TABLE D-2
ACCESS CONTROL POINTS TO PROHIBIT AREA INGRESS

TO PROHIBIT INGRESS TO AREA	ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
Central Town of Clarkstown	R-70	Buena Vista Rd.	Conklin Rd.	Clarkstown
Central Town of Clarkstown	R-69	Route 45	Conklin Rd.	Ramapo
Central Town of Clarkstown	R-27	Route 45	New Hempstead Rd.	Ramapo
Central Town of Clarkstown	PK-12	Route 45	PIP	Ramapo
Central Town of Clarkstown	R-28	Eckerson Rd.	Route 45	Ramapo
Central Town of Clarkstown	R-46	Middletown Rd.	West Clarkstown Rd.	Clarkstown
Central Town of Clarkstown	R-18	Route 304	Germonds Rd.	Clarkstown
Central Town of Clarkstown	R-17	South Main St.	Route 304	Clarkstown
Central Town of Clarkstown	R-68	Main St.	New City-Congers Rd.	Clarkstown
Central Town of Clarkstown	R-67	New Hempstead Rd.	Main St.	Clarkstown
Village of Pomona	PK-14	Willow Grove Rd.	PIP	Stony Point
Village of Pomona	R-58	Willow Grove Rd.	Call Hollow Rd.	Stony Point
Village of Pomona	R-73	Haverstraw Rd.	Route 306	Ramapo
Village of Pomona	R-78	Quaker Rd.	Route 202	Ramapo
Village of Pomona	PK-13	Route 202	PIP	Ramapo
Village of Pomona	R-74	Camp Hill Rd.	Route 202	Ramapo
Village of Pomona	R-29	Route 306	Route 202	Ramapo
Village of Pomona	R-75	Wilder Ave.	Route 202	Ramapo
Northeastern Town of Ramapo	R-76	Wesley Chapel Rd.	Route 202	Ramapo
Northeastern Town of Ramapo	R-42	Grandview Ave.	Route 202	Ramapo
Northeastern Town of Ramapo	R-43	Viola Rd.	Spook Rock Rd.	Ramapo
Northeastern Town of Ramapo	R-44	Forshay Rd.	Viola Rd.	Ramapo
Northeastern Town of Ramapo	R-33	Route 306	Viola Rd.	Ramapo
Northeastern Town of Ramapo	R-45	Union Rd.	Viola Rd.	Ramapo
Northeastern Town of Ramapo	R-28	Route 45	Eckerson Rd.	Ramapo
Northeastern Town of Ramapo	R-27	New Hempstead Rd.	Route 45	Ramapo
Village of Pomona	R-26	Pomona Rd.	Route 45	Ramapo
Jones Point	R-36	Route 9W	Bear Mountain Circle	NY State
Jones Point	R-52	Route 9W	West Shore Rd.	Stony Point
Jones Point	R-80	Seven Lakes Dr.	Long Mountain Circle	NY State

TABLE D-2
ACCESS CONTROL POINTS TO PROHIBIT AREA INGRESS

TO PROHIBIT INGRESS TO AREA	ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
Bear Mountain State Park	R-36	Route 9W	Bear Mountain Circle	NY State
Bear Mountain State Park	R-37	PIP	Bear Mountain Circle	NY State
Bear Mountain State Park	R-38	Long Mountain Circle	Bear Mountain Circle	NY State
Bear Mountain State Park	R-39	Cedar Pond Rd.	Seven Lakes Parkway	Stony Point
Bear Mountain State Park	PK-15	PIP	Route 210	Stony Point
Bear Mountain State Park	R-52	Route 9W	West Shore Rd.	Stony Point
Harriman State Park	R-80	Seven Lakes Drive	Long Mountain Circle	Woodbury (OC)
Harriman State Park	R-40	Route 210	Seven Lakes Parkway	Woodbury (OC)
Harriman State Park	PK-15	Route 210	PIP	Stony Point
Harriman State Park	R-56	Route 210	Cedar Flats Rd.	Stony Point
Harriman State Park	R-41	Seven Lakes Drive	Greenway Rd.	Ramapo

c. Prohibit Ingress into the 10-mile EPZ (Refer to Table D-3)

(NOT USED)

TABLE D-3
ACCESS CONTROL POINTS TO PROHIBIT 10-MILE EPZ INGRESS

ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
301	Entrance to Nyack Beach Park	N. Broadway	Palisades Park
302	9W Northbound	Herald Rd.	Clarkstown
303	Herald Rd./Storms Rd.	Mountainview Ave.	Clarkstown
304	Rte. 303 Northbound	Greenbush Rd.	Clarkstown
305	Germonds/Old Mill Rd.	Strawtown Rd.	Clarkstown
306	PIP Northbound	Exit 9	Clarkstown
307	Rte. 304 Northbound	Pineview Ave.	Clarkstown
308	Little Tor/W. Clarkstown Rd.	N. Middletown Rd.	Clarkstown
309	W. Burda Place	W. Clarkstown Rd.	Clarkstown
310	Great Oaks Drive	W. Clarkstown Rd.	Clarkstown
311	Geraldine Rd.	W. Clarkstown Rd.	Clarkstown
312	Amherst Rd.	W. Clarkstown Rd.	Clarkstown
313	Zabella Drive	W. Clarkstown Rd.	Clarkstown
314	W. Clarkstown Rd./E. Eckerson Rd.	W. Clarkstown Rd.	Clarkstown
315	Mallory Rd.	E. Eckerson Rd.	Ramapo
316	Inwood Lane	E. Eckerson Rd.	Ramapo
317	Headden Drive	E. Eckerson Rd.	Ramapo
318	Rockland Parkway	E. Eckerson Rd.	Ramapo
319	Eckerson Lane	E. Eckerson Rd.	Ramapo
320	Trinity Ave.	E. Eckerson Rd.	Ramapo
321	Buena Vista Rd.	E. Eckerson Rd.	Ramapo
322	Oak St.	E. Eckerson Rd.	Ramapo
323	State St.	E. Eckerson Rd.	Ramapo
324	Rte. 45/W. Main St.	Eckerson Rd.	Ramapo
325	Hempstead Rd.	W. Eckerson Rd.	Ramapo
326	Oak St.	W. Eckerson Rd.	Ramapo
327	Gilda Court	Union Rd.	Ramapo
328	Union Rd. Northbound	Viola Rd.	Ramapo
329	Brockton Rd.	Viola Rd.	Ramapo
330	South Gate Rd.	Viola Rd.	Ramapo
331	Marcia Lane	Viola Rd.	Ramapo
332	Rte. 306 N. Monsey-Ladentown Rd.	Grandview Avenue	Ramapo
333	Forshay Rd.	Grandview Avenue	Ramapo
334	Quincy Lane	Viola Rd.	Ramapo
335	Spook Rock Rd.	Grandview Avenue	Ramapo
336	Rte. 202 North	Grandview Ave.	Ramapo
337	Seven Lakes Rd./Johnsontown Rd.	NYS Thruway	Sloatsburg
338	Lake Welch Parkway/Old Cedar Pond Rd.	PIP Exit 16	Palisades Park
339	PIP South/9W-202 (by Orange Co. P.D.)	Bear Mountain Circle	Palisades Park

(NOT USED)

TABLE D-4

MINIMUM VERTICAL CLEARANCES-BRIDGES OVER
THE PALISADES INTERSTATE PARKWAY

Rockland

BIN	Feature Carried	Feature Crossed	Minimum Vertical Clearance Per Clearance Per DOT Database
1068530	Oak Tree Road	PIP	14' – 4"
1046180	Route 340	PIP (SB)	15' – 3"
1068990	Route 340	PIP (NB)	14' – 8"
1068560	Washington Street	PIP	13' - 11"
1068570	Kings Highway	PIP (SB)	14' - 2"
1068580	Kings Highway	PIP (NB)	14' - 7"
1045360	Route 303	PIP	14' - 0"
1068629	Orangeburg Road	PIP (SB)	14' - 10"
1068989	Orangeburg Road	PIP (NB)	15' - 3"
1068640	Van Wyck Road	PIP (SB)	14' - 2"
1068970	Van Wyck Road	PIP (NB)	14' - 0"
1068660	Sicklétown Road	PIP	14' - 3"
7701650	Abandoned RR	PIP	15' - 0"
1027709	Route 59	PIP (SB)	14' - 6"
1068969	Route 59	PIP (NB)	14' - 6"
1045410	Route 304	PIP	14' - 1"
1068700	Ludvigh Road	PIP	15' - 1"

BIN	Feature Carried	Feature Crossed	Minimum Vertical Clearance Per DOT Database
1068710	Middletown Road	PIP	13' - 9"
1068720	Clarkstown Road	PIP (SB)	13' - 10"
1068730	Clarkstown Road	PIP (NB)	12' - 8"
1025630	Route 45	PIP	13' - 6"
5091540	Lake Welch Pkwy.	Route 210/CR 106	12' - 8"
1068770	Lake Welch Pkwy.	PIP (SB)	12' - 7"
Orange			
1068780	Anthony Wayne Drive	PIP	15' - 9"
1003380	Route 6	PIP	13' - 5"
5003390	Swan Lakes Pkwy	PIP	12' - 6"

4. EVACUATION TRANSPORTATION RESOURCES

a. Transportation Resources

RESOURCE LIST PROVIDED IN DPT-2, ATTACHMENT 1

b. School Evacuation Transportation Resources

There are 128 public, private, parochial and nursery schools and day care centers potentially requiring transportation in the event a school evacuation is ordered.

There are approximately 33,059 students and 4859 teachers and staff at these schools. These 37,918 individuals would be evacuated to eight (8) School Reception Centers.

A formula is used to determine the most efficient number of buses and vans needed to evacuate each school facility, based on the following:

- Most recent school enrollment and staff
- Required seating, based on size of students and staff
- Average capacity of school buses (66 students or 44 adults)
- Average capacity of vans (20 students or 10 adults)
- Fixed capacity of coach (tour) buses (49 passengers)
- The arbitrary assignment of two (2) teachers or staff to each bus and one (1) to each van for supervision

By summing the requirements determined using this formula, a total of 695 buses and 208 vans would be needed to evacuate all schools simultaneously.

The resources available from the transportation providers listed in DPT-2, ATTACHMENT 1 are 470 buses and 270 vans.

DPT-2 and DPT-5 describe the process of dispatching buses and vans, initially, from their company lots and subsequently dispatching the necessary number of vehicles from a transportation staging area at Rockland Community College for a second trip to evacuate schools.

School Evacuation Resource Chart

	Buses	Vans
Total Vehicles Required:	695	208
Dispatched from Transportation Company Lots:	441	169
Dispatched from Transportation Staging Area:	254	39
Total Vehicles Utilized:	441	169

c. General Population Evacuation Transportation Resources

There are approximately 111,749 persons living within the 10 mile EPZ. There are approximately 4,629 persons who are transit dependent – do not have their own means of evacuation. A total of 37,699 school children, teachers and staff are accounted for under school evacuation plans, to be completed before a general population evacuation. Thus, the number of buses required to evacuate the general population is 93 (at the emergency bus capacity of 50 adults per bus).

General Population Evacuation Resource Chart

Buses Required	93
Total Resources Available:	
Buses	500
Bus equivalent (3 vans = 1 bus)	82
Totals	582
Excess for backup	489

In a scenario in which the evacuation of the general public was advisable before the completion of a school evacuation, the dispatch of buses to pick up transit dependent individuals would have to be delayed. Those individuals would be advised to take shelter until the time at which the buses would arrive.

d. Institutionalized Mobility Impaired

Appendix Q identifies 1058 mobility impaired individuals in special facilities in Rockland County. The transportation needs are as follows:

Ambulatory	306 patients requiring 7 Buses
Wheel Chair	802 patients requiring 75 Vans and 15 Ambulances*

* Buses and cars may also be utilized to evacuate wheelchair bound patients.

Transportation resources available to facilitate the evacuation of this population are as follows:

Bus and Van excess (see c. previous page)	23
Ambulances (from Procedure EMS-1)	66

e. Non-Institutionalized Mobility Impaired

Appendix Q identifies 60 non-institutionalized mobility impaired individuals within the EPZ who might require transportation assistance. Their transportation needs are as follows:

Individuals requiring wheel chair van	51	(6 vans)
Individuals requiring ambulance	9	(5 ambulances)

Transportation resources available to facilitate the evacuation of this population include:

Van and Bus (excess from d. above)	24
Ambulances (excess from d. above)	51

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX E
LOCATIONS OF EMERGENCY FACILITIES

1. ROCKLAND COUNTY EMERGENCY FACILITIES

a. Public Reception Centers

Nanuet Senior High School
103 Church St.
Nanuet, N.Y.

Pearl River High School
275 East Central Ave.
Pearl River, N.Y.

Chestnut Ridge Junior High School
892 South Main St.
Chestnut Ridge, N.Y.

Spring Valley Senior High School
Route 59
Spring Valley, NY

Suffern Senior High School
Viola Rd.
Suffern, N.Y.

Tappan Zee Senior High School
Dutch Hill Rd.
Orangeburg, N.Y.

Note: Upon order of the Emergency Coordinator, the facilities listed above will be activated as Public Reception Centers. Additional facilities may be ordered to standby to activate should it be necessary.

b. Congregate Care Centers

Bergen County Community College
400 Paramus Road
Paramus, N.J.

Ramapo College
500 Ramapo Valley Road (Route 202)
Mahwah, N.J.

Fairleigh Dickinson University
Hackensack Ave. and River Road
Teaneck, N.J.

c. School Reception Centers

Rockland Community College
145 College Road
Suffern, NY 10901

St. Thomas Aquinas College
125 Route 340
Sparkill, NY 10976

Dominican College
470 Western Highway
Orangeburg, NY 10962

South Orangetown Middle School
160 Van Wyck Road
Blauvelt, NY 10913

Bergen Catholic High School
1040 Oradell Avenue
Oradell, NJ 07649

School Reception Centers (con't)

St. Joseph's High School
40 Chestnut Ridge Rd.
Montvale, NJ 07645

Bergen County Vocational Technical High School –
Central Technical Education Center
285 Pascack Road
Paramus, NJ 07652

Bergen County Vocational Technical High School –
Paramus Special Needs
275 Pascack Road
Paramus, NJ 07652

Note: The list of schools in the 10-mile EPZ and their corresponding School Reception Centers is available on the back of the Public Information Brochure Map. An updated list of schools, principals and telephone numbers, buses required and Area location is maintained and on file at the BOCES office and at the EOC.

d. Emergency Worker Personnel Monitoring Center (PMC)
Rockland County Sewer District Plant
Route 340
Orangeburg, N.Y.

e. Rockland County Emergency Operations Center (EOC)
Fire Training Center
35 Fireman's Memorial Drive
Lower Level
Pomona, N.Y.

2. OTHER EMERGENCY FACILITIES

a. Indian Point Energy Center

Emergency Operations Facility (EOF)
Buchanan Service Center

Alternate Emergency Operations Center (AEOF)
Entergy Nuclear Northeast
440 Hamilton Ave.
l2th floor
White Plains, NY

b. Emergency Operations Centers (EOCs)

Westchester County Emergency Operations Center
County Office Building
Sub-Basement Area
148 Martine Avenue
White Plains, NY

Orange County Emergency Operations Center
255 Main Street
Goshen, NY

Putnam County Emergency Operations Center
County Office Building
40 Gleneida Ave.
Carmel, NY

New York State Emergency Operations Center
Assessment and Evaluation Room
State of New York
Division of Military and Naval Affairs
State Emergency Management Office
State Campus, Bldg. 22
1220 Washington Ave.
Albany, NY

c. New York State SEMO Region II Office
State of New York
Division of Military and Naval Affairs
State Emergency Management Office
Region II Office
Creek Road
Poughkeepsie, N.Y.

d. Joint News Center
Westchester County Airport
Bldg. 1
White Plains, N.Y.

(NOT USED)

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX F
INDIAN POINT ENERGY CENTER
RADIOLOGICAL EMERGENCY COMMUNICATIONS

RADIOLOGICAL EMERGENCY COMMUNICATIONS SYSTEM (RECS)

The following details the functional operation of the Radiological Emergency Communications System (RECS), and the RECS Locations and Participants:

(1) Functional Operation

RECS is a telephone conferencing system between the Indian Point Energy Center (IPEC), New York State, the four Counties of Orange, Putnam, Rockland and Westchester, and other organizations including the West Point United States Military Academy and the City of Peekskill. Those in the Central Control Rooms at both IPEC Unit 2 (U2CCR) and Unit 3 (U3CCR) and those at the State and the Counties Warning Points are manned continuously for the initial call and message concerning an emergency at IPEC. As necessary, other stations including the IPEC Emergency Operations Facility and Alternate Emergency Operations Facility (EOF and AEOF) and the counties Emergency Operations Centers (EOC) and NY State Coordination Centers are subsequently manned for follow-up messages.

Each location has one or more telephones capable of hands-free operation, built-in speakerphone feature, and ring and light annunciators together with other common equipment necessary to couple the station to the system. With no calls, the speakerphones are normally silent (no ring) and the light is out. Entergy Northeast initiates all RECS calls. When a call is initiated by either U2CCR or U3CCR, a continuous ring and flashing light announce the call at the other stations until they go off-hook or press the hands-free (Speakerphone) button. The ringing will time out after 15 minutes. All calls are recorded on the system server at IPEC.

Initiate a Call – All Stations Will Ring

- Lift up handset or press SP (Speakerphone or hands-free) button & dial XXXX

  ⇒ Press Mute once for listen only.
  ⇒ Press Mute again to resume to talk.

Answer a Call

- Pick Up Handset or press SP (Speakerphone or hands-free) button.

  ⇒ Press Mute once for listen only.
  ⇒ Press Mute again to resume to talk.

Disconnect

- Hang up Handset or depress SP (Speakerphone for hands-free) button to release connection.

The call conferencing system operates as a primary route on a combination of private and commercial data networks and it operates as a secondary route on the commercial telephone systems. The Local Government (State frequency) radio may also be used as back up between the U2CCR, the U3CCR, the EOF, AEOF, the county WPs and EOCs, New York State Coordination Centers, and the City of Peekskill.

The IPEC exercises administrative control over the operation, testing, maintenance and repair of the system. RECS is tested monthly by the IPEC. Troubles with the System are reported to IPEC.

(2) RECS Locations and Participants

There are fifteen locations and twenty-two participants on the system. Some Participants have Party Line arrangements, i.e. more than one phone on the same line. See Attachment A for a list of RECS locations and participants.

EXECUTIVE HOTLINE EMERGENCY COMMUNICATIONS SYSTEM

The following details the functional operation of the Executive Hotline Emergency Communications System (EHL), and the EHL Locations and Participants:

(1) Functional Operation

EHL is a telephone conferencing system between the Indian Point Energy Center (IPEC), New York State, the four Counties of Orange, Putnam, Rockland and Westchester Emergency Operation Centers,

Each location has one or more telephones capable of hands-free operation, built-in speakerphone feature, and ring and light annunciators together with other

common equipment necessary to couple the station to the system. With no calls, the speakerphones are normally silent (no ring) and the light is out. All parties can initiate a conference call.

When a call is initiated a continuous ring and flashing light announce the call at the other stations until they go off-hook or press the hands-free (Speakerphone) button.
The ringing will time out after 15 minutes. All calls are recorded on the system server at IPEC.

Initiate a Call – All Stations Will Ring

- Lift up handset or press HF (hands-free) button & dial XXXX

  ⇒ Press Mute once for listen only.
  ⇒ Press Mute again to resume to talk.

Answer a Call

- Pick Up Handset or press HF (hands-free) button.

  ⇒ Press Mute once for listen only.
  ⇒ Press Mute again to resume to talk.

Disconnect

- Hang up Handset or depress HF (hands-free) button to release connection

The call conferencing system operates as a primary route on a combination of private and commercial data networks and it operates as a secondary route on the commercial telephone systems.

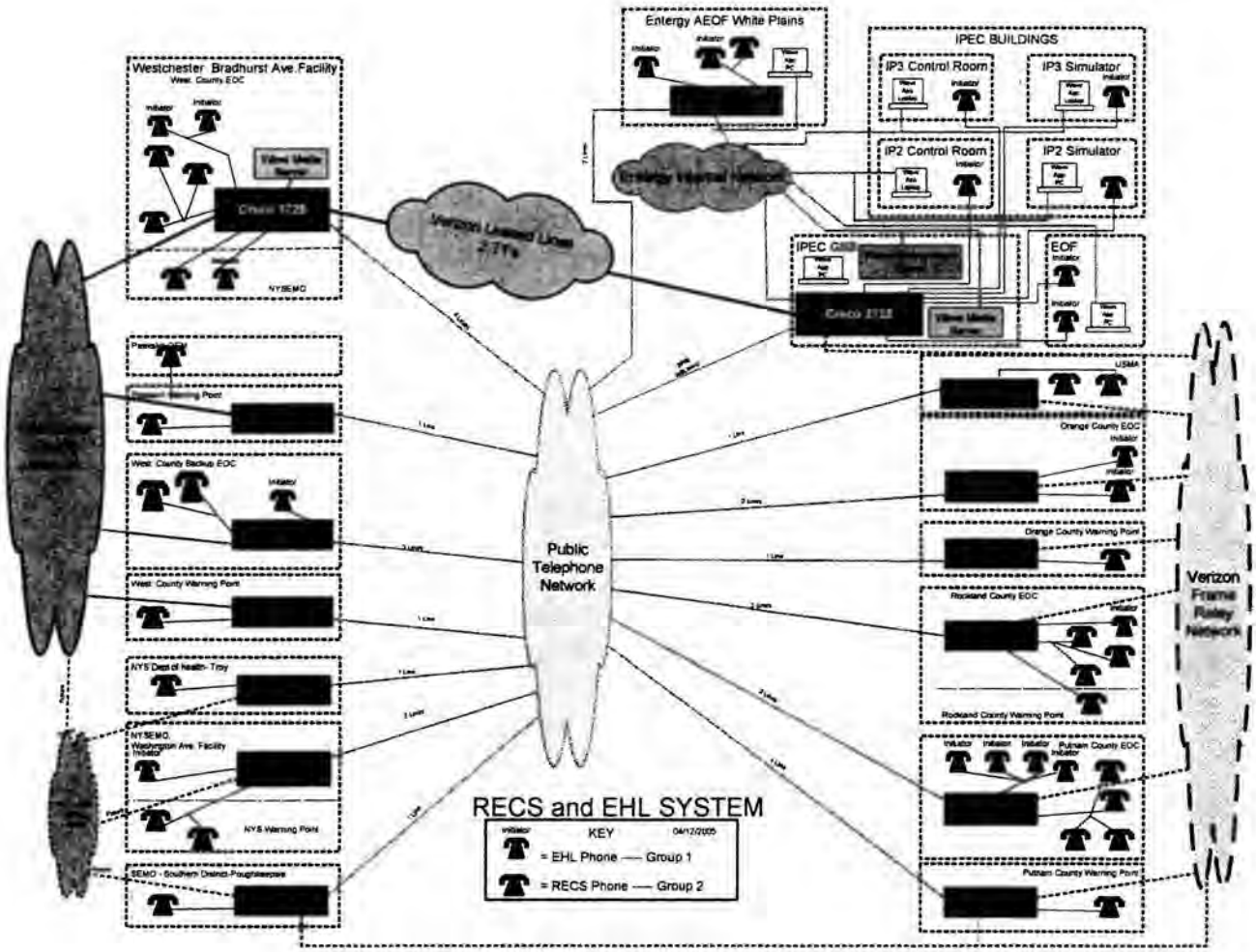
The IPEC exercises administrative control over the operation, testing, maintenance and repair of the system. EHL is tested monthly by the IPEC. Troubles with the System are reported to IPEC.

(2) EHL Locations and Participants

There are eight locations and nine participants on the system. Some Participants have Party Line arrangements, i.e. more than one phone on the same line. See Attachment B for a list of EHL locations and participants.

RECS & EHL SYSTEM CONFIGURATION

A set of common equipment, and associated telephone(s) and accessories are provided at each State and County locations (Remotes) and are interconnected by a Public and or Private Data path (Primary Route) and a Public Exchange Voice path (Alternative Route) to Indian Point Energy Center (IPEC) as the host. A backup host is provisioned- at Westchester County Emergency Operation Center at Hawthorne, New York- as an alternative to IPEC.



ATTACHMENT A- RECS LOCATIONS & PARTICIPANTS

Station Locations (22) :

A handset, hook switch or equivalent, manual ring key, speaker, tone and light annunciators together with the equipment necessary to couple the station to the circuit are provided at the following locations :

New York State Facilities
Contact: Director, Communications & Warning Section 518-457-2200

New York State Emergency Coordination Center (NYSECC) (State EOC)
State of New York
State Emergency Management Office
1220 Washington Avenue
Building #22, Suite 101
Albany, NY 12226

State Department of Health
Bureau of Environmental Radiation Protection
547 River Street, Room 530
Troy, NY 12130-2216

New York State SEMO Region 1 Poughkeepsie
Contact: Region I Director 845-454-0430

State Emergency Management Office
Region II Poughkeepsie
171 Cheney Drive
Poughkeepsie, NY 12601

Indian Point Energy Center
Contacts: Entergy Emergency Planning Manager 914-271-7479

Unit 2 Control room (U2CCR) (24 hours)
Indian Point Energy Center
295 Broadway
Buchanan, NY 10511

Unit 3 Control Room (U3CCR) (24 hours)
Indian Point Energy Center
295 Broadway
Buchanan, NY 10511

Emergency Operations Facility (EOF)
Indian Point Energy Center
295 Broadway
Buchanan, NY 10511

Alternate Emergency Operations Facility (AEOF)
Entergy Nuclear Northeast
440 Hamilton Ave.
White Plains, NY 10601

Orange County Facilities
Contact: Deputy Commissioner, Emergency Services Office 845-615-0479

Orange County Emergency Operations Center
Emergency Services Center
22 Wells Farm Road
Goshen, NY 10924

Orange County Emergency Operations Center (Orange AEOC)
255 Main Street
Goshen, NY 10924

Orange County Warning Point (Orange WP) (24 hours) Emergency Services Center
22 Wells Farm Road
Goshen, NY 10924

Rockland County Facilities
Contact: Assistant Director, Department of Emergency Services 845-364-8800

Rockland County Emergency Operations Center (EOC)
Fire Training Center
35 Firemen's Memorial Drive
Pomona, NY 10970

Rockland County Warning Point (Rockland WP) (24 hours)
Sheriff's Communication Center 845-364-8600
Fire Training Center
35 Firemen's Memorial Drive
Pomona, NY 10970

Putnam County Facilities
Contact: Deputy Commissioner, Bureau of Emergency Services 845-808-4000

Putnam County Emergency Operations (Putnam EOC)
112 Old Route Six
Carmel, NY 10512

Putnam County Warning Point (Putnam WP) (24 hours)
Putnam County Sheriff's Office 845-225-4300
County Correctional Facility
Three County Center
Carmel, NY 10512

Westchester County Facilities
Contact: Commissioner, County Department of Emergency Services 914-231-1688

Westchester County Emergency Operations Center
(Westchester EOC)
NYS Department of Transportation
Traffic Management Center
200 Bradhurst Avenue
Hawthorne, NY 10532

Westchester County Alternate Emergency Operations Center
(Westchester AEOC)
County Office Building
Sub-Basement Area
148 Martine Avenue
White Plains, NY 10601

Westchester County Warning Point (Westchester WP)
Westchester County, 60-Control
Emergency Communications Center
4 Dana Road
Valhalla, NY 10595

City of Peekskill Facilities
Contact: Police Chief or Director of Emergency Management 914-737-8000

Peekskill City Warning Point (Peekskill WP) (24 hours)
Police Headquarters
Nelson Avenue
Peekskill, NY 10566

Peekskill City Emergency Operations Center (EOC)
Police Headquarters
Nelson Avenue
Peekskill, NY 10566

United States West Point Military Academy
Contact: Chris Hennen 845-938-7092

U.S.M.A. Military Police Building (24 hours) 845-938-4206
Building 681
Provost Marshal Operations
Branch Operations Desk
West Point, NY 10996

ATTACHMENT B- EHL LOCATIONS & PARTICIPANTS

Station Locations

A handset, hook-switch, speaker and tone annunciator together with other equipment necessary to couple the station to the circuit are provided at the following locations.

New York State Facilities

State Emergency Operations Center (State EOC)
State of New York
Command Room
State Emergency Management Office
1220 Washington Avenue
Building 22, Suite 101
Albany, NY 12226

County Facilities

Putnam County Emergency Operations Center (Command Room)
Training & Operations Center
112 Old Route Six
Carmel, NY 10512

Orange County Emergency Operations Center (Command Room)
22 Wells Farm Road
Goshen, NY 10924

Westchester County Emergency Operations Center (Command Room)
NYS Department of Transportation
Traffic Management Center
200 Bradhurst Avenue
Hawthorne, NY 10532

Rockland County Emergency Operations Center (Command Room)
35 Firemen's Memorial Drive
Fire Training Center
Pomona, NY 10970

Indian Point Facilities

Emergency Operations Facility (EOF)
Indian Point Energy Center
295 Broadway
Buchanan, NY 10511

Alternate Emergency Operations Facility (AEOF)
Entergy Nuclear Northeast
440 Hamilton Ave.
White Plains, NY 10601

ROCKLAND COUNTY

RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX G
TYPICAL RADIOLOGICAL EMERGENCY EQUIPMENT LISTS

1. TYPICAL FIELD MONITORING KIT (quantity: 4)

1. Field Monitoring Procedures Folder containing:
   - a. 1 Monitoring Kit Checklist and Description of Equipment
   - b. 1 Field Monitoring Procedure
   - c. 1 Field Survey and Air Sampling Techniques
   - d. 2 Pencils
   - e. 1 Rockland County Map and 10-mile Wind Sector Map
   - f. 1 List of Utility Sampling Sites
   - g. 1 List of Rockland County Field Monitoring Sites
   - h. 1 List of Telephone Numbers
   - i. 1 Statement for Public and Police
   - j. 1 Radio Use Instructions
   - k. 10 Offsite Survey Team Data Forms
   - l. 10 Activity Logs
2. 50 Fiberglass (particulate) Filters
3. 10 Envelopes
4. 10 Charcoal Filters
5. 10 Plastic Bags
6. 1 Suture Removal Kit (for tweezers)
7. 12 Self-Adhesive Labels
8. 6 Pair Disposable Gloves
9. 3 Large Plastic Bags
10. 3 Respirators and 6 Cartridges
11. 1 Roll of Tape
12. 2 Fuses
13. 1 Screwdriver
14. 1 Lantern with Battery
15. 1 Stopwatch
16. 1 Cs-137 Check Source
17. 5 Silver Zeolite (Ag-Z) Iodine Cartridges
18. 1 HP-210 Detector and Cable
19. 1 RADECO Air Sampler
20. 1 RO-2A Meter

The following are not in the field monitoring kits, but are issued to field team members separately:

21. Self-reading dosimeters or electronic dosimeters (1 per individual)
22. TLDs (1 per individual)
23. Dosimeter Charger (1 per field team)
24. 1 Ludlum 2401P Pancake GM Survey Meter
25. Extra "D" Batteries
26. Extra 9-Volt Batteries
27. KI Tablets (1 packet per field team)
28. Radiation Exposure Record Cards
29. Protective Clothing

2. TYPICAL PERSONNEL MONITORING CENTER KIT (quantity: 7)

1. Appropriate Procedures
2. Rolls of Barrier Tape
3. Rolls of Masking Tape
4. Barrier Rope
5. Radiological Warning Signs
6. Mild Hand Soap
7. Abrasive Soap
8. Detergent
9. Soft Bristle Scrub Brushes
10. Waterless Hand Cleaner
11. Hand Cream
12. Self-reading dosimeters or electronic dosimeters (15)
13. TLDs (15)
14. Dosimeter Chargers
15. Anti-Contamination Clothing
16. Scissors
17. Cotton Swabs
18. Coveralls
19. Cloth Towels
20. Paper Towels
21. Waste Barrels/Contamination Canister
22. Plastic Trash Bags
23. Small Plastic Bags
24. Magic Markers
25. Step-off Pads
26. Traffic Cones
27. Ludlum 2401P Pancake GM Survey Meter (6) with Plastic Bags
28. Extra 9-Volt Batteries
29. Evacuee/Emergency Worker Exposure Record Forms
30. Clean Evacuee/Emergency Worker Monitoring Record Forms
31. Assorted Signs and Tags
32. PMC Team Leaders and Monitors Phone List
33. Radiation Exposure Record Cards
34. Portal Monitors
35. Potassium Iodide tablets and fact sheets
36. Water jug and cups

3. TYPICAL EOC STATION KIT (quantity: 25)

1. Appropriate Procedures, Forms, Reference Materials
2. EOC Floor Plans
3. Writing Pads
4. Pens
5. Pencils
6. Paper Clips
7. 12 inch Ruler
8. "Post It" Pads
9. In/Out Basket
10. Internal Message Forms
11. Rockland County Phone Book
12. Agency Name Plate
13. Name Tags
14. Appropriate Phone Lists

4. TYPICAL BUS COMPANY KIT (quantity: 10)

1. Self-reading dosimeters or electronic dosimeters (50)
2. TLDs (50)
3. Dosimeter Charger
4. "D" Batteries
5. KI Packets(50)
6. Radiation Exposure Record Cards
7. Appropriate Procedures
8. Bus Driver Packets (Maps)

5. TYPICAL BUS DRIVER KIT

1. Self-reading dosimeters or electronic dosimeters (1)
2. TLD (1)
3. KI Packet (1)
4. Radiation Exposure Record Card (1)
5. Appropriate Procedures or Instructions (1)
6. Appropriate Bus Driver Packet (Maps) (1)

6. TYPICAL AMBULANCE KIT (quantity: 21)

1. Ludlum 2401P Pancake GM Survey Meter
2. 9-Volt Batteries
3. Dosimeter Charger
4. "D" Batteries
5. Self-reading dosimeters or electronic dosimeters (2)
6. TLDs (2)
7. KI Packet
8. Protective Clothing
9. Radiation Exposure Record Cards
10. Appropriate Procedures or Instructions
11. Plastic Trash Bags w/Ties

7. TYPICAL FIRE COORDINATOR (quantity: 8)

1. Dosimeter Charger (1)
2. "D" Batteries
3. Self-reading dosimeters or electronic dosimeters (25)
4. TLDs (25)
5. KI Packet (25)
6. Radiation Exposure Record Cards

8. TYPICAL POLICE DEPARTMENT KIT (quantity: 14)

1. Self-reading dosimeters or electronic dosimeters (10)
2. TLDs (10)
3. Dosimeter Chargers
4. "D" Batteries
5. KI Packet (10)
6. Radiation Exposure Record Cards
7. Appropriate Procedures
8. Siren Failure-Route Alerting Manual w/message (10)

9. TYPICAL HIGHWAY DEPARTMENT KIT (quantity: 2)

1. Self-reading dosimeters or electronic dosimeters (10)
2. TLDs (10)
3. Dosimeter Chargers
4. "D" Batteries
5. KI Packet (10)
6. Radiation Exposure Record Cards
7. Appropriate Procedures

10. TYPICAL RACES KIT (quantity: 1)

1. Self-reading dosimeters or electronic dosimeters (10)
2. TLDs (10)
3. Dosimeter Chargers
4. "D" Batteries
5. KI Packet (10)
6. Radiation Exposure Record Cards
7. Appropriate Procedures

11. EOC KI INVENTORY

1. 1200 Packets

12. EOC TLD INVENTORY

1. 100 TLDs for EOC Personnel

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX H
DISTRIBUTION AND USE OF POTASSIUM IODIDE (KI)

I. ROCKLAND COUNTY POLICY ON DISTRIBUTION AND USE OF POTASSIUM IODIDE (KI)

Potassium Iodide (KI) in water soluble tablet form (130 mg and 65 mg) and in liquid form (65 mg/ml) is recommended as an appropriate thyroid blocking agent for use by members of the general public and emergency workers. NYS policy also recommends the use of KI for hospital patients and staff, nursing home patients and staff, and incarcerated or special populations in the EPZ where evacuation is not possible or feasible.

When individuals are likely to receive a projected committed dose equivalent to the thyroid of 5 Rem or greater, i.e., General Emergency (GE), KI should be considered as a protective measure prior to receiving such a dose.

The State Commissioner of Health is responsible for recommending the use of KI. When time permits, the State Commissioner will consult with appropriate local health officials prior to making this recommendation. The County Commissioner of Health is responsible for ordering the administration of Potassium Iodide for Rockland County residents.

Potassium Iodide is stored at the Emergency Operations Center and distributed to emergency workers and others, as appropriate in accordance with procedure DOH-12, Potassium Iodide (KI) Distribution.

New York State
Nuclear Emergency Preparedness Subcommittee
Technical Issues Task Force

Implementation of the Use of Potassium Iodide (KI) as a Protective Action for the Public

Revision 2
June 2007

The following individuals and organizations participated in the development of this position paper, and agree to its purpose and contents. All participants agree to implement the guidance contained herein, to the extent possible.

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Name Signature Date

Entergy Nuclear Northeast (J.A. FitzPatrick and Indian Point Energy Center)

Michael Slobodien _____ _____ _____
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Constellation Energy Group (R.E. Ginna Station)

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Name Signature Date

Executive Summary

Licensee and State members of the Potassium Iodide (KI) Task Force (KI Task Force) developed this position paper to detail the decision process by which several recommendations regarding KI distribution will be made. The Task Force agreed that upon declaration of a General Emergency by the licensee, a recommendation to evacuate and take KI would be made simultaneously. It was also agreed that a single trigger level would be used (projected dose of 5 rem to the child thyroid). This paper discusses several approaches to determine doses/iodine concentrations and whether one approach was selected over the others due to effectiveness, timeliness, ease of implementation, etc.

The following six specific recommendations were agreed upon by the KI Task Force:

1. ***"Upon declaration of a General Emergency, the following will be directed to ingest KI:***

   - ***members of the public that are directed to evacuate***
   - ***captive populations within the evacuated area***
   - ***members of the public that would otherwise have been evacuated but are directed to shelter-in-place because evacuation is not feasible."***

2. ***"If evacuation is recommended at an ECL other than a General Emergency, or for any other reason, a direction to ingest KI as described in recommendation No. 1 <u>will not</u> be made. Ingestion of KI will be recommended only upon declaration of a General Emergency."***

3. ***"Upon declaration of a General Emergency, members of the public that are directed to shelter-in-place in order to reduce dose shall be directed to ingest KI. Members of the public who are directed to monitor the Emergency Alert System <u>will not</u> be directed to ingest KI."***

4. ***"Upon declaration of a General Emergency, <u>all</u> emergency workers located within the 10-mile EPZ will be directed to take KI (one 130-mg tablet every 24 hours). This recommendation will be made at the same time as the recommendation to ingest KI is made to the general public."***

5. ***"Members of the public and captive populations who are directed to take KI shall be directed to ingest KI in the dosage recommended by the US FDA. If a scheme of graded dosing is not possible, one 130-mg tablet per person may be ingested with minimal risk for those over one year of age. Dose to neonates should be limited to 16 mg, if possible."***

"As part of a pre-distribution effort, each member of the public should be offered a quantity of KI tablets equivalent to the following:

Maximum ETE (in days-rounded up) x 1 age and/or weight dependent dose/day

Alternatively, one bottle of liquid KI may be offered per family."

The group recognizes that a strong public information campaign and clear messages during the emergency are key to a successful KI implementation program. Some implementation guidance is provided at the end of the document.

1. Purpose

The purpose of this paper is to document a technical assessment of issues associated with the distribution of Potassium Iodide (KI) to the general public, emergency workers and captive populations, and to provide implementation guidance for:

- Usage
  - General Public
  - Emergency Workers
  - Captive Populations
- Dosage and frequency
- Pre-distribution criteria

2. Regulatory Requirements and Guidance

2.1 Applicable regulations

The US Nuclear Regulatory Commission (NRC) amended emergency planning regulations to require that States consider including the prophylactic use of KI as a protective measure for the general public in the plume exposure pathway Emergency Planning Zone (EPZ) in 66 FR 5427 on 19 Jan 2001. (Ref. 1)

The Federal Emergency Management Agency (FEMA) provided notice that the Federal Radiological Preparedness Coordinating Committee (FRPCC) revised its 1985 Federal policy regarding KI use in 67 FR 1355 on 10 Jan 2002. (Ref. 2)

2.2 Current guidance

The US Food and Drug Administration (FDA) issued guidance on the use of KI in radiation emergencies in December 2001 (Ref. 3). This document concludes "Short-term administration of KI at thyroid blocking doses is safe..." (Ref. 3 IV.A.) and indicates KI dosage is dependent on age and "Predicted Thyroid Exposure" (Ref. 3 IV.B.). This document states that "The recommendation should be interpreted with flexibility as

necessary to allow optimally effective and safe dosing..." Additionally, "...the overall benefits of KI far exceed the risks of overdosing..." (Ref. 3 IV.B.).

2.3 New York State Position

In 2002, New York State, in its consideration of the subject CFR, chose to incorporate KI as an adjunct to the current range of protective actions for the public. The New York State Revised KI Policy was issued in April 2002.

2.4 Upcoming Guidance

This Position Paper will be revised as necessary to accommodate any new Federal guidance and availability of KI in different dosages.

3. Assumptions

- For optimal protection against inhaled radioiodine, KI should be administered before or immediately coincident with passage of the radioactive cloud. Effectiveness drops off rather quickly as time since radioiodine exposure increases. The effectiveness drops to about 50% if KI is taken two hours after exposure, and continues to decrease as time after exposure increases. (Ref. 3. V.).

- The recommended daily dose protects the user from radioiodine uptake for approximately 24 hours.

- KI should be taken until the person is no longer exposed to radioiodine.

- Radioiodine would only be present in the environment in sufficient quantities to exceed 5 rem child thyroid dose (CDE_T), which is the minimum dose at which KI is recommended, if a General Emergency (GE) had been declared at the facility from which the source term originates. This assumption is based on the fact that radioiodine can only be present in quantities capable of producing 5 rem child CDE_T in the presence of significant core damage and loss of primary containment, which are criteria that constitute a General Emergency.

- There will only be one trigger level to recommend KI: 5 rem to the child thyroid (CDE_T). This trigger level applies to the general public, emergency workers and captive populations.

4. Implementation Analysis

This section presents six recommendations as well as the rationale, benefits and risks associated with each. Recommendations are presented for when to issue a KI recommendation, dosage, and criteria for pre-distribution. These analyses apply to members of the public, emergency workers and captive populations.

4.1 Task Force Recommendation # 1

"Upon declaration of a General Emergency, the following will be directed to ingest KI:

- ***members of the public that are directed to evacuate***
- ***captive populations within the evacuated area***
- ***members of the public that would otherwise have been evacuated but are directed to shelter-in-place because evacuation is not feasible."***

Analysis:

Three methods were investigated to arrive to this recommendation:

- Use of a dose value,
- Use of deterministic methods, and
- Use of emergency classification.

Each analysis is described separately.

4.1.1 Using Dose Value

This analysis examines a method that utilizes projected dose to the thyroid as an indication of recommendation of KI use by the public [specifically, Committed Dose Equivalent to the child thyroid (CDE_T)]. In accordance with FDA Guidance (Ref. 3), child $CDE_T \geq 5$ rem is the indication at which KI use should be recommended.

To date, none of the New York State nuclear power facilities utilize real-time iodine monitoring. Hence, releases of radioiodine to the environment during an emergency are inferred from either grab samples or back calculated from field data. Both of these methods require several steps that need, at a minimum:

- Allocation and briefing of personnel,
- Assembling equipment and procedures to enter the field to collect and analyze samples,
- Reporting the results to an emergency facility,
- Performing calculations to determine child CDE_T,
- Relaying dose assessment information to the state/county,
- Decision-making by the state/county, and

- Dissemination of recommendations to the public.

These steps are routinely performed during emergency drills, and our experience indicates that it may take anywhere from 30-90 minutes to calculate the child CDE_T once a decision has been made to obtain a sample. Additionally, the emergency facilities that implement this analysis may take up to 60 minutes to activate after declaration of an emergency.

Normally, the calculation of the child CDE_T takes place after the completion of protective action recommendations (PARs) based on "plant conditions". The PARs for a General Emergency are to evacuate people within two-miles around and five miles downwind of the site, and advise all remaining Areas to monitor the Emergency Alert System.

Given the above:

- Child CDE_T would likely be calculated and provided to the County and the State within 105-165 minutes after the declaration of the GE.

- If the County decides that the use of KI is appropriate, given the time the county takes to make the decision and prepare public information messages, this instruction could be provided to the public in 150-210 minutes after the declaration of the GE.

4.1.2 Use of Deterministic Methods

In this case, methods that determine child CDE_T utilizing parameters such as containment high range monitor status, gross core damage estimate, and/or reactor pressure vessel and containment integrity were considered. Unfortunately, the data needed to make even rough estimations of these parameters would typically be assessed after the GE-related recommendations. Hence, the time-delay risks of such a method still apply.

Benefits of these methods

Administration of KI would occur only in the presence of radioiodine in quantities that meet or exceed the "Predicted thyroid exposure guidance" in Reference 3.

Risks of these methods

- Administration of KI would occur (up to 3-4 hours) after the release of radioiodine, decreasing the effectiveness of the prophylaxis by more than 75%.

- Administration of KI would likely occur after other protective actions (that is evacuation) have already been recommended to the public. It is unknown if the public would comply with instructions to bring KI with them.

- Members of the public may delay evacuation in order to locate their KI.

- If two separate protective actions are issued to the public (for example, an order to evacuate not accompanied by a recommendation to take KI), compliance with the respective recommendations is unknown. It is possible that the public will not differentiate between the protective actions and, when told to evacuate, may take KI as well. The risk is that the public sees these as two separate protective actions, potentially providing confusion and non-compliance.

4.1.3 Use of Emergency Classification

This analysis examines a method that would use the emergency classification level as the indication for KI use. Specifically, the indication for KI use is a declaration of a General Emergency.

- The General Emergency classification is currently used to determine evacuation PARs.
- If KI use was always implemented concurrently with the "plant condition" protective action recommendations, the public would receive the recommendation to take KI at the same time they received the order to evacuate; that is, within an hour of the declaration of the General Emergency.
- By definition, the declaration of a General Emergency presumes that "Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area." (Ref. 7).
- The EPA Protective Action Guideline (PAG) is to evacuate populations whose actual or projected exposure level equals or exceeds 5 rem Committed Dose Equivalent to the (adult) thyroid (Ref. 8).
- New York State nuclear power plant licensees calculate CDE_T to the child thyroid, and provide this number to the counties and state for comparison against the PAG's (Ref. 9).
- Hence, when the licensee recommends evacuation due to a General Emergency declaration, a child $CDE_T \geq 5$ rem either exists or is anticipated to exist at the site boundary or beyond. Though there are exceptions to this (such as GE's declared due to security issues or electrical problems) all GE's have the potential to exceed the 5 rem child CDE_T level. Calculations performed by New York State on a variety of plant conditions postulated to exist during a GE provide confirmation of this (Ref. 6).
- Given the above, it can be reasonably assumed that the radiological conditions present within the context of a General Emergency will result in meeting or exceeding the child $CDE_T \geq 5$ rem, which is also the thyroid exposure at which the FDA recommends the use of prophylactic KI.

Benefits of this method

- The recommendation to take KI could be issued earlier than the other indication methods, concurrently with the recommendation to evacuate or shelter-in-place. This would likely occur prior to the presence of radioiodine in the environment, thus providing maximum loading dose of stable iodine to the thyroid.

- Compliance with taking KI is more likely since all protective actions are being implemented at once. Also, people would be more likely to have access to pre-distributed KI.

Risks to this method

- KI could be ingested without significant radioiodine ever being present in the environment. For example, the accident may not result in a release of radioiodine to the environment. Hence the public incurs the risk of taking KI without benefit.

Risk Analysis

- The risk of taking KI is minor (Ref. 10).
- A GE condition carries a risk of radioiodine release to the public.
- KI should be taken as soon as possible once the risk of radioiodine exposure is present.
- Using projected child CDE_T as the basis for a recommendation to take KI could significantly delay KI administration.
- Providing the public with a recommendation to take KI concurrent with an order for evacuation or sheltering-in-place provides the earliest and most effective thyroid protection with the greatest likelihood of compliance.

4.4 Task Force Recommendation # 2

"If evacuation is recommended at an ECL other than a General Emergency, or for any other reason, a direction to ingest KI as described in recommendation No. 1 will not be made. Ingestion of KI will be recommended only upon declaration of a General Emergency."

Analysis

- The recommendation to take KI should be given to any persons likely to be exposed to radioiodine in quantities that may exceed the "Predicted thyroid exposure guidance" presented in Reference 3.

- This analysis suggests that persons who are ordered to evacuate due to plant conditions or due to subsequently determined projected dose may exceed the predicted thyroid dose, and should take KI.

- For the population that has been told to evacuate for any reason other than the declaration of a General Emergency the risk of radioiodine exposure is low.

- Populations who took, or were recommended to take KI coincident with the recommendation to evacuate at an emergency classification level (ECL) other than a General Emergency, or for any other reason, are at risk of depleting their pre-distributed KI supply, making it unavailable in the event of radioiodine exposure.

4.5 Task Force Recommendation #3

"Upon declaration of a General Emergency, members of the public that are directed to shelter-in-place in order to reduce dose shall be directed to ingest KI. Members of the public who are directed to monitor the Emergency Alert System will not be directed to ingest KI."

Analysis

- Upon declaration of a General Emergency, the licensee will automatically recommend evacuation for the area two miles around and five miles downwind from the plant.

- In cases where a General Emergency is the first ECL declared ("fast-breaker"), resources and facilities would not be in place to allow for orderly evacuation. It is therefore likely that the population will not be directed to evacuate, but will be directed to shelter-in-place (in order to reduce dose).

- If it has been determined that an impediment to evacuation exits (i.e., lack of transportation resources, inclement weather, or road impediment) then the county or state may decide to shelter-in-place for the purpose of reducing dose rather than evacuate.

- Given the analysis in section 4.1.3, it can be reasonably assumed that the radiological conditions present within the context of a General Emergency will result in meeting or exceeding the child $CDE_T \geq 5$ rem, which is also the thyroid exposure at which the FDA recommends the use of prophylactic KI.

- For the population that has not been evacuated and has been told to monitor the Emergency Alert System in order to maintain a heightened state of awareness, the risk of radioiodine exposure is low. The reasons for this are:

  - Due to the distance from the reactor, this population is at significantly less risk from radiation exposure from all sources, versus persons closer to the reactor.

  - Monitoring the Emergency Alert System in order to maintain a heightened state of awareness is used for projected doses of < 1 rem TEDE or < 5 rem CDE_T. Hence this population is not at risk of significant exposures to radioiodine.

- Populations that have not been evacuated, who took, or were recommended to take KI coincident with the direction to monitor the Emergency Alert System are at risk of depleting their pre-distributed KI supply, making it unavailable in the event of radioiodine exposure.

4.6 Task Force Recommendation # 4

"Upon declaration of a General Emergency, all emergency workers located within the 10-mile EPZ will be directed to take KI (one 130 mg tablet every 24 hours). This recommendation will be made at the same time as the recommendation to ingest KI is made to the general public."

Analysis

- Though current trigger levels for emergency worker KI use vary within New York State, all methods use trigger levels greater than the 5 rem child CDE_T that is associated with the general public.

- The KI Task Force has agreed that there will be one trigger level to recommend KI, and that trigger level will be 5 rem child CDE_T.

- Most emergency workers are members of the public, and many will encounter the evacuating public, who will have been told to take their KI. Additionally, emergency workers have access to the same public information that would be instructing the public to take KI. These emergency workers:

  - May not differentiate themselves from the public in the presence of instructions regarding KI.

  - May not comply with directions that differ from those being broadcast to the public.

- Since emergency workers are likely to move about between evacuated and non-evacuated areas within the EPZ, all emergency workers within the EPZ will be directed to take KI. This includes licensee emergency workers as well as county, state, and local emergency workers.

- Using the same arguments as in section 4.1, if current methods are continued, emergency workers would receive a recommendation to take KI while in the field. This method:

  - Is likely to result in a recommendation to take KI after exposure to radioiodine has already occurred.

  - Has potential delays due to the communications lag present when contacting several hundred emergency workers in the field.

- Directing emergency workers to take KI in the absence of radioiodine has the same risks and benefits detailed in section 4.1.

4.7 Task Force Recommendation # 5

"Members of the public and captive populations who are directed to take KI shall be directed to ingest KI in the dosage recommended by the US FDA. If a scheme of graded dosing is not possible, one 130-mg tablet per person may be ingested with minimal risk for those over one year of age. Dose to neonates should be limited to 16 mg, if possible."

Analysis

The FDA guidance (Ref. 3) contains a number of age dependent doses. These recommendations are the lowest effective dose. Emergency planners and others should understand that absolute precision in dosing is generally not critical to safety or efficacy. Higher doses (e.g., up to 130 mg) would be equally effective and, particularly among school-age children, extremely safe (Ref. 10).

In addition to 130 mg tablets, KI is now FDA-approved and available in 65 mg tablets and liquid (65 mg/ml).

Threshold Thyroid Radioactive Exposures and Recommended Doses of KI for Different Risk Groups

	KI dose (mg)	# ml liquid (65 mg/ml)	# of 65 mg tablets	# of 130 mg tablets
Adults over 40 yrs	130	2	2	1
Adults over 18 through 40 yrs				
Pregnant or lactating women				
Adolescents over 12 through 18 yrs who weigh at least 150 pounds	130	2	2	1
Adolescents over 12 through 18 yrs who weigh less than 150 pounds	65	1	1	1/2
Children over 3 through 12 yrs	65	1	1	1/2
Over 1 month through 3 years	32	1/2	1/2	1/4
Birth through 1 month	16	1/4	1/4	1/8

A scheme of graded dosing may be difficult to implement during a radiological emergency involving large numbers of people. If local emergency planners conclude that graded dosing is logistically impractical, for populations at risk for radioiodine exposure, the overall benefits of taking up to 130 mg of KI instead of the lower doses recommended for certain age groups far exceed the small risks of overdosing. However, where feasible, adherence to FDA guidance

should be attempted when dosing infants. Ideally, neonates should receive the lowest dose (16 mg) of KI. Excess iodine intake can lead to transient iodine-induced hypothyroidism in neonates, which can impact intellectual development. Individuals who are intolerant of KI at protective doses, as well as neonates, pregnant, and lactating women, should be given priority with regard to other protective measures (i.e., sheltering-in-place, evacuation, and control of the food supply) (Ref. 10).

This analysis recognizes:

- Potential confusion relating these doses to the public.
- Practical issues associated with delivering doses based on fractions of a tablet. This would require sectioning KI tablets in order to achieve a desired delivered dose.
- Likely lack of compliance regarding dose given the above issues.

Benefits to this method

- Instructions to follow the FDA recommendations if possible, but allowing up to 130 mg for persons over one year of age, and limiting neonates to 16 mg are easily related in public information material.
- Simple instructions are more likely to be complied with.

Risks to this method

This recommendation may provide a dose to children significantly in excess of the FDA requirements. In light of potential developmental consequences of even transient hypothyroidism, neonates who receive KI should be medically monitored and thyroid hormone therapy given in cases where hypothyroidism develops. This action should be incorporated into the State and county plans.

Risk Analysis

- The risk associated with excessive KI is less than the risk of exposure to radioiodine (Ref. 3).
- The public is more likely to comply with simple dose instructions.
- The FDA has indicated that the use of a single 130-mg dose for all members of the public is safe, regardless of age (Ref. 10).

.8 Task Force Recommendation # 6

"As part of a pre-distribution effort, each member of the public should be offered a quantity of KI tablets equivalent to the following:

Maximum ETE (in days-rounded up) x 1 age and/or weight dependent dose/day.

Alternatively, one bottle of liquid KI may be offered per family."

Analysis

- The public should be provided with sufficient KI to assure that thyroid prophylaxis is available to accommodate an expected duration of exposure to radioiodine.
- Given that evacuation of the public is the preferred method of preventing exposure, in an incident that could result in the release of radioiodine, the public could be expected to be exposed for a period of time equal to the greatest Evacuation Time Estimate (ETE) for the facility in question.
- One dose of KI protects the thyroid for approximately 24 hours (one day).

It is possible that impediments to evacuation may prevent the egress of portions of the population that would otherwise be evacuated (examples are road impediments such as heavy snowfall or transportation resource shortfalls), however, those conditions are accommodated in each nuclear facility's ETE.

- Given the above, pre-distribution efforts should provide sufficient KI in accordance with the following:

Maximum ETE (in days-rounded up) x 1 age and/or weight dependent dose/day
= *# KI tablet(s) per person that should be pre-distributed*

Example: At Nine Mile Point, the maximum amount of time it would take to evacuate any member of the public is 8 hours, 20 minutes, as indicated in that facility's ETE (Ref. 4). Rounded up, that is equivalent to 1 day. Plugging this into the above formula:

1 day x 1 age and/or weight dependent dose/day
= 1 age and/or weight dependent dose

In this example, one tablet of the appropriate dosage should be offered per person in a pre-distribution method. If 65 mg tablets are not available, 130 mg tablets may be offered. Alternatively, one bottle of liquid KI per family may be offered.

5. Implementation Considerations

This section provides suggestions for implementing the recommendations contained above.

5.1 Licensee actions

The Part 1 Notification Fact Sheet item 7.B. should be modified to read, "Evacuate and implement the KI plan for the following Areas". This action was completed 5 May 2003.

5.2 County and State actions

- Emergency plans should be modified to include:
  - The addition of KI as a protective action for the public.
  - The above protective action may be implemented for the evacuating public and those directed to shelter-in-place upon declaration of a General Emergency.
  - The recommended dose will be in accordance with FDA guidance. If a scheme of graded dosing is not possible, one 130-mg tablet per person may be ingested with minimal risk for those over one year of age. Dose to neonates should be limited to 16 mg, if possible.
  - Dose should be repeated every 24 hours while the person is exposed to radioiodine.
  - All emergency workers located within the 10-mile EPZ will be instructed to take KI upon declaration of a General Emergency (that is, concurrent with the recommendation to the evacuating population).
  - KI distribution policies and procedures, both pre- and post-event.
- Public information plans should be modified to include:
  - KI purpose, dose, distribution methods (pre- and post-event) and precautions (consistent with NYS and FDA guidance) in public education materials.
  - Incorporation of KI protective action details into EAS follow-up messages.

6. Glossary/Acronyms

CDE_T (Committed Dose Equivalent to the thyroid) -the radiation dose due to radioiodine in the thyroid over the 50-year period following exposure. In this document, *CDE_T* is used to refer to the committed dose equivalent to the child thyroid.

CFR (Code of Federal Regulations) -

Day - 24 hour period

ECL (Emergency Classification Level) - one of four classes used to describe emergencies at nuclear power plants.

EAS (Emergency Alert System) - broadcasting facilities that have been authorized by the Federal Communications Commission to operate in a controlled manner during a war, state of public peril or disaster, or other national emergency.

EPZ (Emergency Planning Zone) - the 10-mile radius around a nuclear power plant used for emergency planning purposes.

Evacuation - the urgent removal of people from an area to avoid or reduce high-level, short-term exposure, usually from the plume or from deposited radioactivity. Evacuation may be a preemptive action taken in response to a facility condition rather than an actual release.

ETE (Evacuation Time Estimate) - the time it is estimated to take to evacuate a certain area taking into consideration population size, road conditions, etc.

FEMA (Federal Emergency Management Agency) - the federal agency responsible for coordinating federal response to an emergency.

FR (Federal Register)

FRPCC (Federal Radiological Preparedness Coordinating Committee)

GE (General Emergency) - the most serious of four NRC emergency classes. Classification as a general emergency indicates that events are in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential loss of containment integrity. Releases can reasonably be expected to exceed EPA Protective Action Guide exposure levels offsite for more than the immediate site area.

Maintain a heightened state of awareness - go inside and monitor EAS.

Neonate - infant under 1 month of age

NRC (Nuclear Regulatory Commission) - the federal agency that licenses and regulates nuclear power plants. The NRC would be the lead federal agency for responding to an emergency at a nuclear power plant.

PAG (Protective Action Guide) - the projected dose to reference man, or other defined individual, from an accidental release of radioactive material at which a specific protective action to reduce or avoid that dose is warranted.

Shelter-in-Place - a protective action where people go indoors, close all doors and windows, turn off all sources of outside air, and remain indoors until officially notified that it is safe to go out.

US FDA (United States Food and Drug Administration) - the federal agency, which among other things, is responsible for evaluating and approving drugs.

References

(Ref. 1) 66 FR 5427 (19 Jan 2001).

(Ref. 2) 67 FR 1355 on (10 Jan 2002).

(Ref. 3) Guidance: Potassium Iodide as a Thyroid Blocking Agent in Radiation Emergencies: USFDA, Dec 2001.

(Ref. 4) Nine Mile Point / James A. FitzPatrick Nuclear Facility Development of Evacuation Time Estimates, August 2003

(Ref. 5) EPA 400-R-92-001, Manual or Protective Action Guides and Protective Actions for Nuclear Incidents, USEPA, May 1992.

(Ref. 6) (NYSDOH RASCAL calculation).

(Ref. 7) NUREG-0654 FEMA REP 1: Appendix 1.

(Ref. 8) EPA 400-R-92-001, Manual or Protective Action Guides and Protective Actions for Nuclear Incidents, USEPA, May 1992, Table 2-2 footnote b.

(Ref. 9) Implementation of the new EPA Protective Action Guides in Existing Emergency Programs for Nuclear Power Plants in New York State, March 1994.

(Ref. 10) Guidance for Industry: KI in Radiation Emergencies – Questions and Answers, Revision 1, USFDA, December 2002.

III. Protective Countermeasures for Radioactive Iodine Inhalation

Several methods are available for minimizing thyroid exposure from the plume of radioactive iodine.

a. Evacuation. This method would eliminate any exposure if completed prior to the plume passing the area of concern.

b. Sheltering. This method will reduce the overall exposure by affording the population attenuation from radiation. Implementation of protective measures such as closing windows and doors, stopping air conditioners, and closing ventilation systems reduces the inhalation of air from a passing radioactive plume.

c. Respiratory protective devices can also be utilized to reduce the inhalation of radioactive iodine. The respirators should incorporate charcoal filter mechanisms to maximize the protection from inhalation of radioiodine. "Ad hoc" respiratory protection can also be improvised (e.g. breathing through folded damp handkerchief, etc.) to reduce the intake of radioactive iodine.

d. Thyroid Blocking Agents. Agents that block accumulation of radioiodine by the thyroid gland are available in different chemical compounds. However, only one type is approved by FDA for thyroid blocking purposes–potassium iodide.

Iodide acts on the thyroid in different ways: (1) as substrate, (2) by suppression of the release of organic iodine from the gland, (3) by inhibition of organic formation, (4) by saturation of the iodide transport system, (5) by the formulation of an organic iodine compound that inhibits the further uptake of I-131. The onset of inhibition is rapid and is readily demonstrated 30 minutes after oral administration. An important factor in obtaining satisfactory acute blocks of radioiodine uptakes is the speed of iodide administration after exposure to radioiodine. The timeliness of thyroid blocking is of primary importance since it can be shown by standard uptake curves that, after a single pulse of radioiodine, the bulk of it has entered the gland by 10-12 hours and little benefit may be expected by blocking beyond this time.

IV. Policy for Use of KI

The National Council on Radiation Protection and Measurements (NCRP), a non-profit corporation chartered by Congress in 1964, prepared a report, "Protection of the Thyroid Gland in the Event of Releases of Radioiodine," (No. 55). The following is the summary of their recommendations regarding KI:

- A major protective action to be considered after a serious accident at a nuclear power facility involving the release of radioiodine is the use of stable iodide as a thyroid blocking agent to prevent thyroid uptake of radioiodines.

- For greatest effectiveness, the blocking agent should be administered within a few hours after an accident. Since reliable radiation monitoring data may not be available that quickly, the decision to administer stable iodide should be based on a pre-planned estimate of the probable degree of contamination from the accident.

- If the initial estimate of the facility indicates that thyroid total absorbed doses of 10-30 rad or more are projected, the blocking agent should be administered immediately to employees at the facility and to support personnel coming to or working near the facility.

- If the estimate of thyroid total absorbed dose is less than 10 rad, it may be preferable to consider instructing people to remain indoors and to await further instructions, before deciding to administer thyroid blocking agents. If the estimates of the total thyroid absorbed dose exceed 10 rad, blocking agents should be considered.

Based on information supplied by the facility operator as to the magnitude of the accident, State and local officials should consider prompt administration of the blocking agent (without making absorbed dose estimates) to emergency personnel who respond to the accident. This group includes police officers, firemen, physicians, health physicists, nurses, ambulance drivers and paramedical personnel. These people would be considered a "high-risk" group.

For people beyond the immediate vicinity of the reactor, the decision to administer stable iodide, to instruct them to remain indoors, or to evacuate would depend on the type of accident, on pre-planned estimates of release, on wind direction and, later, on monitoring data as it becomes available.

Potassium Iodide can and may be stocked at the nuclear facility, firehouses, police stations, hospitals, clinics, factories, office buildings, municipal buildings, physicians and dentists offices, pharmacies, and other locations where normal emergency medical services are usually available.

A daily dose of 130 mg of potassium iodide (1 tablet) will provide adequate blocking for each person. A half tablet may be given to children under one year of age. One tablet should be taken each day until the public is advised that the emergency has ended. The first dose should be taken as soon after the warning as possible. Instructions for the cessation of iodide administration is the responsibility of public health authorities.

The need for blocking agents is estimated as being required for 3-7 days and probably no longer than 10 days for a total dose of about 1 gram.

New York Academy of Medicine Position-- At the present time, The New York Academy of Medicine, Committee on Public Health opposes the stockpiling of potassium iodide for the purpose of potentially protecting the population against accidental exposure to radioactive iodine in New York City.

V. Federal Policy

Prior to April 1982, the FDA had not defined recommendations regarding the use of KI during radiological emergencies. This lack of definitive criteria by the Federal Government caused the States to develop policies independent of Federal Guidance.

In April 1982, the FDA published final recommendations regarding the use of KI. These recommendations established the framework for the development of KI policies.

The Federal Government planning criteria, NUREG-0654, FEMA-REP-1, Rev. 1, had specific criteria for the development of plans regarding KI usage. The specific FEMA criteria is cited below:

> The organization's plans to implement protective measures for the plume exposure pathway shall include provisions for the use of radioprotective drugs, particularly for emergency workers and institutionalized persons within the plume exposure EPZ whose immediate evacuation may be infeasible or very difficult, including quantities, storage, and means of distribution.

State and local organizations' plans should include the method by which decisions by the State Department of Health for administering radioprotective drugs to the general population are made during an emergency and the predetermined conditions under which such drugs may be used by offsite emergency workers.

VI. KI Logistics

KI will be available for the general public, emergency workers and captive populations. The captive population includes hospital patients and staff, nursing home patients and staff, and incarcerated populations.

The Plan calls for the pre-distribution of one tablet of KI per person as appropriate. The recommended dosage is one tablet per person per day. The minimum duration of consumption is three days. Adequate inventories of KI for use by the above-mentioned populations are available to State and County agencies and will be distributed in accordance with procedure DOH-12, Potassium Iodide (KI) Distribution.

VII. Procurement of KI Supply

Anbex Labs of New York has been authorized by the FDA to produce KI in tablet form for use during radiological emergencies. These tablets are 130 mg dosage and packed 14 tablets per packet.

The liquid form of KI was also considered. However, after consultation with health authorities, this form was not chosen for emergency workers primarily due to inaccuracies in administering the proper dosage to individuals.

The State will coordinate the acquisition of KI for State and County emergency workers. Supplies for captive populations will be the responsibility of those organizations in charge of their respective populations.

The State emergency worker supply of KI should be stored at the same locations where dosimeters and TLDs are located. Each State agency will utilize their respective dosimeter/TLD distribution procedures for the packets of KI.

The County emergency worker supply of KI should also be stored with the dosimeters and TLDS. Each County agency may utilize their respective dosimeter/TLD distribution procedures for the packets of KI.

A backup supply of KI is stored at the Rockland County Office of Fire and Emergency Services. The storage of KI tablets will conform to the manufacturer's instructions. KI should be stored at controlled room temperature between 15 and 30 degrees Centigrade (59 to 80 degrees Fahrenheit). The packet must be tightly closed and protected from light.

Inventory accountability for the supply of KI should be added to the existing equipment inventory procedures.

VIII. Medical Aspects

The administration of KI requires maintaining a log of persons taking KI. The State and County emergency workers will utilize their Radiation Exposure Control Cards for logging their consumption of KI. Captive populations should utilize a KI Registry Form that contains the following information: name, social security number, facility, date and amount taken.

The two forms will be utilized for recording any immediate side effects of the consumption of KI tablets.

Upon termination of the accident that required the consumption of KI tablets, all records of consumption will be tabulated by the local health units and forwarded to the New York State Department of Health.

A review of the FDA policy for KI was conducted to verify conformance with the New York State Board of Pharmacy Regulations regarding this particular use of KI. No discrepancies were identified.

IX. Education Needs

The following audiences require training on details regarding distribution, shelf-life, required uses, who should use KI, benefit vs. risk data, instructions for use and medical consultation with physicians:

- Medical doctors and public health officials,
- State and County emergency workers,
- Special population residents and staff,
- NYSDOH, and SEMO staff.

X. Reference

FDA01 Guidance, Potassium Iodide As a Thyroid Blocking Agent in Radiation Emergencies, US Department of Health and Human Services, Food and Drug Administration, Center for Drug Evaluation and Research. December, 2001.

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX I
COUNTY RESPONSE ACTION LEVEL GUIDELINES

EMERGENCY CLASSIFICATION	POTENTIAL OFFSITE RADIOLOGICAL DOSE	RESPONSIBLE AGENCY	COUNTY RESPONSE ACTIONS
Unusual Event	None	Office of Fire & Emergency Services (OFES)	1. Escalate to a more severe class, if appropriate. 2. Stand by until verbal closeout.

EMERGENCY CLASSIFICATION	POTENTIAL OFFSITE RADIOLOGICAL DOSE	RESPONSIBLE AGENCY(S)	COUNTY RESPONSE ACTIONS
Alert	Less than 1 Rem TEDE Less than 5 Rem TODE	Sheriff	1. Notification of County Response Agencies.
		OFES	2. Augment resources and activate EOC and other primary response centers.
		OFES and County Response Agencies	3. Alert to standby status/activate key emergency personnel including monitoring teams and associated communications.
		Department of Health (DOH)	4. Provide confirmatory radiation monitoring, if appropriate.
		Emergency Coordinator and OFES	5. Implement appropriate initial precautionary operations.
		OFES and County Response Agencies	6. Escalate to a more severe class, if appropriate. Maintain Alert status until verbal closeout or reduction of emergency class.

Note: TEDE means Total Eff. Dose Equivalent
TODE means Total Organ Dose Equivalent

EMERGENCY CLASSIFICATION	POTENTIAL OFFSITE RADIOLOGICAL DOSE	RESPONSIBLE AGENCY(S)	COUNTY RESPONSE ACTIONS
Site Area Emergency	Less than 1 Rem TEDE 5 Rem TODE	County Response Agencies	1. Provide any assistance requested.
		OFES, Sheriff, JNC PIO	2. Activate public notification system and provide the public with periodic updates on emergency status.
		OFES and County Response Agencies	3. Augment resources by activating primary response centers.
		Sheriff, OFES, DOH	4. Dispatch key emergency personnel including monitoring teams and associated communications.
		Sheriff, OFES, County Response Agencies	5. Alert to standby status other emergency personnel (e.g. those needed for evacuation) and dispatch personnel to duty stations.
		DOH	6. Provide offsite monitoring results to NFO and others and jointly assess them

EMERGENCY CLASSIFICATION	POTENTIAL OFFSITE RADIOLOGICAL DOSE	RESPONSIBLE AGENCY(S)	COUNTY RESPONSE ACTIONS
Site Area Emergency (Cont'd)		OFES and DOH	7. Continuously assess information from NFO and offsite monitoring with regard to changes to protective actions already initiated for public and mobilizing evacuation resources.
		DOH and State DOH	8. Recommend placing milk animals within 2 miles on stored feed and assess need to extend distance.
		JNC PIO	9. Provide press briefings.
		OFES and County Response Agencies	10. Maintain Site Area Emergency status until closeout or reduction of emergency class or escalate to General Emergency class, if appropriate.

EMERGENCY CLASSIFICATION	POTENTIAL OFFSITE RADIOLOGICAL DOSE	RESPONSIBLE AGENCY(S)	COUNTY RESPONSE ACTIONS
General Emergency	Greater than 1 Rem TEDE Greater than 5 Rem TODE	County Response Agencies	1. Provide any assistance requested.
		OFES, Sheriff, JNC PIO	2. Activate public notification system and provide the public with periodic updates on emergency status.
		OFES and DOH	3. Consider evacuation of 2 mile radius and and 5 mile down wind and assess need to extend distance. Consider sheltering of remaining Areas.
		OFES and County Response Agencies	4. Augment resources by activating primary response centers.
		Sheriff, OFES, DOH	5. Dispatch key emergency personnel including monitoring teams and associated communications.

EMERGENCY CLASSIFICATION	POTENTIAL OFFSITE RADIOLOGICAL DOSE	RESPONSIBLE AGENCY(S)	COUNTY RESPONSE ACTIONS
General Emergency (Cont'd)		OFES and County Response Agencies	6. Dispatch other emergency personnel to duty stations within 5 mile radius and alert all others to standby status.
		DOH	7. Provide offsite monitoring results to NFO and others and jointly assess them.
		OFES and DOH	8. Continuously assess information from NFO and offsite monitoring with regard to changes to protective actions already initiated for public and mobilizing evacuation resources.
		DOH and State DOH	9. Recommend placing milk animals within 10 miles on stored feed and assess need to extend distance.
		JNC PIO	10. Provide press briefings.

EMERGENCY CLASSIFICATION	POTENTIAL OFFSITE RADIOLOGICAL DOSE	RESPONSIBLE AGENCY(S)	COUNTY RESPONSE ACTIONS
General Emergency (Cont'd.)		OFES and County Response Agencies	11. Maintain General Emergency status until closeout or reduction of emergency class.

(NOT USED)

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX J
PUBLIC INFORMATION

Procedures for the Rockland County Public Information Officer and personnel are contained in the County Public Information Procedure, PI-1, and the Joint Information Center Procedures, Public Education Work Plan, Hawthorne, 2006, which is on file at the Joint Information Center and at the State Emergency Operations Center.

(NOT USED)

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX K
LETTERS OF AGREEMENT AND SUPPORT PLANS

1. SUPPORT PLANS

Rockland County Police Mutual Aid Plan
Rockland County Fire Mutual Aid Plan
New York State First District Ambulance Association Plan
Indian Point Joint News Center Procedures and Public Information/Education Workplan
Westchester County Radiological Emergency Preparedness Plan
Orange County Radiological Emergency Preparedness Plan
Putnam County Radiological Emergency Preparedness Plan
New York State Radiological Emergency Preparedness Plan and NYS Support Plans and Procedures
USCG Captain of the Port, New York, Radiological Emergency Response Plan
New York Power Authority and Con Edison Company Alert and Notification System, Indian Point Nuclear Power Plants
Entergy Indian Point 3 Nuclear Power Plant- Emergency Plan
Emergency Plan for the Indian Point Unit Nos. 1 and 2, Entergy
Procedure for Obtaining EMS Ambulance Service in the Event of a Mass Casualty Incident in Rockland County, New York (Ambulance Mutual Aid Plan).
Rockland County Comprehensive Emergency Plan

2. LETTERS OF AGREEMENT

The following organizations have Letters of Agreement/Memoranda of Understanding with Rockland County for the utilization of their facilities, and/or equipment and/or personnel and are on file at the Office of Fire and Emergency Services:

Congers/Valley Cottage Ambulance Corps
Hatzolah Ambulance Corps
Haverstraw Ambulance Corps
Nanuet Community Ambulance Corps
New City Volunteer Ambulance Corps
Nyack Community Ambulance Corps
Rockland Paramedics
Rockland Mobile Care
Piermont Ambulance Corps

Pearl River Alumni Ambulance Corps.
Ramapo Valley Ambulance Corps.
Sloatsburg Community Ambulance Corps.
South Orangetown Ambulance Corps.
Spring Hill Community Ambulance Corps.
Stony Point Ambulance Corps.
W.P. Faist

East Ramapo Central School District
Ramapo School District
Nanuet School District
South Orangetown School District
Pearl River School District

St. Thomas Aquinas College
Bergen Catholic High School
St. Joseph's High School
Board of Education of the Bergen County Vocational School*

Haverstraw Transit, Inc.
Peter Brega, Inc.
Clarkstown Central School District
Chestnut Ridge Transportation, Inc. (formerly Act II Transportation)
East Ramapo Central School District
Coach USA (formerly Red and Tan Lines)
Student Bus Co. (formerly Laidlaw Transit Inc.)
Monsey New Square Trails Corp.
Town of Clarkstown (Mini-Trans)
BOCES - Nyack

Bergen County (NJ)

Good Samaritan Hospital

Congregate Care Centers are under agreement with the American Red Cross

* NOTE: This MOU applies to the following facilities:

Central Technical Education Center
Paramus Special Needs

(NOT USED)

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX L

EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS

TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
AI-Item	a	Identification of Response Organizations	Part I, Section I-E, and Section III
	b	Organization Concept of Operations	Part I, Section III
	c	Organization Inter-relationships - Block Diagram	Part I, Section III-C, Table III-1, ADMIN-4
	d	Designation of Organization Director	Part I, Section III-B.1 and C.1, EC-1, ADMIN-4
	e	24-Hour Response/Communication	Part I, Section III-B.2 and B.4, RCS-4
A2-Item	a	Organization Authority	Part II, Section III, ADMIN-4
	b	Legal Basis for Organization Authority	Part I, Section I-F
A3		Written Agreements with Supporting organizations	Part I, Section I-E, & Appendix K, see also NYSREPP, IP REPP for Westchester Co.
A4		Designated Authority for Organization Resource Continuity	Part I, Section III-B.1 and B.2

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EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
B		Onsite Emergency Organization	N/A
CI-Item	a	Authority to Request RAP/IRAP	Part I, Section I-E
	b	Federal Resources	Part I, Section III-B.6
	c	Resources to Support Federal Agencies	Part I, Section I.E.3 See NYS REPP
C2-Item	a	Organization Representative at Near-Site Emergency Operations Facility	Part I, Section III-B.6
	b	NFO Liaison to EOC	Part I, Section III-B.2
C3		Radiological Laboratories	See NYS REPP
C4		Assistance Sources	Part I Section III, Appendix K
D1		Facility Emergency Classification System	N/A
D2		Appendix I/FSAR Conditions and Postulated Accidents	N/A
D3		Emergency Classification System and Emergency Action Level Scheme	Part I, Section I-C, and Appendix I

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EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER	CRITERIA	LOCATION (REPP)
D4	Procedures for Emergency Action Consistent with Emergency Actions Recommended by Nuclear Facility	Part I, Section III-B.6, DOH-5, DOH-6
E1	Procedures for Organization Notification/Verification	Part I, Section III-B.2, all RERAPs Numbered 1, RCS-4
E2	Personnel Notification/Alert/ Mobilization Procedures	Part I, Section III-B.2, RCS-4
E3	Contents of Initial Plant Emergency Messages	N/A
E4	Provision for/Content of Plant Follow-Up Messages	N/A
E5	Dissemination of Information from Plant Operators	Part I, Section III-B.3 and B.8.d and C.5, Appendix J, PI-1
E6	Means/Time for Population Notification within Plume Exposure Pathway	Part I, Section III-B.5 and C.4, Appendix J, RCS-6

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NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
E7		Provision for Written Public Instructions consistent with Licensee Classification Scheme	Part I, Section III-B.3, Appendix J, PI-1
F1-Item	a	24-Hour Notification of Emergency Response Network	Part I, Section III-B.2 and B.4, RCS-4
	b	Provision for Communications with contiguous State/Local Governments	Part I, Section III-B.4
	c	Provision for Communications with Federal Organizations	See NYS REPP Part I, Section III-2.3.2, Procedure B, Section 5.7, And Procedure H, Section 6.2.2
	d	Provision for Communications Between Facility and Emergency Operations Centers	Part I, Section III-B.4 and B.6, Appendix F, DOH-7,
	e	Provisions for Alert/Activation of Response Organization Personnel	Part I, Section III B.2 and B.4, RCS-4
	f	Provision for Communication with NRC/Emergency Operations Facility	N/A
F2		Medical Communications	Part I, Section III-B.4, EMS-2
F3		Communications System Testing	Part I, Section II-B.3 and B.4, Appendix F, ADMIN-6

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TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
G1		Public Emergency Education/Information	Part I, Section II-B.6 and Section III-C.5
G2		Public Emergency Education Program	Part I, Section II-B.6 and Section III-B.8.d and C.5
G3-Item	a	Public Information Control Point	Part I, Section III-B.3 and C.5, PI-1
	b	Space for News Media	N/A
G4-Item	a	Designated Public Information Spokesperson	Part I, Section III-B.3 and C.5, PI-1
	b	Spokesperson Information Exchange	Part I, Section I-D and Section III-B.3, PI-1
	c	Public Inquiry	Part I, Section III-B.3, PI-1
G5		News Media Education Program	Part I, Section II-B.6
H1		Technical/Onsite Operational Support Centers	N/A

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EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER	CRITERIA	LOCATION (REPP)
H2	Principal/Alternate Near-Site Emergency Operations Facility	N/A
H3	Provision for Emergency Operations Center	Part I, Section III-B.2, Appendix E, OES-1, OES-2, OES-3
H4	Provision for Timely Activation/ Staffing of Centers/Facilities	Part I, Section III-B.2, OES-3, OES-5, RCS-4
H5	Onsite Monitoring Systems	N/A
H6	Offsite Monitors	N/A
H7	Provision for Offsite Radiological Monitoring Equip-	Part I, Section III-B.6, Appendix G, DOH-7, DOH-11
H8	Provision for Meteorological Instrumentation/Procedures	N/A
H9	Provisions for Onsite Operations Support Center	N/A
H10	Inspection/Inventory/Calibration of Emergency Equipment/Instruments	Part I, Section II-B.4, ADMIN-5
H11	Identification of Emergency Kits in Appendix	Part I, Appendix G

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EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER	CRITERIA	LOCATION (REPP)
H12	Centralized Analysis of All Field Monitoring Data	Part I, Section III-B.6, DOH-5, DOH-7
I1	Identification of Plant Condition Parameters and Corresponding Emergency Classes	N/A
I2	Accident Sampling and Monitoring Capability	N/A
I3	Operator Methods/Techniques	N/A
I4	Onsite/Offsite Exposures and Contamination for Various Meteorological Conditions	N/A
I5	Acquisition of Meteorological Information	N/A
I6	Determination of Release Rate/ Projected Doses Given Inoperable Instrumentation	N/A
I7	Capabilities for Field Monitoring Within the Plume Exposure EPZ	Part I, Section III-B.6, DOH-5, DOH-7, DOH-11

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EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER	CRITERIA	LOCATION (REPP)
I8	Capability for Assessment of Actual/Potential Magnitude of Location of Radiological Hazards	Part I, Section III-B.6, DOH-5, DOH-7, DOH-11
I9	Capability to Detect Airborne Radioiodine Concentrations as Low as 10E-7 uCi/cc	Part I, Section III-B.6, DOH-5, DOH-7, DOH-11
I10	Estimation of Integrated Doses; Comparison with Protective Action Guides	Part I, Section III-B.6, DOH-5, DOH-6
I11	Track Airborne Plume	N/A
I11	Capability to Warn Onsite Non-Emergency Employees	N/A
J2	Offsite Shelter/Evacuation of Onsite Personnel	See Westchester County REPP
J3	Radiological Monitoring of Personnel Evacuated from Site	N/A
J4	Onsite Non-Essential Personnel Evacuation/Decontamination at Offsite Facility	N/A
J5	Accountability for Onsite Personnel	N/A

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EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
J6-Item	a	Onsite Personnel Respiratory Protection	N/A
	b	Onsite Personnel Protective Clothing	N/A
	c	Onsite Use of Radioprotective Drugs	N/A
J7		Recommendation of Protective Actions to Offsite Authorities	N/A
J8		Onsite Plan Contains Plume Exposure EPZ Evacuation Time Estimates	N/A
J9		Protective Action Guides (Personnel Exposure/Food Stuffs)	Part I, Section III-B.6, DOH-5 DOH-6
JI0-Item	a	Maps of Evacuation Routes/Sectors/ Relocations Centers	Part I, Appendix A and Appendix P, DOH-7, DOH-11
	b	Population Distribution by Sector/ Zone	Part I, Appendix B
JI0-Item	c	Means for Notification of Transients/Resident Population	Part I, Appendix A, III-B.8.d, RCS-6
	d	Protection of Impaired Persons	Part I, Section III-B.8.d, DPT-1, DPT-2, DSS-1 SFC-1, Att.2

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NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
	e	Radioprotective Drug Distribution	Part I, Section III-B.7 and Appendix H, DOH-8
	f	Radioprotective Drug Administration	Part I, Section III-B.7, Appendix H, DOH-8
	g	Means of Relocation	Part I,Section III-B.8.d, DPT-1, DPT-2
	h	Relocation Centers 5 to 10 Miles Beyond the EPZ	Part I, Section III-B.8.d, Appendix E, Appendix P, DSS-1, DSS-2
	i	Evacuation Routes/Traffic Capabilities	Part I, Section III-B.8.d, Appendix C and D
	j	Evacuated Area Access Control	Part I, Section III-B.8.d, and Appendix D, NYSP-1, RCS-1, RCS-2
	k	Evacuation Route Impediments/ Contingency Measures	Part I, Section II-B.8.d, DHY-1

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EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS

TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
	l	Evacuation Time Estimates for EPZ	Part I, Section III-B.8.d, and Appendix C
	m	Basis for Protective Actions used in EPZ During Emergency Conditions	Part I, Section I-D and Section III-B.6, DOH-6
J11		Protective Measures for the Ingestion Pathway	See NYS REPP
J12		Registering and Monitoring at Relocation Centers	Part I, Section III-B.7 B.8.d, DSS-1, DSS-2, DOH-2, RC/BC-2
K1		Onsite Exposure Guidelines	N/A
K2		Onsite Radiation Protection Program	N/A
K3-Item	a	24-Hour Dosimetry Service	Part I, Section III-B.7, NYS REPP
	b	Maintenance of Dose Records	Part I, Section III-B.7, DOH-4

APPENDIX L

EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS

TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
K4		Authorization for Personnel Exposure in Excess of the Protection Action Guides	Part I, Section III-B.7,DOH-4
K5-Item	a	Determination of Need for Decontamination	Part I, Section III-B.7 DOH-2
	b	Means for Decontamination/Waste Disposal	Part I, Section III-B.7 DOH-2
K6		Onsite Contamination Control	N/A
K7		Capability for Decontamination of Relocated Onsite Personnel	N/A
LI		Ability of Medical/Health Services to Evaluate Radiation Exposure/Handle Contaminated Individuals	Part I, Section III-B.7 and B.8.d, EMS-2
L2		Onsite First Aid Capability	N/A
L3		Identification of Medical Services/Facilities Equipped/Trained to treat Radiological Accident Victims	N/A

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EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS

TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
L4		Transportation to Medical Facilities	Part I, Section III-B.7.d, EMS-2
M1		Plans for Recovery/De-escalation	Section IV, DOH-10
M2		Designation of Facility Recovery Organization	N/A
M3		Notification of Recovery Operation Initiation	N/A
M4		Methodology for Periodic Estimation of Total Population Exposure	N/A
N1-Item	a	Periodic Exercises of Emergency Response Capabilities	Part I, Section II-B.3, ADMIN-3
	b	Exercise Critique	Part I, Section II-B.3, ADMIN-3
N2-Item	a	Communication Drills	Part I, Section II-B.3, and B.4, ADMIN-3, ADMIN-6
	b	Fire Drills	N/A

APPENDIX L

EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS

TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
	c	Medical Emergency Drills	Part I, Section II-B.3, ADMIN-3
	d	Radiological Monitoring Drills	Part I, Section II-B.3, ADMIN-3
	e	Health Physics Drills	N/A
N3-Items a,b,c,d,e,f		Drill Scenarios	Part I, Section II-B.3, ADMIN-3
N4		Qualified Observers/Critique/ Formal Evaluation of Exercises	Part I, Section II-B.3, ADMIN-3
N5		Improvements/Corrective Actions	Part I, Section II-B.3, ADMIN-3
O1		Individual Radiological Response Training	Part I, Section II-B.3, ADMIN-3
	a	Onsite Training for Offsite Organizations	N/A
	b	Offsite Emergency Response Organization Training	Part I, Section II-B.5, ADMIN-3
O2		Training for Onsite Organization	N/A

APPENDIX L

EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS

TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
O3		Licensee First Aid Training	N/A
O4-Item	a	Organization Director Training	Part I, Section II-B.5, ADMIN-3
	b	Accident Assessment Personnel Training	Part I, Section II-B.5, ADMIN-3
	c	Radiological Monitoring Training	Part I, Section II-B.5, ADMIN-3
	d	Police and Fire Fighting PersonnelPart I, Training	Section II-B.5, ADMIN-3
04-Item	e	Onsite	N/A
	f	First Aid and Rescue Personnel Training	Part I, Section II-B.5, ADMIN-3
	g	Emergency Service Personnel Training	Part I, Section II-B.5, ADMIN-3
	h	Medical Support Personnel Training	Part I,Section II-B.5, ADMIN-3
	i	Licensee Headquarters Support Personnel	N/A

APPENDIX L

EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS

TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG-0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (REPP)
	j	Personnel Responsible for Transmission of Emergency Information and Instruction	Part I,Section II-B.5, ADMIN-3
05		Annual Retraining of Personnel	Part I, Section II-B.5, ADMIN-3
P1		Planning Personnel Training	Part I, Section II-B.5
P6		Listing of Support Plans	Part I, Appendix K
P7		Procedures for Plan Implementation	Part I, Appendix M
P8		Plan Index/Table of Contents Cross Reference to Criteria	Table of Contents, Part I, Appendix L
P9		Independent Review of Emergency Preparedness Program	N/A
P10		Quarterly Update of Telephone Numbers	Part I, Section II-B, ADMIN-2

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN
APPENDIX M
PROCEDURES CROSS REFERENCE
PROCEDURES REQUIRED TO IMPLEMENT PART I OF THIS PLAN

	Procedure/Response Action	Plan Section(s)
P2	Designation of Planning Authority	Part I, Section II-B.1, ADMIN-4
P3	Designation of Emergency Planning Coordinator	Part I, Section II-B.1, ADMIN-2
P4	Annual Review and Update of Response Plan	Part I, Section II-B.1, ADMIN-2
P5	Provisions for Plan Distribution and Promulgation of Plan Revisions	Part I, Section II-B.1, ADMIN-2
EC-1	Emergency Coordinator Emergency Response Actions	III-B1, III-B2, III-B3, III-B4, III-B5, III-B6, III-B7, III-B8, III-CI,
EC-2	Operations Liaison Emergency Response Actions	III-C7, III-C8, IV-B, IV-C
ARC-1	American Red Cross EOC Operations Emergency Response Actions	III-B2, III-B4, III-B8, III-C15, III-C17, IV-B,
DHY-1	Department of Highways Emergency Response Actions	III-B2, III-B4, III-B8, III-C13, IV-B
DOH-1	Commissioner of Health Emergency Response Actions	III-B1, III-B2, III-B4, III-B6, III-B7, III-B8, III-C6, III-C7, III-C8, IV-B, IV-C
DOH-2	Personnel Monitoring Centers	III-B2, III-B4, III-B7, III-B8, III-C8, IV-B
DOH-3	Dose Assessment Staffing	III-B2, III-B4

APPENDIX M

PROCEDURES REQUIRED TO IMPLEMENT PART I OF THIS PLAN

	Procedure/Response Action	Plan Section(s)
DOH-4	Exposure Control Coordinator	III-B2, III-B4, III-B7, III-C8
DOH-5	Dose Assessment Calculations	III-B6, III-B7, III-B8,
DOH-6	Recommendation for Protective Measures	III-B6, III-B8, III-C7
DOH-7	Field Monitoring Team Coordinator	III-B2, III-B4, III-B6, III-B7, III-C6, III-C8
DOH-8	Potassium Iodide Issue and Use	III-B6, III-B7, III-C8
DOH-9	Number not used	
DOH-10	Recovery/Re-entry	IV-B, IV-C
DOH-11	Field Monitoring Teams	III-B2, III-B4, III-B6, III-B7, III-C6, III-C8
DPT-1	Department of Public Transportation Emergency Response Actions	III-B2, III-B4, III-B8, III-C12, III-C14, III-C18
DPT-2	Emergency Transportation	III-B8, III-C12, III,C14, III-C18
DPT-3	Transportation Providers and Bus Drivers Emergency Response Actions	III-B7, III-B8, III-C12, III-C14, III-C18
DPT-4	Transportation Liaisons Emergency Response Actions	III-B7, III-B8, III-C12, III-C14, III-C18
DSS-1	Department of Social Services Emergency Response Actions	III-B2, III-B4, III-B8, III-C15, III-C17, IV-B
DSS-2	Reception Center Operations	III-B8, III-C15

APPENDIX M

PROCEDURES REQUIRED TO IMPLEMENT PART I OF THIS PLAN

	Procedure/Response Actions	Plan Section (s)
EMS-1	Emergency Medical Coordinator Emergency Response Actions	III-B2, III-B4, III-B7, III-B8, III-C3, III-C8, III-C11, III-C12,
EMS-2	Handling and Transport of Contaminated and/or Injured Individuals to Medical Facilities	III-B7, III-C8, III-CII
FCOR-1	Fire Coordinator Emergency Response Actions	III-B2, III-B4, III-B5, III-B7, III-B8, III-C3, III-C4, III-C10
HELP-1	Helicopter Emergency Lift Program (HELP) Emergency Response Actions	III-B2, III-B5, III-B8, III-C4, III-C10
NYSP-1	New York State Police Emergency Response Actions	III-B2, III-B7, III-B8, III-C3, III-C8, III-C9
OES-1	CDES Emergency Response Actions	III-B1, III-B2, III-B4, III-B5, III-B7, III-B8, III-C1, III-C2, III-C3, IV-B, IV-C
OES-2	Operations Manager Emergency Response Actions	III-B2, III-C2
OES-3	Operations Information Coordinator Emergency Response Actions	III-B2, III-C2
OES-4	EOC Resource Coordinator Emergency Response Actions	III-B2, III-C2
OES-5	EOC Monitoring	III-B2, III-B7, III-C8
OES-6	Emergency Worker Family Reception Center	III-B2, III-B8, III-C15
OES-7	Decontamination Facility	III-B2, III-B7, III-C8
OFA-1	Office of the Aging Emergency Response Actions	III-B2, III-B8, III-C14,
OPH-1	Office of Physically Handicapped Emergency Response Actions	III-B8, III-C11
PI-1	Public Information Emergency Response Actions	III-B2, III-B3, III-B4, III-B5, III-C4, III-C5, IV-B

APPENDIX M

PROCEDURES REQUIRED TO IMPLEMENT PART I OF THIS PLAN

	Procedure/Response Action	Plan Section (s)
RACES-1	Radio Amateur Civil Emergency Services	III-B2, III-B4, III-B8, III-C3, III-C15, III-C17
RC/BC-1	Rockland County Liaison to Bergen County	III-B2, III-B4, III-B8, III-Cl6
RCS-1	Rockland County Sheriff Emergency Response Actions	III-B2, III-B4, III-B5, III-B7, III-B8, III-C2, III-C3, III-C4, III-C9, III-C1O, IV-B
RCS-2	Traffic Control	III-B8, III-C9
RCS-3	Emergency Operations Center (EOC) Security	III-B2, III-C2, III-C9
RCS-4	Notification of Response Agencies	III-B2, III-B4, III-C3
RCS-5	Local Law Enforcement Agencies	III-B2, III-B4, III-B5, III-B8, III-C3, III-C9, IV-B
RCS-6	Alert and Notification System Activation	III-B4, III-B5, III-B8, III-C3, III-C4
SCH-1	Schools Emergency Response Actions	III-B2, III-B8, III-Cl8
SFC-1	Special Facilities Coordinator Emergency Response Actions	III-B2, III-B8, III-Cl2
PIP-1	New York State Park Police Emergency Response Actions	III-B2, III-B4, III-B5, III-B7, III-B8, III-C5, III-C9
ADMIN-1	Radiological Emergency Response Agency Procedure Development	II-B

APPENDIX M

PROCEDURES REQUIRED TO IMPLEMENT PART I OF THIS PLAN

	Procedure/Response Action	Plan Section (s)
ADMIN-2	Document Control	II-B
ADMIN-3	Training	II-B
ADMIN-4	Emergency Organization	II-B
ADMIN-5	Equipment Inventory and Maintenance	II-B
ADMIN-6	Communications Testing	II-B
ADMIN-7	Telephone Listing	II-B

(NOT USED)

APPENDIX N
GLOSSARY OF TERMS AND ACRONYMS

1. GLOSSARY OF TERMS:

Absorbed Dose: The quantity of energy absorbed from ionization per unit mass of tissue. The rad is the unit of absorbed dose.

Airborne Radioactive Material: Any radioactive material dispersed in the air in the form of dusts, fumes, mists, vapors or gases.

Alert: An emergency classification declared when an event or series of events indicates and requires recognition of an actual or potential substantial degradation of the level of plant safety or a security event that involves risk to site personnel or equipment due to intentional malicious hostile acts.

Alpha Particles: Positively charged particles identical with the nuclei of helium atoms. They penetrate tissues to usually less than 0.1 mm (1/250 inch) but create dense ionization and heavy absorbed doses along these short tracks.

Areas: A subdivision of the 10-mile Emergency Planning Zone (EPZ).

Alternate Emergency Operation Facility (AEOF): See Emergency Operation Facility definition.

Background Radiation: Radiation arising from material other than the one directly under consideration. Cosmic rays and natural radioactivity are always present and man-made sources may also contribute to the background radiation level.

Beta Particles: Electrons ejected from the nuclei of atoms; extremely tiny bits of matter travelling at nearly the speed of light. Their range in air can be several feet. In heavier material, such as the human body, they expend their energy within about 2 mm (1/10 inch).

Central Control Room (CCR): Location at the Indian Point Energy Center where reactor and auxiliary stations are controlled.

Committed Dose Equivalent (CDE): the dose equivalent to organs or tissues of reference that will be received from an intake of radioactive material by an individual during the 50-year period following the intake.

Committed Effective Dose Equivalent (CEDE): the sum of the products of the weighting factors applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to these organs or tissues.

Congregate Care Center: Mass care shelter outside the plume exposure emergency planning zone that will provide temporary housing, food and other necessities to evacuees needing them.

Contamination (Radioactivity): Deposition of radioactive material in any place where it may harm persons, spoil experiments or make products or equipment unsuitable or unsafe for some specific use. The presence of unwanted radioactive matter.

Decay: Disintegration of the nucleus of a radionuclide in a radioactive process.

Decay Product: A nuclide, either radioactive or stable, resulting from the disintegration of a radioactive material.

Decontamination: The reduction or removal of contaminating radioactive material from a structure, area, object or person.

Deep Dose Equivalent (DDE): the dose equivalent at tissue depth of 1cm (1000 mg/square cm).

Dose: The quantity of energy absorbed from ionization per unit mass of tissue. The rad is the unit of absorbed dose.

Dose Equivalent: A quantity that expresses all types of nuclear radiation on a common scale to indicate relative biological effects. The rem is the unit of dose equivalent.

Dose Rate: Absorbed dose delivered per unit time, as rads per second or rads per hour.

Dosimeter: A device that measures radiation dose, such as a TLD or an ionization chamber.

Emergency Director (ED): A highly trained individual representing the NFO, who is responsible for directing onsite actions during an emergency at the nuclear power station. Position occupied by the Shift Supervisor (NYPA), Senior Watch Supervisor (Con Edison) or Plant Operations Manager (Con Edison) until relieved by a higher ranking individual.

Emergency Operations Center (EOC): A facility at the headquarters of each offsite response agency or some other designated location that may be used to direct the action taken by designated agencies under its jurisdiction during an emergency at the Indian Point Energy Center.

Emergency Operations Facility (EOF): A facility operated by the NFO for the purpose of evaluating and controlling emergency situations and coordinating emergency responses.

Emergency Planning Zone (EPZ): The area surrounding the nuclear plant site for which planning has been done to assure that prompt and effective actions can be taken to protect the public in the event of a radiological incident. The EPZ is usually a radius of about ten (10) miles for the plume exposure pathway and a radius of about fifty (50) miles for the ingestion exposure pathway.

Evacuation: The process of removing people from a hazardous or potentially hazardous area to a safe area.

Evacuation Time Estimate: The roadway travel time required to leave the plume exposure emergency planning zone after mobilization has been completed.

Exposure: A measure of the ionization produced in air by X-ray or gamma radiation. The roentgen (R) is the unit of exposure. The term "dose", sometimes used interchangeably with exposure, actually refers to absorbed radiation.

Gamma Rays: Electromagnetic radiation comparable to light. They are similar to X-rays except for their origin. They are emitted with energies characteristic of each nuclide, and many are highly penetrating. Although their intensity decreases exponentially with thickness of the absorbing material, they can travel hundreds of feet in air and penetrate completely through the body.

General Emergency: An emergency classification declared during accidents that involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Included in the General Emergency Classification are other accidents which have large radioactive release potential such as fuel handling and waste gas system accidents or security events that result in an actual loss of physical control of the facility.

General Population: All people in plume exposure emergency planning zone including residents and transients but not special facility populations in schools, camps, parks.

Geiger-Muller Counter (Geiger-Muller Tube): A radiation detection and measuring instrument. It consists of a gas-filled (Geiger-Muller) tube containing electrodes, between which there is an electrical voltage but no current flowing. When ionizing radiation passes through the tube, a short intense pulse of current passes from the negative electrode to the positive electrode and is measured or counted. The number of pulses per second measures the intensity of radiation. It is also often known as a Geiger Counter.

Ingestion Exposure Pathway (50-mile EPZ): For planning purposes, the area within about a fifty (50) mile radius surrounding a nuclear plant site. The principal exposure from this pathway would be from the ingestion of contaminated water or foods.

Internal Radiation: Radiation (including alpha and beta particles and Gamma radiation) resulting from radioactive substances within the body.

Ionizing Radiation: Any radiation capable of displacing electrons from atoms or molecules thereby producing ions, e.g. X-ray, gamma rays.

Isotopes: Forms of the same element having identical chemical properties but differing in their atomic masses. A radioisotope is an unstable isotope of an element that decays or disintegrates spontaneously, emitting radiation.

Joint News Center (JNC): A facility designated as a news media center during a radiological emergency.

Millirem: One-thousandth (1/1000) of a rem.

Milliroentgen (mR): One-thousandth (1/1000) of a Roentgen.

Monitoring, Radiological: The operation of locating and measuring radioactive contamination by means of survey instruments that can detect and measure (as dose rates) ionizing radiations.

Nuclear Facility Operator (NFO): The entity (Entergy Northeast) licensed by the Nuclear Regulatory Commission to operate a nuclear facility (Indian Point Units 1, 2, and 3).

Nuclear Reactor: A device in which a fission chain reaction can be initiated, maintained, and controlled. Its essential component is a core with fissionable fuel.

Personnel Monitoring Center (PMC). Those facilities or locations where individuals or equipment will be monitored for radioactive contamination and decontaminated as necessary.

Plume Exposure Pathway (10-mile EPZ): For planning purposes, the area within a ten mile radius surrounding a nuclear plant site. The principal exposure sources from this pathway are; (a) whole body exposure to gamma radiation from the plume and from deposit material, and (b) inhalation exposure from the passing radioactive plume.

Projected Dose: The calculated radiation dose which affected individuals could potentially receive.

Protective Action: An action taken to avoid or reduce a projected dose.

Protective Action Guide (PAG): The projected absorbed dose to individuals in the general population which warrants a protective action.

Rad: The unit of absorbed dose in body tissue or other material.

Radiation Area: Any accessible area in which the level of radiation is such that a major portion of an individuals body could receive, in any one hour, a dose in excess of 5 millirem, or in any 5 consecutive days, a dose in excess of 100 millirem.

Radioactivity: The property of certain nuclides of spontaneously emitting nuclear particles or gamma or X-ray radiation, or of undergoing spontaneous fission.

Radioassay: The analysis of any substance (food, water, soil, etc.) to determine the presence and magnitude of radioactive contamination.

Radioiodines: A family of radioactive iodines: I-131, I-132, I-133, I-134 and I-135, these are the radioiodines of primary significance for radiological emergencies involving nuclear power plants.

Radiological: A general term referring to processes that involve nuclear radiation.

Reception Center: A pre-designated facility outside the plume exposure emergency planning zone at which evacuees can receive directions to congregate care centers, reunite with others, receive general information, and, if necessary, receive radiological monitoring and decontamination.

Release: Escape of radioactive materials into the environment.

Rem: The unit of radiation dose affecting body tissue. It is equal to the absorbed dose (measured in rads) multiplied by the quality factor (which takes into account the effectiveness of different types of radiation) and by other multiplying factors. For beta and gamma radiation the quality factor is 1. For planning purposes 1 Rem is equivalent to 1 Roentgen.

Roentgen (R): The unit of radiation exposure in air. Roentgens are the units for quantities of X-ray or gamma radiation measured by detection and survey meters. For planning purposes 1 Roentgen is equivalent to 1 Rem.

School Reception Center: A pre-designated facility outside the plume exposure emergency planning zone that will be a host facility for evacuating schools until children are picked up by their families.

Shelter: A structure or other location offering shielding from nuclear radiation in the environment.

Sheltering: An action taken to reduce exposure to radiologically contaminated air by going indoors.

Shielding: Any material or barrier that attenuates radiation.

Site Area Emergency: An emergency classification for accidents of actual or likely major failures of plant functions which erode protection of the public. Includes accidents that have a significant radiation release potential or security events resulting in intentional damage or malicious acts towards site personnel or equipment.

Site Boundary: Area surrounding the nuclear plant site, in which the NFO has the authority to determine and control all activities including exclusion or removal of personnel and property from the area.

Source Term: An amount of radionuclide originating at the source of a nuclear incident. In its broadest sense, source term also describes the conditions and mode of emission.

Special Facility: Institution or location having either a residential population of fifteen or more people or having sizeable, but temporary, attendance at predictable times (camps, nursing homes, hospitals, schools, etc.).

Survey Meter: A portable instrument used in radiological monitoring to detect and measure ionizing radiation.

Thermoluminescent Dosimeter (TLD): A dosimetry badge worn by workers in the nuclear industry or research, used to measure possible exposure to ionizing radiation. It is characteristic of thermoluminescent material that radiation causes internal changes which make the material, when subsequently heated, give off an amount of light directly proportional to the radiation dose, which can be measured.

Total Effective Dose Equivalent (TEDE): the sum of the deep dose equivalent (DDE) and the committed effective dose equivalent CEDE).

Thyroid Blocking Agent: A chemical compound taken to prevent or reduce the absorption by the thyroid of radioiodine. Potassium iodide (KI) is the typical blocking agent used in New York State.

Thyroid Exposure: Exposure of the thyroid gland to radiation from radioactive isotopes of iodine which have been either absorbed or ingested.

Total Organ Dose Equivalent (TODE): the sum of the deep dose equivalent (DDE) and the committed dose equivalent (CDE).

Traffic Zone: A subdivision of a planning area associated with one specified primary evacuation route and particular Reception Center.

Transient Population: Those people who are only temporarily in, but do not permanently reside in, the 10 mile EPZ. They include tourists, employees not residing in the areas or other groups who visit the area. They do not include those in special facilities.

Transit-dependents: People without access to an automobile for the purpose of leaving the 10 mile EPZ at the time of an evacuation.

Transportation Staging Area: A designated area where transportation resources are assembled prior to dispatch and information on traffic routes/impediments are provided.

Unusual Event: An emergency classification declared during an event or events that indicates or requires recognition of a potential degradation of the level of safety of the plant including incidents of contaminated and/or injured individuals who require offsite emergency treatment or a security threat to facility protection.

Warning Point (WP): A location designated during an emergency by an offsite government agency for the purposes of receiving and promulgating warning information 24 hours a day, 7 days a week.

Whole Body Counter: A device used to identify and measure the radiation in the body (body burden) of human beings and animals; it uses heavy shielding to keep out background radiation and ultrasensitive scintillation detectors and electronic equipment.

Whole Body Exposure: Exposure of the whole body to radiation.

2. ACRONYMS:

AEOF	Alternate Emergency Operations Facility
ANS	Alert and Notification System
ARC	American Red Cross
BOCES	Board of Cooperative Educational Services
CCR	Central Control Room
CDE	Committed Dose Equivalent
CDES	County Director of Emergency Services
CEDE	Committed Effective Dose Equivalent
CPM	Counts Per Minute
DDE	Deep Dose Equivalent
DEC	Department of Environmental Conservation
DOE	Department of Energy
DRD	Direct Reading Dosimeter
EBS	Emergency Alert System
ECL	Emergency Classification Level
ED	Emergency Director
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	Environmental Protection Agency
EPZ	Emergency Planning Zone
ETTE	Evacuation Travel Time Estimates
FEMA	Federal Emergency Management Agency
GE	General Emergency
IPNPS	Indian Point Energy Center
JNC	Joint News Center
KI	Potassium Iodide
MIDAS	Meteorological Information and Dose Assessment System
mR	milliRoentgen
Mwe	Megawatt electric
Mwt	Megawatt thermal
NFO	Nuclear Facility Operator
NRC	Nuclear Regulatory Commission

NUE	Notification of Unusual Event
NYSDPC	New York State Disaster Preparedness Commission
ODP	Office of Disaster Preparedness
OFES	Office of Fire and Emergency Services
PAG	Protective Action Guide
PAR	Protective Action Recommendation
PIO	Public Information Officer
PMC	Personnel Monitoring Center
PWR	Pressurized Water Reactor
R	Roentgen
RACES	Radio Amateur Civil Emergency Services
RAP	Radiological Assistance Plan
RECS	Radiological Emergency Communications System
SAE	Site Area Emergency
SEMO	State Emergency Management Office
TCP	Traffic Control Point
TDD	Telecommunications Device for the Deaf
TEDE	Total Effective Dose Equivalent
TLD	Thermoluminescent Dosimeter
TODE	Total Organ Dose Equivalent
TSA	Transportation Staging Area
WP	Warning Point

(NOT USED)

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX O
REFERENCE DOCUMENTS

NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria For Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."

NUREG-0396/EPA 520/1-78-016, "Planning Basis for the Development of State and Local Government Radiological Emergency Response Plans in Support of Light Water Nuclear Power Plants."

FEMA-REP-14 (September 1991), "Radiological Emergency Preparedness Exercise Manual."

"Evacuation Travel Time Estimates for the Indian Point Nuclear Power Station Plume Exposure Pathway Emergency Planning Zone", (November, 1993), HMM Associates, Inc.

"Indian Point Joint Information Center Procedures and Public Education Workplan"

New York State Radiological Emergency Preparedness Plan

EPA 400-R-92-001 (May 1992), "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents."

(NOT USED)

APPENDIX P
MAPS

1. ROCKLAND COUNTY PUBLIC INFORMATION BROCHURE MAP (CONTAINED IN THE "PLANNING FOR EMERGENCIES BOOKLET")

2. BERGEN COUNTY CONGREGATE CARE CENTERS/SCHOOL RECEPTION CENTERS MAP

(NOT USED)

APPENDIX Q
SPECIALIZED VEHICLE ASSIGNMENTS FOR MOBILITY-IMPAIRED INDIVIDUALS

This information is contained in each applicable agency's (Health Department, Mental Health Department, Special Facilities, Office of People with Disabilities, etc.) emergency response manual at the EOC. A list of mobility-impaired individuals is maintained by the Office of Fire and Emergency Services and is updated annually.

(NOT USED)

3. Non-Institutionalized Individuals (Stretcher)

ERPA	No. of Individuals	Veh. Required	Ambulance Corps Jurisdiction
30	2	Ambulance	Haverstraw
31	3	Ambulance	Haverstraw
32	2	Ambulance	Congers/ Valley Cottage
33	0	Ambulance	Congers
35	1	Ambulance	New City
36	1	Ambulance	Haverstraw

urce: Listing of Mobility-Impaired Individuals, 2000
(on file at EOC)
This information is updated annually.

(NOT USED)

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX R

EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR BERGEN COUNTY (N.J.) HOST PLAN*
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS
TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG 0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (Host Plan*)
A1-Item	a	Overall response organization identification	RC/BC-1: Sec. 2.0, 5.0 RC/BC-2: Sec. 2.0, 5.1, 5.2, 5.3
	b	Organizational concept of operations	RC/BC-2: Att. 1
	c	Organizational interrelation-ships-block diagram	RC/BC-2: Att. 1
	d	Identification of individual who is in charge	RC/BC-2: Sec. 2.0
	e	24-hr. response capability including communications	RC/BC-2: Sec. 5.1, 5.4
A2-Item	a	Specification of functions and responsibilities of key individuals	RC/BC-2: Att. 1
	b	Legal basis of authority	RC/BC-2: Sec. 6.0

* NOTE: The Bergen County Host Plan consists of 5 procedures that are part of the Rockland County Radiological Emergency Preparedness Plan.

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RADIOLOGICAL EMERGENCY PREPAREDNESS
TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG 0654/FEMA-REP-1

NUMBER	CRITERIA	LOCATION (Host Plan*)
A3	Written agreements referring to concept of operations	RC/BC-2: Att. 2
A4	Provisions for 24-hr. operations/continuity of resources	RC/BC-2: Sec. 2.0, 5.4, Att. 1
C4	Identification of organizations/ assistance to be relied on	RC/BC-2: Sec. 5.2, 5.3
D3	Establishment of emergency classification scheme	RC/BC-1: Sec. 4.0, 5.1, 5.3 RC/BC-2: Sec. 4.0
D4	Provisions for emergency actions	RC/BC-1: Sec. 5.3 RC/BC-2: Sec. 5.4
E1	Establishment of notification procedures/verification of receipt	RC/BC-1: Sec. 5.1 RC/BC-2: Sec. 3.0, 4.0, 5.0
E2	Establishment of personnel alerting, notifying, and mobilizing procedures	RC/BC-1: Sec. 5.1 RC/BC-2: Sec. 3.0, 5.0

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TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG 0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (Host Plan*)
F1-Item	a	24-hr. primary and backup provision for notification and activation of local emergency network	RC/BC-2: Sec. 5.1, 5.2
	b	Primary and backup communications with contiguous state/local governments	RC/BC-1: Sec. 5.3 RC/BC-2: Sec. 5.2
	c	Primary and backup communications with federal organizations	N/A
	d	Primary and backup communications between nuclear facility, state/local EOCs and radiological monitoring teams	RC/BC-1: Sec. 5.3 RC/BC-2: Sec. 5.2
	e	Primary and backup alerting and activating of emergency personnel	RC/BC-1: Sec. 5.1 RC/BC-2: Sec. 5.1, 5.2, Att. 1
F2		Primary and backup communications link to medical support facilities	RC/BC-2: Sec. 5.4

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TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG 0654/FEMA-REP-1

NUMBER	CRITERIA	LOCATION (Host Plan*)
F3	Periodic testing of communications system	RC/BC-2: Sec. 6.0 RC/BC-4: Sec. 5.4
H3	Establishment of EOC for response functions	RC/BC-1: Sec. 5.4, 5.5 RC/BC-2: Sec. 2.0, 5.3, 5.4, 5.5
H4	Provisions for timely activation and staffing facilities	RC/BC-1: Sec. 5.1, 5.2, 5.4 RC/BC-2: Sec. 5.1, 5.2, 5.3
H7	Provisions for offsite radiological monitoring equipment	N/A
H10	Provisions for equipment, inspection, inventory, operational check, calibration	RC/BC-3
H11	Identification of emergency equipment	RC/BC-2: Att. 4
J10-Item a	Maps showing evacuation routes, evacuation areas, relocation centers	RC/BC-2: Sec. 5.3, 5.4

APPENDIX R

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FOR BERGEN COUNTY (N.J.) HOST PLAN*
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS
TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG 0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (Host Plan*)
	b	Maps showing population distribution by evacuation area	RC/BC-2: Sec. 5.3
	h	Designation of relocation centers in host areas 10 miles beyond EPZ boundary	RC/BC-2: Sec. 5.4, Att. 5
J12		Description of means for registering and monitoring evacuees within 12 hours at relocation centers in host areas	RC/BC-2: Att. 4
L3		Development of lists of medical facilities capable of providing medical support for any contaminated injured individual	RC/BC-2: Sec. 5.4
L4		Provisions to transport victims of radiological accidents to medical facilities	RC/BC-2: Sec. 5.4
N1-Item	a	Provisions for periodic exercises	RC/BC-4: Sec. 5.4, 5.5

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FOR BERGEN COUNTY (N.J.) HOST PLAN*
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RADIOLOGICAL EMERGENCY PREPAREDNESS
TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG 0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (Host Plan*)
	b	Provisions for exercise critique/varied scenarios	RC/BC-4: Sec. 5.5, 5.7
N2-Item	a	Provisions for communications drills	RC/BC-4: Sec. 5.4
	d	Provisions for radiological monitoring drills	RC/BC-4: Sec. 5.4
N3		Description of how exercises are carried out	RC/BC-4: Sec. 5.5, 5.6, 5.7
N4		Provisions for official observers/critique	RC/BC-4: Sec. 5.6, 5.7
N5		Provisions for implementing exercise corrective actions	RC/BC-4: Sec. 5.8
O1		Provisions for training individuals	RC/BC-4: Sec. 5.1, 5.2
	b	Provisions for training mutual mutual aid departments	N/A
O4-Item	c	Establishment of training programs for radiological personnel	RC/BC-4: Sec. 5.1

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TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG 0654/FEMA-REP-1

NUMBER		CRITERIA	LOCATION (Host Plan*)
	j	Establishment of training programs for communications personnel	RC/BC-4: Sec. 5.1
O5		Provisions for initial training and retraining	RC/BC-4: Sec. 5.1, 5.2
P1		Provisions for training individuals involved in planning effort	RC/BC-4: Sec. 5.1
P2		Identification of individual responsible for planning effort	RC/BC-5: Sec. 2.1, 5.3, 5.5
P3		Designation of Planning Coordinator	RC/BC-5: Sec. 5.5
P4		Provisions to update plan and agreements on annual basis	RC/BC-5: Sec. 2.0, 5.4
P5		Provisions to forward approved plans to appropriate individuals	RC/BC-5: Sec. 2.0, 5.1, 5.3
P6		Listing of support plans	RC/BC-2: Sec. 6.0

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EVALUATION CRITERIA CROSS REFERENCE INDEX
FOR BERGEN COUNTY (N.J.) HOST PLAN*
FOR NRC/FEMA CONCURRENCE IN LOCAL GOVERNMENT
RADIOLOGICAL EMERGENCY PREPAREDNESS
TABLE 0654/REP - 1

EVALUATION CRITERIA

NUREG 0654/FEMA-REP-1

NUMBER	CRITERIA	LOCATION (Host Plan*)
P7	Procedures required to implement plan	N/A
P8	Specific table of contents	See Rockland County Plan
P10	Provisions for updating telephone numbers quarterly	RC/BC-5: Sec. 5.4

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX S
ELECTRONIC DOSIMETER OPERATING INSTRUCTIONS

SAIC MODEL PD-10i ELECTRONIC DOSIMETER OPERATING INSTRUCTIONS

1. Check the calibration sticker on the SAIC PD-10i dosimeter to verify that it has not expired.
2. Insert the battery (AA) if not already accomplished.

Note
The PD-i is in the idle mode whenever the battery is first installed. In the idle mode, the PD-10i display is blank.

3. To initiate operation, press the **Run** button. The display should initially indicate "mR" when the dosimeter is first turned on.

Note
The SAIC PD-10i should only be used in the "mR" mode.

4. If "mR" is not displayed, press the **MODE** button until "mR" appears in the display. The PD-10i is ready for use.

Caution
If the dose icon flashes during operation of the dosimeter, the total accumulated dose has exceeded the 1.0R alarm set point. Notify your supervisor.

5. If a low battery condition exists, the battery icon will flash to warn of 12-24 hours of remaining operation. Whenever a low battery condition exists, change the battery within 12 hours or notify your supervisor for assistance.

6. To turn the SAIC PD-10i off, remove the battery, wait 5 seconds and replace the battery.

RAD-60R ELECTRONIC DOSIMETER
OPERATING INSTRUCTIONS

1. Check the calibration sticker on the RAD-60R dosimeter to verify that it has not expired.
2. Insert the battery (AAA) if not already accomplished.
3. Turn on the RAD-60R by pressing and holding the push button. The dosimeter should beep and the display should appear within 5 seconds.
4. The display should initially indicate "mR" when the dosimeter is first turned on.

Note
The RAD-60R should only be used in the "mR" mode.

5. If "mR" is not displayed, press the push button until "mR" appears in the display. Set the mode by pressing and holding the button until a beep occurs.

Caution
Once the "mR" mode has been set, pressing and holding the button again will reset the dose to zero. This is to be avoided.

Caution
If the button is accidentally pushed, the mode may change. However, the dose will not be reset. If this occurs, simply change the mode back to "mR." Dose will only reset if the button is held.

6. If a low battery condition exists when the dosimeter is initially turned on, the display will indicate "Lob" and the battery icon will blink.

7. If a low battery condition occurs during normal operation, the battery icon will blink continuously and the audible alarm will beep once per hour.

8. Whenever a low battery condition exists, change the battery or notify your supervisor for assistance.

9. To turn the RAD-60R dosimeter off, press the push button until "off" is displayed. Hold the push button until a beep occurs then release the button and the display will go blank.

ROCKLAND COUNTY
RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN

APPENDIX T

TERRORISM AND OTHER SECURITY RELATED EVENTS

This appendix is intended to document changes to the general concept of operations for a response to an incident at the Indian Point Entergy Center (IPEC) involving security related events, such as a terrorist attack. Most security related procedures and policies for such a response are considered "law enforcement sensitive" information, or in the case of the plant, classified as "safeguards information". This detailed information is contained in classified planning documents. Those with a need to know have access to those plans and procedures.

This section of the radiological plan contains no sensitive information that would fall under either of those classifications. For that reason, the concept of operations described here must be very generalized and is intended only to document the major policies and procedures for responding to a security event at the plant.

1. IPEC Emergency Action Levels (EALs)

Emergency Action Levels are a methodology employed throughout the commercial nuclear power industry to identify specific events or symptoms that would signal to plant personnel that an emergency could be taking place. These levels identify a range of conditions that could give rise to an emergency requiring classification as an Unusual Event, Alert, Site Area Emergency or General Emergency.

Some of these incident initiators include security related events. For IPEC, Entergy has identified four EALs related to security issues that could result in emergency declarations. These include:

EAL # 8.1.1
There has been a bomb found; or attempted act of sabotage within the protected area; or information of a believable site threat has been received. This EAL poses no threat to the safety of the general public.

Anticipated Plant Response Actions: Entergy will declare an Unusual Event, inform appropriate law enforcement agencies, as well as those agencies normally notified of an Unusual Event. This includes Westchester County.

EAL # 8.1.2
Unauthorized personnel have entered the protective area. This EAL poses no threat to the safety of the general public.

Anticipated Plant Response Actions: Entergy will declare an Alert, inform appropriate law enforcement agencies, as well as those agencies normally notified of an Alert. This includes Westchester County.

EAL # 8.1.3
Unauthorized personnel have entered the vital area of the plant. This condition, by itself, poses no immediate threat to the safety of the general public.

Anticipated Plant Response Actions: Entergy will declare a Site Area Emergency, inform appropriate law enforcement agencies, as well as those agencies normally notified of an Alert. This includes Westchester County.

EAL # 8.1.4
A security event has occurred which could lead to a loss of physical control of the plant.

Anticipated Plant Response Actions: Entergy will declare a General Emergency, inform appropriate law enforcement agencies, as well as those agencies normally notified of a General Emergency. This includes Westchester County. Plant personnel WILL recommend protective action.

There may be other EALs that could have security implications, but those listed here would have the most direct security consequences for Westchester County.

2. County Response Actions for a Security Event

When a Radiological Emergency Communications System (RECS) form is received by the county from IPEC, and it identifies one of these EALs as the emergency initiator, the county may take extra-ordinary response actions, beyond those described elsewhere in this plan for the respective emergency classification level. These may include, but are not limited to the following. Again, other law enforcement plans and procedures, including anti-terrorism plans, address details of law enforcement operations.

Note: A security-related event resulting in a radiological emergency classification will be treated as two separate events which will be closely coordinated. The radiological emergency response plans will be followed, as usual, and coordinated among the four counties.

The following information is specific to the radiological emergency response plan and supplements those other plans.

Unusual Event

For an Unusual Event emergency classification triggered by an IPEC security related problem, the county may initiate some response actions earlier than normal for a potential radiation emergency. Such actions might be warranted because of the increased public concern that may be generated by a security event, as well as increased potential for quick escalation to a more severe classification if the security concern impacts plant safety systems.

Based upon drill and exercise experience, as well as consultation with appropriate experts, the following actions may be taken earlier than would otherwise occur in accordance with procedures:

- A limited activation of the County EOC **may** be initiated, to include OFES, Public Safety, Health Department and Public Information representatives, at a minimum.

- The County Public Information function **will** be activated, and the State will activate the Joint Information Center (JIC) and Public Information DisasterLAN website. Appropriate law enforcement public information personnel should be requested to join the JIC.

- The Rockland County Executive will consult with staff and evaluate the need for other extra-ordinary measures.

Alert, Site Area Emergency or General Emergency

- Full activation of the County EOC **will** be initiated.

- The County Public Information function **will** be activated and it will be recommended that the State activate the Joint Information Center (JIC) and Public Information DisasterLAN website. Appropriate law enforcement public information personnel should be requested to join the JIC.

- The Rockland County Executive will consult with staff and evaluate the need for other extra-ordinary measures.

3. Notification Process

Notification of offsite response organizations for emergency declarations resulting from security related events will follow prescribed procedures as for any other emergency declaration using the RECs form. In addition, IPEC will notify the New York State Police.

4. Potential Communications Failures

In the event of a reported terrorist event at IPEC, the control rooms may be inaccessible, destroyed or under siege and offsite emergency notifications via the RECS line may not be possible.

Where such a condition is suspected or confirmed, an attempt should be made to contact either Westchester County and/or the Unit 2 or 3 control rooms at IPEC via commercial telephone/landline or by dispatching law enforcement personnel to the site to confirm the occurrence of an incident. If these attempts are unsuccessful, the county shall take response actions consistent with an Immediate General Emergency requiring immediate protective actions.

All County Warning Points shall be contacted and siren activation shall be coordinated and initiated. An EAS message shall be aired advising the public in the five (5) mile radius surrounding IPEC to take the protective actions of "shelter-in-place" and taking KI and to stay tuned for further instructions.

Depending upon the availability and timeliness of: 1) prevailing and forecast meteorological information, 2) radiological information and 3) plant condition information, evacuation of at least the two (2) mile radius and five (5) mile downwind area around IPEC shall be ordered immediately following coordination among the four county executives or their designees.

5. Command and Control

By mutual agreement, the New York State Police will assume a lead role for the law enforcement aspects of an event involving security-related matters. A State Police representative will serve as Incident Commander at or near the scene.

Coordination of radiological emergency response will remain the responsibility of the Rockland County Emergency Operations Center. The Rockland County Department of Public Safety Representative in the EOC will serve as the primary coordination point with any IPEC on-scene or near-scene Incident Command Post.

The law enforcement element of a security event at Indian Point will be closely coordinated with the radiological emergency response directed by EOC operations.

6. Public Information

As noted above, Rockland County's public information function may be activated earlier than normal for a security related event. This may be necessary to communicate the situation to the general public, provide emergency instructions; and facilitate a public response consistent with the hazard.

A Joint Information Center may be activated as early as an Unusual Event by the State and Entergy. If established, Rockland County will participate and coordinate its public information program with the JIC. A State Police Public Information Officer will also be requested to join the JIC. As other law enforcement agencies, such as the Federal Bureau of Investigation, join the Unified Command, they may also send representatives to the JIC.

A public information process has been established for security related events which assigns responsibility for the issuance of information about the security situation and law enforcement response to the State Police Public Information Officer.

Public information related to radiological emergency response will continue to be coordinated by the responsible county and state authorities, as well as Entergy. It is critical that the addition of the law enforcement element to the emergency response NOT delay the issuance of critical information to the public on radiological response. For this reason procedures, training, drills and exercises re-enforce this coordination effort and the segregation of law enforcement versus radiological public information.

(NOT USED)

PROCEDURES

TABLE OF CONTENTS (continued)

PART II

RESPONSE AGENCY PROCEDURES

TABLE OF CONTENTS (continued)

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURES (RERAP)

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURES (RERAP)
(continued)

		REV. NO.	REV. DATE
ROCKLAND COUNTY SHERIFF (RCS)			
RCS-1	Rockland County Sheriff	14	07/08
RCS-2	Traffic Control	13	07/08
RCS-3	Emergency Operations Center (EOC) Security	11	09/07
RCS-4	Notification of Response Agencies	13	09/07
RCS-5	Local Law Enforcement Agencies	11	07/08
RCS-6	Alert and Notification System Activation	13	05/10
SCHOOLS (SCH)			
SCH-1	Schools Emergency Response Actions	14	05/10
SPECIAL FACILITIES COORDINATOR (SFC)			
SFC-1	Special Facilities Coordinator Emergency Response Actions	12	07/08
ADMINISTRATIVE PROCEDURES (ADMIN)			
ADMIN-1	Radiological Emergency Response Agency Procedure Development	8	05/00
ADMIN-2	Document Control	10	09/07
ADMIN-3	Training	13	09/07
ADMIN-4	Emergency Organization	10	05/02
ADMIN-5	Emergency Equipment and Supplies	13	07/08
ADMIN-6	Communications Test	9	07/08
ADMIN-7	Telephone Listing	9	05/10
ADMIN-8	Relocation, Re-Entry, Return and Recovery	1	02/99

EC-1

APPROVED BY OFES:_____ EC:_____	COUNTY OF ROCKLAND OFFICE OF FIRE AND EMERGENCY SERVICES	PROCEDURE NO. EC-1

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

EC-1

EMERGENCY COORDINATOR EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

This procedure provides the responsibilities and actions of the Emergency Coordinator during a radiological emergency at the Indian Point Energy Center.

Rockland County has adopted the National Incident Management System/Incident Command System for EOC operations. The Emergency Coordinator assumes the role of the Incident Commander.

2.0 RESPONSIBILITY

The Emergency Coordinator (Rockland County Executive or designee) is responsible for the implementation of this procedure.

3.0 PRECAUTIONS

None

4.0 PREREQUISITES

A notification of an Unusual Event or higher emergency classification has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Summary

The Rockland County Executive shall assume the position of Emergency Coordinator (EC) and shall assign missions and tasks and direct courses of action to control the situation and inform the public. This shall be done in accordance with the Rockland County Radiological Emergency Preparedness Plan and Procedures, the New York State Emergency Preparedness Plan and Procedures, and the Indian Point Energy Center Site Emergency Plans and Procedures developed by the Nuclear Facility Operators.

The Emergency Coordinator will be responsible for the conduct of county wide activities in response to a radiological emergency at the Indian Point Nuclear facility and will decide what are the appropriate protective actions to be taken. If deemed necessary, the Emergency Coordinator will declare that a "Local State of Emergency" exists within the county. Only the Emergency Coordinator may order an evacuation of the public, if and/or when such action becomes necessary.

If the County Executive is unavailable, the authority to act as Emergency Coordinator is delegated to the following in the order listed below:

1. Chief of Staff
2. Deputy Chief of Staff
3. County Attorney
4. Chairman of the Legislature
5. Vice Chairman of the Legislature
6. Clerk to the Legislature

Instructions

When notified, the EC should perform the steps indicated below. When a step has been initiated, initial the step and indicate the time in the margin.

5.1 Receive Initial Notification

Notification of an Unusual Event

5.1.1 Upon notification from the County Director of Fire and Emergency Services (CDFES), the EC will record time of initial notification.

5.1.2 The EC will confer with the CDFES regarding the emergency and direct the activation of the EOC if necessary.

5.1.3 The EC will confer with the CDFES regarding the appropriate school response options and instruct the CDFES to notify the School Coordinator of the recommended action.

5.1.4 If EOC activation is not necessary, the EC will continue to monitor the situation by conferring with the CDFES until closeout or escalation of the emergency.

5.1.5 If EOC activation is necessary, report to the Emergency Operations Center.

5.1.6 If EOC action is necessary, proceed with Step 5.2.

Alert, Site Area Emergency and General Emergency

5.1.7 The EC will receive notification from the CDFES for an Alert, Site Area Emergency or General Emergency or when the Communications Center is instructed otherwise by the CDFES.

5.1.8 Upon notification, the EC will record time of initial notification and report to the EOC.

5.2 Set Up the EOC

5.2.1 Upon arrival at the EOC, have identification card readily available and check in through security.

5.2.2 Log in on sign-in sheet located at security desk in hall.

5.2.3 Obtain TLD from security after signing in.

5.2.4 Sign name and agency on status board located in Operations Room.

5.2.5 Check EC Inventory.

5.2.6 Set up EC area.

5.2.7 Verify operability of phone.

5.2.8 Record time of initial notification here_____.

5.2.9 Obtain briefing from CDFES.

5.3 EOC Operations

5.3.1 Determine which staff members have been notified, time of response, positions manned in the EOC, etc.

5.3.2 When an adequate staff is available in the EOC, notify New York State, Orange, Putnam and Westchester counties via the Executive Hotline that the Rockland County EOC is operational.

5.3.3 Assume command and control and announce this fact to the agency representatives in the EOC.

5.3.4 Utilize the following attachments as suggested guidelines for radiological emergency response.

* Attachment 1, "Summary of Response Actions to be Taken by Class of Emergency" which provides guidance as to what actions are to be taken.

* Attachment 2, "Detailed Emergency Response Actions by Department by Class of Emergency" which gives a detailed description of activities that should be undertaken by each response agency.

5.3.5 Notify The Public

* Coordinate Protective Action Decisions with NYS and the other three (3) counties (if available) via the Executive Hotline and authorize the activation of the Siren System and release of coordinated Emergency Alert System (EAS) messages, which are released by the JIC.

5.3.6 Maintain Communications

* Ensure that the Radiological Emergency Communications System (RECS) and Executive Hotline are manned. Remain in close contact with the County Executives of Orange, Putnam and

Westchester Counties; the CDFES, the Commissioner of Health; New York State Disaster Preparedness Commission; and the Nuclear Facility Operator for continual updates on the status of the situation.

5.3.7 Provide Updates

* Instruct the Operations Manager to make and participate in periodic status announcements to the EOC staff.

* Participate in EOC briefings.

5.3.8 De-Escalation

* In consultation with the CDFES, consider and order the de-escalation of emergency status when indicated by conditions and input from the NFO.

* Initiate the Return phase. These activities include:

  Advising the public via the JIC PIO as to when they can return safely to the area based upon recommendations of the N.Y.S. Commissioner of Health, Rockland County Health Commissioner, the Office of Fire and Emergency Services; and other County and State officials. These bulletins should include:

  a. Safety precautions during Return.

  b. Possible health effects of low level exposure.

  c. Availability of compensation for financial loses sustained.

* Deciding factors for Return/Re-entry include:

  a. The existence of any remaining radiological threat to the area.

b. The success of decontamination activities, if any, that have been conducted.

c. The necessity for providing security and fire patrols to those areas being reoccupied.

d. Advice from the Sheriff on the impact of incoming traffic and the advisability of staggering the return by sector/Area.

e. The condition and welfare of those persons housed in Congregate Care Centers.

f. The availability of transportation for those who do not have automobiles.

g. The availability of vital supplies and services, i.e., food, water, fuel, medical help, etc.

6.0 REFERENCES

6.1 DOH-6, "Recommendation for Protective Measures"

6.2 DOH-8, "Potassium Iodide Issue and Use"

6.3 PI-1, "Public Information Emergency Response Actions"

6.4 SCH-1, "School Emergency Response Actions"

7.0 ATTACHMENTS

1. Summary of Response Actions to be Taken by Class of Emergency

2. Detailed Emergency Response Actions by Department by Class of Emergency

SUMMARY OF RESPONSE ACTIONS TO BE TAKEN BY CLASS OR EMERGENCY

Notification of Unusual Event (NUE)

	Agency Involved
* Notify initial staff.	WP
* Determine and/or verify plant status.	OFES
* Determine appropriate county response:	
- Place initial staff on standby	WP, OFES
- Direct partial/full activation of EOC	OFES
- Determine appropriate school response option: • Do not open schools • Continue normal school (hold buses) • Initiate "Go Home" Early Dismissal Plan • Relocate to alternate facility • Hold buses	EC, OFES, SCH.
- Place New York State Police on standby	WP
* Continue monitoring situation.	OFES
* Obtain weather conditions	OFES

SUMMARY OF RESPONSE ACTIONS TO BE TAKEN BY CLASS OR EMERGENCY (continued)

Alert

		Agency Involved
*	Review response actions under "NUE".	EC, OFES
*	Activate EOC.	OFES
*	Dispatch Liaison to EOF.	OFES, DOH
*	Dispatch PIOs to JIC and EOC.	OFES
*	Standby/Activate emergency workers.	OFES, All
*	Consider closing all parks and recreational facilities in the County. Coordinate with Orange Co. regarding Bear Mountain and Harriman State Parks.	EC, OFES, PIP, HELP
*	Determine or re-evaluate appropriate school response option: - Do not open schools - Continue normal school - Hold buses - Initiate "Go home" Early Dismissal Plan - Shelter schools - Evacuate schools - Relocate to alternate facility	EC, OFES SCH.
*	Notify special facilities of the emergency and consider suspending non-critical patient admissions to facilities in the Emergency Planning Zone (EPZ).	SFC
*	Consider closing programs for the elderly and disabled.	OFA, OPD
*	Notify Hearing-Impaired of the emergency.	OPD

SUMMARY OF RESPONSE ACTIONS TO BE TAKEN BY CLASS OR EMERGENCY (continued)

Alert (continued)

		Agency Involved
*	In conjunction with NYS and the other three counties, consider activating Alert and Notification System (ANS) and release of Emergency Alert System (EAS) message. If sirens activated, confirm activation and dispatch route alerting if necessary.	EC, PIO WP, RCS
*	Issue News Releases as appropriate.	JIC PIO
*	Update information on Community Radio Station	EOC PIO
*	Check on personnel for shift change	OFES
*	Initiate/Maintain communications with NYS and the other counties.	EC, OFES
*	Notify Towns and Villages of emergency.	OFES
*	Direct agencies to survey available resources (personnel and equipment).	All
*	Consider dispatching Rockland Inter-County Liaison through County Sheriff.	RCS
*	Request technical representative from the Nuclear Facility Operator (NFO) and NYS Liaison from State Emergency Management Office (SEMO).	OFES
*	Activate county radiological monitoring teams for dispatch.	DOH
*	Perform dose projections and determine potentially impacted areas.	DOH

SUMMARY OF RESPONSE ACTIONS TO BE TAKEN BY CLASS OR EMERGENCY (continued)

Alert (continued)

*	Activate Emergency Worker Personnel Monitoring Center (EWPMC) if emergency workers have been dispatched into the field.	DOH, RCSD
*	Initiate EOC Exposure Control System (EOC, 44-Control).	DOH, OFES
*	Confirm all staff have TLDs.	OFES
*	Provide briefings to EOC staff.	EC, OFES
*	Consider activating school reception centers, if required.	BOCES, ARC, SS

SUMMARY OF RESPONSE ACTIONS TO BE TAKEN BY CLASS OR EMERGENCY (continued)

Site Area Emergency (SAE)

		Agency Involved
*	Review response actions under "Alert".	EC, OFES
*	Continue monitoring plant status.	EC, OFES
*	Maintain communications with NYS and the other counties.	EC, OFES
*	Consider converting northbound lanes of PIP to southbound direction. Prepare resources for this conversion.	RCS, SP, PIP, HWY
*	Implement Traffic Control Plan.	RCS, LP
*	Activate Reception Centers/PMCs.	DSS, DOH, FC
*	Dispatch Transportation Liaisons to Bus Companies.	OFES, DPT
*	Confirm readiness of Bus Companies for evacuation.	DPT
*	Confirm fire departments and EMS corps are on standby at station.	FC, EMS
*	Confirm communications established with Joint News Center, Bus Companies, Reception Centers, EWPMC. Dispatch Radio Amateur Civil Emergency Services (RACES) where necessary.	All, RACES
*	Declare Local State of Emergency, possible request for Governor to declare a State "Disaster Emergency".	EC
*	Confirm notification of Hearing-Impaired.	OPD
*	Determine and implement appropriate protective actions for: - General Public - Special Facilities - Non-Institutionalized Mobility Impaired	EC, OFES, DOH, SFC, OPD, EMS, DPT

SUMMARY OF RESPONSE ACTIONS TO BE TAKEN BY CLASS OR EMERGENCY (continued)

Site Area Emergency (SAE) (Continued)

	Agency Involved
* In conjunction with NYS and the other three counties, consider activating ANS and release of EAS message. If sirens activated, confirm activation and dispatch route alerting if necessary. Issue New Releases as appropriate.	EC, PIO, WP, RCS
* Confirm operation of Emergency Worker Exposure Control System.	DOH, All
* Provide briefings to EOC staff.	EOC, OFES
* Weather update.	OFES

SUMMARY OF RESPONSE ACTIONS TO BE TAKEN BY CLASS OR EMERGENCY (continued)

General Emergency

	Agency Involved
* Review response actions under "SAE".	EC, OFES
* Review radiological monitoring results.	DOH, OFES
* Continue to assess plant condition.	DOH, OFES
* Maintain communications with NYS and the other counties.	EC, OFES
* Re-evaluate protective actions taken to consider evacuation of 2 mile radius and 5 mile downwind area, and sheltering of adjacent areas. Re-evaluate actions for: - General Public - Special Facilities - Non-Institutionalized Mobility Impaired	EC, OFES, DOH, SFC, OPD, EMS, DPT
* Utilize Alert and Notification System and EAS to convey protective action instructions to the public. Issue News Releases as appropriate. If sirens activated, confirm activation and route alert, if necessary.	EC, PIO, WP
* Confirm police agencies are facilitating evacuation traffic flow.	RCS, LP
* Confirm Bus Companies are evacuating the transit dependent population.	DPT
* Confirm establishment of EPZ perimeter control.	RCS, LP
* Confirm that monitoring and decontamination of evacuees and emergency workers is being performed if necessary.	DOH, FC, RCSD

SUMMARY OF RESPONSE ACTIONS TO BE TAKEN BY CLASS OR EMERGENCY (continued)

General Emergency (Continued)

		Agency Involved
*	Activate Congregate Care Centers.	ARC, DSS
*	Ensure operation of Emergency Worker Exposure Control System.	DOH, All
*	Authorize emergency workers to extend exposure limits for lifesaving activities or protection of large populations.	EC, DOH
*	Request State and Federal assistance.	EC, OFES
*	Consider relocation of resources to outside of EPZ - buses, fire, EMS, police, highway equipment.	All
*	Provide briefings to EOC staff.	EC, OFES
*	Consider shutting down EOC and 44-Control ventilation system, if release..	OFES
*	If a release, discuss issuing KI with Emergency Coordinator, OFES and DOH.	OFES

DETAILED EMERGENCY RESPONSE ACTIONS BY DEPARTMENT BY CLASS OR EMEGENCY

UNUSUAL EVENT

Sheriff's Communications Center

1. Notify the Director of Fire and Emergency Services (CDFES).
2. Notify initial staff and inform of activation status - i.e., standby, partial or full EOC activation.
3. If required, man RECS line and standby until verbal closeout or escalate to a more serious class.

Office of Fire and Emergency Services

1. Determine and/or verify plant status.
2. In consultation with EC, Direct Partial/Full activation of EOC and determine appropriate school response option.
3. Continue monitoring situation until closeout or escalation of emergency.

New York State Park Police (NYSPP)

1. Receive notification from Sheriff's Communication Center and remain as standby.

School Coordinator

1. Implement school option recommended by CDFES and EC.

ALERT

Sheriff's Communication Center

1. Notify emergency workers to activate/standby.
2. Activate the EOC.
3. Activate siren system, if required.

American Red Cross

1. Dispatch representative to EOC. Place personnel on standby.

Department of Highways

1. Dispatch representative to EOC.
2. Place personnel on standby or mobilize as directed.
3. Notify town, village highway departments & place on standby.
4. Conduct inventory of equipment.
5. Determine road conditions, closings, and construction activities.

Department of Health

1. Staff EOC for Dose Assessment.
2. Assemble and dispatch field monitoring teams.
3. Notify Public Health Nursing staff to standby for potential Reception Center activation.
4. Notify Sewer Plant to activate EWPMC personnel and notify Fire Coordinator to notify PMC personnel to standby.
5. Ensure the establishment of radiological controls and monitoring station for EOC.

Department of Public Transportation

1. Dispatch representative to EOC.
2. Assess transportation resources.

Department of Social Services

1. Dispatch representative to EOC.
2. Place personnel on standby.
3. Ensure access to Public Reception Centers.

EMS Coordinator

1. Dispatch representative to the EOC.
2. Assess available resources.
3. Activate Disaster Dispatcher Network.
4. Place ambulance corps on standby.

Deputy Fire Coordinator

1. Dispatch representative to the EOC.
2. Notify Fire Department PMC personnel to standby.

New York State Police

1. Dispatch representative to the EOC.
2. Alert troopers to standby.
3. Assign standby troopers a location for PIP traffic controls (dispatch to location later).
4. Assist, if requested, in the closing of the Palisades Park System in Rockland County.

Office of Fire and Emergency Services

1. Receive notification from Communications Center.
2. Verify notification of emergency workers.
3. Coordinate set up and activation of the EOC.
4. Initiate/maintain communications with NYS and other counties.
5. Confer with Emergency Coordinator (EC) on emergency status.
6. Advise EC when EOC is activated.
7. Establish radiological controls and monitoring station for EOC.
8. If necessary, coordinate EAS message.
9. Notify town and villages of emergency.
10. Consider utilization of Community Alert System

Helicopter Emergency Lift Program (HELP)

1. Support emergency response activities via use of county helicopter.
2. Assist, if necessary, in the closing of the Palisades Interstate Park.

Office of the Aging

1. Dispatch representative to the EOC.
2. Support Department of Social Services in providing aid for the elderly.

Public Information Officer

1. Dispatch PIOs to EOC and JIC.
2. Issue EAS messages/news releases (JIC PIO).
3. Monitor significant events from all agencies.
4. Monitor and approve information being released on County Radio Station 1640 AM (EOC PIO).

RACES

1. Dispatch representative to the EOC.

2. Support emergency response communications.

Rockland County Sheriff

1. Dispatch representative to the EOC. Duties to include: EOC security, traffic control, law enforcement, command and control of the EPZ.

2. Notify all Sheriff Officers and Local Police Departments to go on standby.

3. Establish security control at the EOC.

4. Assist where required in the closing of the Palisades Park System.

5. Maintain services of the Communication Center (44-Control).

6. If sirens activated, conduct route alerting at failed siren locations.

7. Dispatch Rockland County Liaison to Bergen County.

8. Request local police liaison to report to EOC

Rockland County Sewer District

1. Establish Emergency Worker Personnel Monitoring Center at County Sewer Plant in Sparkill.

School Coordinator

1. Dispatch representative to the EOC.

2. Implement school option recommended by OFES and Emergency Coordinator.

3. In conjunction with the Department of Social Services, establish that schools designated as Reception Centers are available.

Special Facilities Coordinator

1. Dispatch representative to the EOC.
2. Notify special facilities of emergency. Determine resident population.
3. Suspend non-critical patient admissions in EPZ, if directed.

Rockland/Bergen Liaison at EOC

1. Maintain communications with Liaison in Bergen County.
2. If school evacuation is ordered, coordinate School Reception Center operations.

NYSPP

1. Dispatch representative to the EOC.
2. Close all Parks, if directed.
3. Establish ACP to prevent ingress.
4. Identify current Park population.

Office For People With Disabilities

1. Dispatch representative to the EOC.
2. Review list of non-institutionalized mobility impaired and determine transportation needs.
3. Staff specially designated telephone lines.
4. Begin notification of hearing-impaired.

SITE AREA EMERGENCY

American Red Cross

1. Dispatch liaison to Reception Center.

Department of Highways

1. Provide traffic assistance to law enforcement agencies.
2. Cease construction and open up all highways that may be needed for evacuation.
3. Support the establishment of Traffic Control Points.
4. If weather or traffic accident require, assist in highway clearing.
5. Assist with engineering requests at Reception Centers.
6. Assist in highway clearing.
7. Maintain vital public works services in operation for length of emergency.

Department of Health

1. Perform dose assessment.
2. Review results from field monitoring teams.
3. Determine accident prognosis.
4. Provide information on meteorological conditions as to which Areas may be affected by a potential plant release.
5. Determine protective actions for general public, special facilities, mobility impaired and emergency workers and recommend to EC.
6. If Reception Centers activated, dispatch Public Health Nurses to PMC sites.
7. Monitor EOC radiological controls and EOC monitoring station.

Department of Public Transportation

1. Confirm readiness of bus companies for evacuation.
2. Determine which Areas are affected (from DOH) and begin planning on the bus routes to be run and the number of buses necessary.
3. Dispatch Transportation Liaisons to bus companies.

Department of Social Services

1. Activate designated Reception Centers to include personnel monitoring centers.
2. Request police at Reception Center.
3. Coordinate with Red Cross on the preparations ongoing for the opening of the designated Congregate Care Centers.

EMS Coordinator

1. Provide first aid assistance when needed.

Fire Coordinator

1. Provide fire suppression as required.
2. Activate Fire Department PMC personnel for Reception Centers.
3. If required, use available equipment and resources to assist in public alerting.

HELP

1. Fly evacuation routes to assist in monitoring traffic flow.
2. Supply assistance flights (move equipment, personnel, etc.).

NYSP

1. Consider converting northbound lanes of PIP to southbound direction.
2. Patrol and aerial support of traffic control as required.
3. Assist in providing police services for the County.
4. Actuation of state wide command call up system to provide additional resources.

Office of Fire and Emergency Services

1. Continue monitoring plant status and maintain communications.
2. Overall coordination of EOC operations.
3. Coordinate activation of Alert and Notification System and EAS.
4. Confirm operation of Emergency Worker Exposure Control System.

Office of the Aging

1. Provide support to Social Services at Reception Centers concentrating on services for the elderly.

Public Information Officer

1. Prepare news releases (JIC PIO).
2. Develop EAS messages (JIC PIO).
3. Establish Public Inquiry telephone number (JIC PIO).

RACES

1. Establish radio communications from the EOC to support facilities (Reception Centers, bus companies, Congregate Care Centers, Joint News Center).

Rockland County Sheriff

1. Implement traffic control plan.
2. Discuss radiological protection of prisoners at the County Jail with DOH.

Rockland County Sheriff (Con't.)

3. Coordinate use of Sheriff's Patrol and/or local police to provide instructions to the public, if required.

4. Provide security to Reception Center(s) as requested by Social Services.

5. Order full mobilization of all on-duty and off-duty Sheriff's officers.

6. If required, provide security clearances for field monitoring teams.

7. Suspend Public Transportation in EPZ.

8. Mobilize tow trucks.

School Coordinator

1. If schools have been sent home, provide results of "Go Home Early" actions to Office of Fire and Emergency Services.

2. If other actions need to be taken, coordinate sheltering or evacuation procedures.

Special Facilities Coordinator

1. Discuss protective actions for any hospitals and nursing homes in the affected Areas with DOH.

2. If other actions need to be taken, coordinate sheltering or evacuation procedures.

RC/BC Liaison at EOC

1. Inform Bergen County of:

   a. Possible evacuation considerations.
   b. Opening of Reception Centers.
   c. School Reception Center Operations.
   d. Request for clearance for buses on GSP.
   e. Plume definition data.

PIP

1. Relocate families at park Visitor Center to Rockland County Reception Center when operational.

Office For People With Disabilities

1. Confirm notification of hearing-impaired.

GENERAL EMERGENCY

American Red Cross

1. Activate Congregate Care Centers providing temporary shelter/food for evacuees.

Department of Highways

1. Using barricades and highway signs, assist police in establishing perimeter control/EPZ ingress and egress control.

Department of Health

1. Determine affected Areas and recommend protective actions to be taken for:

   a. General population
   b. Mobility impaired
   c. Emergency workers
   d. Special facilities

2. Determine amount of time available before plume passage (e.g. arrival time, duration, etc.).

3. Advise of any projected wind changes.

4. Monitor results from county and NFO field teams.

5. Review reports of exposure/contamination from PMC for general public and emergency workers.

6. Interface with State on ingestion pathway monitoring (placing animals on stored feed or public water supply concerns).

7. Coordinate with NFO and State/Federal agencies for provision of additional radiological monitoring equipment and personnel.

8. Provide assistance to the EMS Coordinator if required for treatment of contaminated injury.

9. Counsel Emergency Coordinator on request for exposure extension for emergency workers.

10. Counsel Emergency Coordinator in any proposed use of KI.

11. Monitor issuance of dosimetry and personnel exposure control.

12. Determine protective actions for special facilities (e.g., nursing homes, hospitals, etc.).

13. Review EOC radiological controls and monitoring reports for EOC. Provide guidance and assistance to OFES.

Department of Public Transportation

1. Ensure bus drivers receive their emergency equipment and evacuation instructions.

2. Ensure bus drivers man their buses and begin running evacuation routes.

3. Coordinate dispatch of buses to Areas being evacuated.

4. If required, provide transport of evacuees from the Reception Centers to Congregate Care Centers.

5. Provide information on bus routes for news releases/EAS messages.

Department of Social Services

1. Process personnel through Reception Centers into Congregate Care Centers.

2. Establish communications with the State Department of Social Services.

3. Utilize RACES to establish radio communications between the EOC and the Reception Centers.

4. As the Reception Centers wind down, consider reassigning personnel to the Congregate Care Centers.

Fire Coordinator

1. If necessary, dispatch apparatus for lighting purposes, or water supply for decontamination purposes.

HELP

1. Air support to monitor evacuation traffic and road conditions.
2. Public Alerting if requested.
3. Deliver equipment and personnel as necessary.

NYSP

1. Perimeter control of evacuated areas.
2. Police services for affected area.
3. Develop 24 hour coverage (2-12 hour shifts).

Office of Fire and Emergency Services

1. Continue to assess plant condition.
2. Review radiological monitoring results.
3. Reactivate Alert and Notification System as necessary.
4. Continue briefings to all present in the EOC.
5. Re-evaluate protective actions taken.
6. Maintain EOC facility operations.
7. Maintain EOC radiological controls and monitoring for EOC. Interface with DOH personnel for guidance and assistance.
8. Ensure operation of Emergency Worker Exposure Control System.
9. Develop 24 hour rosters for each agency.
10. Coordinate arrival of Federal assistance.

Public Information Officer

1. Maintain Public Inquiry (JIC PIO).
2. Issue EAS messages (JIC PIO).
3. Issue news releases (JIC PIO).

Rockland County Sheriff

1. Facilitate evacuation traffic flow.

2. Coordinate traffic control and EPZ police activities.

EMS Coordinator

1. If evacuation ordered, assist special facilities and non-institutionalized mobility impaired as determined by DPT Coordinator and OPD.

OFA

1. Continue support of operations for the elderly.

RACES

1. Continue radio support at offsite operations.

SFC

1. Coordinate sheltering or evacuation needs of special facilities.

School Coordinator

1. Monitor school response actions.

RC/BC Liaison at EOC

1. Inform Bergen County of:

   a. Evacuation actions.

   b. Congregate Care Center Operations

OPD

1. Continue coordination of evacuation of non-institutionalized mobility impaired.

(NOT USED)

EC-2

APPROVED BY	COUNTY OF ROCKLAND	PROCEDURE NO.
OFES:_____ EC: _____	OFFICE OF FIRE AND EMERGENCY SERVICES	EC-2

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

EC-2

OPERATIONS LIAISON EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

The purpose of this procedure is to detail the activities of the Command and Control Operations Liaison during a radiological emergency at the Indian Point Energy Center.

2.0 RESPONSIBILITY

The Operations Liaison (OL) is responsible for implementation of this procedure.

3.0 PRECAUTIONS

None

4.0 PREREQUISITES

A Notification of Unusual Event or higher emergency classification has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Summary

The Operations Liaison is responsible for the flow of information between Command and Control and the Operations Room and the maintenance of the Command and Control Status Boards.

Instructions

When notified, the Operations Liaison should perform the steps indicated below. When a step is initiated, initial the step and indicate the time in the margin.

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

EC-2

OPERATIONS LIAISON EMERGENCY RESPONSE ACTIONS

5.1 Receive Initial Notification

Notification of an Unusual Event

5.1.1 Upon notification from the Sheriff's Communication Center (44-Control), the OL will record time of initial notification and report to the EOC, if required.

5.1.2 If EOC activation is not required, the OL will remain on standby until closeout or escalation of the emergency.

5.1.3 If EOC activation is required, report to EOC.

Alert, Site Area Emergency and General Emergency.

5.1.4 Upon notification from the Sheriff's Communication Center (44-Control), the OL will record time of initial notification and report to EOC.

5.2 Set Up EOC

5.2.1 Upon arrival at the EOC, have identification card readily available and check in through security.

5.2.2 Log in on sign-in sheet located at security desk in hall.

5.2.3 Obtain TLD from security after signing in.

5.2.4 Sign name and agency on status board located in Operations Room.

5.2.5 Record name of initial notification here _____.

5.3 EOC Operations

5.3.1 Obtain briefing from EC and CDFES on status.

5.3.2 Obtain briefing from Operations Manager.

5.3.3 Confirm information received at above briefings. Investigate discrepancies and resolve.

5.3.4 Maintain status boards in Command and Control Room. Maintain continuity with the Operations Room Status Boards.

5.3.5 Notify Operations Manager of:

- change in emergency classification
- protective action discussions and decisions
- EAS preparations, content, time aired
- Need for agency representatives in Command and Control Room

5.3.6 Notify EC and CDFES of:

- status of responding agencies
- status of operations in regards to protective action decisions

5.3.7 Participate in Operations Room briefings as required.

5.3.8 To close out, collect all message forms and log use and give them to CDFES.

5.3.9 Prepare a summary report for the Emergency Coordinator detailing the actions, problems encountered and suggestions for the future.

6.0 REFERENCES

6.1 EC-1, "Emergency Coordinator Emergency Response Actions"

6.2 OFES-1, "CDFES Emergency Response Actions"

6.3 OFES-2, "Operations Manager Emergency Response Action"

7.0 ATTACHMENTS

None

OFES-1

APPROVED BY OFES:_____	COUNTY OF ROCKLAND OFFICE OF FIRE AND EMERGENCY SERVICES	PROCEDURE NO. OFES-1

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

OFES-1

CDFES EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

This procedure provides the responsibilities and actions of the County Director of Fire Emergency Services (CDFES) during a radiological emergency at the Indian Point Energy Center.

Rockland County has adopted the National Incident Management System/ Incident Command System for EOC operations. The CDFES is part of the Command Group and reports to the County Executive (Incident Commander).

2.0 RESPONSIBILITY

The CDFES is responsible for the implementation of this procedure.

3.0 PRECAUTIONS

None

4.0 PREREQUISITES

A notification Unusual Event or higher emergency classification has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Summary

The CDFES will be responsible for the coordination of all EOC activities and emergency response actions and make recommendations regarding emergency response activities to the Emergency Coordinator.

CDFES EMERGENCY RESPONSE ACTIONS

Instructions

When notified, the CDFES will perform the steps indicated below. When a step has been initiated, initial the step and indicate the time in the margin.

5.1 Receive Initial Notification

Notification of an Unusual Event

5.1.1 Upon notification from the Sheriff's Communication Center (44 Control) of a radiological emergency at the Indian Point Energy Center, the CDFES will record time of initial notification.

5.1.2 The CDFES will notify the EC and confer regarding the emergency and direct the activation of the EOC if necessary.

5.1.3. The CDFES will confer with the EC regarding the appropriate school response options and notify the School Coordinator of the recommended school action.

> [Note: All school options are available at this time except school evacuation. School evacuation is possible only after review of resources and activation of transportation school reception center resources.]

5.1.4 If EOC activation is not necessary, the CDFES will instruct the Sheriff's Communication Center (44 Control) to continue to notify the appropriate personnel of the NUE and that EOC activation is not required, but to be on standby status.

5.1.5 If EOC activation is not necessary, the CDFES will continue to monitor the situation by receiving information from the NFO through the Sheriff's Communication Center (44 Control) or directly on the RECS line until closeout or escalation of the event.

5.1.6 If the emergency does not progress beyond the NUE, instruct the Sheriff's Communication Center (44 Control) to notify all personnel previously contacted and inform them of status; then proceed to Step 5.5, Emergency Closeout.

5.1.7 If EOC activation is necessary, instruct the Sheriff's Communication Center (44 Control) to notify the appropriate emergency responders to report to the EOC.

5.1.8 If EOC activation is necessary, proceed with Step 5.1.9.

Alert, Site Area Emergency and General Emergency

> [Note: In the event of an immediate Alert or higher classification, all steps in 5.1, 5.2 and 5.3 need to be implemented.]

5.1.9 The CDFES will receive notification from the Sheriff's Communication Center (44 Control) for an Alert, Site Area Emergency or General Emergency. Record time of initial notification.

5.1.10 Instruct Sheriff's Communication Center (44 Control) to notify Emergency Responders to report to the EOC and commence notification of agency personnel.

5.1.11 CDFES will report to the EOC.

5.2 Set Up EOC

5.2.1 Obtain copy of Radiological Emergency Data Form and review information.

5.2.2 Notify Deputy Sheriff to secure access to EOC.

5.2.3 Have identification card readily available and check in through security, if established.

5.2.4 Log in on sign in sheet located at security desk in hall.

5.2.5 Obtain TLD from security after signing in.

5.2.6 Sign name and agency on status board in EOC.

5.2.7 Set up Command and Control area.

5.2.8 Verify operability of Command and Control phones.

5.2.9 Record time of initial notification here_____.

5.2.10 Brief EC, Operations Manager, EOC Resource Coordinator on status.

5.3 EOC Operations

5.3.1 Determine which emergency responders have been notified, time of response, positions manned in EOC.

5.3.2 Determine EOC activation status from Operations Manager and EOC Resource Coordinator.

5.3.3 Confer with NFO, County Health Commissioner and NYS DOH on a continuing basis for assessment and evaluation during the course of the emergency.

5.3.4. Request NYS SEMO Liaison to report to the Rockland EOC.

5.3.5 Request NFO to send technical representative to the EOC.

5.3.6 Notify supervisors of towns and mayors of villages of emergency and status of response.

5.3.7 Assist EC with Command and Control functions.

5.3.8 The CDFES will confer with the EC on the consideration of implementing one or more of the following response options for the affected Areas.

Initial Precautionary Operations

* Close all parks and recreational areas in the county.
* Determine or re-evaluate appropriate school response option.
* Consider suspending non-critical patient admissions to facilities in the EPZ.
* Consider closing programs for the elderly and disabled.

5.3.9 Participate in EOC briefings as required.

5.3.10 Coordinate information flow between Command and Control; Operations, RECS, Executive Hotline and NFO.

5.3.11 If the emergency does not progress beyond the Alert classification, proceed to Step 5.5, Emergency Closeout.

5.3.12 If the emergency proceeds to a Site Area Emergency or higher, proceed to Step 5.4.

5.4 Site Area Emergency and General Emergency

CAUTION

IN THE EVENT OF AN IMMEDIATE SITE AREA OR GENERAL EMERGENCY, STEPS IN SECTIONS 5.1, 5.2 and 5.3 NEED TO BE IMPLEMENTED.

5.4.1 Continue to confer with the Emergency Coordinator, Operations Manager and EOC Resource Coordinator.

5.4.2 Continue to confer with the NFO to obtain the most up-to-date information.

5.4.3 The CDFES shall: activate the Alert and Notification System followed on a continuing basis with the applicable EAS bulletins as directed by the Emergency Coordinator.

5.4.4 Based on the order from the Emergency Coordinator, implement one or more of the following response options for the affected Area(s).

NOTE: In providing consultation to the Emergency Coordinator on protective actions, utilize "Indian Point Energy Center Development of Evacuation Time Estimates" prepared by KLD Associates and Plan Appendix A, "Rockland County Emergency Response Planning Areas," Appendix B, "Population Distribution," and Appendix C, "Evacuation Travel Time Estimates."

1. General Sheltering

   In the event of a puff-type radiological release incident, or for those situations indicating evacuation but where evacuation cannot be implemented because of time constraints and/or impediments to highway movement, direct the general public in the affected areas to remain indoors, close windows and doors, and turn off heating, ventilating and air conditioning equipment in accordance with the procedures developed for this action.

2. Selective Sheltering

   Initiate the sheltering of those individuals who could not be safely evacuated if a General Evacuation was necessary.

3. General Evacuation

Initiate the evacuation of affected Emergency Response Planning Areas.

NOTE: If the EOC is projected to be affected by the plume, ensure the securing of the ventilation, the establishment of an initial entry radiological monitoring station.

5.4.5 Ensure all status boards in Command and Control are properly marked, when applicable.

5.4.6 Ensure the JIC PIO prepares an Emergency Alert System message and press release with each change in protective action throughout the duration of the emergency.

5.4.7 Advise Operations Manager to obtain a 24 hour roster of each agency in the EOC.

5.4.8 On a regular basis, in conjunction with the Emergency Coordinator, give a briefing to all in attendance in the EOC.

5.4.9 Maintain necessary EOC staff until closeout or reduction of emergency class.

5.4.10 Coordinate the request for and use of State and Federal Government assistance.

5.5 Emergency Closeout

The CDFES shall:

5.5.1 Advise Operations Manager to notify all response agency coordinators in the EOC of the termination of the emergency.

5.5.2 Conduct a final status report with all response agency coordinators at the EOC and receive written final reports.

5.5.3 Advise EOC Resource Coordinator to ensure that all EOC equipment is properly stored and inventoried.

5.5.4 Advise Operations Information Coordinator to ensure collection of all documentation generated throughout the duration of the emergency. This documentation shall be placed on file.

5.5.5 Prepare an emergency report covering all emergency actions implemented throughout the emergency and follow-up items to be presented to the Emergency Coordinator.

5.5.6 Critique - Emergency Operations Center will partake in a Critique within five business days after the closeout of the incident.

5.5.7 Notify JNC PIO that the emergency has been terminated.

6.0 REFERENCES

6.1 Communications Center Standard Operating Procedures

6.2 "Evacuation Travel Time Estimates for the Indian Point Nuclear Power Station Plume Exposure Pathway Emergency Planning Zone"

6.3 Appendix A - "Rockland County Emergency Areas Descriptions and Boundaries"

6.4 Appendix B - "Population Distribution"

6.5 Admin. 7, Section 6.2, Notification of Town Supervisors and Village Mayors

6.6 Admin. 7, Section 6.3, Emergency Response Team Notification List

7.0 ATTACHMENTS

NONE

(NOT USED)

OFES-2

APPROVED BY	COUNTY OF ROCKLAND	PROCEDURE NO.
OFES:_____	OFFICE OF FIRE AND EMERGENCY SERVICES	OFES-2

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

OFES-2

OPERATIONS MANAGER EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

This procedure provides for responsibilities and actions of the Operations Manager (OM) during a radiological emergency at the Indian Point Energy Center.

2.0 RESPONSIBILITY

The Operations Manager (OM) is responsible for the implementation of this procedure.

3.0 PRECAUTIONS

None

4.0 PREREQUISITES

A Notification of Unusual Event or higher emergency classification has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Summary

The Operations Manager will be responsible for the overall coordination of EOC activities, including the provision of direction in the Operations Room, the coordination of information with Command and Control, the interaction with EOC Resource Coordinator and Operations Information Coordinator, and the conducting of regular EOC briefings.

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

OFES – 2

OPERATIONS MANAGER EMERGENCY RESPONSE ACTIONS

Instructions

When notified, the OM should perform the steps below. When a step is initiated, initial the step and indicate the time in the margin.

5.1 Receive Initial Notification

Notification of an Unusual Event

5.1.1 Upon notification from the Sheriff's Communication Center (44 Control), the OM will record time of initial notification.

5.1.2 If EOC activation is necessary, proceed with Step 5.1.4.

5.1.3 If EOC activation is not required, OM will remain on standby until closeout or escalation of the emergency.

Alert, Site Area Emergency and General Emergency

5.1.4 Upon notification from the Sheriff's Communication Center (44 Control), the OM will record time of initial notification.

5.1.5 Notify appropriate personnel on OM Notification List of emergency classification and EOC activation.

5.1.6 Report to the EOC.

5.2 Set Up EOC

> **NOTE:** If security desk is not set up upon arrival, report directly to the CDFES for a briefing. After briefing, proceed with steps 5.2.1 through 5.2.4.

5.2.1 Have identification card readily available and check in through security.

5.2.2 Log in on sign in sheet located at security desk in hall.

5.2.3 Obtain TLD from security after signing in.

5.2.4 Instruct support staff to obtain EOC Operations Manager Kit and do the following:

5.2.4.1 Check EOC Operations Manager kit.

5.2.4.2 Set up EOC Operations Manager area (Floor plan provided).

5.2.4.3 Verify operability of phone.

5.2.5 Report to CDFES.

5.2.6 Obtain briefing from CDFES.

5.3 EOC Operations

5.3.1 Check EOC status boards and verify with CDFES to ensure information is current and accurate.

5.3.2 Coordinate flow of information between Operations and Command and Control.

5.3.3 Interface with the Operations Information Coordinator on information flow and accuracy of Status Boards throughout EOC operation.

5.3.4 Interface with the EOC Resource Coordinator on EOC facility equipment, supplies.

5.3.5 Interface with the Operations Liaison on regular basis.

5.3.6 Check EOC staffing roster to identify agency representatives that are present. Notify CDFES of status.

5.3.7 If requested by CDFES, advise staff support to notify those agency representatives not present.

5.3.8 Notify CDFES when EOC is activated. If requested by CDFES, obtain a 24-hour roster of all agencies in the EOC.

5.3.9 Hold briefings with agency representatives in EOC on regular basis.

5.3.10 Read all messages from Command and Control and priority messages from agencies and announce to Operations Room.

5.3.11 Coordinate the delivery of radiological samples field with appropriate agencies.

5.3.12 To close out: conduct final briefing, collect all logs and paper trails.

5.3.13 Prepare a summary report for the Emergency Coordinator detailing actions, problems encountered and suggestions for the future.

6.0 REFERENCES

Admin. 7, Section 6.4, Operations Manager Notification List

7.0 ATTACHMENTS

NONE

OFES-3

APPROVED BY OFES: _____	COUNTY OF ROCKLAND OFFICE OF FIRE AND EMERGENCY SERVICES	PROCEDURE NO. OFES-3

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

OFES-3

OPERATIONS INFORMATION COORDINATOR EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

This procedure provides for methods of handling internal communications at the EOC.

2.0 RESPONSIBILITY

The Operations Information Coordinator and the primary responder of each agency operating in the EOC are responsible for the implementation of this procedure.

3.0 PRECAUTIONS

3.1 EOC staff receiving messages shall make certain of the authenticity of same. Methods used to verify this may include call-back to the originator. EOC staff shall consult the EC before acting upon a message in question.

> **NOTE:** Dedicated lines such as RECS and the Executive Hotline do not require verification.

3.2 All message forms should be completed using a ballpoint pen.

4.0 PREREQUISITES

The EOC has been activated.

5.0 ACTIONS

Summary

The Operations Information Coordinator (OIC) will coordinate the flow of information between EOC response agencies, maintain the status boards in the Operations Room and maintenance of Operations Room paper trails and information logs.

Instructions

When notified, the OIC should perform the steps indicated below. When a step is initiated, initial the step and indicate the time in the margin.

5.1 Receive Initial Notification

Notification of an Unusual Event

5.1.1 Upon notification from the EOC, the OIC will record time of initial notification.

5.1.2 If EOC activation is required, proceed with Step 5.1.4.

5.1.3 If EOC activation is not required, OIC will remain on standby until closeout or escalation of the emergency.

Alert, Site Area Emergency and General Emergency

5.1.4 Upon notification from the EOC, the OIC will record time of initial notification.

5.1.5 Report to the EOC.

5.2 Set Up EOC

> **NOTE:** If security desk is not set up upon arrival, report directly to the Operations Manager for briefing. After briefing, proceed with steps 5.2.1 through 5.2.4.

5.2.1 Have identification card readily available and check in through security.

5.2.2 Log in on sign-in sheet located at security desk in hall.

5.2.3 Obtain TLD from security after signing in.

5.2.4 Sign name and agency on status board in Operations Room.

5.2.5 Set up OIC area.

5.2.6 Verify operability of phone.

5.2.7 Record time of initial notification here _____.

5.2.8 Obtain briefing from Operations Manager.

5.2.9 Brief OIC support staff on emergency status and the operation of the OIC area.

5.3 EOC Operations

5.3.1 Messages within EOC:

5.3.1.1 Pertinent messages between agencies shall be recorded on the Internal Message Form (Attachment 1) and delivered in accordance with the Internal Message Form instructions.

5.3.1.2 Assign support personnel to distribute memos as directed.

5.3.1.3 OIC is responsible for the notification of the OM of memos that contain priority information.

5.3.2 All EOC Status Boards will be maintained, updated and recorded under the direction of the OIC.

5.3.2.1 Assign personnel to update Status Boards.

5.3.2.2 Assign personnel to maintain log of Status Boards.

5.3.3 Messages to the EOC

5.3.3.1 Messages for the EOC received in the Sheriff's Communication Center will be recorded on the Internal Message Form. The EOC will be notified of received messages and will dispatch a messenger to pick up and distribute.

5.3.3.2 Messages received directly by the EOC via telephone, RECS, or fax will be recorded on the Internal Message Form or other appropriate form and distributed by the receiver.

5.3.4 Messages from the EOC

5.3.4.1 All agency messages originating from the EOC to be transmitted to outside agency/organizations require the approval of the lead agency representative.

5.3.4.2 The individual approving such messages shall ensure that a record copy is sent to the Operations Manager.

5.3.4.3 For voice communications, the location originating the contact shall be considered the originator.

5.3.4.4 Message approvals are not required for radio communication between EOC dose assessment and mobile field survey teams and for dose assessment communications to outside agencies and organizations.

5.3.4.5 RACES communication will also be transferred to Internal Message Forms.

5.3.5 To close out, collect all message forms and procedures used and give them to CDFES.

5.3.6 Prepare a summary report for the Emergency Coordinator detailing the emergency actions, problems encountered and suggestions for the future.

6.0 REFERENCES

None

7.0 ATTACHMENTS

1. Internal Message Form

NOT USED

THIS **IS / IS NOT** AN EXERCISE **PRIORITY 1** **PRIORITY 2**
(Circle One) *(Circle One)*

COUNTY OF ROCKLAND
OFFICE OF FIRE and EMERGENCY SERVICES

INTERNAL MESSAGE FORM

DATE: _____ TIME _____ AGENCY MESSAGE NO. _____

NEW MESSAGE ☐ YES ☐ NO IF NO, ORIGINAL MESSAGE NO. _____
FOLLOW UP REQUEST ☐ YES ☐ NO

FROM: _____

DISTRIBUTE TO:

MESSAGE

- ☐ All
- ☐ Operations
- ☐ County
- ☐ NYS Rep.
- ☐ Office of Aging
- ☐ Office of Disabilities
- ☐ Red Cross
- ☐ Health Dept.
- ☐ Social Services
- ☐ Mental Health
- ☐ Public Information
- ☐ Fire Coord.
- ☐ EMS Coord.
- ☐ Local Police
- ☐ Sheriff
- ☐ Pal. Int. Pky.
- ☐ NYS Police
- ☐ HELP
- ☐ Purchasing
- ☐ O&R
- ☐ Bell Atlantic
- ☐ Command & Control
- ☐ Schools
- ☐ Resource Coord.
- ☐ Special Facilities
- ☐ Transportation
- ☐ Highway
- ☐ Other: _____

OPS # _____ NAME: _____

OFES - Rev. 9/98

(NOT USED)

OFES-4

APPROVED BY OFES:_____	COUNTY OF ROCKLAND OFFICE OF FIRE AND EMERGENCY SERVICES	PROCEDURE NO. OFES-4

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

OFES-4

EOC RESOURCE COORDINATOR EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

This procedure provides the responsibilities and actions of the EOC Resource Coordinator in the areas of EOC facility management; equipment, supply and personnel support services.

2.0 RESPONSIBILITY

The EOC Resource Coordinator is responsible for the implementation of this procedure during a radiological emergency at the Indian Point Energy Center.

3.0 PRECAUTIONS

None

4.0 PREREQUISITES

A Notification of Unusual Event or higher emergency classification has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Summary

The EOC Resource Coordinator is responsible for the maintenance of the EOC and its supplies and equipment in a continuing state of readiness. The EOC, when activated, serves as the central control/coordinator for all of the emergency activities in Rockland County. The County Executive (Emergency Coordinator) and CDFES are in charge of the activated EOC and the facility is managed by the EOC Resource Coordinator. It is manned by representatives of each of the agencies involved in emergency response.

Instructions

When notified, the EOC Resource Coordinator shall ensure the steps indicated below have been performed. When a step has been completed, initial the step and indicate the time in the margin.

5.1 Receive Initial Notification

Notification of an Unusual Event

5.1.1 The EOC Resource Coordinator will receive initial notification from the Sheriff's Communication Center (44 Control) for a Notification of Unusual Event.

5.1.2 Upon notification, the EOC Resource Coordinator will record time of initial notification and report to the EOC, if instructed.

5.1.3 If EOC activation is necessary proceed with Step 5.1.5.

5.1.4 If EOC activation is not required, the EOC Resource Coordinator will remain on standby until closeout or escalation of the emergency.

Alert, Site Area Emergency and General Emergency

5.1.5 Upon notification from the Sheriff's Communication Center (44 Control), the EOC Resource Coordinator will record time of initial notification.

5.1.6 Notify personnel on EOC Resource Coordinator Notification List of emergency classification and EOC activation.

5.1.7 Report to the EOC.

5.2 Set up EOC

5.2.1 Initiate the set up or instruct support personnel to set up (tables, equipment, telephones, radios, etc.) the EOC Operations Room, Dose Assessment Room, Command and Control area and kitchen.

5.2.2 Confer with Deputy Sheriff to ensure that access to the EOC is secured.

5.2.3 Ensure that EOC stations are accessible and have adequate supplies.

5.2.4 Check operability of the following equipment:

- RECS Phone
- Operations Desk Phones
- Command and Control Phones
- Executive Hotline
- Two-way Radio Communications
- Dose Assessment Phones
- Fax equipment
- Copy equipment

5.2.5 Assign support personnel to prepare and operate kitchen facility. Order meals and beverages through EOC staff.

5.2.6 Assign support personnel to operate EOC equipment.

5.2.7 Inform EC, CDFES and OM when EOC is operational.

5.2.8 Assign support personnel to inventory, distribute and order supplies for emergency response agencies.

5.2.9 Establish contact with Rockland County departments listed below to advise them of the emergency and request support services as required:

- Purchasing
- Budgeting
- Finance
- Personnel

5.2.10 Distribute emergency response kits/equipment as appropriate for:

- Transportation Liaisons
- Highway Department
- RACES
- HELP

5.2.11 Participate in EOC briefings, as required.

5.2.12 Respond to agency request for equipment, supplies, support personnel as required.

5.2.13 Coordinate the repair of any malfunctioning equipment with the appropriate organization or company.

5.2.14 Coordinate the acquisition of any needed emergency resources as required.

5.2.15 To close out, collect and inventory all supplies and equipment. Secure all EOC equipment and facility.

5.2.16 Prepare a summary report for the Emergency Coordinator detailing actions, problems encountered and suggestions for the future.

5.2.17 Reorder supplies.

6.0 REFERENCES

6.1 EOC Resource Coordinator Notification List (Internal Document)

7.0 ATTACHMENTS

None

ARC-1

APPROVED BY	COUNTY OF ROCKLAND	PROCEDURE NO.
OFES:_____ ARC:_____	OFFICE OF FIRE AND EMERGENCY SERVICES	ARC-1

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

ARC-1

AMERICAN RED CROSS EOC OPERATIONS EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

The purpose of this procedure is to describe the operations and functions of the American Red Cross Representative(s) in the Rockland County EOC during a radiological emergency at the Indian Point Energy Center.

Rockland County has adopted the National Incident Management System/Incident Command System for EOC operations. The Red Cross staff is part of the operations section, human needs branch.

2.0 RESPONSIBILITY

The American Red Cross is responsible for implementing this procedure.

3.0 PRECAUTIONS

None

4.0 PREREQUISITES

An Alert or higher emergency classification has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Summary

The American Red Cross (ARC) will establish liaisons at Reception Centers and provide for the temporary sheltering of evacuees in Congregate Care Centers. The existing ARC program and procedures will be implemented during the activation of Congregate Care Centers. Equipment and supplies will be maintained on a regular basis by the ARC and will be provided by the ARC during the course of the evacuation.

Instruction

When notified, the ARC representative should perform the steps indicated below. When a step has been initiated, initial the step and indicate the time in the margin.

5.1 Receive Initial Notification

Notification of Unusual Event

5.1.1 No response required unless otherwise directed.

Alert, Site Area Emergency and General Emergency

5.1.2 The ARC Emergency Operations Office will receive notification from the Emergency Operations Center for an Alert, Site Area Emergency or General Emergency or when the Communications Center is instructed otherwise by the County Director of Fire and Emergency Services (CDFES).

5.1.3 When notified, the ARC Emergency Operations Office will contact the ARC Representative identified on the ARC call out list and instruct him/her to report to the Emergency Operations Center.

5.1.4 Upon notification from the ARC Emergency Operations Office, the ARC Representative will record time of initial notification and report to the EOC.

5.2 Set Up EOC

5.2.1 Upon arrival at EOC, have identification card readily available and check in through security.

5.2.2 Log in on sign-in sheet located at security desks in hall.

5.2.3 Obtain TLD from security after signing in.

5.2.4 Sign name and agency on EOC staffing roster located in EOC.

5.2.5 Check inventory in desk.

5.2.6 Review ARC procedures.

5.2.7 Set up ARC area (Floor plan provided).

5.2.8 Verify operability of phone.

5.2.9 Record time of initial notification here_____.

5.2.10 Report to EOC Operations Manager.

5.2.11 Obtain briefing from Operations Manager.

5.3 EOC Operations

5.3.1 Notify ARC/GNY EOC of arrival in Rockland EOC. Provide briefing information.

5.3.2 Notify ARC emergency response personnel to standby and/or mobilize as directed.

5.3.3 At a Site Area Emergency, dispatch ARC liaison to the Reception Centers.

5.3.4 If evacuation is called:

a. Interface with the ARC liaison at the Reception Center to determine the numbers of people who require congregate care.

b. Develop congregate care needs, and determine which Congregate Care Center should be opened. See Attachment 1, "Congregate Care Centers for Rockland County."

c. Direct the mobilization of ARC personnel to Congregate Care Centers. See Attachment 1 for list of these centers. ARC Procedure 3031, Mass Care: Preparedness and Operations, shall be implemented at this time.

5.3.5 Upon release from the EOC, prepare a report of ARC activities for delivery to the Emergency Coordinator.

6.0 REFERENCES

6.1 ARC Procedure 3031, Mass Care: Preparedness and Operations

6.2 ARC Procedure 5021, Shelter Operations Workshop - Instructor's Manual.

7.0 ATTACHMENTS

1. Congregate Care Centers for Rockland County

CONGREGATE CARE CENTERS FOR ROCKLAND COUNTY

1. Bergen County Community College
   400 Paramus Road
   Paramus, New Jersey

2. Ramapo College
   500 Ramapo Valley Road
   Mahwah, New Jersey

3. Fairleigh Dickinson University
   Hackensack Ave. and River Rd.
   Teaneck, New Jersey

The American Red Cross also has an agreement with the United Methodist Disaster Services for Southern New York and Northern Bergen County to activate Congregate Care Centers.

(NOT USED)

DHY-1

APPROVED BY	COUNTY OF ROCKLAND	PROCEDURE NO.
OFES:_____ DHY:_____	OFFICE OF FIRE AND EMERGENCY SERVICES	DHY-1

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

DHY-1

DEPARTMENT OF HIGHWAYS EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

This procedure outlines the actions and responsibilities of the Rockland County Department Of Highways during a radiological emergency at the Indian Point Energy Center.

Rockland County has adopted the National Incident Management/Incident Command System for EOC operations. The Department of Highways staff is part of the operations section, infrastructure branch.

2.0 RESPONSIBILITY

The Rockland County Superintendent of Highways is responsible for implementing this procedure.

3.0 PRECAUTIONS

None

4.0 PREREQUISITES

An Alert or higher emergency classification has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Summary

The Rockland County Superintendent of Highways will coordinate the activities of the Rockland County Department of Highways which may be required for the maintenance and repair of essential roadways during a radiological emergency. He will also assist other emergency services as appropriate in providing traffic control devices, barricades, signs, etc. His responsibilities generally include: maintaining road and highway availability through snow and ice control, debris

clearance and emergency repairs to roads and bridges, establishing traffic control barricades, and assisting in maintenance of essential public services.

The Emergency Coordinator or, when designated, the County Director of the Office of Fire and Emergency Services shall direct the Superintendent of Highways in the utilization of Department of Highways and public works resources of the county, towns and villages as required.

Instructions

When notified, the Superintendent of Highways should perform the steps indicated below. When a step has been initiated, initial the step and indicate the time in the margin.

5.1 Receive Initial Notification

Notification of an Unusual Event

5.1.1 No response required unless otherwise directed.

Alert, Site Area Emergency and General Emergency

5.1.2 The Superintendent of Highways will receive notification from the Emergency Operations Center for an Alert, Site Area Emergency or General Emergency or when the Communications Center is instructed by the County Director of Fire and Emergency Services (CDFES).

5.1.3 Upon notification, the Superintendent of Highways will record time of initial notification and report to the EOC.

5.2 Set Up EOC

5.2.1 Upon arrival at the EOC, have identification card readily available and check in through security.

5.2.2 Log in on sign-in sheet located at security desk in hall.

5.2.3 Obtain TLD from security after signing in.

5.2.4 Sign name and agency on EOC staffing roster located in EOC.

5.2.5 Verify operability of two-way radio.

5.2.6 Check DHY Inventory.

5.2.7 Set up DHY area. (Floor plan provided)

5.2.8 Verify operability of phone.

5.2.9 Record time of initial notification here_____.

5.2.10 Report to EOC Operations Manager.

5.2.11 Obtain briefing from Operations Manager.

5.3 EOC Operations

5.3.1 Notify DHY emergency response personnel to standby and/or mobilize, as directed.

5.3.2 Notify town and village highway department superintendents and county highway department foreman. Instruct them to be on standby and to begin standby notification of their personnel. See Admin 7, Section 6.5, "Department of Highways Notification List." Direct them to inventory their traffic control equipment including barriers, cones, blinkers, etc.

5.3.3 Distribute appropriate dosimetry and DHY Procedures from the EOC (obtain from the EOC Resource Coordinator) to field personnel. Instruct personnel to wear and utilize dosimetry appropriately and to monitor their exposure continuously while in affected Areas. Refer personnel to the exposure control information card for dosimetry record keeping, wearing of dosimetry, reading dosimeters, reporting requirements and the use of Potassium Iodide. Interface with the DOH Exposure Control Coordinator on dosimetry questions and exposure control information.

5.3.4 Notify New York State Department of Transportation at Ridge Road and remain in communication to exchange periodic updating information.

5.3.5 Interface with Sheriff and State Police representatives to determine highway conditions such as construction, snow, traffic or other impediments. Use the Rockland County Evacuation Route Map provided in the EOC.

5.3.6 When requested by the Emergency Coordinator, perform the following:

a. Order the temporary suspension of all construction on county roads and advise town and village highway departments as necessary.

b. Direct the Stony Point equipment depot to move equipment south to an area not likely to be affected by potential plant releases.

c. Direct the County Highway Department to have one heavy equipment truck available equipped with a snow plow, and towing equipment as necessary (refer to Attachment 4).

d. Remain in constant communication with State Department of Transportation. Assist them where necessary in keeping State road evacuation routes and routes to Reception Centers free of impediments and request assistance from them as necessary.

e. On request of the Sheriff, direct road crews to check County, Town, and Village evacuation routes, backup routes and routes from the EPZ to the reception centers for impediments (e.g., downed trees, snow, disabled vehicles) and have them removed if possible, in accordance with their normal procedure for the removal of snow and other impediments to traffic. Refer to Attachment 1, "Highway Department Resource List."

f. Keep the Sheriff's Department and NYS Police representatives informed of status of highways and activities of highway departments.

g. Utilize commercial towing services prior to release of radiation. During and after release or in contaminated areas, only properly training personnel and equipment will be utilized.

5.3.7 If traffic control efforts are ordered:

a. Provide traffic assistance (e.g., barricades, vehicles with radios) to law enforcement agencies to support the establishment of traffic control points. These points will be along evacuation routes and at ingress control points at the boundary of the EPZ or affected Areas. The Sheriff will indicate the points needing equipment/personnel assistance. RCS-2, "Traffic Control" contains listings and descriptions of the Traffic Control Points.

b. Request local Departments of Highways and Public Works to deploy personnel to assist in setting up traffic control signs and barricades.

c. If requested, assist with engineering requests at Reception Centers, Admin. 7, Section 7.5.

d. If requested, contact appropriate agencies to change traffic signals at predesignated locations to a specified mode in order of specific priority.

e. Assist in providing emergency fuel supplies during egress.

5.3.8 To maintain services, the Superintendent or his designee will direct Town and Village officials, Admin. 7, Section 6.5, to assign personnel to keep vital public works services, i.e., snowplowing, in operation during the emergency (two 12 hour shifts).

5.3.9 Changes in Emergency Status:

a. If the emergency classification changes, inform the county, town, village and State Highway Department personnel.

b. If the emergency is escalated to a higher emergency class, maintain emergency preparedness.

c. If the emergency is de-escalated, close out activities of Highway Departments. Collect all message and other forms and give to CDFES.

d. Prepare a summary report for submission to the Emergency Coordinator.

6.0 REFERENCES

6.1 DOH-4, "Exposure Control Coordinator"

6.2 RCS-2, "Traffic Control"

6.3 Admin 7, Section 6.5, Department of Highways Notification List

6.4 Admin. 7, Section 7.5, Reception Centers

7.0 ATTACHMENTS

1. Highway Department Resource List
2. List of Access Control Points to Prohibit Ingress to Areas
3. List of Access Control Points to Prohibit Ingress to 10-mile EPZ
4. List of Traffic Control Points at Key Intersections

COUNTY HIGHWAY DEPARTMENT RESOURCE LIST

SEE 1ST PAGE OF COUNTY HIGHWAY DEPARTMENT RESOURCE LIST

SEE 2ND PAGE OF COUNTY HIGHWAY DEPARTMENT RESOURCE LIST

LIST OF ACCESS CONTROL POINT TO PROHIBIT INGRESS TO AREAS

The following tables are used when evacuation is of a portion of the EPZ or is staged by Areas. The appropriate control posts to establish are those at the perimeter of the Area or combined Areas that are being evacuated. Interior control posts along common Area boundaries that are being evacuated should NOT be manned.

(NOT USED)

ACCESS CONTROL POINTS TO PROHIBIT AREA INGRESS

TO PROHIBIT INGRESS TO AREA	ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
Tompkins Cove	R-52	Route 9W	West Shore Rd.	Stony Point
Tompkins Cove	R-53	Buckberg Rd.	Mott Farm Rd.	Stony Point
Tompkins Cove	R-54	Route 9W	Wayne Ave.	Stony Point
Tompkins Cove	R-55	Route 9W	Park Rd.	Stony Point
Stony Point	R-53	Mott Farm Rd.	Buckberg Rd.	Stony Point
Stony Point	R-56	Route 210	Cedar Flat Rd.	Stony Point
Stony Point	PK-15	Route 210	PIP	Stony Point
Stony Point	R-57	Willow Grove Rd.	Gate Hill Rd.	Stony Point
Stony Point	R-58	Willow Grove Rd.	Call Hollow Rd.	Stony Point
Stony Point	PK-14	Willow Grove Rd.	PIP	Stony Point
Stony Point	R-59	Letchworth Village Rd.	Willow Grove Rd.	Stony Point
Stony Point	R-60	Hammond Rd.	Filors Ln.	Stony Point
Stony Point	R-61	Central Highway	Cinder Rd.	Haverstraw
Grassy Point	R-7	Route 9W	Railroad Ave.	Haverstraw
Grassy Point	R-62	Grassy Point Rd.	Beach Rd.	Haverstraw
Stony Point	R-55	Route 9W	Park Rd.	Stony Point
Stony Point	R-54	Wayne Ave.	Route 9W	Stony Point
Village of West Haverstraw	R-62	Grassy Point Rd.	Beach Rd.	Haverstraw
Village of West Haverstraw	R-7	Route 9W	Railroad Ave.	Haverstraw
Village of West Haverstraw	R-61	Central Highway	Cinder Rd.	Haverstraw
Stony Point	R-60	Hammond Rd.	Filors Ln.	Haverstraw
Stony Point	R-59	Letchworth Village Rd.	Willow Grove Rd.	Haverstraw
Stony Point	PK-14	Willow Grove Rd.	PIP	Haverstraw
Unincorporated Areas of the Town of Haverstraw	R-12	Route 202	Route 45	Haverstraw
Northeastern & Eastern Town of Clarkstown	R-63	Central Highway	South Mountain Rd.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-14	Route 9W	Route 304	Clarkstown
Village of Haverstraw	R-9	Route 9W	Haverstraw/South Mountain Rd.	Haverstraw
Northwestern Town of Clarkstown	R-16	Route 304	Goebel Rd.	Clarkstown
Northwestern Town of Clarkstown	R-64	Congers Rd.	Strawtown Rd.	Clarkstown
Northwestern Town of Clarkstown	R-65	Kings Highway	Lake Rd.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-22	Route 303	Lake Rd. N.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-77	Route 9W	Lake Rd.	Clarkstown

ACCESS CONTROL POINTS TO PROHIBIT AREA INGRESS

TO PROHIBIT INGRESS TO AREA	ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
Northeastern & Eastern Town of Clarkstown	R-79	Route 9W	Lake Rd. S.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-51	Route 9W	Christian Herald Rd.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-77	Lake Rd. N.	Route 9W	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-21	Route 303	Lake Rd. S.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-65	Kings Highway	Lake Rd.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-64	Strawtown Rd.	Congers Rd.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-16	Route 304	Goebel Rd.	Clarkstown
Northeastern & Eastern Town of Clarkstown	R-66	Main St.	Phillips Hill Rd.	Clarkstown
Central Town of Clarkstown	R-67	Main St.	New Hempstead Rd.	Clarkstown
Central Town of Clarkstown	R-68	Main St.	New City-Congers Rd.	Clarkstown
Central Town of Clarkstown	R-17	Route 304	South Main St.	Clarkstown
Central Town of Clarkstown	R-18	Route 304	Germonds Rd.	Clarkstown
Central Town of Clarkstown	R-47	Strawtown Rd.	Hillcrest Rd.	Clarkstown
Central Town of Clarkstown	R-48	Strawtown Rd.	Germonds Rd.	Clarkstown
Northwestern Town of Clarkstown	R-49	Old Mill Rd.	Crusher Rd.	Clarkstown
Northwestern Town of Clarkstown	R-24	Kings Highway	Crusher Rd.	Clarkstown
Northwestern Town of Clarkstown	R-50	Christian Herald Rd.	Storms Rd.	Clarkstown
Northwestern Town of Clarkstown	R-51	Route 9W	Christian Herald Rd.	Clarkstown
34	R-63	Central Highway	South Mountain Rd.	Clarkstown
34	R-12	Route 45	Route 202	Haverstraw
34	R-69	Route 45	Conklin Rd.	Ramapo
34	PK-12	Route 45	PIP	Ramapo
34	R-70	Buena Vista Rd.	Conklin Rd.	Clarkstown
34	R-71	Phillips Hill Rd.	Old Phillips Hill Rd.	Clarkstown
34	R-72	Little Tor Rd.	Phillips Hill Rd.	Clarkstown
34	R-66	Main St.	Phillips Hill Rd.	Clarkstown
34	R-16	Route 304	Goebel Rd.	Clarkstown
34	R-64	Strawtown Rd.	Congers Rd.	Clarkstown
34	R-14	Route 9W	Route 304	Clarkstown
34	R-9	Route 9W	Haverstraw Rd.	Clarkstown
Central Town of Clarkstown	R-66	Main St.	Phillips Hill Rd.	Clarkstown
Central Town of Clarkstown	R-72	Little Tor Rd.	Phillips Hill Rd.	Clarkstown
Central Town of Clarkstown	R-71	Phillips Hill Rd.	Old Phillips Hill Rd.	Clarkstown

ACCESS CONTROL POINTS TO PROHIBIT AREA INGRESS

TO PROHIBIT INGRESS TO AREA	ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
Central Town of Clarkstown	R-70	Buena Vista Rd.	Conklin Rd.	Clarkstown
Central Town of Clarkstown	R-69	Route 45	Conklin Rd.	Ramapo
Central Town of Clarkstown	R-27	Route 45	New Hempstead Rd.	Ramapo
Central Town of Clarkstown	PK-12	Route 45	PIP	Ramapo
Central Town of Clarkstown	R-28	Eckerson Rd.	Route 45	Ramapo
Central Town of Clarkstown	R-46	Middletown Rd.	West Clarkstown Rd.	Clarkstown
Central Town of Clarkstown	R-18	Route 304	Germonds Rd.	Clarkstown
Central Town of Clarkstown	R-17	South Main St.	Route 304	Clarkstown
Central Town of Clarkstown	R-68	Main St.	New City-Congers Rd.	Clarkstown
Central Town of Clarkstown	R-67	New Hempstead Rd.	Main St.	Clarkstown
Village of Pomona	PK-14	Willow Grove Rd.	PIP	Stony Point
Village of Pomona	R-58	Willow Grove Rd.	Call Hollow Rd.	Stony Point
Village of Pomona	R-73	Haverstraw Rd.	Route 306	Ramapo
Village of Pomona	R-78	Quaker Rd.	Route 202	Ramapo
Village of Pomona	PK-13	Route 202	PIP	Ramapo
Village of Pomona	R-74	Camp Hill Rd.	Route 202	Ramapo
Village of Pomona	R-29	Route 306	Route 202	Ramapo
Village of Pomona	R-75	Wilder Ave.	Route 202	Ramapo
Northeastern Town of Ramapo	R-76	Wesley Chapel Rd.	Route 202	Ramapo
Northeastern Town of Ramapo	R-42	Grandview Ave.	Route 202	Ramapo
Northeastern Town of Ramapo	R-43	Viola Rd.	Spook Rock Rd.	Ramapo
Northeastern Town of Ramapo	R-44	Forshay Rd.	Viola Rd.	Ramapo
Northeastern Town of Ramapo	R-33	Route 306	Viola Rd.	Ramapo
Northeastern Town of Ramapo	R-45	Union Rd.	Viola Rd.	Ramapo
Northeastern Town of Ramapo	R-28	Route 45	Eckerson Rd.	Ramapo
Northeastern Town of Ramapo	R-27	New Hempstead Rd.	Route 45	Ramapo
Village of Pomona	R-26	Pomona Rd.	Route 45	Ramapo
Jones Point	R-36	Route 9W	Bear Mountain Circle	NY State
Jones Point	R-52	Route 9W	West Shore Rd.	Stony Point
Jones Point	R-80	Seven Lakes Dr.	Long Mountain Circle	NY State

ACCESS CONTROL POINTS TO PROHIBIT AREA INGRESS

TO PROHIBIT INGRESS TO AREA	ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
Bear Mountain State Park	R-36	Route 9W	Bear Mountain Circle	NY State
Bear Mountain State Park	R-37	PIP	Bear Mountain Circle	NY State
Bear Mountain State Park	R-38	Long Mountain Circle	Bear Mountain Circle	NY State
Bear Mountain State Park	R-39	Cedar Pond Rd.	Seven Lakes Parkway	Stony Point
Bear Mountain State Park	PK-15	PIP	Route 210	Stony Point
Bear Mountain State Park	R-52	Route 9W	West Shore Rd.	Stony Point
Harriman State Park	R-80	Seven Lakes Drive	Long Mountain Circle	Woodbury (OC)
Harriman State Park	R-40	Route 210	Seven Lakes Parkway	Woodbury (OC)
Harriman State Park	PK-15	Route 210	PIP	Stony Point
Harriman State Park	R-56	Route 210	Cedar Flats Rd.	Stony Point
Harriman State Park	R-41	Seven Lakes Drive	Greenway Rd.	Ramapo

ACCESS CONTROL POINTS TO PROHIBIT 10-MILE EPZ INGRESS

ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
301	Entrance to Nyack Beach Park	N. Broadway	Palisades Park
302	9W Northbound	Herald Rd.	Clarkstown
303	Herald Rd./Storms Rd.	Mountainview Ave.	Clarkstown
304	Rte. 303 Northbound	Greenbush Rd.	Clarkstown
305	Germonds/Old Mill Rd.	Strawtown Rd.	Clarkstown
306	PIP Northbound	Exit 9	Clarkstown
307	Rte. 304 Northbound	Pineview Ave.	Clarkstown
308	Little Tor/W. Clarkstown Rd.	N. Middletown Rd.	Clarkstown
309	W. Burda Place	W. Clarkstown Rd.	Clarkstown
310	Great Oaks Drive	W. Clarkstown Rd.	Clarkstown
311	Geraldine Rd.	W. Clarkstown Rd.	Clarkstown
312	Amherst Rd.	W. Clarkstown Rd.	Clarkstown
313	Zabella Drive	W. Clarkstown Rd.	Clarkstown
314	W. Clarkstown Rd./E. Eckerson Rd.	W. Clarkstown Rd.	Clarkstown
315	Mallory Rd.	E. Eckerson Rd.	Ramapo
316	Inwood Lane	E. Eckerson Rd.	Ramapo
317	Headden Drive	E. Eckerson Rd.	Ramapo
318	Rockland Parkway	E. Eckerson Rd.	Ramapo
319	Eckerson Lane	E. Eckerson Rd.	Ramapo
320	Trinity Ave.	E. Eckerson Rd.	Ramapo
321	Buena Vista Rd.	E. Eckerson Rd.	Ramapo
322	Oak St.	E. Eckerson Rd.	Ramapo
323	State St.	E. Eckerson Rd.	Ramapo
324	Rte. 45/W. Main St.	Eckerson Rd.	Ramapo
325	Hempstead Rd.	W. Eckerson Rd.	Ramapo
326	Oak St.	W. Eckerson Rd.	Ramapo
327	Gilda Court	Union Rd.	Ramapo
328	Union Rd. Northbound	Viola Rd.	Ramapo
329	Brockton Rd.	Viola Rd.	Ramapo
330	South Gate Rd.	Viola Rd.	Ramapo
331	Marcia Lane	Viola Rd.	Ramapo

ACCESS CONTROL POINTS TO PROHIBIT 10-MILE EPZ INGRESS

ACP NO.	TRAFFIC PROHIBITED ON	INTERSECTING ROAD	TOWN
332	Rte. 306 N. Monsey-Ladentown Rd.	Grandview Avenue	Ramapo
333	Forshay Rd.	Grandview Avenue	Ramapo
334	Quincy Lane	Viola Rd.	Ramapo
335	Spook Rock Rd.	Grandview Avenue	Ramapo
336	Rte. 202 North	Grandview Ave.	Ramapo
337	Seven Lakes Rd./Johnsontown Rd.	NYS Thruway	Sloatsburg
338	Lake Welch Parkway/Old Cedar Pond Rd.	PIP Exit 16	Palisades Park
339	PIP South/9W-202 (by Orange Co. P.D.)	Bear Mountain Circle	Palisades Park

TRAFFIC CONTROL POINTS

A. Traffic Control Points at Key Intersections

The State, Sheriff and local Police will establish traffic control, within the limits of available manpower, along the evacuation routes and incoming traffic routes at intersections they decide need such control. These intersections may include, but not be limited to those listed in the following tables:

(NOT USED)

TRAFFIC CONTROL POINTS

TCP ID NUMBER	STATE ID	PRIORITY	LOCATION/INTERSECTION	AREA	TOWN	DIAGRAM NO.
PK-10		1	Germonds Road/Palisades Pkwy Exit 10 & N Little Tor Rd	Central Town of Clarkstown	Clarkstown	C-1
PK-11		1	Palisades Parkway Exit 11	Central Town of Clarkstown	Clarkstown	C-2
R-101		1	Strawtown Road/Sickletown Road and Route 59	Shadow	Clarkstown	C-3
R-14		1	Route 9W and Route 304	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-4
R-57		1	New Clarkstown Road and Route 59	Shadow	Clarkstown	C-5
R-82	R-164	1	Route 9W and Route 303	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-6
TWY-11E		1	Route 59 & Access Ramps to I-87/287 E	Shadow	Clarkstown	C-7
TWY-11W		1	Route 59 & Access Ramps to I-87/287 W	Shadow	Clarkstown	C-8
TWY-12		1	NYS Thruway Exit 12	Shadow	Clarkstown	C-9
TWY-13		1	NYS Thruway Exit 13	Shadow	Clarkstown	C-10
TWY-14		1	Route 59 & Access Ramps to I-87/287	Shadow	Clarkstown	C-11
R-100		2	Strawtown Road and Route 59A	Shadow	Clarkstown	C-12
R-15		2	Route 303 and Storms Road/Crusher Road	Shadow	Clarkstown	C-13
R-17		2	Route 304 and South Main Street	Central Town of Clarkstown	Clarkstown	C-14
R-18		2	Route 304 and Germonds Road	Central Town of Clarkstown	Clarkstown	C-15
R-21	R-24	2	Route 303 and Lake Road North	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-16
R-22	R-21	2	Route 303 and Lake Road South	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-17
R-229		2	Eckerson Road and W. Clarkstown Road	Central Town of Clarkstown	Clarkstown	C-18
R-264		2	Route 9W and Birchwood Avenue	Shadow	Clarkstown	C-19
R-272		2	N. Little Tor Road and Phillips Hill Road	Northwestern Town of Clarkstown	Clarkstown	C-20
R-30		2	N. Little Tor Road and New Valley/Milich Lane	Central Town of Clarkstown	Clarkstown	C-21
R-31		2	N. Little Tor Road and New Hempstead Road	Central Town of Clarkstown	Clarkstown	C-22
R-32	R-115	2	Route 304 and Cavalry Drive	Central Town of Clarkstown	Clarkstown	C-23
R-34		2	Route 304 and Laurel Road	Central Town of Clarkstown	Clarkstown	C-24
R-37		2	N. Main Street and Cavalry Drive	Central Town of Clarkstown	Clarkstown	C-25
R-48		2	Strawtown Road and Old Mill Road/Germonds Road	Shadow	Clarkstown	C-26
R-51		2	Route 9W and Christian Herald Road	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-27
R-64		2	Strawtown Road/Ridge Road and Congers Road	Central Town of Clarkstown	Clarkstown	C-28
R-67		2	New Hempstead Road and North Main Street	Central Town of Clarkstown	Clarkstown	C-29
R-68		2	Congers Road and North Main Street	Central Town of Clarkstown	Clarkstown	C-30
R-77	R-5	2	Route 9W and Lake Road	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-31
R-79		2	Route 9W and Rockland Lake Road	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-32
R-85	R-195	2	Route 303 and Gilchrest Road	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-33
R-86		2	Route 303 and Casper Hill Road	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-34

TRAFFIC CONTROL POINTS

TCP ID NUMBER	STATE ID	PRIORITY	LOCATION/INTERSECTION	AREA	TOWN	DIAGRAM NO.
R-90		2	Route 304 and New City-Congers Road	Central Town of Clarkstown	Clarkstown	C-35
R-97		2	Strawtown Road and McCarthy Way	Central Town of Clarkstown	Clarkstown	C-36
R-99		2	Strawtown Road and DeMarest Road	Shadow	Clarkstown	C-37
R-25		3	Kings Highway and New Lake Road/Karin Court	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-38
R-61		3	New Clarkstown Road and Smith Road	Shadow	Clarkstown	C-39
R-65		3	Congers Rd/Lake Rd and Kigs Hwy/Old Haverstraw Rd	Northeastern & Eastern Town of Clarkstown	Clarkstown	C-40
R-104	R-143	1	Route 202 and Central Highway (South)	Village of West Haverstraw	Haverstraw	H-1
R-105	R-136	1	Route 202 and Main Street/Central Highway (North)	Village of West Haverstraw	Haverstraw	H-2
R-12		1	Route 45 and Route 202	Unincorporated Areas of the Town of Haverstraw	Haverstraw	H-3
R-16	R-198	1	Route 202 and Hurd Avenue/Bridge Street	Village of West Haverstraw	Haverstraw	H-4
R-217	R-39	1	Route 9W and New Main Street	Village of Haverstraw	Haverstraw	H-5
R-218		1	Route 9W and Gurnee Avenue	Village of Haverstraw	Haverstraw	H-6
R-7	R-8	1	Route 9W and Railroad Avenue	Village of Haverstraw	Haverstraw	H-7
R-78	R-185	1	Route 202 and Palisades Parkway Ramp, Exit 13	Village of Pomona	Haverstraw	H-8
R-81	R-6	1	Route 9W and Route 202/West Side Avenue	Village of Haverstraw	Haverstraw	H-9
R-89		1	Route 202 and Thiells-Mt. Ivy Road	Unincorporated Areas of the Town of Haverstraw	Haverstraw	H-10
R-11		2	W. Railroad Avenue/Suffern Lane and Central Hgwy/Main St	Village of West Haverstraw	Haverstraw	H-11
R-13	R-200	2	Route 202 and Martino Way	Unincorporated Areas of the Town of Haverstraw	Haverstraw	H-12
R-212		2	Suffern Lane and Hammond Road	Unincorporated Areas of the Town of Haverstraw	Haverstraw	H-13
R-9		2	Route 9W and Old Route 304/Haverstraw Road	Village of Haverstraw	Haverstraw	H-14
R-91	R-163	2	Route 202 and Rosman Road	Unincorporated Areas of the Town of Haverstraw	Haverstraw	H-15
PK-5		1	Palisades Parkway Exit 5	Shadow	Orangetown	O-1
PK-6		1	Palisades Parkway Exit 6	Shadow	Orangetown	O-2
PK-7		1	Palisades Parkway Exit 7	Shadow	Orangetown	O-3
PK-8		1	Palisades Parkway Exit 8	Shadow	Orangetown	O-4
PK-12		1	Route 45, Palisades Pkwy Exit 12 and Conklin Road	Northwestern Town of Clarkstown	Ramapo	R-1
PK-13		1	Palisades Parkway Exit 13	Village of Pomona	Ramapo	R-2
R-207		1	Route 17 and Seven Lakes Road	Shadow	Ramapo	R-3
R-209		1	N. Airmont Road/Highview Road and Spook Rock Road	Shadow	Ramapo	R-4
R-27	R-73	1	Route 45 and New Hempstead Road	Northeastern Town of Ramapo	Ramapo	R-5
R-28	R-29	1	Route 45 and Eckerson Road	Northeastern Town of Ramapo	Ramapo	R-6
R-29	R-138	1	Route 306/Calls Hollow Road and Route 202	Village of Pomona	Ramapo	R-7

TRAFFIC CONTROL POINTS

TCP ID NUMBER	STATE ID	PRIORITY	LOCATION/INTERSECTION	AREA	TOWN	DIAGRAM NO.
R-33	R-93	1	Route 306 and Viola Road	Northeastern Town of Ramapo	Ramapo	R-8
R-45		1	W. Eckerson Road and Union Road	Northeastern Town of Ramapo	Ramapo	R-9
R-54		1	New County Road/College Road and Route 59	Shadow	Ramapo	R-10
R-55		1	Cherry Lane/Spook Rock Road and Route 59	Shadow	Ramapo	R-11
R-56		1	Airmont Road and Route 59	Shadow	Ramapo	R-12
R-92		1	Route 45 and Maple Avenue	Shadow	Ramapo	R-13
R-93		1	Route 45 and Route 59	Shadow	Ramapo	R-14
R-94	R-89	1	Route 306 and Grandview Avenue	Northeastern Town of Ramapo	Ramapo	R-15
R-95		1	Route 306 and Maple Avenue	Shadow	Ramapo	R-16
R-96		1	Route 306 and Route 59	Shadow	Ramapo	R-17
R-School-1		1	Grandview Avenue and Forshay Road	Northeastern Town of Ramapo	Ramapo	R-18
R-School-2		1	Route 202 and Viola Road	Shadow	Ramapo	R-19
R-School-3		1	Spook Rock Road and Viola Road	Northeastern Town of Ramapo	Ramapo	R-20
R-School-4		1	Viola Road and College Road	Northeastern Town of Ramapo	Ramapo	R-21
R-School-5	R-93	1	Route 306 and Viola Road	Northeastern Town of Ramapo	Ramapo	R-22
R-School-6		1	N. Airmont Road/Highview Road and Spook Rock Road	Shadow	Ramapo	R-23
R-School-7		1	Highview Road and College Road	Shadow	Ramapo	R-24
TWY-14B		1	North Airmont Road and I-87/287 Ramps	Shadow	Ramapo	R-25
TWY-15		1	NYS Thruway Exit 15	Shadow	Ramapo	R-26
R-10		2	Viola Road and College Road	Northeastern Town of Ramapo	Ramapo	R-27
R-245		2	Eckerson Road and Hempstead Road	Northeastern Town of Ramapo	Ramapo	R-28
R-251		2	New Hempstead Road and Summit Park Road	Northeastern Town of Ramapo	Ramapo	R-29
R-26	R-126	2	Route 45 and Pomona Road	Village of Pomona	Ramapo	R-30
R-47		2	Grandview Avenue and Forshay Road	Northeastern Town of Ramapo	Ramapo	R-31
R-49	R-91	2	Route 306 and Lime Kiln Road	Northeastern Town of Ramapo	Ramapo	R-32
R-58		2	Highview Road and College Road	Shadow	Ramapo	R-33
R-60		2	Route 202 and Viola Road	Shadow	Ramapo	R-34
R-72		2	Route 306 and Willow Tree Road	Shadow	Ramapo	R-35
R-74	R-162	2	Route 202 and Camp Hill Road	Village of Pomona	Ramapo	R-36
R-7B		2	Seven Lakes Road and Johnstown Road	Shadow	Ramapo	R-37
R-63B		3	Spook Rock Road and Carlton Road	Shadow	Ramapo	R-38
PK-14		1	Palisades Pkwy Exit 14 and Willow Grove Road	Stony Point	Stony Point	S-1
PK-15		1	Palisades Parkway Exit 15	Stony Point	Stony Point	S-2

TRAFFIC CONTROL POINTS

TCP ID NUMBER	STATE ID	PRIORITY	LOCATION/INTERSECTION	AREA	TOWN	DIAGRAM NO.
PK-16		1	Palisades Parkway Exit 16	Bear Mountain State Park	Stony Point	S-3
R-103		1	Route 210/Route 106 and Central Highway	Bear Mountain State Park	Stony Point	S-4
R-83	R-9	1	Route 9W and Main Street	Bear Mountain State Park	Stony Point	S-5
R-84	R-120	1	Route 9W and Filors Lane	Bear Mountain State Park	Stony Point	S-6
R-88	R-116	1	Route 9W and Route 210/Route 106	Bear Mountain State Park	Stony Point	S-7
R-102		2	Route 210 and Thiells Road	Bear Mountain State Park	Stony Point	S-8
R-2		2	Filors Lane and Central Highway	Bear Mountain State Park	Stony Point	S-9
PK-17		1	Palisades Parkway Exit 17	Harriman State Park	Woodbury	W-1
PK-18		1	Palisades Parkway Exit 18	Harriman State Park	Woodbury	W-2

DOH-1

APPROVED BY OFES:_____ DOH:_____	COUNTY OF ROCKLAND OFFICE OF FIRE AND EMERGENCY SERVICES	PROCEDURE NO. DOH-1

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

DOH-1

COMMISSIONER OF HEALTH EMERGENCY RESPONSE ACTIONS

1.0 PURPOSE

This procedure provides the actions and responsibilities of the Rockland County Commissioner of Health during an incident at the Indian Point Energy Center.

Rockland County has adopted the National Incident Management System/Incident Command System for EOC operations. The Health Department staff is part of the operations section, government services branch.

2.0 RESPONSIBILITY

The Rockland County Commissioner of Health is responsible for implementing this procedure.

3.0 PRECAUTIONS

None.

4.0 PREREQUISITES

An Unusual Event or higher emergency class has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Summary

The Rockland County Department of Health will act as the lead agency to recommend to the Emergency Coordinator courses of action to protect the health of the population of Rockland County and coordinate health related activities in accordance with the protective actions ordered by the Emergency Coordinator. The Commissioner shall interface on these activities with the NYS Department of Health and the NFO.

Instructions

When notified, the Commissioner of Health should perform the steps below. When a step has been initiated, initial the step and indicate the time in the margin.

5.1 Receive Initial Notification

Notification of an Unusual Event

5.1.1 No response required unless otherwise directed.

Alert, Site Area Emergency and General Emergency

5.1.2 The Commissioner of Health will receive notification from the Sheriff's Communications Center for an Alert, Site Area Emergency or General Emergency or when the Communications Center is instructed otherwise by the County Director of Fire Emergency Services (CDFES).

5.1.3 Upon notification from the Sheriff's Communications Center, the Commissioner of Health shall initiate the Department of Health Alert List.

5.1.4 Record time of initial notification.

5.1.5 Report to the EOC.

5.2 Set Up EOC

5.2.1 Upon arrival at EOC, have identification card readily available and check in through security.

5.2.2 Log in on sign-in sheet located at security desk in hall.

5.2.3 Obtain TLD from security after signing in.

5.2.4 Sign name and agency on EOC Staffing Roster status board located in EOC.

5.2.5 Check Commissioner DOH Inventory.

5.2.6 Set up Commissioner DOH area. (Floor plan provided).

5.2.7 Verify operability of phone.

5.2.8 Record time of initial notification here_____.

5.2.9 Report to EOC Operations Manager.

5.2.10 Obtain briefing from Operations Manager.

5.3 EOC Operations

5.3.1 For An Alert:

1. Monitor (refer to Assessment Room Personnel Status Board) Assessment Room staffing for the following functions:

   a. Dose Assessment
   b. Exposure Control
   c. Field Monitoring

2. Determine from Exposure Control Coordinator that EOC radiological monitoring program has been established.

3. Verify from Exposure Control Coordinator that a minimum of seven (7) Public Health Nursing staff personnel are on standby for potential Reception Center/ Emergency Worker Personnel Monitoring Center activation.

4. Brief the Emergency Coordinator on the status of the above upon request.

5. Ensure that an individual has been dispatched to the Emergency Operations Facility (EOF) or alternate EOF, if necessary, to provide the most current data for dose assessment and has been provided with dosimetry and KI.

5.3.2 For A Site Area Emergency:

1. Monitor (refer to Assessment Room Personnel Status Board) Assessment Room staffing for the following functions:

a. Dose Assessment
b. Exposure Control
c. Field Monitoring

2.a Determine from Exposure Control Coordinator that EOC radiological monitoring program has been established. (Refer to DOH-9 "EOC Monitoring and Exposure Control").

2.b Monitor the implementation of Exposure Control System and EOC radiological monitoring program. (Refer to DOH-4 "Exposure Control Coordinator".)

3.a Verify from Exposure Control Coordinator that a minimum of seven (7) Public Health Nursing staff personnel are on standby for potential Reception Center/Emergency Worker Personnel Monitoring Center activation.

3.b Upon direction of Emergency Coordinator that Reception Center(s) are to be activated direct Exposure Control Coordinator to dispatch Public Health Nursing staff to the Reception Center(s).

4. Brief the Emergency Coordinator on the status of the above upon request.

5. Ensure that an individual has been dispatched to the Emergency Operations Facility (EOF) or alternate EOF, if necessary, to provide the most current data for dose assessment and has been provided with dosimetry and KI.

6. Monitor meteorological conditions and forecasts, as to which Areas may be affected by a plant release. (Available on Radiological Emergency Data Form Part I and through Dose Assessment Team Leader).

7. Monitor accident prognosis available on Radiological Emergency Data Form Part II and through Dose Assessment Team Leader).

8. Monitor dose assessment projections as to impact if a release were to affect Rockland County (available through Dose Assessment Team Leader).

9. Determine protective action response for general public, special facilities, mobility impaired and emergency workers:

   * Consider radiological consequences

   * Consider medical consequences

   Implement DOH-6 "Recommendation for Protective Measures"

10. Recommend Protective Action(s) to Emergency Coordinator.

11. Confer with JNC PIO on text of Press/News releases to ensure text reflects specific instructions for recommended protective action(s).

12. Based on potential for iodine release, implement DOH-8 "Potassium Iodide Issue and Use".

13. Based on accident prognosis, determine the need to coordinate personnel for second shift to ensure adequate 24 hour coverage.

5.3.3 For A General Emergency:

1. Monitor (refer to Assessment Room Personnel Status Board) Assessment Room staffing for the following functions:

   a. Dose Assessment
   b. Exposure Control
   c. Field Monitoring

2.a Determine from Exposure Control Coordinator that EOC radiological monitoring program has been established. (Refer to DOH-9, "EOC Monitoring and Exposure Control").

2.b Monitor the implementation of Exposure Control System and EOC radiological monitoring program. (Refer to DOH-4 "Exposure Control Coordinator".)

3.a Verify from Exposure Control Coordinator that a minimum of seven (7) Public Health Nursing staff personnel are on standby for potential Reception Center/ Emergency Worker Monitoring Center activation.

3.b Upon direction of Emergency Coordinator that Reception Center(s) are to be activated direct Exposure Control Coordinator to dispatch Public Health Nursing staff to the Reception Center(s).

4. Brief the Emergency Coordinator on the status of the above upon request.

5. Dispatch an individual to the Emergency Operations Facility (EOF) or alternate EOF, if necessary, to provide the most current data for dose assessment purposes and has been provided with dosimetry and KI.

6. Monitor meteorological conditions and forecasts, as to which Areas may be affected by a plant release. (Available on Radiological Emergency Data Form Part I and through Dose Assessment Team Leader).

7. Monitor accident prognosis (available on Radiological Emergency Data Form Part II and through Dose Assessment Team Leader).

8.a Monitor dose assessment projections as to impact if a release were to affect Rockland County (available through Dose Assessment Team Leader).

8.b Determine amount of time available before plume passage (e.g., arrival time, duration, etc.)

8.c Review monitoring results from county and NFO field teams.

9. Determine protective action response for general public, special facilities, mobility impaired and emergency workers:

* Consider radiological consequences

* Consider medical consequences

Implement DOH-6 "Recommendation for Protective Measures"

10. Recommend Protective Action(s) to Emergency Coordinator.

11. Confer with JIC PIO on text of Press/News Releases to ensure text reflects specific instructions for recommended protective action(s).

12. Based on potential for iodine release, implement DOH-8 "Potassium Iodide Issue and Use".

13. Based on plume path and type of release, determine whether Personnel Monitor Centers (PMC) should initiate operations.

14. Review reports of exposure/contamination from PMC for general public and emergency workers. Ensure that reports are routed to the dose assessment group.

15. Interface with Exposure Control Coordinator and Emergency Coordinator and make recommendations on requests to exceed reporting levels. (Refer to DOH-4 "Exposure Control Coordinator")

16. Interface with State on ingestion pathway concerns (e.g., public water supplies).

17. Coordinate with State/Federal agencies for the provision of additional radiological monitoring equipment and personnel.

18. Provide assistance to the EMS Coordinator, if required, for treatment of contaminated/injured individuals.

6.0 REFERENCES

6.1 DOH-2, "Personnel Monitoring Centers"

6.2 DOH-3, "Dose Assessment Staffing"

6.3 DOH-4, "Exposure Control Coordinator"

6.4 DOH-5, "Dose Assessment Calculations"

6.5 DOH-6, "Recommendations for Protective Measures"

6.6 DOH-7, "Field Monitoring Team Coordinator"

6.7 DOH-8, "Potassium Iodide Issue and Use"

6.8 DOH-9, "EOC Monitoring and Exposure Control"

6.9 DOH-10, "Recovery/Re-entry"

6.10 DOH-11, "Field Monitoring Teams"

7.0 ATTACHMENTS

None

DPT-2

APPROVED BY	COUNTY OF ROCKLAND	PROCEDURE NO.
OFES:_____ DPT:_____	OFFICE OF FIRE AND EMERGENCY SERVICES	DPT-2

RADIOLOGICAL EMERGENCY RESPONSE AGENCY PROCEDURE

DPT-2

EMERGENCY TRANSPORTATION

1.0 PURPOSE

The purpose of this procedure is to describe the actions to be performed by the Rockland County Department of Public Transportation in providing emergency transportation during a radiological emergency at the Indian Point Energy Center.

2.0 RESPONSIBILITY

The Commissioner of the Department of Public Transportation (DPT Coordinator) is responsible for implementing this procedure.

3.0 PRECAUTIONS

Applicable public transportation safety and vehicle traffic regulations shall remain in effect unless modified by the Sheriff's Department.

Bus routing, transit dependent population projections and required number of buses to facilitate evacuation are based on the "Indian Point Energy Center Evacuation Time Estimate," KLD Associates, Inc., 2003

Additional information on Transportation Providers is available from the EOC Resource Coordinator.

4.0 PREREQUISITES

An Alert or higher emergency classification has been declared at the Indian Point Energy Center.

5.0 ACTIONS

Instructions

Perform the following steps indicated below. When a step is initiated, initial the step and indicate the time in the margin.

5.1 Notify Transportation Providers (Alert or Greater Emergency)

5.1.1 Notify the Transportation Providers identified on Attachment 1 of the current emergency classification and status.

5.1.2 Utilizing Attachment 2 identify available transportation resources for each Transportation Provider and direct those providers to place drivers/ vehicles on standby.

5.1.3 If additional transportation resources are needed, contact the additional Transportation Providers listed at the end of Attachment 1.

5.1.4 Notify Transportation Providers when Transportation Liaisons are dispatched.

5.2 Assess Conditions

5.2.1 Obtain current emergency class, protective action recommendations, and offsite radiological dose information from the Status Boards or Operations Manager.

5.2.2 Review with the Police Agencies and with the Department of Highway Representative any impediments to evacuation (road improvements, restricted access, or traffic problems/accidents on evacuation routes).

5.2.3 Provide the information from steps 5.2.1 and 5.2.2 to the Transportation Providers/Transportation Liaisons.

IF EVACUATION IS CALLED, PERFORM THE FOLLOWING STEPS:

NOTE

THE VEHICLE/TRANSPORTATION PROVIDER ASSIGNMENTS CONTAINED IN THIS PROCEDURE ARE RECOMMENDATIONS ONLY. THE ASSIGNMENTS MUST BE MODIFIED IN ACTUAL EMERGENCY SITUATIONS BASED ON ACTUAL VEHICLE/DRIVER AVAILABILITY, TRANSPORTATION PROVIDER CONTRACTUAL COMMITMENTS, CHANGES IN POPULATION DISTRIBUTION, AND OTHER UNFORESEEN FACTORS. THE DPT COORDINATOR WILL UTILIZE HIS TRANSPORTATION EXPERTISE TO MEET THE EVACUATION REQUIREMENTS OF THE EMERGENCY.

5.3 Determine extent and type of evacuation:

SCENARIO 1 - If evacuation involves partial/full evacuation of general public and special facilities by Area, see step 5.4.

SCENARIO 2 - If evacuation involves schools in the EPZ, and partial/full evacuation of general public and special facilities by Area, see step 5.5.

5.4 General Public and Special Facility Evacuation

5.4.1 Gather Evacuation Information

Ascertain which Areas are to be evacuated.

Utilize Attachment 3, to determine which bus routes must be run.

Utilize Attachment 4, to determine the recommended number vehicles assigned to run a particular route and the recommended Transportation Provider.

5.4.2 Utilizing Attachments 4 and 5, notify the Transportation Providers to mobilize the vehicles. Record the actual vehicles/transportation providers assigned on Attachment 5.

5.4.3 Convey evacuation and radiological dose information to Transportation Providers/Transportation Liaisons including time of evacuation announcement and routes to be run. Verify that dosimetry and appropriate evacuation information (maps/directions) have been issued to bus drivers.

5.4.4 Coordinate with Public Information Officer on the release of a Press Release announcing timing of buses. NOTE: Ensure adequate time is available for evacuees to reach bus stop subsequent to the Press Release, but prior to arrival of the bus at its first stop.

5.4.5 At the request of the Emergency Coordinator, instruct Transportation Providers to deploy buses according to their schedule. A master deployment schedule can be found in Attachment 6, "Dispatch Log".

5.4.6 For Special Facilities and Non-Institutionalized Mobility Impaired individuals

Interface with the Special Facilities Coordinator to determine the transportation requirements of special facilities and interface with the OPD Representative to determine the transportation requirements on non-institutionalized mobility impaired individuals.

Utilizing Attachments 2 and 5, and ambulance availability information from the EMS Coordinator, assign vehicles for the evacuation of special facilities and non-institutionalized mobility impaired individuals.

> **NOTE**: Additional guidance on specialized vehicle assignments for mobility-impaired individuals is contained in Appendix Q.

Coordinate ambulance dispatch with the EMS Coordinator.

5.5 School, General Public and Special Facility Evacuation

5.5.1 School Evacuation

Interface with the School Coordinator to determine the status of schools.

If school evacuation is anticipated or ordered, deploy the Transportation Staging Area (TSA) Supervisor to the TSA at Rockland Community College.

If school evacuation is ordered, utilize Attachment 7 to determine the recommended number of vehicles necessary for each school and the recommended Transportation Provider. Specific information on school addresses, school populations, and school reception centers is available from the School Coordinator.

Notify the Transportation Providers to mobilize the vehicles.

Maintain a log of actual vehicles/transportation providers assigned for school evacuations.

5.5.2 General Public and Special Facility Evacuation

Ascertain which Areas are to be evacuated.

Utilize Attachment 8 to determine which bus routes must be run.

Utilize Attachment 9 to determine the recommended number of vehicles assigned to run a particular route and the recommended Transportation Provider.

Notify the Transportation Provider to mobilize the vehicles.

Record the actual vehicles/transportation providers assigned on Attachment 5.

PERFORM STEPS 5.4.3 THROUGH 5.4.6

5.6 Inform Public Information Officer

5.6.1 Advise the PIO of the routes, times and status of transportation activities.

5.6.2 If routes, times or status changes, advise the PIO immediately.

5.7 Monitor Transportation Activities

5.7.1 The DPT Coordinator will receive reports from the Police Agencies and Department of Highways Representative of any traffic problems or needs for additional buses in certain areas. Based on these reports, he will request Transportation Providers to alter or amend routes, as necessary.

5.7.2 When the DPT Coordinator receives reports from Transportation Providers of traffic problems, crowd control problems, etc., he will advise the Sheriff accordingly.

5.7.3 The DPT Coordinator will coordinate available bus resources among different Transportation Providers to respond to localized problems such as breakdowns, shortages of buses, drivers, etc.

5.7.4 Receive reports from DSS Representative/Transportation Provider informing of arrival of vehicles at Reception Centers and record on Attachment 6, "Dispatch Log".

5.7.5 If extra buses are necessary, advise the Transportation Provider of the new assignment and have the bus dispatched.

5.8 Reception Center to Reception Center and Reception Center to Congregate Care Center Transportation

5.8.1 Procure available bus resources to transport transit dependent evacuees from Reception Center to Reception Center and from Reception Center to Congregate Care Centers. Advise Transportation Provider of transportation needs.

5.9 Return Program

Notify Transportation Providers of initiation of Return Program.

Interface with the ARC Representative to determine the number of evacuees needing return home transportation from the Congregate Care Centers and notify the Transportation Providers of this information. See DPT-3 (step 5.1.17) for additional Return Program Information.

Continue Return Program as directed by the Emergency Coordinator.

6.0 REFERENCES

6.1 DPT-1, "Department of Public Transportation Emergency Response Actions"

6.2 DPT-3, "Transportation Providers and Bus Drivers Emergency Response Actions"

6.3 DPT-4, "Transportation Liaisons Emergency Response Actions"

6.4 DPT-5, "Transportation Staging Area"

6.5 Evacuation Instructions (Maps/Directions)

6.6 Appendix Q, "Specialized Vehicle Assignments for Mobility-Impaired Individuals"

7.0 ATTACHMENTS

1. Transportation Providers Resource Inventory
2. Transportation Provider Information Form
3. Bus Routes/Reception Centers by Area (Scenario 1)
4. Recommended Vehicle Assignments/Transportation Provider by Route (Scenario 1)
5. Actual Vehicle Assignments/Transportation Provider by Route

6. Dispatch Log

7. Recommended Transportation Provider/Vehicle Assignments for School Evacuation

8. Bus Routes/Reception Centers by Area (Scenario 2)

9. Recommended Vehicle Assignments/Transportation Provider by Route (Scenario 2)

Transportation Providers - Resource Inventory

Facility/Address	Overall Fleet Size			Fleet Available for Evacuation			No. Of Vehicles Handicapped-Equipped	No. Of Drivers	Vehicle Location
	Number/Type Of Vehicles	Passenger Capacity	Wheelchair Capacity	Number/Type Of Vehicles	Passenger Capacity	Wheelchair Capacity			
CHESTNUT RIDGE TRANS INC. (SV) 230 Red Schoolhouse Road Spring Valley, NY 10977	100 Buses	44 Adults 66 Children	5 Vans 2 capacity each	50 Buses	44 Adults 66 Children	5 Vans 2 capacity each	5	190	230 Red School House Rd. Spring Valley, NY
	50 Vans	10 Adults 20 Children		25 Vans	10 Adults 20 Children				
CHESTNUT RIDGE TRANSIT INC. 401 Route 17 South Hillburn, NY 10931	40 Buses	44 Adults 66 Children	1 van 2 capacity each	20 Buses	44 Adults 66 Children	1 van 2 capacity each	0	90	Route 17 South Hillburn, NY
	30 Vans	10 Adults 20 Children		15 Vans	10 Adults 20 Children				
STUDENT BUS COMPANY 16 Hoffman Street Spring Valley, NY 10977	49 Buses	44 Adults 66 Children	4	35 Buses	44 Adults 66 Children	2	4	100	16 Hoffman St. Spring Valley, NY
	40 Vans	10 Adults 20 Children		30 Vans	10 Adults 20 Children				
HAVERSTRAW TRANSIT INC. 204 West St. Haverstraw, NY 10927	90 Buses	44 Adults 66 Children	1 Bus	90 Buses	44 Adults 66 Children	1 Bus	1 Bus	225	204 West St. Haverstraw, NY
	90 Vans	10 Adults 20 Children	7 Vans	90 Vans	10-14 Adults 18-20 Children	7 Vans	7 Vans		
CLARKSTOWN CENTRAL SCHOOL DISTRICT 30 Parrott Road West Nyack, NY 10994	65 Buses	44 Adults 66 Children	Vans 1 w/4 wc 7 w/1 or 2 wc Buses: 4	40 buses	44 Adults 66 Children	Vans: 1 w/4 wc 7 w/1 or 2 wc	5	122	30 Parrott Road West Nyack, NY
	44 Vans	10 Adults 20 Children		34 vans	10 Adults 20 Children				
PETER BREGA, INC. Kings Highway Valley Cottage, NY 10989	45 Buses	44 Adults 66 Children		40 Buses	44 Adults 66 Children			54	Kings Highway Valley Cottage, NY
	24 Vans	10 Adults 20 Children		20 Vans	10 Adults 20 Children				
EAST RAMAPO CENTRAL SCHOOL DISTRICT 557 New Hempstead Rd. Spring Valley, NY 10977	56 Buses	44 Adults 66 Children		50 Buses	44 Adults 66 Children			56	New Hempstead Rd. Spring Valley, NY
	45 Vans	10 Adults 20 Children		40 Vans	10 Adults 20 Children				

WC = Wheelchair

Transportation Providers - Resource Inventory

Facility/Address	Overall Fleet Size			Fleet Available for Evacuation			No. Vehicles Handicapped -Equipped	No. Of Drivers	Vehicle Location
	Number/Type Of Vehicles	Passenger Capacity	Wheelchair Capacity	Number/Type Of Vehicles	Passenger Capacity	Wheelchair Capacity			
ROCKLAND COACHES INC/ ROCKLAND TRANSIT INC. OPERATOR 180 Old Hook Road Westwood, NJ 07675	103 Coach buses	49 passengers	103	25-40 coach buses	49 passengers	2	103	200	180 Old Hook Rd. Westwood, NJ
MONSEY NEW SQUARE TRAILS CORP. 8 Washington Avenue New Square, NY	35 coach buses	49 passengers		18 coach buses	49 Passengers	0	0	18	8 Washington Ave. New Square, NY Pomona, NY
ROCKLAND COUNTY DEPT OF MENTAL HEALTH Yeager Health Complex Building F Pomona, NY 10970	18 Vans	Van: 18 w/15	0	18 vans	Van: 18 w/15			16	Yeager Health Ctr. Bldg. G Parking Lot Pomona, NY
	3 Cars	car: 3 w/6		3 cars	car: 3 w/6				
ROCKLAND COUNTY DEPT OF PUBLIC TRANSP. Yeager Health Complex Building T Pomona, NY 10970	16 Vans	8 w/20 adults and 3 wc 8 w/6 adults and 2 wc or 11 adults and 2 wc	8 w/3 wc 8/2 wc	16 Vans	8 w/20 adults and 3 wc 8 w/6 adults and 2 wc or 11 adults and 2 wc	5 w/3 wc 8 w/2 wc	16	24	Yeager Health Ctr. Bldg. T Parking Lot Pomona, NY
ROCKLAND COUNTY DEPT. OF SOCIAL SERVICES MEDICAL TRANSP. Yeager Health Complex Building L Pomona, NY 10970	2 Vans	9 adults 12 children	0	2 vans	9 adults 12 children	0	0	8	Yeager Health Ctr. Bldg. L parking lot Pomona, NY

ADDITIONAL TRANSPORTATION PROVIDERS:

Town of Clarkstown
Clarkstown Mini-Trans
Seeger Drive
Nanuet, NY 10954

Village of Spring Valley
8 Maple Avenue
Spring Valley, N.Y. 10977

WC = Wheelchair

TRANSPORTATION PROVIDER INFORMATION FORM

FACILITY:_____

CONTACT PERSON:_____ TELEPHONE NO._____

DATE/TIME CALLED:_____

REQUIRED INFORMATION:

	CURRENT	UPDATE (AS OF:)	UPDATE (AS OF:)
1.Number of Buses Available:	_____	_____	_____
Number of W-C Buses Available:	_____	_____	_____
Number of Vans Available:	_____	_____	_____
Number of W-C Vans Available:	_____	_____	_____
Number of Cars Available:	_____	_____	_____
2.Number of Drivers Available:	_____	_____	_____
3.Estimated Notification and Mobilization Time:	_____	_____	_____
4.Update/Changes:			

(NOT USED)

BUS ROUTES/RECEPTION CENTERS BY AREA FOR GENERAL PUBLIC EVACUATION

(SCENARIO 1)

AREA	PERSONS REQUIRING BUS EVACUATION	BUS ROUTES	RECEPTION CENTER
Tompkins Cove Stony Point Grassy Point	541	1, 2, 3, 4, 6, 5 16 18, 19	Chestnut Ridge J.H.S. Tappan Zee S.H.S. Nanuet S.H.S. Suffern S.H.S. Spring Valley S.H.S. Chestnut Ridge J.H.S.
Village of Haverstraw Village of West Haverstraw Grassy Point	1,261	7, 8 9, 10 12, 13 11, 14 15	Nanuet S.H.S. Spring Valley S.H.S. Tappan Zee S.H.S. Suffern S.H.S. Pearl River H.S.
Northeastern and Eastern Town of Clarkstown	655	42, 43, 44, 45, 46, 47, 48	Chestnut Ridge J.H.S. Suffern S.H.S.
Northwestern Town of Clarkstown	305	28 31 30 33, 34	Spring Valley S.H.S. Chestnut Ridge J.H.S. Suffern S.H.S. Pearl River H.S.
Central Town of Clarkstown	909	30 31A, 35 32,33,37,38 39, 40, 41 36	Suffern S.H.S. Chestnut Ridge J.H.S. Pearl River H.S. Pearl River H.S. Nanuet S.H.S.
Village of Pomona	97	17, 24 20	Spring Valley S.H.S. Suffern S.H.S.
Northeastern Town of Ramapo	853	21, 22, 23, 25, 26 27, 29	Suffern S.H.S. Spring Valley S.H.S. Chestnut Ridge J.H.S.
Jones Point	3	None	
Bear Mountain State Park	3	None	
Harriman State Park	4	None	
Harriman State Park	1	None	

(NOT USED)

RECOMMENDED VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE
(SCENARIO 1)

ROUTE NO.	AREA/TRAFFIC ZONE	RECOMMENDED VEHICLES REQUIRED	RECOMMENDED TRANSPORTATION PROVIDER
1	Jones Point Tompkins Cove	1 Bus	Brega
2	Stony Point Tompkins Cove	1 Bus & 1 Van	Brega
3	Stony Point	1 Bus & 1 Van	Brega
4	Stony Point	1 Bus	Brega
5	Tompkins Cove Stony Point	2 Buses	Brega
6	Stony Point	1 Bus	Brega
16	Stony Point	1 Bus	Haverstraw
18	Stony Point Tompkins Cove	2 Vans	Haverstraw
19	Stony Point	2 Vans	Haverstraw
7	Village of West Haverstraw Unincorporated Areas of the Town of Haverstraw	2 Buses	Chestnut Ridge
8	Village of West Haverstraw	2 Buses	Chestnut Ridge
9	Unincorporated Areas of the Town of Haverstraw	1 Bus	Chestnut Ridge
10	Unincorporated Areas of the Town of Haverstraw	1 Bus	Chestnut Ridge
11	Village of West Haverstraw Stony Point Grassy Point	1 Bus	Chestnut Ridge
12	Village of Haverstraw	4 Buses	Haverstraw

RECOMMENDED VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE
(SCENARIO 1)

ROUTE NO.	AREA/TRAFFIC ZONE	RECOMMENDED VEHICLES REQUIRED	RECOMMENDED TRANSPORTATION PROVIDER
13	Village of Haverstraw	4 Buses	Haverstraw
14	Village of Haverstraw	4 Buses	Haverstraw
15	Village of Haverstraw	2 Buses	Clarkstown
44	Northeastern and Eastern Town of Clarkstown	1 Bus	Clarkstown
46	Northeastern and Eastern Town of Clarkstown	1 Bus	Brega
47	Northeastern and Eastern Town of Clarkstown	1 Bus	Brega
42	Northeastern and Eastern Town of Clarkstown	2 Buses	Brega
43	Northeastern and Eastern Town of Clarkstown	2 Buses	Brega
45	Northeastern and Eastern Town of Clarkstown	2 Buses	Brega
48	Northeastern and Eastern Town of Clarkstown	2 Buses	Brega
28	Northwestern Town of Clarkstown	1 Bus	Student
30	Northwestern Town of Clarkstown	1 Bus	Clarkstown
31	Northwestern Town of Clarkstown	1 Bus	Clarkstown
33	Northwestern Town of Clarkstown	1 Bus	Clarkstown
34	Northwestern Town of Clarkstown	1 Bus	Clarkstown
31A	Central Town of Clarkstown	1 Bus	Clarkstown

RECOMMENDED VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE (SCENARIO 1)

ROUTE NO.	AREA/TRAFFIC ZONE	RECOMMENDED VEHICLES REQUIRED	RECOMMENDED TRANSPORTATION PROVIDER
32	Central Town of Clarkstown	1 Bus	Clarkstown
33	Northwestern Town of Clarkstown	1 Bus	Clarkstown
35	Central Town of Clarkstown	2 Buses	Clarkstown
36	Central Town of Clarkstown	2 Buses	Clarkstown
37	Central Town of Clarkstown	1 Bus	Clarkstown
38	Central Town of Clarkstown	2 Buses	Clarkstown
39	Central Town of Clarkstown	2 Buses	Clarkstown
40	Central Town of Clarkstown	1 Bus	Clarkstown
41	Central Town of Clarkstown	2 Buses	Clarkstown
17	Village of Pomona	1 Bus	Student
24	Village of Pomona	1 Bus	Student
20	Northeastern Town of Ramapo	1 Bus	Student
21	Northeastern Town of Ramapo	1 Bus	Student
22	Northeastern Town of Ramapo	2 Buses	Student
23	Northeastern Town of Ramapo	2 Buses	Student
25	Northeastern Town of Ramapo	1 Bus	Student
26	Northeastern Town of Ramapo	2 Buses	Student
27	Northeastern Town of Ramapo	2 Buses	Student
29	Northeastern Town of Ramapo	2 Buses	Student

(NOT USED)

ACTUAL VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE

ROUTE NO.	AREA/TRAFFIC ZONE	ACTUAL VEHICLES ASSIGNED	ACTUAL TRANSPORTATION PROVIDER ASSIGNED
1	Jones Point Tompkins Cove		
2	Stony Point Tompkins Cove		
3	Stony Point		
4	Stony Point		
5	Tompkins Cove Stony Point		
6	Stony Point		
16	Stony Point		
18	Stony Point Tompkins Cove		
19	Stony Point		
7	Village of West Haverstraw Unincorporated Areas of the Town of Haverstraw		
8	Village of West Haverstraw		
9	Unincorporated Areas of the Town of Haverstraw		
10	Unincorporated Areas of the Town of Haverstraw		
11	Village of Haverstraw Stony Point Grassy Point		
12	Village of Haverstraw		

ACTUAL VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE

ROUTE NO.	AREA/TRAFFIC ZONE	ACTUAL VEHICLES ASSIGNED	ACTUAL TRANSPORTATION PROVIDER ASSIGNED
13	Village of Haverstraw		
14	Village of Haverstraw		
15	Village of Haverstraw		
44	Northeastern and Eastern Town of Clarkstown		
46	Northeastern and Eastern Town of Clarkstown		
47	Northeastern and Eastern Town of Clarkstown		
42	Northeastern and Eastern Town of Clarkstown		
43	Northeastern and Eastern Town of Clarkstown		
45	Northeastern and Eastern Town of Clarkstown		
48	Northeastern and Eastern Town of Clarkstown		
28	Northwestern Town of Clarkstown		
31	Northwestern Town of Clarkstown		
33	Northwestern Town of Clarkstown		
34	Northwestern Town of Clarkstown		
30	Northwestern Town of Clarkstown		
31A	Central Town of Clarkstown		
32	Central Town of Clarkstown		

ACTUAL VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE

ROUTE NO.	AREA/TRAFFIC ZONE	ACTUAL VEHICLES ASSIGNED	ACTUAL TRANSPORTATION PROVIDER ASSIGNED
33	Northwestern Town of Clarkstown		
35	Central Town of Clarkstown		
36	Central Town of Clarkstown		
37	Central Town of Clarkstown		
38	Central Town of Clarkstown		
39	Central Town of Clarkstown		
40	Central Town of Clarkstown		
41	Central Town of Clarkstown		
17	Village of Pomona		
24	Village of Pomona		
20	Northeastern Town of Ramapo		
21	Northeastern Town of Ramapo		
22	Northeastern Town of Ramapo		
23	Northeastern Town of Ramapo		
25	Northeastern Town of Ramapo		
26	Northeastern Town of Ramapo		
27	Northeastern Town of Ramapo		
29	Northeastern Town of Ramapo		

(NOT USED)

DISPATCH LOG

Route	Area	Bus No.	Departure Time	Run Time		Dispatched	Returned
				Pro-jected	Actual		
1	Jones Point	1-A		22			
	Tompkins Cove	1-B					
2	Stony Point	2-A		20			
	Tompkins Cove	2-B					
3	Stony Point	3-A		14			
		3-B					
4	Stony Point	4-A		10			
5	Tompkins Cove	5-A					
	Stony Point	5-B		30			
6	Stony Point	6-A		11			
7	Village of West Haverstraw	7-A		10			
		7-B					
	Unincorporated areas of the Town of Haverstraw	7-C					

DISPATCH LOG
(continued)

Route	Area	Bus No.	Departure Time	Run Time		Dispatched	Returned
				Pro-jected	Actual		
8	Village of West Haverstraw	8-A		12			
		8-B					
		8-C					
9	Unincorporated areas of the Town of Haverstraw	9-A		10			
		9-B					
		9-C					
10	Unincorporated areas of the Town of Haverstraw	10-A		5			
		10-B					
		10-C					
11	Village of West Haverstraw	11-A		15			
		11-B					
	Stony Point	11-C					
	Grassy Point						
12	Village of Haverstraw	12-A		10			
		12-B					
		12-C					
		12-D					
		12-E					
		12-F					
		12-G					

DISPATCH LOG
(continued)

Route	Area	Bus No.	Departure Time	Run Time		Dispatched	Returned
				Pro-jected	Actual		
13	Village of Haverstraw	13-A		10			
		13-B					
		13-C					
		13-D					
		13-E					
		13-F					
		13-G					
14	Village of Haverstraw	14-A		10			
		14-B					
		14-C					
		14-D					
		14-E					
		14-F					
15	Village of Haverstraw	15-A		15			
		15-B					
		15-C					
		15-D					
16	Stony Point	16-A		10			
		16-B					
17	Village of Pomona	17-A		10			
18	Stony Point Tompkins Cove	18-A		23			
19	Stony Point	19-A		11			
20	Northeastern Town of Ramapo	20-1		15			
21	Northeastern Town of Ramapo	21-A		22			

DISPATCH LOG
(continued)

Route	Area	Bus No.	Departure Time	Run Time		Dispatched	Returned
				Pro-jected	Actual		
22	Northeastern Town of Ramapo	22-A		10			
		22-B					
23	Northeastern Town of Ramapo	23-A		12			
		23-B					
	Village of Pomona	23-C					
24	Village of Pomona	24-A		20			
		24-B					
25	Northeastern Town of Ramapo	25-A		10			
		25-B					
26	Northeastern Town of Ramapo	26-A		17			
		26-B					
27	Northeastern Town of Ramapo	27-A		19			
		27-B					
		27-C					

DISPATCH LOG
(continued)

Route	Area	Bus No.	Departure Time	Run Time		Dispatched	Returned
				Pro-jected	Actual		
28	Northwestern Town of Clarkstown	28-A		17			
29	Northeastern Town of Ramapo	29-A		15			
		29-B					
		29-C					
30	Northwestern Town of Clarkstown	30-A		10			
		30-B					
31	Northwestern Town of Clarkstown	31-A		17			
		31-B					
		31-C					
31A	Central Town of Clarkstown	31A-A		12			
32	Central Town of Clarkstown	32-A		12			
33	Central Town of Clarkstown	33-A		19			
		33-B					
34	Northwestern Town of Clarkstown	34-A		17			
		34-B					
35	Central Town of Clarkstown	35-A		19			
36	Central Town of Clarkstown	36-A		19			

DISPATCH LOG
(continued)

Route	Area	Bus No.	Departure Time	Run Time		Dispatched	Returned
				Pro-jected	Actual		
37	Central Town of Clarkstown	37-A		22			
		37-B					
38	Central Town of Clarkstown	38-A		17			
39	Central Town of Clarkstown	39-A		22			
40	Central Town of Clarkstown	40-A		15			
		40-B					
41	Central Town of Clarkstown	41-A		17			
42	Northeastern and Eastern Town of Clarkstown	42-A		20			
		42-B					
43	Northeastern and Eastern Town of Clarkstown	43-A		17			
		43-B					
44	Northeastern and Eastern Town of Clarkstown	44-A		17			
45	Northeastern and Eastern Town of Clarkstown	45-A		17			
		45-B					
46	Northeastern and Eastern Town of Clarkstown	46-A		17			
		46-B					
		46-C					
47	Northeastern and Eastern Town of Clarkstown	47-A		17			
48	Northeastern and Eastern Town of Clarkstown	48-A		12			

Transportation Providers Resource Inventory

Transp Key	School Key	Transportation Company	School or Facility	# Buses	# Vans	"C" Students	"A" Students	Staff
EPZ SCHOOLS/DAY CARE - 0-4 MILES FROM IPEC								
A05	B003	Peter Brega, Inc.	James A. Farley Middle School	22	2	0	873	110
A04	B004	Haverstraw Transit, Inc.	Stony Point Elementary School	13	1	725	0	91
A04	B007	Haverstraw Transit, Inc.	Crickettown School	1	1	55	0	14
EPZ SCHOOLS/DAY CARE - 4-6 MILES FROM IPEC								
A04	B008	Haverstraw Transit, Inc.	Children of Mary Nursery School	1	1	55	0	13
A03	B009	Student Bus Company	Crickettown Child Care Center	1	1	68	0	6
A08	B010	Chestnut Ridge Transportation, Inc.	Stony Point Child Care Center	2	0	84	0	20
A03	B011	Student Bus Company	West Haverstraw Elementary School	13	1	710	0	100
A04	B012	Haverstraw Transit, Inc.	Building Blocks Center	1	1	53	0	15
A01	B014	Chestnut Ridge Transportation, Inc.	Fieldstone Secondary School	40	0	0	1600	160
A01	B015	Chestnut Ridge Transportation, Inc.	Gerald F. Neary Elementary School	8	1	508	0	70
A04	B017	Haverstraw Transit, Inc.	Haverstraw Head Start-Site 1	3	0	117	0	54
A04	B018	Haverstraw Transit, Inc.	Haverstraw Head Start-Site 2	0	2	30	0	6
A02	B020	Clarkstown Central School District	Haverstraw Middle School	21	1	0	808	120
A04	B021	Haverstraw Transit, Inc.	North Garnerville Elementary School	6	2	343	0	54
A04	B022	Haverstraw Transit, Inc.	North Rockland High School & Annex	58	4	0	2302	282
A03	B023	Student Bus Company	St. Gregory Barbarigo Elementary School	3	1	172	0	21
A03	B024	Student Bus Company	St. Peter's Elementary School	3	4	230	0	24
A03	B025	Student Bus Company	Thiells Elementary School	14	1	789	0	100
A01	B026	Chestnut Ridge Transportation, Inc.	TLC Learning Center	1	1	50	0	13
A07	B027	Rockland Coaches, Inc	Willow Grove Middle School	22	0	0	924	119

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Transportation Providers Resource Inventory

EPZ SCHOOLS/DAY CARE - 6-8 MILES FROM IPEC								
A02	B028	Clarkstown Central School District	Clarkstown Teddy Bears	0	1	14	0	3
A02	B029	Clarkstown Central School District	Lakewood Elementary School	8	0	417	0	74
A06	B030	East Ramapo Central School District	Tutor Time Child Care (Congers)	2	3	157	0	28
A06	B031	East Ramapo Central School District	Tutor Time Child Care (New City)	3	3	185	0	30
A02	B032	Clarkstown Central School District	Woodglen Elementary School	10	3	565	0	86
A07	B033	Rockland Coaches, Inc	Prime Time for Kids	8	0	270	0	100
A01	B034	Chestnut Ridge Transportation, Inc.	Ages & Stages	0	3	35	0	18
A08	B035	Chestnut Ridge Transportation, Inc.	Jawonio, Inc.	17	0	200	300	300
A06	B036	East Ramapo Central School District	Street Community Center Pre-School	0	3	40	0	6
A06	B037	East Ramapo Central School District	Rockland Learning Center	1	1	55	0	9
A05	B038	Peter Brega, Inc.	ARC Prime Time for Kids Children's Day Care Center	5	0	175	0	100
EPZ SCHOOLS/DAY CARE – 8-10 MILES FROM IPEC								
A05	B040	Peter Brega, Inc.	Congers Elementary School	6	3	352	0	59
A06	B041	East Ramapo Central School District	Rockland Country Day School	3	3	175	0	50

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Transportation Providers Resource Inventory

EPZ SCHOOLS/DAY CARE – 8-10 MILES FROM IPEC (Continued)								
A06	B042	East Ramapo Central School District	Liberty Elementary School	9	0	466	0	70
A05	B043	Peter Brega, Inc.	St. Paul's Elementary School	5	2	320	0	26
TS1	B044	TRANSPORTATION STAGING AREA	Clarkstown North Senior High School	37	3	0	1565	175
TS1	B045	TRANSPORTATION STAGING AREA	Laurel Plains Elementary School	8	2	437	0	75
TS1	B046	TRANSPORTATION STAGING AREA	Link Elementary School	8	2	472	0	50
TS1	B047	TRANSPORTATION STAGING AREA	Little Tor Elementary School	5	4	319	0	47
TS1	B048	TRANSPORTATION STAGING AREA	New City Elementary School	8	2	464	0	61
A09	B049	Monsey-New Square Trails Corp.	New City Jewish Ctr. Religious School	2	0	100	0	14
TS1	B050	TRANSPORTATION STAGING AREA	St. Augustine's Elementary School	4	1	246	0	20
A04	B051	Haverstraw Transit, Inc.	St. Paul's Christian Day School	0	10	146	0	21
A04	B053	Haverstraw Transit, Inc.	Temple Beth Shalom Nursery School	0	10	150	0	25
TS1	B054	TRANSPORTATION STAGING AREA	Hillcrest Elementary School	6	5	356	0	52
A09	B055	Monsey-New Square Trails Corp.	Reuben Gittelman Hebrew Day School	8	0	283	46	61
A04	B056	Haverstraw Transit, Inc.	Cornerstone Christian Community School	1	4	94	0	20
A04	B059	Haverstraw Transit, Inc.	CIC Head Start / Early Head Start	0	12	102	0	20

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Transportation Providers Resource Inventory

EPZ SCHOOLS/DAY CARE – 8-10 MILES FROM IPEC (Continued)								
A07	B061	Rockland Coaches, Inc	New Square Project Head Start	2	0	60	0	5
TS1	B060	TRANSPORTATION STAGING AREA	Lime Kiln Elementary School	7	0	370	0	55
TS1	B062	TRANSPORTATION STAGING AREA	Pomona Middle School	21	0	0	764	139
A10	B063	Rockland County Deptartment of Mental Health	Rockland Worksite Day Care Center	0	5	82	0	20
A04	B064	Haverstraw Transit, Inc.	Sonshine Community Nursery School & Day Care Center	0	3	48	0	10
TS1	B065	TRANSPORTATION STAGING AREA	Summit Park Elementary School	8	2	454	0	63
A07	B066	Rockland Coaches, Inc	Yeshiva Avir Yaakov - Boys (North Main)	20	0	850	0	100
A07	B067	Rockland Coaches, Inc	Yeshiva Avir Yaakov - Boys (Roosevelt)	12	0	450	0	100
A07	B068	Rockland Coaches, Inc	Yeshiva Avir Yaakov - Boys (Washington Ave.)	6	0	225	0	50
A07	B069	Rockland Coaches, Inc	Yeshiva Avir Yaakov (Girls)	29	0	1323	0	75
A07	B070	Rockland Coaches, Inc	Bais Yaakov Chafetz Chaim of Pomona (Girls)	6	0	280	0	15
A06	B094	East Ramapo Central School District	West Street Child Care Center	1	0	23	0	7

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Transportation Providers Resource Inventory

EPZ SCHOOLS/DAY CARE – MORE THAN 10 MILES FROM IPEC								
A05	B072	Peter Brega, Inc.	Beechwood Preschool	1	0	30	0	4
A04	B073	Haverstraw Transit, Inc.	Playgarten Pre-School	2	0	95	0	15
A04	B074	Haverstraw Transit, Inc.	Robin Hill Nursery School	0	8	125	0	14
A07	B075	Rockland Coaches, Inc.	Albertus Magnus High School	12	0	0	500	50
TS1	B076	TRANSPORTATION STAGING AREA	Ramapo Senior High School	33	1	0	1293	186
TS1	B077	TRANSPORTATION STAGING AREA	Strawtown Elementary School	6	4	375	0	50
A09	B079	Monsey-New Square Trails Corp.	Temple Beth El Nursery School	4	0	164	0	26
A03	B080	Student Bus Company	Tiny Scholars	0	4	60	0	9
TS1	B082	TRANSPORTATION STAGING AREA	Grandview Elementary School	8	0	419	0	56
TS1	B083	TRANSPORTATION STAGING AREA	Hempstead Elementary School	8	3	487	0	53
TS1	B084	TRANSPORTATION STAGING AREA	Valley Cottage Elementary School	8	1	430	0	68
A04	B086	Haverstraw Transit, Inc.	Busy Bee Play School	0	4	60	0	7
TS1	B087	TRANSPORTATION STAGING AREA	Felix V. Festa Middle School (Campus)	53	4	0	2106	259
A07	B088	Rockland Coaches, Inc	Yeshiva Spring Valley Girls	20	0	856	0	110

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Transportation Providers Resource Inventory

EPZ SCHOOLS/DAY CARE – MORE THAN 10 MILES FROM IPEC (Continued)								
A07	B089	Rockland Coaches, Inc	Yeshiva Zichron Yaakov (Boys)	2	0	0	55	10
A07	B090	Rockland Coaches, Inc	Bais Chinuch Hayeshon (Girls)	3	0	0	117	21
A07	B091	Rockland Coaches, Inc	Mesivta Ohr Naftoli (Boys)	2	0	0	48	13
A07	B092	Rockland Coaches, Inc	Talmud Torah Adas (Boys)	7	0	0	281	30
A07	B093	Rockland Coaches, Inc	Mestifa Ohr Hatorah (Boys)	2	0	0	49	13

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Transportation Providers Resource Inventory

The table below indicates the numbers and destinations of school buses and vans that will need to be assigned from the Rockland Community College Transportation Staging Area (TSA).

Transp Key	School Key	School	# Buses	# Vans	"C" Students	"A" Students	Staff
TS1	B044	Clarkstown North Senior High School	37	3	0	1565	175
TS1	B045	Laurel Plains Elementary School	8	2	437	0	75
TS1	B046	Link Elementary School	8	2	472	0	50
TS1	B047	Little Tor Elementary School	5	4	319	0	47
TS1	B048	New City Elementary School	8	2	464	0	61
TS1	B050	St. Augustine's Elementary School	4	1	246	0	20
TS1	B054	Hillcrest Elementary School	6	5	356	0	52
TS1	B060	Lime Kiln Elementary School	7	0	370	0	55
TS1	B062	Pomona Middle School	21	0	0	764	139
TS1	B065	Summit Park Elementary School	8	2	454	0	63
TS1	B076	Ramapo Senior High School	33	1	0	1293	186
TS1	B077	Strawtown Elementary School	6	4	375	0	50
TS1	B082	Grandview Elementary School	8	0	419	0	56
TS1	B083	Hempstead Elementary School	8	3	487	0	53
TS1	B084	Valley Cottage Elementary School	8	1	430	0	68
TS1	B087	Felix V. Festa Middle School (Campus)	53	4	0	2106	259

"C" – Number of students considered to be children in physical size. Used to determine number of school buses and vans needed for evacuation.
"A" – Number of students considered to be adults in physical size. Used to determine number of school buses and vans needed for evacuation.
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(NOT USED)

BUS ROUTES/RECEPTION CENTERS BY AREA FOR GENERAL PUBLIC EVACUATION

(SCENARIO 2)

AREA	PERSONS REQUIRING BUS EVACUATION	BUS ROUTES	RECEPTION CENTER
Tompkins Cove Stony Point Grassy Point	541	1, 2, 3, 4, 6, 5 16 18, 19	Chestnut Ridge J.H.S. Tappan Zee S.H.S. Nanuet S.H.S. Suffern S.H.S. Spring Valley S.H.S. Chestnut Ridge J.H.S.
Village of Haverstraw Village of West Haverstraw	1,261	7, 8 9, 10 12, 13 11, 14 15	Nanuet S.H.S. Spring Valley S.H.S. Tappan Zee S.H.S. Suffern S.H.S. Pearl River H.S.
Northeastern and Eastern Town of Clarkstown	655	42, 43, 44, 45, 46, 47, 48	Chestnut Ridge J.H.S. Suffern S.H.S.
Northwestern Town of Clarkstown	305	28 31 30 33, 34	Spring Valley S.H.S. Chestnut Ridge J.H.S. Suffern S.H.S. Pearl River H.S.
Central Town of Clarkstown	909	30 31A, 35 32,33,37,38 39, 40, 41 36	Suffern S.H.S. Chestnut Ridge J.H.S. Pearl River H.S. Pearl River H.S. Nanuet S.H.S.
Village of Pomona	97	17, 24 20	Spring Valley S.H.S. Suffern S.H.S.
Northeastern Town of Ramapo	853	21, 22, 23, 25, 26 27, 29	Suffern S.H.S. Spring Valley S.H.S. Chestnut Ridge J.H.S.
Jones Point	3	None	
Bear Mountain State Park	3	None	
Harriman State Park	4	None	
Harriman State Park	1	None	

(NOT USED)

RECOMMENDED VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE (SCENARIO 2)

ROUTE NO.	AREA/TRAFFIC ZONE	RECOMMENDED VEHICLES REQUIRED	RECOMMENDED TRANSPORTATION PROVIDER
1	Jones Point Tompkins Cove	1 Bus	Haverstraw
2	Stony Point Tompkins Cove	1 Bus & 1 Van	Chestnut Ridge
3	Stony Point	1 Bus & 1 Van	Chestnut Ridge
4	Stony Point	1 Bus	Chestnut Ridge
5	Tompkins Cove Stony Point	2 Buses	Chestnut Ridge
6	Stony Point	1 Bus	Chestnut Ridge
16	Stony Point	1 Bus	Haverstraw
18	Stony Point Tompkins Cove	2 Vans	Chestnut Ridge
19	Stony Point	2 Vans	Chestnut Ridge
7	Village of West Haverstraw Unincorporated Areas of the Town of Haverstraw	2 Buses	Rockland Coaches
8	Village of West Haverstraw	2 Buses	Rockland Coaches
9	Unincorporated Areas of the Town of Haverstraw	1 Bus	Rockland Coaches
10	Unincorporated Areas of the Town of Haverstraw	1 Bus	Rockland Coaches
11	Village of West Haverstraw Stony Point Grassy Point	1 Bus	Rockland Coaches

RECOMMENDED VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE (SCENARIO 2)

ROUTE NO.	AREA/TRAFFIC ZONE	RECOMMENDED VEHICLES REQUIRED	RECOMMENDED TRANSPORTATION PROVIDER
12	Village of Haverstraw	4 Buses	Rockland Coaches
13	Village of Haverstraw	4 Buses	Rockland Coaches
14	Village of Haverstraw	4 Buses	Rockland Coaches
15	Village of Haverstraw	2 Buses	Rockland Coaches
44	Northeastern and Eastern Town of Clarkstown	1 Bus	Clarkstown
46	Northeastern and Eastern Town of Clarkstown	1 Bus	Clarkstown
47	Northeastern and Eastern Town of Clarkstown	1 Bus	Clarkstown
42	Northeastern and Eastern Town of Clarkstown	2 Buses	Clarkstown
43	Northeastern and Eastern Town of Clarkstown	2 Buses	Clarkstown
45	Northeastern and Eastern Town of Clarkstown	2 Buses	Clarkstown
48	Northeastern and Eastern Town of Clarkstown	2 Buses	Clarkstown
28	Northwestern Town of Clarkstown	1 Bus	Clarkstown
30	Northwestern Town of Clarkstown	1 Bus	Clarkstown
31	Northwestern Town of Clarkstown	1 Bus	Haverstraw
33	Northwestern Town of Clarkstown	1 Bus	Haverstraw
34	Northwestern Town of Clarkstown	1 Bus	Clarkstown

RECOMMENDED VEHICLE ASSIGNMENTS/TRANSPORTATION PROVIDER BY ROUTE (SCENARIO 2)

ROUTE NO.	AREA/TRAFFIC ZONE	RECOMMENDED VEHICLES REQUIRED	RECOMMENDED TRANSPORTATION PROVIDER
31A	Central Town of Clarkstown	1 Bus	DPT
32	Central Town of Clarkstown	1 Bus	DPT
33	Northwestern Town of Clarkstown	1 Bus	DPT
35	Central Town of Clarkstown	2 Buses	DPT
36	Central Town of Clarkstown	2 Buses	DPT
37	Central Town of Clarkstown	1 Bus	Clarkstown
38	Central Town of Clarkstown	2 Buses	Rockland Coaches
39	Central Town of Clarkstown	2 Buses	Chestnut Ridge
40	Central Town of Clarkstown	1 Bus	Rockland Coaches
41	Central Town of Clarkstown	2 Buses	Rockland Coaches
17	Village of Pomona	1 Bus	Chestnut Ridge
24	Village of Pomona	1 Bus	Chestnut Ridge
20	Northwestern Town of Ramao	1 Bus	Rockland Coaches
21	Northeastern Town of Ramapo	1 Bus	Rockland Coaches
22	Northeastern Town of Ramapo	2 Buses	Rockland Coaches
23	Northeastern Town of Ramapo	2 Buses	Rockland Coaches
25	Northeastern Town of Ramapo	1 Bus	Rockland Coaches
26	Northeastern Town of Ramapo	2 Buses	Rockland Coaches
27	Northeastern Town of Ramapo	2 Buses	Rockland Coaches
29	Northeastern Town of Ramapo	2 Buses	Rockland Coaches

(NOT USED)

DPT-3