA
1st EAS Message		1230	1230	1230	1230		1230	1229	NA
2nd Protective Action Decision Shelter: Evacuate:		NA	NA	NA	NA		NA	NA	NA
2nd Siren Activation		NA	NA	NA	NA		NA	NA	NA
2nd EAS or EBS Message		NA	NA	NA	NA		NA	NA	NA

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Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken							
		NY State EOC	JIC	EAS STATION	Putnam Co. EOC	Rockland Co. EOC	Westchester Co. EOC	Orange Co. EOC	Bergen Co. EOC
3rd Protective Action Decision Shelter: Evacuate:		NA	NA	NA	NA	NA	NA	NA	NA
3rd Siren Activation		NA	NA	NA	NA	NA	NA	NA	NA
3rd EAS or EBS Message		NA	NA	NA	NA	NA	NA	NA	NA
KI Administration Decision:		1230	1217	NA	1159	1208	1215	1147	1213
Emergency Workers		1210	1217	NA	1159	1208	1215	1215	NA
General Public in Evacuated Areas		1230	1217	NA	1159	1208	1215	1215	NA

APPENDIX C: EXERCISE EVALUATORS AND TEAM LEADERS

DATE: 9/25/2018, SITE: INDIAN POINT

LOCATION	EVALUATOR	AGENCY
Bergen County Emergency Operations Center	Lisa Rink	FEMA HQ
Indian Point EAS Station WHUD	Michele Sturman	FEMA Region II
Indian Point Emergency Operations Facility	Thomas Scardino	FEMA Region III
Indian Point Joint Information Center	Linda Gee	FEMA Region VI
Indian Point Joint Information Center	Henry Christiansen	ICFI
Indian Point Joint Information Center - Media Monitoring	Patricia Gardner	FEMA Region III
Indian Point Joint Information Center Briefings	Patricia Gardner	FEMA Region III
New York State Accident Assessment	Michael Howe	FEMA HQ
New York State Emergency Operations Center	LaShawn Halsey	FEMA HQ
New York State Emergency Operations Center	Alberto Sifuentes	FEMA Region IX
New York State Emergency Operations Center	Dan Lerch	ICFI
New York State Warning Point	Dan Lerch	ICFI
Orange County - Field Monitoring Team 1	Deborah Blunt	FEMA Region II
Orange County - Field Monitoring Team 2	Michael Henry	ICFI
Orange County - Warning Point	Jennifer Greene	FEMA III
Orange County Accident Assessment	John Wills	ICFI
Orange County Emergency Operations Center	Jennifer Greene	FEMA Region III
Orange County Emergency Operations Center	Joseph Suders	FEMA Region III
Orange County Emergency Operations Center	Michele Sturman	FEMA Region II
Orange County Emergency Operations Center	Alonzo McSwain	FEMA HQ
Orange County Emergency Operations Center	Brian Clark	ICFI
Orange County Emergency Operations Center	John Wills	ICFI
Orange County Traffic and Access Control 1	Don Carlton	ICFI
Orange County Valley Central High School Reception Center	Brian Hasemann	FEMA Region II
Putnam County – Code Red Demonstration Alert & Notification	Michael DeBonis	FEMA Region II
Putnam County - Field Monitoring Team Alpha	Nidal Azzam	EPA
Putnam County - Field Monitoring Team Bravo	Thomas Gahan	ICIF
Putnam County - Warning Point	Ronald Bonner	ICIF
Putnam County Accident Assessment	Dennis Wilford	ICIF
Putnam County Backup Alerting	Mike DeBonis	FEMA Region II
Putnam County Emergency Operations Center	Christopher Nemcheck	FEMA Region III
Putnam County Emergency Operations Center	Kathy Duran	FEMA Region III
Putnam County Emergency Operations Center	Ameesha Mehta-Sampath	EPA
Putnam County Traffic and Access Control 1	Gary Bolender	ICIF
Rockland County - Backup Alerting	William Cullen	FEMA Region II

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Rockland County - Field Monitoring Team 1	Robert Walker	ICIF
Rockland County - Field Monitoring Team 2	Roger Winkelmann	ICIF
Rockland County - Warning Point	Michele Skiermont	ICIF
Rockland County Accident Assessment	Marcy Campbell	ICFI
Rockland County Emergency Operations Center	Elena Joyner	FEMA Region I
Rockland County Emergency Operations Center	Helen LaForge	FEMA Region I
Rockland County Emergency Operations Center	Danny Loomis	ICIF
Rockland County Emergency Operations Center	Michele Skiermont	ICIF
Rockland County Traffic and Access Control 1	Thomas Reynolds	ICIF
Rockland County Backup Route Alerting	Bill Cullen	FEMA Region II
Rockland County Day Care Centers	Michael DeBonis	FEMA Region II
State of New York Call Center	Debra Schneck	FEMA Region II
State of New York Call Center	Chris Cammarata	FEMA Region II
Westchester County - Field Monitoring Team HD-1	Brad McRee	ICIF
Westchester County - Field Monitoring Team HD-2	Bart Ray	ICFI
Westchester County - General Population Bus Company - Liberty Lines	Brian Hasemann	FEMA Region II
Westchester County - School Interviews - Hillcrest Elementary School	Michele Sturman	FEMA Region II
Westchester County - School Interviews –Chappaqua SD	Patrick Cusick	FEMA Region II
Westchester County - School Interviews –Lakeland SD	Korky Dulgerian	FEMA Region II
Westchester County - School Interviews - Ossining School District	Korky Dulgerian	FEMA Region II
Westchester County - School Interviews - Peekskill School District	Michele Sturman	FEMA Region II
Westchester County - School Interviews - Peekskill High School	Michele Sturman	FEMA Region II
Westchester County - School Interviews - Peekskill Middle School	Michele Sturman	FEMA Region II
Westchester County - School Interviews - Pines Bridge School	Michele Sturman	FEMA Region II
Westchester County - School Interviews - Uriah Hill Elementary School	Michele Sturman	FEMA Region II
Westchester County - School Interviews - Walden School	Michele Sturman	FEMA Region II
Westchester County - School Interviews - Woodside Elementary School	Michele Sturman	FEMA Region II
Westchester County - General Population Reception Center - Fox Lane High School	Brian Hasemann	FEMA Region II
Westchester County - General Population Reception Center - Westchester Community College	Mike DeBonis	FEMA Region II
Westchester County - Warning Point	Robert Lemeshka	ICIF
Westchester County Accident Assessment	Kent Tosch	ICIF
Westchester County Emergency Operations Center	Barbara Thomas	FEMA Region I
Westchester County Emergency Operations Center	Lee Torres	FEMA Region III
Westchester County Emergency Operations Center	James Greer	FEMA HQ
Westchester County Public Inquiry Call Center	Michael Shuler	FEMA Region III
Westchester County School Interviews Oakside Elementary School	Michele Sturman	FEMA Region II
Westchester County Traffic and Access Control 1	Michele Sturman	FEMA Region II
Westchester County Croton Harmon School District	Korky Dulgerian	FEMA Region II
Westchester County School Interviews - Croton Harmon High School	Korky Dulgerian	FEMA Region II
Westchester County School Interviews -Pier Van Cortland Middle School	Korky Dulgerian	FEMA Region II

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Westchester County School Interviews - Carrie E. Thompkins Elementary School	Korky Dulgerian	FEMA Region II
Westchester County Day Care - St. Mathews Head Start	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Sunshine Children's Home	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Tom Thumb Preschool Center	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Nana's Place Child Care, Inc.	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Healthy Kids Extended Day Brookside	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Reliable Child Care – Learning	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Fidelio, Caterina	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Country Cradle	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Healthy Kids Extended Day Oakside	Korky Dulgerian	FEMA Region II
Westchester County Day Care - ABC Academy Daycare	Korky Dulgerian	FEMA Region II
Westchester County Day Care – Angel's Daycare Program	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Children's Corner Learning Center	Korky Dulgerian	FEMA Region II
Westchester County Day Care - The Seed Daycare Center	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Healthy Kids Ossining	Korky Dulgerian	FEMA Region II
Westchester County Day Care – Lil' Sprouts Early Learning Center	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Growing Hearts Daycare LLC	Patrick Cusick	FEMA Region II
Westchester County Day Care - Kidz On The Go Family Daycare, Inc.	Patrick Cusick	FEMA Region II
Westchester County Day Care - Bumble Bee Family Daycare	Patrick Cusick	FEMA Region II
Westchester County Day Care - Little Miracle Makers	Patrick Cusick	FEMA Region II
Westchester County Day Care - Country Children's Center	Mike DeBonis	FEMA Region II
Westchester County Day Care - Ossining Children's Center, Inc.	Mike DeBonis	FEMA Region II
Westchester County Day Care - Happy Tots Child Care, Inc.	Mike DeBonis	FEMA Region II
Westchester County Day Care - Lakeland Children's Center, Inc.	Mike DeBonis	FEMA Region II
Westchester County Day Care – Deb's Daycare	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Bright Beginnings Pre-School	Korky Dulgerian	FEMA Region II
Westchester County Day Care - For Kids Only	Korky Dulgerian	FEMA Region II
Westchester County Day Care -Childspace	Korky Dulgerian	FEMA Region II
Westchester County Day Care – The Mother's Connection of Cortlandt, Inc.	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Enrichment Center at Yorktown, Inc.	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Garden House School of Briarcliff	Korky Dulgerian	FEMA Region II
Westchester County Day Care - All Aboard on the Hudson	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Barlow's Taekwondo Academy	Korky Dulgerian	FEMA Region II
Westchester County Day Care – Rose's Friendly Play and Learn, Corp	Korky Dulgerian	FEMA Region II
Westchester County Day Care - McKinley Street Daycare	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Sunshine RN, PT, OT, SLP and Psychology	Korky Dulgerian	FEMA Region II
Westchester County Day Care - Play and Learn Daycare	Korky Dulgerian	FEMA Region II
Westchester County – Day Care - A Journey by Faith	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - ABC Academy	Korky Dulgerian	FEMA Region II
Westchester County – Day Care – Angel's	Mike DeBonis	FEMA Region II
Westchester County - Day Care - A Rising Star Children's Center	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Chappaqua Children's Workshop	Mike DeBonis	FEMA Region II

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Westchester County - Daycare Center - Kidz Time Day Care	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Children's Corner Learning Center	Korky Dulgerian	FEMA Region II
Westchester County - Day Care Center - Childrenspace Preschool	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Country Cradle	Korky Dulgerian	FEMA Region II
Westchester County - Daycare Center - Club Fit Management Inc.	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center- Creative Kids Enrichment, LLC	Mike DeBonis	FEMA Region II
Westchester County - Daycare Center - Paz, Daniela	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center - Wiggles and Giggles	Mike DeBonis	FEMA Region II
Westchester County - Daycare Center - Happy Hearts on the Hudson, Inc.	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Happy Beginnings Daycare II	Mike DeBonis	FEMA Region II
Westchester County - Daycare Center - Happy Klubhouse Child Care	Mike DeBonis	FEMA Region II
Westchester County - Daycare Center - Little Blue Bears x	Mike DeBonis	FEMA Region II
Westchester County - Daycare Center - Little Learners of Westchester	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center -Little Red House of Westchester	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Marilena Lamberti	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - My Little World	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Our Montessori School Yorktown	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center - Pied Piper Pre-School	Pat Cusick	FEMA Region II
Westchester County - Day Care Center - Play and Learn Daycare	Pat Cusick	FEMA Region II
Westchester County – Day Care Center - Scarborough Presbyterian Children's Center	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Strawberry Early Childhood Development Center	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Tee's Little Bees	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - The Country Children's Center	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Under My Wings	Pat Cusick	FEMA Region II
Westchester County - Day Care Center – Westcop Aunt Bessie's Open Door	Mike DeBonis	FEMA Region II
Westchester County – Day Care – Westcop Therapeutic Nursery and Head Start	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center - Yorktown Assembly of God Sonshine Preschool and Day School	Korky Dulgerian	FEMA Region II
Westchester County – Day Care Center –Amuso, Beatrice	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –Berlow's Taekwondo Academy, Inc.	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –Bond, Sandra	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –Corrales, Grace	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –Defino, Anne	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –Happy Hearts on The Hudson, Take 2	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –Early Learning Center at Fieldhome	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –Family YMCA at Tarrytown	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center – Grow with Grace Daycare	Mike DeBonis	FEMA Region II

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Westchester County – Day Care Center –Healthy Kids Extended Day Woodside	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –J&B Daycare	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center –Johnson, Tabitha	Mike DeBonis	FEMA Region II
Westchester County – Day Care Center-Julie’s Little School	Mike DeBonis	FEMA Region II
Westchester County - Day Care –Jump For Joy Daycare Center Inc.	Mike DeBonis	FEMA Region II
Westchester County - Day Care –Jump For Joy Daycare Center II	Mike DeBonis	FEMA Region II
Westchester County - Day Care –Kelly’s Kids Family Childcare	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center –Little Kings and Queens Daycare, Inc.	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center-Lullaby One	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center-Miles, Dea	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Milo's Play School	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center –Morning Star Daycare	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center –Peekskill Head Start	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center –Premier Athletic Club	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center –Salazar, Lorenza	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center –The Learning Experience, Yorktown	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center –Vergara, Nadine		
Westchester County - Day Care - Westcop Yorktown Heights	Mike DeBonis	FEMA Region II
Westchester County - Day Care –Young Wonders LLC	Mike DeBonis	FEMA Region II
Westchester County - School Interviews -- Putnam/Northern Westchester Board of Cooperative Educational Services	Mike DeBonis	FEMA Region II
Westchester County-Congregate Care Interview-American Red Cross-	Mike DeBonis	FEMA Region II
Westchester County - Day Care Center - Children of America	Mike DeBonis	FEMA Region II
Westchester County -- General Population School Bus Company - Royal Coach Bus Company	Mike DeBonis	FEMA Region II
Westchester County - School Bus Company - National Express Bus Company	Pat Cusick	FEMA Region II
Westchester County-School Bus Company-Lakeland SD Bus	Pat Cusick	FEMA Region II
Westchester County-School Bus Company-Super Trans	Pat Cusick	FEMA Region II
Westchester County-School Bus Company-TLC Transportation	Pat Cusick	FEMA Region II
Westchester County - School Interviews -- Putnam/Northern Westchester Board Of Cooperative Educational Services	Pat Cusick	FEMA Region II
Westchester County-Congregate Care Interview-American Red Cross	Pat Cusick	FEMA Region II
Westchester County - School Bus Company - Hendrick Hudson SD Bus	Pat Cusick	FEMA Region II
Westchester County - School Bus Company - Croton Harmon School SD Bus	Pat Cusick	FEMA Region II

APPENDIX D: ACRONYMS AND ABBREVIATIONS

AAC	AFTER ACTION CONFERENCE
AAR	AFTER ACTION REPORT
ARCA	AREA REQUIRING CORRECTIVE ACTION
ANS	ALERT AND NOTIFICATION SYSTEM
C/E	CONTROLLER/EVALUATOR
DHS	U.S. DEPARTMENT OF HOMELAND SECURITY
DLR	DOSIMETER OF LEGAL RECORD
DRD	DIRECT-READING DOSIMETER
EAS	EMERGENCY ALERT SYSTEM
EAL	EMERGENCY ACTION LEVEL
ECL	EMERGENCY CLASSIFICATION LEVEL
EEG	EXERCISE EVALUATION GUIDE
EOC	EMERGENCY OPERATIONS CENTER
EOF	EMERGENCY OPERATIONS FACILITY
EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY
EPT	EXERCISE PLANNING TEAM
EPZ	EMERGENCY PLANNING ZONE
ERF	EMERGENCY RESPONSE FACILITY
ERO	EMERGENCY RESPONSE ORGANIZATION
EXPLAN	EXERCISE PLAN
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FMT	FIELD MONITORING TEAM
FOUO	FOR OFFICIAL USE ONLY
FSE	FULL SCALE EXERCISE
GE	GENERAL EMERGENCY
HSEEP	HOMELAND SECURITY EXERCISE EVALUATION PROGRAM
ICF	ICF INTERNATIONAL, INC.
ICP	INCIDENT COMMAND POST
IP	IMPROVEMENT PLAN
JIC	JOINT INFORMATION CENTER
KI	POTASSIUM IODIDE
LLEA	LOCAL LAW ENFORCEMENT AGENCY
MR	MILLIROENTGEN(S)

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