

Chester County / Commonwealth E-1

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Chester / Commonwealth
I - Exhibit E-1

1/24/85



DRAFT

CHESTER COUNTY
RADIOLOGICAL EMERGENCY RESPONSE PLAN
FOR INCIDENTS AT THE
LIMERICK GENERATING STATION

NUCLEAR REGULATORY COMMISSION

Chester County/Commonwealth

Docket No. 50-352-OL Official Ex. No. E-1

In the matter of Phila. Elec. Co.

Staff _____ IDENTIFIED

Applicant _____ RECEIVED

Intervenor _____ REJECTED _____

Cont'g Off'r _____

Contractor _____ DATE 1/24/85

Other _____ Witness T. R. S. Campbell

Reporter Ace-Federal Reporters, Inc.

JANUARY 1985

Chester County Department of Emergency Services
14 E. Biddle Street
West Chester, PA 19380

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Draft 10

THIS PLAN IS ADOPTED AS THE COUNTY OF CHESTER'S RADIOLOGICAL EMERGENCY RESPONSE PLAN FOR INCIDENTS AT PHILADELPHIA ELECTRIC COMPANY'S LIMERICK GENERATING STATION. IT PROVIDES THE POLICIES FOR RESPONSE TO BE USED IN THE EVENT OF AN INCIDENT AT THE NUCLEAR FACILITY.

CHESTER COUNTY
BOARD OF COMMISSIONERS

ROBERT J. THOMPSON, CHAIRMAN

EARL M. BAKER

PATRICIA MORAN BALDWIN

DATE

TIMOTHY R. S. CAMPBELL, DIRECTOR
CHESTER COUNTY DEPARTMENT OF
EMERGENCY SERVICES

RECORD OF CHANGES

CHANGE NUMBER	DATE OF CHANGE	DATE ENTERED	CHANGE MADE BY (SIGNATURE)

DRAFT

CHESTER COUNTY RADIOLOGICAL EMERGENCY RESPONSE PLAN

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CHESTER COUNTY
RADIOLOGICAL EMERGENCY RESPONSE PLAN
FOR INCIDENTS AT THE
LIMERICK GENERATING STATION

I. PURPOSE AND AUTHORITY

A. Purpose

The purpose of this Radiological Emergency Response Plan is to:

1. Establish policies and procedures that the County of Chester will use in the event of an incident at the Limerick Generating Station.
2. Define the roles and responsibilities of the Chester County Department of Emergency Services and the County Emergency Operations Center staff in the event of an incident at the Limerick Generating Station.
3. Assure appropriate responses to protect the population within the Chester County section of the plume exposure pathway EPZ and ingestion exposure pathway EPZ, including but not limited to public alerting and notification, protective action guidance and mobilization of county forces to support necessary actions.

B. Authority

The authority for the preparation and implementation of this plan is contained in the Pennsylvania Emergency Management Services Act 323 of 1978, (P.L. 1332).

II. REFERENCES

- A. U.S. Nuclear Regulatory Commission and the Federal Emergency Management Agency, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in support of Nuclear Power Plants," NUREG-0654 FEMA-REP-1, Rev. 1, November 1980.
- B. Commonwealth of Pennsylvania, Disaster Operations Plan, July 1977.
- C. Annex E, "Fixed Nuclear Facility Incidents," to the Commonwealth of Pennsylvania Disaster Operations Plan, November 1981, with changes.
- D. Emergency Plan for the Limerick Generating Station, Units 1 and 2, Volumes 1 and 2, Philadelphia Electric Company.
- E. Pennsylvania Code, Title 4, Part 1, Chapter 3, Subchapter C, "Emergency Management Responsibilities of Departments and Agencies."

- F. Commonwealth of Pennsylvania Disaster Recovery Plan, April 1977.
- G. Manual of Protective Action Guides and Protective Actions for Nuclear Incidents. EPA-520/1-75-001, U.S. Environmental Protection Agency.
- H. Pennsylvania Emergency Management Agency Directive 32, "Development of a Mass Care Operational Program," November 14, 1980.

III. DEFINITIONS

- A. Access Control Points (ACP) - Posts staffed by State or municipal police, augmented when necessary by the National Guard, established around the perimeter of the plume exposure pathway EPZ on roads leading into it, when it is evacuated or occupants are taking shelter, for the purpose of controlling access into the area.
- B. Amateur Radio Emergency System (ARES) - Licensed volunteer radio amateur communications personnel.
- C. Bureau of Radiation Protection (BRP) - State agency within the Department of Environmental Resources responsible for radiological matters.
- D. Central Resource Receiving Point - A designated location outside the plume exposure pathway EPZ suitable for the reception and distribution of supplies and equipment.
- E. Chester County Emergency Broadcast System (EBS) Announcements - Official announcements made at the county level for the purpose of providing instructions or directions from the County Commissioners, or their official representative, to persons within their County. Announcements are made over the designated EBS network. EBS announcements at the State level are made only when they are applicable Statewide. Priorities for EBS announcements are specified by law; first priority to the Federal government, second priority to County governments, and third priority to State governments. Restrictions on the use of EBS announcements do not preclude appropriate use of newspapers, radio and television for public information statements.
- F. Dosimeter - Pocket-sized device that measures accumulated exposure to radiation.
- G. Emergency Management - The planning, assignment and coordination of all available resources in an integrated program of prevention, mitigation, preparedness, response and recovery for emergencies of any kind, whether stemming from enemy attack, or man-made or natural disasters.
- H. Emergency Operations Center (EOC) - A facility equipped for long-term operation and designated for use by the Emergency Management

Agency to direct operations in the event of an emergency condition or incident.

- I. Emergency Planning Zone (EPZ) - An area about a nuclear facility that is defined for both the plume and ingestion exposure pathways.
- J. Fixed Nuclear Facility Incident ("incident") - An incident is an event or condition at a fixed nuclear facility which could result in some impact on public health and safety. Four incident classes have been identified. From the least serious to the most serious they are:
 - 1. Unusual Event - Events are in process or have occurred which indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.
 - 2. Alert - Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the Environmental Protection Agency (EPA) Protective Action Guideline exposure levels.
 - 3. Site Emergency* - Events (which involve actual or likely major failures of plant functions needed for protection of the public) are in process or have occurred. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels except near site boundary.
 - 4. General Emergency* - Events (which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity) 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.
- K. Host Schools - Schools to which risk school students are evacuated. Risk school officials/staff will remain with students until relieved by appropriate authorities or parents, or as provided for within the district plan.
- L. Ingestion Exposure Pathway EPZ - That area surrounding a fixed nuclear facility which, as a result of a release of radioactive

*Note: Site or General Emergency classifications are not to be confused with a "Declaration of Disaster Emergency" made by the Governor in accordance with Pennsylvania Pamphlet Law 1332, Act 323 of 1978.

material, is a potential source of exposure through the ingestion of water and foods, such as milk or fresh vegetables originating there. This EPZ consists of a circular area of 50 miles radius around the fixed nuclear facility.

- M. Main Evacuation Routes - Those roadways identified in state and risk county plans as the principal routes leading from the plume exposure pathway EPZ for use by vehicles in the event of an accident requiring evacuation.
- N. Mass Care Center - Facilities suitable for providing emergency lodging for victims of a disaster left temporarily homeless. Feeding may be accomplished within a mass care center in suitable dining facilities, or nearby.
- O. Mobilize - The act of bringing a staff, department, or agency to the strength required to accomplish its mission on a 24-hour basis including the positioning or movement of equipment or personnel.
- P. Mode of Discharge - Discharge of radioactivity to the ground surface, surface water, the atmosphere or any combination thereof.
- Q. Municipality - For the purpose of this plan, the terms "municipality" or "municipal government" are defined as referring, singularly or collectively, to cities, boroughs, townships and incorporated towns within the Commonwealth of Pennsylvania (in this plan "municipality" does not include counties).
- R. Parent County - The county in which the nuclear facility is physically located.
- S. PEMA - The Pennsylvania Emergency Management Agency, the state level focal point for Emergency Management pursuant to PL 1332, Act 323. of 1978.
- T. Plume Exposure Pathway EPZ - The area surrounding a fixed nuclear facility which is potentially subject to radiation exposure as a result of an incident involving radioactive material released from the facility. Such potential exposure could involve: (a) whole body external exposure to gamma radiation from the plume and from deposited materials, and (b) inhalation exposure from the passing radioactive plume. The EPZ for this pathway consists of an area of approximately ten miles in radius around the fixed nuclear facility. (The exact size and configuration of the plume exposure pathway EPZ has been determined in relation to local emergency response needs and capabilities as they are affected by conditions such as demography, topography, access routes, and jurisdictional boundaries. The plume exposure pathway EPZ for the Limerick nuclear facility is shown in Appendix 2, Annex W).
- U. Political Subdivision - Any county, city, borough, township or incorporated town within the Commonwealth.

- V. Projected Dose - An estimate of the radiation dose which affected individuals could potentially receive if protective actions are not taken.
- W. Protective Action Guide (PAG) - A projected radiation dose which warrants protective action by individuals, as defined in pertinent Federal documents.
- X. Protective Actions - An action taken to avoid or reduce a projected dose of radiation (sometimes referred to as protective measures). These may include, but are not limited to:
 1. Sheltering - Action taken by the public to remain indoors, away from doors and windows, during and following the passage of the radioactive plume.
 2. General Evacuation - The evacuation of the entire population within a specified geographic area.
 3. Selective Evacuation - The evacuation of specific elements of the population, such as pregnant women, pre-school children or the infirm.
- Y. Public Information Statements - Public announcements made by PEMA or county officials via newspaper, radio or television to explain government actions being taken to protect the public in event of any public emergency. The purpose of the announcement is to provide accurate information, prevent panic and counteract misinformation and rumors. Reference to the emergency situation itself will be made only in the context of the reasons for governmental actions, excluding detailed information about the situation at the plant site.
- Z. Radio Amateur Civil Emergency Service (RACES) - Licensed volunteer radio amateur communications personnel.
- AA. Radio Emergency Associated Citizens Team (REACT) - An organized group of citizen's band radio operators that monitor Channel 9.
- BB. Radiological Emergency Response Plans (RERP) - Detailed incident response plans developed by the State and its agencies, county and municipal emergency management agencies, school districts, and special facilities in coordination with PEMA and the fixed nuclear facility, in accordance with Act 323 of 1978, (P.L. 1332).
- CC. Reception Center - A site outside the plume exposure pathway EPZ through which evacuees can pass to obtain information and directions to mass care centers. A reception center may be located in either a risk or a support county.
- DD. Risk Counties - Those counties partially or wholly within the plume exposure pathway EPZ of a fixed nuclear facility.

- EE. Risk School District/Building - A school district/building located partially or wholly within the plume exposure pathway EPZ of a fixed nuclear facility, including parochial and private schools served by public school transportation.
- FF. Route Alerting - A supplement to the public alert system implemented in the event of public alert system failure or to alert persons or areas which may not be within the sound of the public alert system. Route alerting is accomplished by route alert teams travelling in vehicles along assigned routes delivering the following message: "There is an emergency at the Limerick Generating Station; please tune to your Emergency Broadcast Station WCAU, AM 1210, or WCOJ, AM 1420."
- GG. Sheltering - Action by the public to take advantage of the protection against radiation exposure by remaining indoors, away from doors and windows, during and following the passage of the radioactive plume.
- HH. Standby Status - A term used to describe the level of readiness of emergency personnel. It indicates that personnel have been notified and are available to respond or report to duty stations if called upon.
- II. State of Disaster Emergency - A state of Disaster Emergency exists whenever the Governor issues a Declaration of Disaster Emergency. A disaster emergency can be declared by executive order or proclamation of the Governor at any time upon finding that a disaster has occurred or that the occurrence or the threat of a disaster is imminent. The state of disaster emergency continues until the Governor finds that the threat or danger has passed and terminates it by executive order or proclamation; however, no state of disaster emergency may continue for longer than 90 days unless renewed by the Governor. (A "State of Disaster Emergency" is not to be confused with the incident classifications "Site Emergency" and "General Emergency.")
- JJ. Support County - A county or counties located outside the plume exposure pathway EPZ of a fixed nuclear facility that will provide support, by agreement, to a risk county in the event of an incident. Depending on size and location, a county may be both a risk and support county.
- KK. Thyroid Blocking Drugs - A medication (generally Potassium Iodide) which blocks the absorption of radioactive Iodine-131 by the thyroid gland, and which will be issued to emergency workers required to stay within the Plume Exposure Pathway EPZ.
- LL. Traffic Control Points (TCP) - Police traffic control posts established at critical road junctions for the purpose of controlling or limiting traffic. TCPs are used to control evacuation movement when an emergency situation requires it.

- MM. Transportation Resources/Providers - Transportation for evacuating schools, the handicapped and special facilities; generally includes ambulances, buses, trucks and helicopters.
- NN. Transportation Staging Area - A location from which transportation resources are coordinated and/or dispatched.
- OO. Unmet Needs - Capabilities and/or resources required for emergency operations, but which are neither available nor provided for at the respective levels of government.

IV. PURPOSE

The overall purpose of this Radiological Emergency Response Plan is to establish policies and procedures for emergency preparedness and response to incidents at the fixed nuclear facility at the Limerick Generating Station. In establishing such policies and procedures the following have been addressed:

- A. Defining those areas of Chester County that are within the Limerick plume exposure pathway EPZ.
- B. Identifying authority and assignment of responsibilities for planning, exercises and drills, and response.
- C. Identifying the relationship between Chester County and the Limerick Generating Station, Federal and State agencies, and municipalities, and the development of lines of communication among them.
- D. Developing a coordinated system for alerting and informing the general public.
- E. Coordinating response plans with other risk and support counties and the Commonwealth.
- F. Identifying support resources within Chester County.
- G. Identifying unmet needs of Chester County and the risk municipalities of Chester County, and notifying PEMA of unmet needs.

V. ASSUMPTIONS

- A. The existence of the fixed nuclear facility at the Limerick Generating Station provides the potential for hazard to the citizens of that area of Chester County located within the plume exposure pathway EPZ.
- B. Protective actions to be taken by residents of the plume exposure pathway EPZ could include sheltering or evacuation.
- C. The amount of lead time available will affect the protective actions recommended.

- D. In event of an incident at the Limerick Generating Station, many of the residents of the plume exposure pathway EPZ will choose to evacuate spontaneously without official order or recommendation. Many will leave the plume exposure pathway EPZ by way of routes not designated as main evacuation routes.
- E. In event of an evacuation, at least 50% of the population at risk will relocate independently to private homes or hotel/motel facilities. For planning purposes, mass care resources will be identified for 50% of the risk population.
- F. In event of an evacuation, the primary means of transportation for the general public will be personal automobiles, averaging three persons per vehicle. Primary means of transportation for school children when school is in session will be school buses.
- G. Chester County's essential unmet needs will be met by State resources. Where possible, these needs will be identified in advance and appropriate responses planned.

VI. RESPONSIBILITIES

A. Chester County - General

The overall responsibility for decision-making within Chester County in the event of an incident at the Limerick Generating Station rests with the Chester County Commissioners; however, in Pennsylvania the authority to enforce an evacuation rests only with the Governor. The Chester County Commissioners can issue an evacuation advisory.

The Chester County Commissioners have appointed a Director of Emergency Services to be responsible for the development and implementation of emergency response plans, as well as all emergency situations within the county. The Director is responsible for ensuring that this plan is reasonable and consistent with the Commonwealth's Disaster Operation Plan (Annex E) and is consistent with and supported by municipal Radiological Emergency Response Plans for each Chester County municipality located within the plume exposure pathway EPZ. The Director reviews and updates this plan on an annual basis and certifies the review to PEMA.

B. Specific roles and responsibilities of Chester County in this Radiological Emergency Response Plan include:

1. Developing and updating a county radiological emergency response plan, specific to the Limerick Generating Station, in consonance with the Commonwealth of Pennsylvania Disaster Operations Plan, (Annex E).
2. Coordinating plan development and implementation for Chester County municipalities located within the Limerick plume exposure pathway EPZ.

3. Identifying Chester County emergency organizations, their personnel resources and functional responsibilities, and providing assistance to them in the development of procedures in support of this plan.
4. Developing a system for rapidly alerting county and municipal government heads, key emergency management staff, emergency services, volunteer organizations, schools, health care facilities, business and industry, and ensuring that the alert/notification system is operable 24 hours per day and is consistent with the four emergency action levels outlined in Appendix 5.
5. In cooperation with PEMA and other state agencies, the developing and annual distribution of public information material concerning the area of the EPZ, evacuation routes and reception/mass care facilities, protective actions appropriate to radiological emergencies, special arrangements for the handicapped and transients, contact points for further information, and such other information as may be appropriate.
6. Preparing and maintaining emergency instructions and information concerning protective actions in event of a radiological incident and maintenance of procedures for: transmitting this information to the general public through the Emergency Broadcast System, notifying residents with special needs, and notifying transients.
7. Establishing and operating a Chester County rumor control center and coordinating its activities with those of the State and other risk counties.
8. Reviewing access control points, traffic control points, and major evacuation routes selected by PEMA, PaDOT and the Pennsylvania State Police.
9. Coordinating and assisting school districts, private schools, hospitals, nursing homes, special facilities, business and industry in the development of their respective Radiological Emergency Response Plans.
10. Assuring that municipalities identify and develop plans for assisting handicapped and homebound individuals in the event of an evacuation.
11. Coordinating the development of plans for evacuating/sheltering municipally operated jails located within the Limerick EPZ, and assistance to municipalities in the development of such plans for municipal jails or detention facilities.

12. With the assistance of the Southeastern Pennsylvania Chapter of the American Red Cross, establishing Mass Care Centers for evacuees in the support areas of Chester County.
13. Staffing of an Emergency Operations Center.
14. Establishing procedures for the dissemination of protective action recommendations received from the Pennsylvania Department of Agriculture, the Bureau of Radiation Protection and/or PEMA regarding livestock protection and agricultural dairy and food product control.
15. Establishing and maintaining a current listing of required personnel and equipment needs and an indication of the source with a current copy to PEMA.
16. Designating a central resource receiving point for Chester County, and developing plans for its operation during an emergency.
17. Conducting periodic drills and exercises of the Chester County Radiological Emergency Response Plan.
18. Preparing plans for the distribution of dosimetry, survey meters and KI to designated emergency workers.
19. Training radiological decontamination monitoring teams for mass care centers and decontamination stations for emergency workers within Chester County.
20. In cooperation with the Pennsylvania State Police and the Pennsylvania National Guard, and local police, providing security to areas where the public is taking shelter or has evacuated.
21. Preparing and implementing plans for a controlled reentry into an evacuated area.
22. Maintaining records and reports throughout each incident, and preparing post-incident reports and response critiques.
23. If possible, participating in offsite training programs provided or supported by the Philadelphia Electric Company.
24. Participating in the annual State/risk counties (PECo) news conference arranged by PEMA.
25. Reviewing the Philadelphia Electric Company Limerick Generating Station plans for evacuation and reception of on-site personnel for consistency with this Radiological Emergency Response Plan.

26. Arranging registration of evacuees at mass care centers within Chester County in cooperation with the American Red Cross.
27. Coordinating training in radiological emergency response for county and municipal personnel who will serve as emergency workers in a radiological emergency.

C. Chester County Staff Assignments

1. Chester County Director of Emergency Services or Designate
 - a. Acts as the Chief of Staff for the Chester County Commissioners, directs and coordinates the activities of all staff groups and emergency forces, as well as briefing County Commissioners of the situation throughout the County.
 - b. Receives, evaluates, and disseminates information for the Chester County Commissioners.
 - c. Coordinates municipal emergency operations in the event of an incident at the Limerick Generating Station.
 - d. Develops, maintains, and participates in plans and training programs for response to nuclear incidents according to State and Federal guidelines, and updates these plans and programs on an annual basis.
 - e. Develops and maintains all contracts and agreements necessary to provide adequate support for emergency operations.
2. EOC Operations Group
 - a. Oversees activation and coordinates operations of the EOC.
 - b. Assures the timely flow of information between the EOC and the County Communications Center.
3. Alerting - Communications Group Chief
 - a. Directs and coordinates the activities of the Chester County Communications Center staff, to include quarterly update of notification telephone numbers.
 - b. Ensures the receipt and dissemination of alert/notification information in accordance with this plan.
 - c. Maintains communications with the State EOC and PEMA Eastern Area Headquarters, all municipal EOCs within Chester County, key County governmental activities and field units, and all other risk, support and contiguous counties.

- d. Coordinates the use of ARES volunteers.
 - e. Coordinates with other County staff groups.
 - f. Provides up-to-date weather information to the EOC.
4. Chester County Fire/Rescue Group Chief
- a. Supplies information and advice on fire and rescue matters to the Director of Emergency Services.
 - b. Acts as liaison with all fire and rescue command officers throughout Chester County.
 - c. Coordinates disaster operations carried out by municipal fire and rescue organizations within Chester County.
 - d. Coordinates dispatch of ambulances with Medical/EMS Group.
 - e. Coordinates with other County staff groups.
5. Police Group Chief
- a. Supplies information and advice on law enforcement matters to the Director of Emergency Services.
 - b. Act as liaison with all municipal police staff groups and PSP throughout the County concerning law enforcement, traffic control and access control.
 - c. Coordinates disaster operations carried out by municipal police organizations within Chester County.
 - d. Coordinates with other Chester County staff groups.
 - e. Coordinates fire police.
6. Medical/EMS Group Chief
- a. Supplies information and advice on medical and health matters to the Director of Emergency Services.
 - b. Coordinates with municipal and institutional medical and health activities throughout the County.
 - c. Provides general coordination of disaster operations carried out by health care organizations and ambulance units within the County to include the evacuation of patients from medical facilities if required.

- d. Coordinates with the Transportation Officer in the provision of transportation support.
 - e. Coordinates with other staff groups.
 - f. Coordinates ambulance requirements with the Fire/Rescue Group.
7. Mass Care Group Chief
- a. Supplies information and advice on mass care matters to the Director of Emergency Services.
 - b. Coordinates with the Red Cross representatives responsible for mass care activities within the county and in support counties.
 - c. Coordinates mass care center and reception center activation and operations within the County.
 - d. Monitors all mass care agreements.
 - e. Coordinates with other county staff groups.
8. Public Works/Industrial Liaison Group Chief
- a. Supplies information and advice on public works and engineering matters to the Director of Emergency Services.
 - b. Coordinates with municipal public works and engineering staff groups throughout the County.
 - c. Provides general coordination of municipal disaster public works and engineering operations carried out within the County.
 - d. Manages additional resource requirements and coordinates distribution of incoming supplies and equipment through the Central Resource Receiving Point.
 - e. Acts as liaison with industry and utilities within the plume exposure pathway EPZ.
 - f. Coordinates with other County staff groups.
 - g. Coordinate with the PA Department of Transportation and the Pennsylvania National Guard Liaison Officer.
9. Transportation Group Chief
- a. Supplies information and advice on transportation matters to the Director of Emergency Services.

- b. Coordinates overall transportation support with school and key transportation industry representatives throughout the County.
 - c. Provides general coordination of transportation resources for disaster operations involving inter-municipality transport of people and materials.
 - d. Coordinates operations of the Transportation Staging Area.
 - e. Coordinates with other County staff groups.
10. Public Information Officer
- a. Establishes and staffs the Chester County Media Center located in Room 322 of the Hazlett Building.
 - b. Supplies information and advice on public information matters.
 - c. Acts as liaison with news media organizations.
 - d. Prepares and releases emergency information and instructions, as directed by the Director of Emergency Services and the County Commissioners.
 - e. Insures notification of Transient locations within the EPZ.
 - f. Initiates and supervises operation of the rumor control operation.
 - g. Initiates, under the direction of the DES Director, appropriate EBS announcements and monitors EBS stations to verify accuracy.
 - h. Prepares and distributes public information materials prior to an emergency.
 - i. Coordinates with other county staff groups.
11. Radiological/Decontamination Group Chief
- a. Supplies information and advice on radiological matters to the Director of Emergency Services.
 - b. Maintains radiation reports received from PEMA.
 - c. Collects individual dosimetry records for forwarding to BRP.
 - d. Coordinates the distribution of dosimetry, survey meters and thyroid blocking drugs in accordance with this plan.

- e. Monitors radiation exposure of emergency workers.
 - f. Coordinates monitoring and decontamination activities at mass care centers and emergency worker decontamination stations.
 - g. Collects municipal and county emergency worker radiological records and transmits them to PEMA as required.
12. School Services Officer
- a. Supplies information and advice on school matters to the Director of Emergency Services.
 - b. Coordinates the provision of unmet needs as reported by individual school districts.
 - c. Assures 24-hour operation for the Chester County DES school district notification procedure.
 - d. Coordinates with the Transportation Group Chief in the provision of needed transportation resources.
 - e. Coordinates with other county staff groups.
13. Agricultural Liaison Officer
- a. Supplies information and advice on agriculture and food processing matters.
 - b. Prepares appropriate news releases for dissemination through the public information officer.
 - c. Coordinates with State Department of Agriculture.
 - d. In case of evacuation, certifies farmers who own livestock (including poultry) in the evacuated area as emergency workers.
 - e. Coordinates with county staff groups.
14. Municipal Liaison/Damage Assessment Group Chief
- a. Supplies information to municipal elected officials and Emergency Management Coordinators.
 - b. Serves as liaison between municipal elected officials and Emergency Management Coordinators and the EOC.
15. Commissioners' Staff
- a. Oversees EOC operations

- b. Acts as VIP Liaison
- c. Assists EOC/DES staff as necessary
- d. Provides Technical, administrative and other county government support as necessary.

D. Commonwealth of Pennsylvania

1. The Pennsylvania Emergency Management Agency (PEMA) is the lead agency in the State for coordinating the response to radiological incidents associated with fixed nuclear generating facilities.
2. The Bureau of Radiation Protection (BRP) within the Department of Environmental Resources provides technical assistance to PEMA in the event of an actual or potential radiological release.
3. Pennsylvania State Police
 - a. Provides liaison personnel to the County EOC.
 - b. Provides security and staffs traffic control points within their area of responsibility.
 - c. Develops an access control plan, coordinates the use of resources from the PSP, municipal police and National Guard to staff required ACPs, and activates the ACPs upon notification from PEMA.
4. Pennsylvania National Guard
 - a. Provides a liaison person to the Chester County EOC, upon request, for coordination of requests of National Guard assistance.
 - b. Provides assistance in the areas of traffic control, access control, security, or other assistance as requested by Chester County.
5. Pennsylvania Department of Agriculture
 - a. Develops plans and procedures for the protection of food production resources within the ingestion exposure pathway EPZ.
6. Pennsylvania Department of Transportation
 - a. Provides Liaison to the County EOC.

- b. Provides assistance in impediment removal and other areas as needed.

E. United States Government

1. The Nuclear Regulatory Commission (NRC) is responsible for oversight and regulation of all fixed nuclear facilities in the United States.
2. The NRC will provide technical assistance to the State and the Limerick Generating Station in event of an incident.
3. The Federal Emergency Management Agency (FEMA) will coordinate the support provided by all involved federal agencies.

F. Chester County Municipalities

1. Under the Pennsylvania Emergency Management Services Act of 1978, P.L. 1332, municipalities are responsible for the following:
 - a. Prepare and maintain a disaster emergency management plan capable of activation on a twenty-four hour basis.
 - b. Establish, equip and staff an emergency operations center.
 - c. Provide individual and organizational training programs.
 - d. Organize, prepare and coordinate all locally available manpower, materials, supplies, equipment, facilities and services necessary for disaster emergency readiness, response and recovery.
 - e. Adopt and implement precautionary measures to mitigate the anticipated effects of disaster.
 - f. Execute and enforce such rules and orders as the Pennsylvania Emergency Management Agency will adopt and promulgate under the authority of the Act.
 - g. Cooperate and coordinate with any public and private agency or entity in achieving any purpose of the Act.
 - h. Provide prompt and accurate information regarding local disaster emergencies to appropriate Commonwealth and local officials and agencies and the general public.
 - i. Appoint a local Emergency Management Coordinator.
2. Specific roles and responsibilities of municipalities in regard to this plan include:

- a. Developing a municipal Radiological Emergency Response Plan that is consistent with the Chester County Plan.
- b. Providing for fire and rescue protection to include protection if the area has been evacuated.
- c. Assuring that all municipal emergency personnel, including volunteers, have received training for radiological emergency responses.
- d. Arranging for the orderly reentry of evacuees within the municipality.
- e. Maintaining a listing of all non-ambulatory residents and other residents who will require special assistance in the event of evacuation.
- f. Determining all unmet needs and report of same to the Chester County EOC.
- g. Planning of supplemental support to the public alert system to ensure 100% notification of the population of the municipality.
- h. Assuring that all Traffic Control Points/Access Control Points within the municipality are staffed.
- i. Designating municipal pickup points and provisions for adequate transportation resources to municipal residents in need of transportation in event of an evacuation.
- j. Developing and maintaining plans for continued government operations in the event of evacuation.
- k. Distributing dosimetry and thyroid blocking drugs to emergency workers.
- l. Providing for municipal security, including security of the area if evacuation or sheltering has taken place.

G. American Red Cross

1. Develops, with the assistance of the Chester County Department of Emergency Services and support counties, agreements for the use of designated facilities as mass care centers in the event of any emergency.
2. Operates and provides services at mass care centers.

VII. SITUATION

The Limerick Generating Station is a fixed nuclear generating facility operated by the Philadelphia Electric Company in Limerick Township, Montgomery County. An incident at the Limerick Generating Station could result in a radiological release affecting the area surrounding the facility.

Portions of Chester County are included within the Plume Exposure Pathway EPZ of the Limerick Generating Station. An incident at Limerick may require some type of protective response. Protective responses may include sheltering, evacuation, the administration of thyroid blocking drugs to emergency workers, or some combination thereof.

Protective measures may also be required for the protection of agricultural, food and dairy products within the ingestion exposure pathway EPZ.

Elected officials at each level of government are charged in the Pennsylvania Emergency Management Services Act (P.L. 1332) with the responsibility of protecting the health, safety and well-being of persons within their jurisdiction.

Municipalities located (in whole or in part) within the Limerick Plume Exposure Pathway EPZ in Chester County include:

	<u>Municipality</u>	<u>Risk Population</u>
1.	Charlestown Township	2770
2.	East Coventry Township	4085
3.	East Nantmeal Township	1222
4.	East Pikeland Township	4410
5.	East Vincent Township	4739
6.	North Coventry Township	7164
7.	Phoenixville Borough	14165
8.	Schuylkill Township	5993
9.	South Coventry Township	1556
10.	Spring City Borough	3389
11.	Upper Uwchlan Township	1103
12.	Uwchlan Township	250
13.	Warwick Township	2115
14.	West Pikeland Township	1536
15.	West Vincent Township	1992

The total resident population of the Chester County section of the Plume Exposure Pathway EPZ is approximately 56,489.

VIII. CONCEPT OF OPERATIONS

A. Governing Principle

The governing principle of this plan is that the persons and governments within the Plume Exposure Pathway EPZ of the Limerick Generating Station will take protective responses in the event of a

nuclear incident. Depending upon the seriousness of the incident, such responses could include sheltering or evacuation. In event of evacuation, a system of reception and mass care centers will be established. An assumption of this plan is that 50% of the population to be evacuated will relocate to private homes and hotels/motels. Thus, the requirement for mass care will be designation of mass care facilities for 50% of the Chester County EPZ population, or approximately 28,245 persons.

B. Notification

Notification and alerting procedures concerning incidents at the Limerick Generating Station are detailed in Annex C.

C. Emergency Response Actions

In the event of an incident at the Limerick Generating Station, Chester County will base its response actions on the specific incident classifications, as outlined in Appendix 5.

D. Chester County Department of Emergency Services/EOC

1. Unusual Event

- a. Officially log message.
- b. Dispatch back-up emergency fire or medical services if requested by Montgomery County.
- c. Notify Chester County Director of Emergency Services and DES Duty Officer.

2. Alert

- a. Complete all appropriate actions listed under Unusual Event.
- b. The Chester County Director of Emergency Services or his alternate notifies the Chester County Commissioners.
- c. Chester County notifies municipalities in the plume exposure pathway EPZ (emergency management coordinators, municipal police departments, as well as fire and ambulance services).
- d. Notify Chester County EOC personnel and request selected individuals to report to the County EOC. Individuals to be selected by the Chester County Director of Emergency Services.
- e. Establish EOC Security.
- f. Contact designated EBS station(s) and place on standby status.

- g. Notify Chester County school districts, private/parochial schools, and college within the plume exposure pathway EPZ.
- h. Dispatch ARES operators assigned to municipal EOC's and conduct radio checks upon arrival at assigned locations. Place remaining ARES operators on standby.
- i. Test communications links with PEMA Eastern Area and other risk counties.
- j. Notify health care and other special facilities, including major industries, located within the plume exposure pathway EPZ.
- k. Dispatch vehicles to pick up control TLD's where dosimetry has been distributed in advance.
- l. Notify transportation systems (i.e., bus, rail, air, etc.) which operate within the EPZ of the situation.
- m. Notify transportation staging area facilities and Four Wheel Drive Club.
- n. Notify the Southeastern Chapter of the American Red Cross.
- o. In the event the public alert system is activated, PEMA will coordinate the time selected for activating. When time has been determined:
 - (1) Announce the designated public alert system activation time on all County communications frequencies.
 - (2) Activate the public alert system at determined time.
 - (3) Dispatch route alert teams in areas of public alert system failure.
 - (4) Initiate appropriate EBS announcement(s).
 - (5) Maintain public alert system personnel and EBS station(s) on standby status for continuing system activation.

3. Site Emergency

- a. Complete all appropriate actions listed under Unusual Event and Alert.
- b. Mobilize all Chester County EOC staff.
- c. Notify municipalities to mobilize full municipal EOC staff.

- d. Notify all Chester County fire, police and emergency medical services, and mobilize fire, police and emergency medical services serving areas within the plume exposure pathway EPZ.
- e. Request mobilization of the Southeastern Pennsylvania Chapter of the American Red Cross staff.
- f. Notify reception centers, primary mass care centers, central resource receiving points, transportation staging area, and host schools within Chester County of the possible need of their facilities.
- g. Mobilize reception center staff to assigned locations.
- h. Mobilize decontamination monitoring teams assigned to primary mass care centers and decontamination stations.
- i. Notify risk fire stations to mobilize and assign route alerting teams.
- j. Establish the Media Center in Room 322 of the Hazlett Building. Prepare to issue public information statements concerning emergency status and county response.
- k. Notify transportation, roadway clearance and fuel resources of Site Emergency, request mobilization of buses and drivers needed for evacuation and pick up of control TLD's where dosimetry has been distributed in advance.
- l. Mobilize remaining ARES units and assign where needed.
- m. Initiate distribution of dosimetry, survey meters and KI to emergency workers, and instruct municipalities to do likewise.
- n. Notify EBS station(s) of incident classification and maintain on standby status.
- o. Notify risk school districts, Archdiocese of Philadelphia, private schools and college of the Site Emergency.
- p. Notify health care facilities and special facilities of the emergency class.
- q. Notify industry and utilities which operate within the plume exposure pathway EPZ of the situation.
- r. Prepare to activate traffic and access control points, and activate as necessary.

- s. In the event of a change of the incident classification, notify all parties previously contacted and implement appropriate actions.
- t. In the event the public alert system is activated, PEMA will coordinate the time selected for activating. When time has been determined:
 - (1) Announce the designated public alert system activation time on all County communications frequencies.
 - (2) Activate the public alert system at determined time.
 - (3) Dispatch route alert teams in areas of public alert system failure.
 - (4) Initiate appropriate EBS announcement(s).
 - (5) Maintain public alert system personnel and EBS station(s) on standby status for continuing system activation.

4. General Emergency

- a. Complete all appropriate actions listed under Unusual Event, Alert and Site Emergency.
- b. Notify municipalities, hospitals, nursing homes, special facilities, schools, colleges and major industries of the incident classification.
- c. Notify all County fire, police, and emergency medical services of the incident classification.
- d. Activate central resource receiving point and transportation staging areas.
- e. Through PEMA, coordinate the time for activating the public alerting system.
- f. Announce the declaration of a General Emergency and designated public alert system activation time on all county communications frequencies including ARES.
- g. In coordination with the Pennsylvania State Police liaison, dispatch traffic control and access control personnel to their designated duty stations.
- h. Activate the public alerting system and initiate EBS announcements upon notification by PEMA.

- i. Immediately announce on all county communications frequencies and ARES that the public alert system has been activated.
- j. Conduct route alerting, as necessary.
- k. Activate reception centers and primary mass care centers.
- l. Await protective action guidance from PEMA. Upon receipt of a protective action recommendation notify risk, municipal EOC's, fire, police, ambulance services, health care facilities, schools, major industries and institutions to implement appropriate procedures. Protective actions will fall under these categories: sheltering, selective evacuation and general evacuation.
 - (1) In the event of a SHELTERING recommendation, conduct all actions above and dispatch access control personnel.
 - (2) In the event of a SELECTIVE EVACUATION recommendation, conduct all actions above and monitor transportation and mass care needs.
 - (3) In the event of a GENERAL EVACUATION recommendation, conduct all actions above and:
 - (a) Dispatch access control and traffic control personnel.
 - (b) Activate municipal transportation pick up points.
 - (c) Dispatch ambulances needed for evacuation of homebound invalids.
 - (d) Upon completion of duties, relocate risk emergency forces to pre-designated locations outside the plume EPZ.
- m. Activate decontamination monitoring stations.
- n. Relay orders for the administration of KI to emergency workers, if received from the Secretary of the PA Department of Health through emergency management channels.
- o. In the event of a change in the incident classification notify all parties previously contacted and implement appropriate actions.

IX. DISTRIBUTION

A. Control

A distribution list of all copies of this Radiological Emergency Response Plan is maintained by the Chester County Department of Emergency Services. This list includes the location of each copy and the individual or organization to whom it was sent.

B. Revisions

As revisions are made, change pages will be provided to all individuals and agencies listed as holding copies. It is the responsibility of the copy holder to keep individual copies current.

C. Availability

Requests for copies should be filed with the Director of the Chester County Department of Emergency Services. While quantities are limited, copies can be made available upon specific request and justification. As copies are distributed, the name and address of the recipient will be added to the distribution list.

D. Distribution

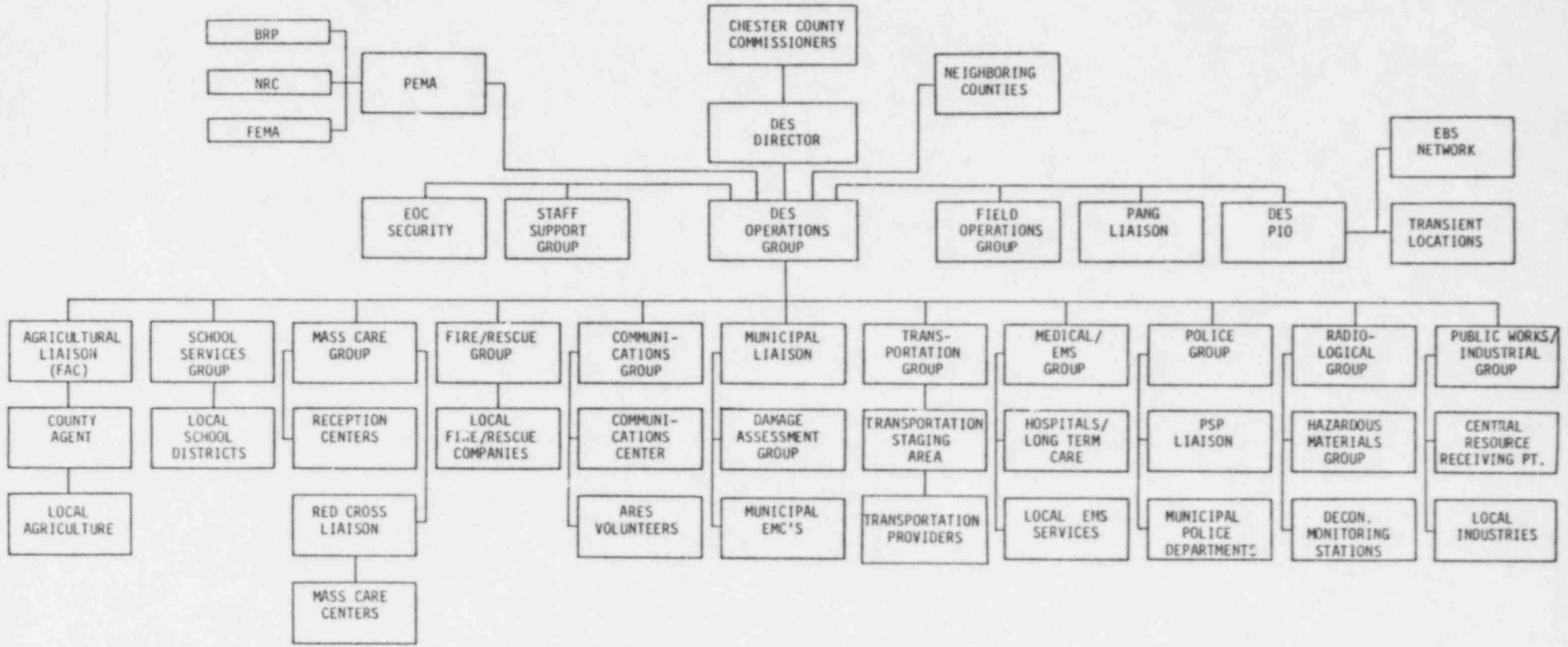
Initial distribution of the Chester County Radiological Emergency Response Plan is as follows:

1. Chester County Commissioners (5)
2. Federal Emergency Management Agency, Region III (through PEMA) (2)
3. Pennsylvania Emergency Management Agency, Headquarters (2)
4. Pennsylvania Emergency Management Agency, Eastern Area (1)
5. Chester County municipalities located within the Plume Exposure Pathway EPZ (15)
6. Limerick Generating Station (2)
7. All other risk and support counties to the Limerick Generating Station (4)
8. Chester County Department of Emergency Services staff (7)
9. Chester County Communications Center (2)
10. Downingtown Area, Great Valley, Owen J. Roberts, and Phoenixville Area School Districts (4)
11. Chester County Public Libraries, Chester County Law Library, and municipal libraries of those municipalities located within the plume exposure pathway EPZ (10)

12. Chester County Risk Hospital and Nursing Homes (4)

X. APPENDICES

- Appendix 1: Chester County Emergency Operations Center Organization Chart
- Appendix 2: Primary and Support Responsibilities Chart
- Appendix 3: Interrelationships of Organizations
- Appendix 4: Position Responsibilities - Chester County EOC
- Appendix 5: Emergency Action Levels



1-1

APPENDIX 2

PRIMARY AND SUPPORT RESPONSIBILITIES CHART

CHESTER COUNTY

Primary - P
Support - S

	County Commissioners	Operations Group	Police Group	Fire and Rescue Group	Medical/EMS Group	Communication Group	Transportation Group	Public Works/Industrial Relations Group	Public Information Officer	Mass Care Group	Radiological Group	County Agricultural Agent	Red Cross	School Services Officer	Municipal Officials
Direction & Control	P	P	S	S	S	S	S	S	S	S	S	S	-	S	P
Communications	-	S	S	S	-	P	-	-	S	-	-	-	-	-	S
Alert/Notification	-	S	S	S	-	P	-	-	S	-	-	-	-	-	S
Public Information	P	P	-	-	S	S	-	-	P	S	S	S	S	-	S
Fire and Rescue	-	S	S	P	S	S	-	-	S	-	S	-	-	-	S
Police Services	-	S	P	S	-	S	-	-	S	S	S	-	-	-	S
Medical Support	-	S	S	S	P	S	S	S	S	S	S	-	S	-	S
Military Support	P	P	S	S	S	S	S	S	S	-	S	-	-	-	S
Transportation	-	S	S	-	S	S	P	S	S	S	-	-	-	S	S
Evacuation	P	P	S	S	S	S	P	S	S	S	S	S	S	S	S
Traffic Control	-	S	P	S	-	S	S	S	S	-	-	-	-	S	S
Mass Care	-	S	S	S	S	S	S	S	S	P	S	-	P	S	-
Radiological Exposure Control	-	S	-	S	S	S	-	-	S	S	P	S	-	-	S
School Services	-	S	-	-	-	S	S	-	S	-	-	-	S	P	S
Agriculture	-	S	S	-	-	S	-	-	S	-	S	P	-	-	-
Reentry	P	P	S	S	S	S	S	S	S	S	S	S	S	S	S
Resource Rqmts.	S	S	-	-	-	S	S	P	-	S	S	-	-	-	S
Training	-	P	S	S	S	S	-	-	S	S	S	-	S	S	S
Exercise & Drills	-	P	S	S	S	S	S	S	S	S	S	S	S	S	S
Agreements	P	P	S	S	S	-	S	S	S	S	-	-	S	S	S
Supporting Plans and Imp. Procedures	-	S	-	-	S	-	-	-	-	-	-	S	S	S	P
Municipal Plans	-	S	-	-	-	-	-	-	-	-	-	-	-	-	P
ops	-	P	S	S	S	-	-	-	-	-	-	-	-	-	S
Industrial Liaison	S	S	-	-	-	S	-	P	-	-	-	-	-	-	S

APPENDIX 3

INTERRELATIONSHIPS OF ORGANIZATIONS

- I. Federal Emergency Management Agency (FEMA) - Coordinates planning and response to incidents by Federal Agencies and Departments. Supplies training, guidance and resources to PEMA.
- II. Pennsylvania Emergency Management Agency (PEMA) - PEMA is the lead State Agency. Coordinates planning and response to incidents by State Agencies and Departments. Supplies training, guidance and resources to county emergency management agencies. Coordinates responses involving multiple counties.
- III. Chester County Department of Emergency Services - Coordinates planning and response to incidents by County Agencies and Departments. Supplies training, guidance, resources and assistance to municipal emergency management agencies. Coordinates responses involving multiple municipalities in Chester County.
- IV. Municipal Emergency Management Agencies - Plan for and respond to incidents affecting the municipality utilizing municipal resources.
- V. Southeastern Chapter American Red Cross - Coordinates mass care operations per agreement between the chapter and Chester County Department of Emergency Services.
- VI. Philadelphia Electric Company - Coordinates on-site emergency response planning with risk counties. Provides public alerting system. Provides communications to risk counties and others. Advises NRC and PEMA and risk counties of emergency situation.

APPENDIX 4

POSITION RESPONSIBILITIES - CHESTER COUNTY EOC

<u>POSITION</u>	<u>RESPONSIBILITIES</u>
County Commissioners	Assume overall responsibility for the emergency response.
Commissioners' Staff	Maintains liaison with Commissioners; Assures continuity of county government technical and administrative resources.
County Director of Emergency Services	Plans, responds to incidents, organizes training programs and coordinates exercises.
Operations Group Chief	Assists County Director.
Public Information Officer	Implements public information program and news releases.
Secretaries	Functions as receptionist and telephone operator.
Mass Care Group Chief	Directs reception and mass care center operations.
Police Group Chief	Provides security and traffic control.
Fire/Rescue Group Chief	Assumes responsibility for Fire extinguishment and assists in warning/rescue/route alerting.
Medical/EMS Group Chief	Plans/implements medical response.
Transportation Group Chief	Coordinates Transportation.
Communications Group Chief	Assumes responsibility for Communications and Warning.
ARES	Provides amateur radio communications during emergency operations.
Radiological Officer	Coordinates personnel and public radiological monitoring and

- Public Works/Industrial Liaison
Group Chief decontamination.
Coordinates resource requirements.
Coordinates damage assessment and
serves as industrial liaison.
- Liaison Agencies Representatives Coordinates activities.
- Hazardous Materials Group Chief Supports Radiological Group.
- County Agent Certifies farmers as emergency
workers; provides advice on agricul-
tural matters.
- School Services Officer Coordinates notification and resource
support for risk school districts.
- Damage Assessment/Municipal Liaison . . Coordinates with municipal emergency
management coordinators and local
elected officials in situation
analysis, unmet needs, and damage
assessment.

APPENDIX 5

USNRC EMERGENCY ACTION LEVELS

<u>Class</u>	<u>Licensee Actions</u>	<u>State and/or Local Off-Site Authority Actions</u>
<p>NOTIFICATION OF UNUSUAL EVENT</p> <p><u>Class Description</u></p> <p>Unusual events are in process or have occurred and indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring off-site response or monitoring are expected unless further degradation of safety system occurs.</p> <p><u>Purpose</u></p> <p>The purpose of off-site notification is to (1) assure that the first step in any response later found to be necessary has been carried out, (2) bring the operating staff to a state of readiness, and (3) provide systematic handling of unusual events information and decision-making.</p>	<ol style="list-style-type: none">1. Promptly inform State and/or local off-site authorities of nature of unusual condition as soon as discovered.2. Augment on-shift resources as needed.3. Assess and respond.4. Escalate to a more severe class, if appropriate. <p><u>or</u></p> <ol style="list-style-type: none">5. Close out with verbal summary to off-site authorities; followed by written summary within 24 hours.	<ol style="list-style-type: none">1. Provide fire or security assistance if requested.2. Escalate to a more severe class, if appropriate.3. Stand by until verbal closeout.

APPENDIX 5 CONT'D

EMERGENCY ACTION LEVELS

<u>Class</u>	<u>Licensee Actions</u>	<u>State and/or Local Off-Site Authority Actions</u>
<p>ALERT</p> <p><u>Class Description</u></p> <p>Events are in process or have occurred involving an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.</p> <p><u>Purpose</u></p> <p>The purpose of an off-site alert is to (1) assure that emergency personnel are readily available to respond if the situation becomes more serious or to perform confirmatory radiation monitoring if required, and (2) provide off-site authorities with current status information.</p>	<ol style="list-style-type: none">1. Promptly inform State and/or local authorities of alert status as soon as discovered.2. Augment resources and activate on-site Technical Support Center and on-site operational support center. Bring Emergency Operations Facility (EOF) and other key emergency personnel to3. Assess and respond.4. Dispatch on-site monitoring teams and associated communications.5. Provide periodic plant status updates to off-site authorities (at least every 15 minutes).6. Provide periodic meteorological assessments to off-site authorities and, if any releases are occurring, dose estimates for actual releases.7. Escalate to a more severe class, if appropriate.	<ol style="list-style-type: none">1. Provide fire or security assistance if requested.2. Augment resources and bring primary response centers and EBS to standby status.3. Alert to standby status key emergency personnel including monitoring teams and associated communications.4. Provide confirmatory off-site radiation monitoring and ingestion pathway dose projections if actual releases substantially exceed technical specification limits.5. Escalate to a more severe class, if appropriate.6. Maintain alert status until verbal closeout or reduction of emergency class.

APPENDIX 5 CONT'D

EMERGENCY ACTION LEVELS

Class

Licensee Actions

State and/or Local Off-Site
Authority Actions

ALERT (CONT'D.)

8. Close out or recommend reduction in emergency class by verbal summary to off-site authorities followed by written summary within 8 hours of closeout or class reduction.

APPENDIX 5 CONT'D

EMERGENCY ACTION LEVELS

<u>Class</u>	<u>Licensee Actions</u>	<u>State and/or Local Off-Site Authority Actions</u>
<p>SITE EMERGENCY</p> <p><u>Class Description</u></p> <p>Events are in process or have occurred involving actual or likely major failures of plant functions needed for protection of the public. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels except near the site boundary.</p> <p><u>Purpose</u></p> <p>The purpose of the site emergency declaration is to (1) assure that response centers are manned, (2) assure that monitoring teams are dispatched, (3) assure that personnel required for evacuation of near-site areas are at duty stations if situation becomes more serious, (4) provide consultation with off-site authorities, and (5) provide updates for the public through off-site authorities.</p>	<ol style="list-style-type: none">1. Promptly inform State and/or local off-site authorities of site emergency status and reason for emergency as soon as discovered.2. Augment resources by activating on-site Technical Support Center, on-site operational support center and near-site Emergency Operations Facility (EOF).3. Assess and respond.4. Dispatch on-site and off-site monitoring teams and associated communications.5. Dedicate an individual for plant status updates to off-site authorities and periodic press briefings (perhaps joint with off-site authorities).6. Make senior technical and management staff on-site available for consultation with NRC and State on a periodic basis.	<ol style="list-style-type: none">1. Provide any assistance requested.2. If sheltering near the site is desirable, activate public notification system.3. Provide public within a ten mile radius periodic updates on emergency status.4. Augment resources by activating primary response centers.5. Dispatch key emergency personnel including monitoring teams and associated communications.6. Alert to standby status, or mobilize as appropriate, other emergency personnel (e.g., those needed for evacuation) and dispatch personnel to near-site duty stations.7. Provide off-site monitoring results to licensee, DOE and others and jointly assess them.

APPENDIX 5 CONT'D

EMERGENCY ACTION LEVELS

<u>Class</u>	<u>Licensee Actions</u>	<u>State and/or Local Off-Site Authority Actions</u>
SITE EMERGENCY (CONT'D.)	<p>7. Provide meteorological and dose estimates to off-site authorities for actual releases via a dedicated individual or automated data transmission.</p> <p>8. Provide release and dose projections based on available plant condition information and foreseeable contingencies.</p> <p>9. Escalate to <u>general emergency</u> class, if appropriate.</p> <p style="text-align: center;"><u>or</u></p> <p>10. Close out or recommend reduction in emergency class by briefing off-site authorities at EOF and</p> <p style="padding-left: 40px;">by phone followed by written summary within 8 hours of closeout or class reduction.</p>	<p>8. <u>Continuously</u> assess information from licensee and off-site monitoring with regard to changes to protective actions already initiated for public and mobilizing evacuation resources, with licensee.</p> <p>9. Recommend placing milk animals within 2 miles on stored feed and assess need to extend distance.</p> <p>10. Provide press briefings, perhaps with licensee.</p> <p>11. Escalate to <u>general emergency</u> class, if appropriate.</p> <p>12. Maintain site area emergency status until closeout or reduction of emergency class.</p>

APPENDIX 5 CONT'D

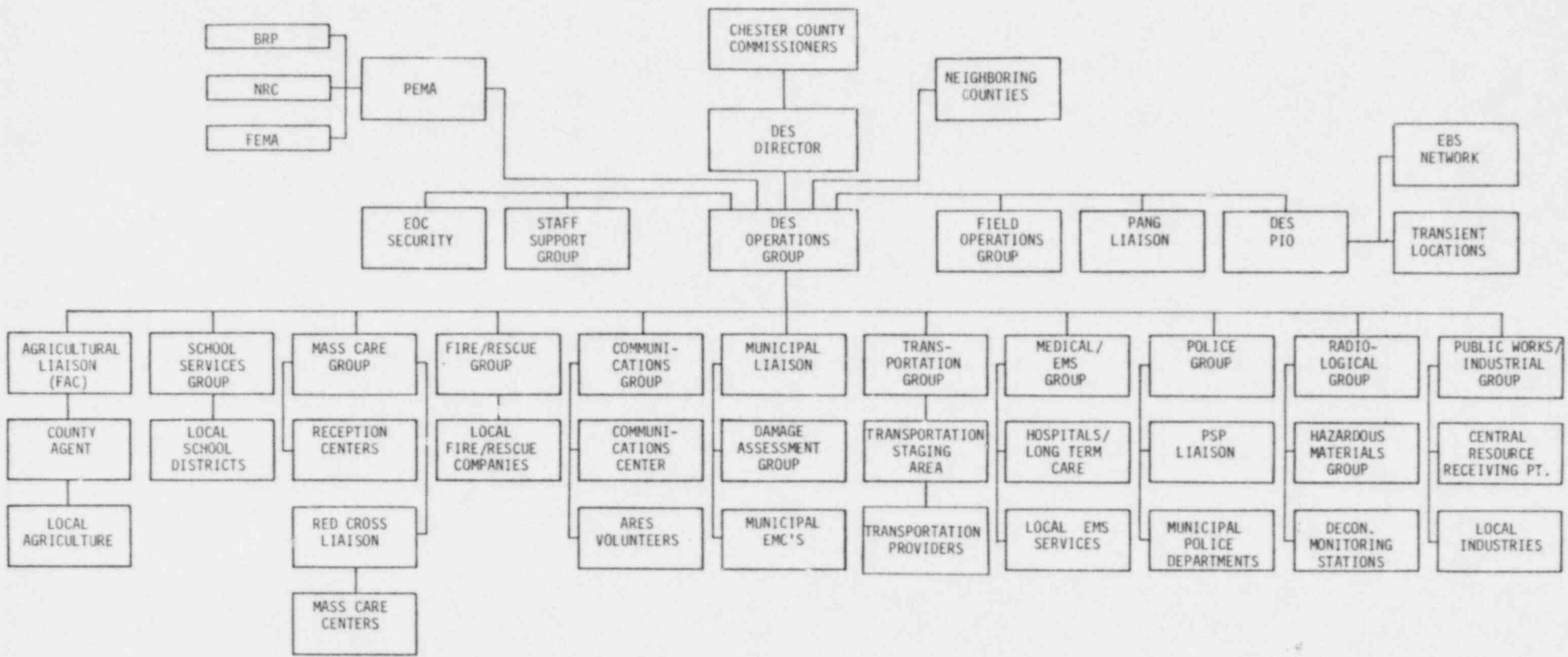
EMERGENCY ACTION LEVELS

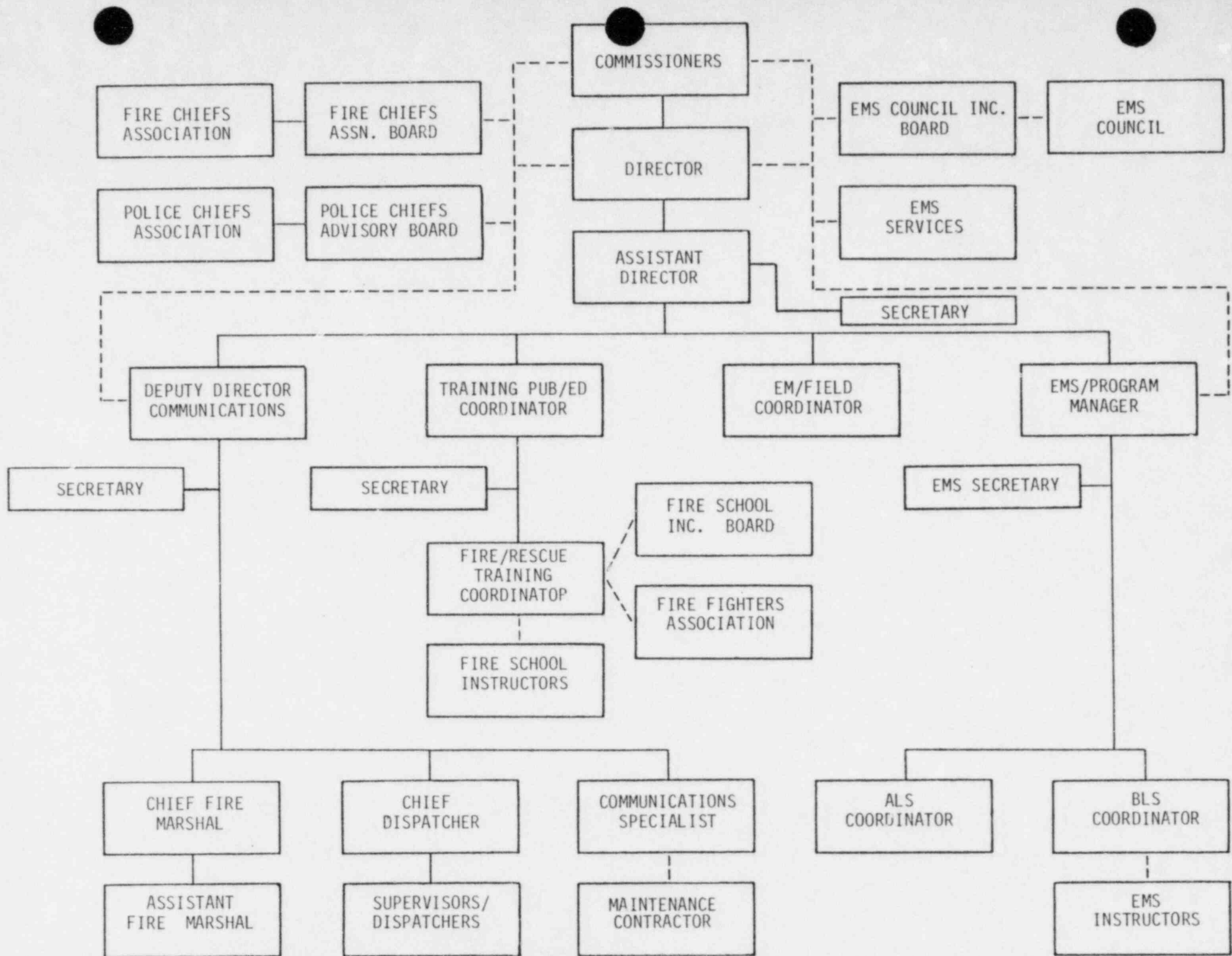
<u>Class</u>	<u>Licensee Actions</u>	<u>State and/or Local Off-Site Authority Actions</u>
<p>GENERAL EMERGENCY</p> <p><u>Class Description</u></p> <p>Events are in process or have occurred involving actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels off-site for more than the immediate site area.</p> <p><u>Purpose</u></p> <p>The purpose of the general emergency declaration is to (1) initiate pre-determined protective actions for the public, (2) provide continuous assessment of information from licensee and off-site organization measurements, (3) initiate additional measures as indicated by actual or potential releases, (4) provide consultation with off-site authorities and (5) provide updates for the public through off-site authorities.</p>	<ol style="list-style-type: none">1. Promptly inform State and local off-site authorities of general emergency status and reason for emergency as soon as discovered (parallel notification of State/local).2. Augment resources by activating on-site Technical Support Center, on-site operational support center and near-site Emergency Operations Facility (EOF).3. Assess and respond.4. Dispatch on-site and off-site monitoring teams and associated communications.5. Dedicate an individual for plant status updates to off-site authorities and periodic press briefings (perhaps joint with off-site authorities).6. Make senior technical and management staff on-site available for consultation with NRC and State on a periodic basis.	<ol style="list-style-type: none">1. Provide any assistance requested.2. Activate immediate public notification of emergency status and provide public periodic updates.3. Recommend sheltering. Consider advisability of evacuation (projected time available vs. estimated evacuation times).4. Augment resources by activating primary response centers.5. Dispatch key emergency personnel including monitoring teams and associated communications.6. Dispatch other emergency personnel to duty stations.7. Provide off-site monitoring results to licensee, DOE and others and jointly assess them.

APPENDIX 5 CONT'D

EMERGENCY ACTION LEVELS

<u>Class</u>	<u>Licensee Actions</u>	<u>State and/or Local Off-Site Authority Actions</u>
GENERAL EMERGENCY CONT'D.	<ol style="list-style-type: none">7. Provide meteorological and dose estimates to off-site authorities for actual releases via a dedicated individual or automated data transmission.8. Provide release and dose projected based on available plant condition information and foreseeable contingencies.9. Close out or recommend reduction of emergency class by briefing of off-site authorities at EOF and by phone followed by written summary within 8 hours of closeout or class reduction.	<ol style="list-style-type: none">8. Continuously assess information from licensee and off-site monitoring with regard to changes to protective actions already initiated for public and mobilizing evacuation resources.9. Recommend placing milk animals within 10 miles on stored feed and assess need to extend distance.10. Provide press briefings, perhaps with licensee.11. Maintain general emergency status until closeout or reduction of emergency class.





ANNEX A

DIRECTION AND CONTROL

I. PURPOSE

To identify the means for decision-making and coordination of Chester County's response to an incident at the Limerick Generating Station.

II. RESPONSIBILITY

- A. The Chester County Commissioners have the responsibility for the safety and protection of the public within Chester County. The Chester County Director of Emergency Services reports to the County Commissioners, as do all county departments and agencies.
- B. The Chester County Director of Emergency Services is administratively responsible for the operations of the Chester County Communications Center, which, with some exceptions, provides 24 hour central dispatch and communications for fire, police and emergency medical services in the County. In the cases where the county communications center does not dispatch specific services, telecommunication capability exists with those services.
- C. Overall direction and control of emergency operations will be coordinated from the Chester County Emergency Operations Center (EOC) located in the Hazlett Building, 14 E. Biddle St., West Chester, PA. The Center is organized, equipped and staffed, when augmented by mobilized emergency personnel, to maintain 24-hour operations. The Director, Chester County Department of Emergency Services is responsible for ensuring that the EOC is at all times capable of being operated on a protracted 24-hour basis.
- D. The Hazlett building is also the location of the Communications Center, which is responsible for staffing DES administrative telephones and the dedicated telephone line from the Limerick Generating Station as well as all county telecommunications networks and emergency telephones. Maintenance and operation of the automatic computer assisted telephone notification system (RECALL), and of the public alert siren system, is also a responsibility of the Communications Center pursuant to applicable procedures and direction. Upon EOC activation, the Communications Center functions as part of the EOC Communications Group.

III. CONCEPT OF OPERATION

- A. Notification of an incident at the Limerick Power Station will be received and recorded as outlined in Annexes B and C by the Communications Center.
- B. The Communications Center will notify the DES Duty Officer, who is a DES staff member assigned and available on a 24-hour basis, as well as the DES Director.
- C. The Communications Center will initiate notification of key operations personnel and EOC staff upon direction and by incident level specific procedures using the RECALL system and radio links. In the event of system failure, radio alerting and manual telephone based on lists updated quarterly will be utilized.
- D. The EOC will be activated selectively or completely depending on the incident level. As EOC Group Chiefs and Officers activate, the Communication Center will provide updated printouts/summaries and formal coordination will evolve to specific EOC staff in the EOC.
- E. All EOC staff groups and officers will function according to formal Implementing Procedures developed in support of this plan.
- F. County government technical, administrative, and resource support will be provided by DES staff and Commissioners staff.
- G. The Commissioners Staff personnel listed in Appendix 1 may not be present in the EOC on a regular basis, but are available to provide assistance and advice as necessary to DES/EOC staff. The Commissioners staff group includes the Manager of Finance, the Personnel Manager, the Purchasing Agent, the Director of Economic Development, and their respective staffs.
- H. The response to any disaster, whether a major flood or an incident at a Nuclear Power Plant, has certain common elements. One of the most important elements is the need for resources to facilitate proper response. These resources may be additional personnel, consumables, services or guidance. In addition, there may be a need to purchase materials or equipment or obtain these on loan. If the Commissioners declare a Disaster Emergency for the County the provisions of the Emergency Management Services Act allow the use of procedures which are outside normal channels. For example, purchases which normally require bids do not have to be bid in an emergency.
- I. Inter-relationship with state and federal governments, local municipalities, and other involved organizations have been defined in this plan and in applicable supporting Standard Operating Procedures and Implementing Procedures.

APPENDICES"

- Appendix A-1 Roster of EOC Personnel
- Appendix A-2 Municipal EOC's
- Appendix A-3 DES Table of Organization

APPENDIX A-1

ROSTER OF EOC PERSONNEL*

COUNTY COMMISSIONERS

Earl Baker
Robert Thompson
Patricia Baldwin

COMMISSIONERS' STAFF

Larry Boling
Wayne Rothermel

OPERATIONS

Tim Campbell
John McNamara
Tom Kopach
Mark Force

STAFF SUPPORT

Mark Rupsis
Jane Peirson
Ted Jacobs
Bob Applegarth

POLICE

Charles Zagorskie
Al Myers

FIRE/RESCUE SERVICES

Dispatcher
Leroy Klinger

MASS CARE/SHELTER

Thomas Burd
Peter Perry
Mahlon Fiscel
Wayne Stevenson

MEDICAL EMS

Dr. J. Maher
Dr. J. Mattelmen
Steven Webb
Mark Abbott

COMMUNICATIONS/ALERTING

M. J. Groce
Joseph LeBresco
DES Shift Supervisor
DES Shift Supervisor

TRANSPORTATION

George Fasic
Wayne Clapp

PUBLIC WORKS/INDUSTRIAL RELATIONS

R. Wilking
W. Betz
J. Abnett

MUNICIPAL LIAISON

Bob Box
H. Williams
DES Dispatcher
DES Dispatcher
DES Dispatcher Larry Greeley

DES

DES Dispatcher
DES Dispatcher

RADIOLOGICAL DEFENSE/
ENVIRONMENTAL HEALTH

Walt Leuchak
Dave Jackson
Sandy Bennett

*Telephone numbers are on file in the County EOC. They are reviewed and updated at least quarterly.

PUBLIC INFORMATION

Molly Morrison
Ken Stewart

FIELD OPERATIONS

William H. Winters
Rick Gilbert

HAZARDOUS MATERIALS

J. Ferrante
G. Turner

SCHOOL SERVICES

Harry Schreiner _____
Tom Tracy _____
Russ Morrow _____

ARES

As assigned by ARES Coordinator As assigned by ARES Coordinator

RUMOR CONTROL

DES Alternate Supervisor
DES Alternate Supervisor

PRESS CENTER

APPENDIX A-2*

MUNICIPAL EOC LOCATIONS

Charlestown Township	Great Valley School District Administration Building	933-1775
East Coventry Township . . .	Ridge Fire Company	495-6063
East Nantmeal Township . . .	Township Bldg., Route 401	458-5780
East Pikeland Township . . .	Kimberton Fire Company	933-9961
East Vincent Township . . .	Township Bldg., 55 Ridge Road	933-4424
North Coventry Township . .	Township Bldg., 873 S. Hanover Street	323-1694
Phoenixville	E. Wing, Phoenixville Hosp, 140 Nutt Road	933-3511
Schuylkill Township	Township Bldg., 801 Valley Park Road	933-5843
South Coventry Township . .	TBD	TBD
Spring City	Borough Bldg., Hall & Church Streets	948-3660
Upper Uwchlan Township . . .	Township Bldg.	458-8467
Uwchlan Township	Township Bldg., 715 N. Ship Road	363-9450
Warwick Township	Township Building, Warwick	286-5557
West Pikeland Township . . .	Pikeland Road/Route 113	827-9218
West Vincent Township . . .	Township Building, Birchrunville	827-7932

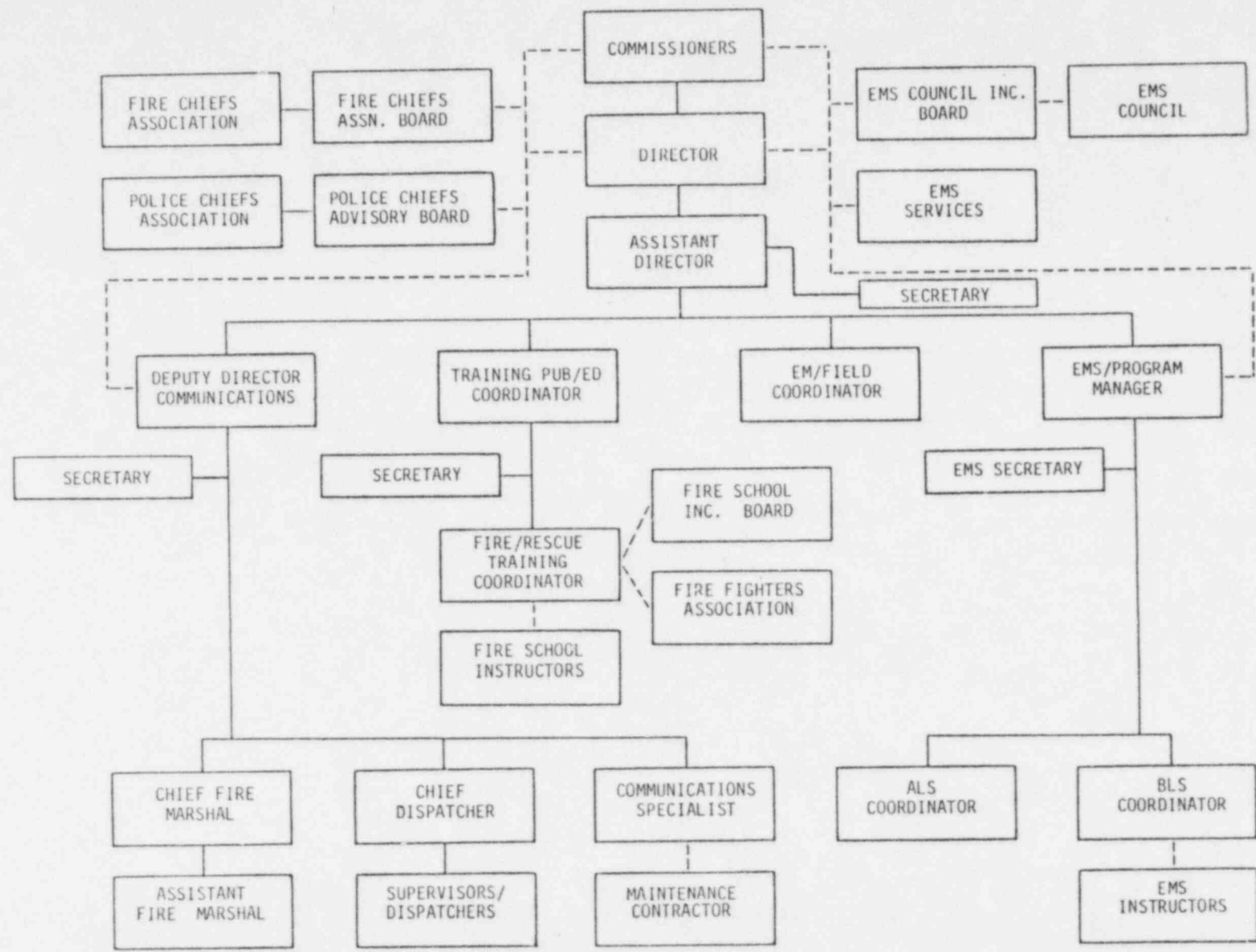
*Unpublished EOC numbers for all risk municipal EOC's are on file at the Chester County EOC.

MUNICIPAL EOC RELOCATION POINTS

Charlestown Township N/A
East Coventry Township . . . West Nantmeal Township
East Nantmeal Township . . . West Nantmeal Township
East Pikeland Township . . . Chester County Library
East Vincent Township . . . Chester County Library
North Coventry Township . . (Berks County)
Phoenixville Borough Chester County Library
Schuylkill Township N/A
South Coventry Township . . T.B.D.
Spring City Chester County Library
Upper Uwchlan Township . . . Uwchlan Township Building
Uwchlan Township N/A
Warwick Township West Nantmeal Township Building
West Pikeland Uwchlan Township Building
West Vincent Chester County Library

ADMINISTRATIVE ORGANIZATION - CHESTER COUNTY DEPARTMENT OF EMERGENCY SERVICES

APPENDIX A-3



A-3-1

Draft 10

ANNEX B
COMMUNICATIONS

I. PURPOSE

To identify the communications systems, facilities and procedures to be used in support of the Chester County response to an incident at the Limerick Generating Station.

II. RESPONSIBILITY

- A. The Director of the Chester County Department of Emergency Services has overall responsibility for the County Communications Center. The Deputy Director of Communications is responsible for the operation of the Communications Center and supervision of personnel on a day-to-day basis.
- B. In the event of a breakdown in communications between PEMA and the Limerick Generating Station, Montgomery County as the parent county will assume PEMA's role and serve as the source of information from Limerick to Chester County until such time as communications are re-established.

III. SITUATION

- A. The Chester County Communications Center will maintain communications with the following agencies and departments in the implementation of this radiological emergency response plan:
 - 1. Fire companies located within the Chester County portion of the plume exposure pathway EPZ, and all other Chester county fire and rescue companies.
 - 2. All Chester County ambulance services.
 - 3. Police departments located within the Chester County portion of the plume exposure pathway EPZ, and all other Chester County Police Departments.
 - 4. Designated Emergency Broadcast System (EBS) stations.
 - 5. Amateur Radio Emergency Services (ARES) Volunteers.
 - 6. Municipal governments located within the plume exposure pathway EPZ.
 - 7. Contiguous risk counties (Berks and Montgomery).
 - 8. Pennsylvania State Police, Embreeville and Avondale Stations

9. American Red Cross.
 10. Pennsylvania Emergency Management Agency (PEMA).
 11. The Limerick Generating Station.
 12. Valley Forge National Park
- B. Any required communications with other State or Federal agencies will be handled through PEMA.
- C. Because Chester County will not have a representative at the Limerick emergency operations facility (EOF), communications with that facility will be handled through PEMA except for specific notifications and recommendations.

IV. CONCEPT OF OPERATIONS

A. Chester County Communications Center Operations:

1. Unusual Event

- a. Log incoming message.
- b. Dispatch backup emergency services to the Limerick facility if requested by Montgomery County.
- c. Notify the Chester County DES Duty Officer and the DES Director.

2. Alert

- a. Same actions as for Unusual Event.
- b. Make notification as requested by DES Director or DES Duty Officer.
- c. Notify DES Deputy Director for Communication or his alternate and have him report to the EOC.
- d. Initiate RECALL notification sequence, if directed.
- e. Dispatch County vehicles to pick up Control TLD's from those to which they have been distributed.
- f. Dispatch ARES units to risk municipality EOC's.
- g. Test communications links with contiguous counties and other risk counties.
- h. Assist, as directed, in activating the public alert system where indicated.

3. Site Emergency

- a. Complete all appropriate actions listed for Unusual Event and Alert.
- b. Mobilize additional communications center staff as needed to maintain coverage.
- c. Mobilize additional ARES units and assign as directed.

4. General Emergency

- a. Complete all appropriate actions listed for Site Emergency.
- b. Maintain communications with emergency workers as directed.

B. Testing

The following is a schedule for testing communications circuits:

1. County fire, police, ambulance - tested daily by normal public safety use.
2. ARES - tested weekly.
3. Teletype - tested daily.
4. Telephones - tested daily.

V. APPENDICES

- Appendix 1: Chester County Priority Call List
- Appendix 2: Chester County Communications System
- Appendix 3: Chester County ARES and Four-Wheel Drive Resources and Assignments

APPENDIX 1

ANNEX B

CHESTER COUNTY DEPARTMENT OF EMERGENCY SERVICES
PRIORITY NOTIFICATION CALL LIST

(These numbers are verified and corrected quarterly)

UNUSUAL EVENT

<u>Priority</u>	<u>Name</u>	<u>Title</u>	<u>Home**</u>	<u>Work</u>
1	*	DES Duty Officer		
2	Tim Campbell	Director		431-6160
3	John McNamara	Assistant Director		431-6160
4	Jay Groce	Deputy Director		431-6160

(The highest priority person contacted will direct additional notifications as necessary.)

*Assigned on a weekly rotating schedule maintained in Communication Center.

OTHER INCIDENT CLASSIFICATIONS -- (Alert, Site Emergency and General Emergency)

<u>Priority</u>	<u>Name</u>	<u>Title</u>	<u>Home**</u>	<u>Work</u>
1	Tim Campbell	Director DES		431-6160
2	Robert J. Thompson	Chairman, County Commissioners		431-6100
3	Earl Baker	County Commissioner		431-6100
4	Patricia Baldwin	County Commissioner		431-6100
5	John McNamara	DES Assistant Director		431-6160
6	Jay Groce	DES Deputy Director		431-6160
7	Joe LeBresco	DES Chief Dispatcher		431-6160
8	Molly Morrison	County Public Information Officer		431-6100
9	Ken Stewart	DES PIO		735-4050
10	Mark Force	DES Staff		431-6160
11	Tom Kopach	DES/EMS Staff		431-6250

**On file at the County EOC.

APPENDIX 2

ANNEX B

CHESTER COUNTY EMERGENCY COMMUNICATIONS SYSTEMS

1. Police Communications Network

The County maintains direct radio communications for forty-three municipal police departments, and direct telephone links to the State Police barracks which serve additional municipalities.

2. Fire Communications Network

The County maintains direct radio communications for forty-six fire departments and three independent rescue squads in the County.

3. Emergency Medical Communications Network

The County maintains direct radio communications for twenty-three ambulance services and four paramedic units in the County.

4. ARES Communications Network

The Chester County "Amateur Radio Emergency Service" (ARES) is a volunteer organization made up of FCC licensed amateur radio operators whose emergency purpose is to provide county-wide emergency communications. Primary communications are conducted on a high band frequency utilizing a repeater in Paoli. Also used are high band frequencies with other amateur groups, the American Red Cross and County Emergency Management Agencies as well as HF frequencies on the Pennsylvania RACES network and National Traffic System (NTS).

5. Chester County Four Wheel Drive maintains direct communications with the County on 33.10 MHZ.

6. EBS Stations (Chester County Net)

Chester County is installing a radio link with its Primary EBS station, WCAU. WCAU's transmitter is located in a partially hardened site and is EMP protected. The Studio and transmitter have a 14 day emergency backup power capability. WCAU operates 24 hours. Secondary stations will be equipped with off the air monitors tuned to WCAU and activated by the standard EBS tone.

Primary

WCAU

Philadelphia, PA

1210 AM

50kW-U

Secondary

WCOJ	Coatesville	1420 AM	5kW DA-N U
WLIU	Lincoln University (Lower Oxford)	88.7 FM	0.01kW
WYIS	Phoenixville, PA	690 FM	0.5kW
WCHE	West Chester	1520 AM	0.25kW D

7. Limerick Generating Station

The Chester County Communications Center has a direct line connection with the Limerick telephone network. The network provides a dedicated line connection with conference call capability with the Limerick Station, PEMA, and Montgomery and Berks Counties.

8. Citizen Access

- a. - Rumor Control (431-6480)
- b. - EOC Administrative (431-6160)
- c. - Hearing Impaired Teletype Device (431-6440)
- d. - Police (933-2440)
- e. - Fire/EMS (933-8966)

9. Municipal EOC's - A UHF Radio Network links all Risk Municipal EOC's with the County EOC.

Note: Communications Center Frequencies are maintained on file by the County DES. The County Communication Center operates on a twenty-four hour basis.

APPENDIX 3

ANNEX B

CHESTER COUNTY ARES/FOUR-WHEEL DRIVE RESOURCES

I. Resources

A. ARES

- | | |
|------------------------|------------------------|
| 1. Rich Eckenrode | 21. George Kerrick |
| 2. Lance Priddy | 22. John Stebbins |
| 3. Shirley Nystrom | 23. Harry Davis |
| 4. John Wilson | 24. Ermanno DiLorenzo |
| 5. Stewart Nystrom | 25. Ron Campbell |
| 6. Harvey Williams | 26. Ry Wennerholm |
| 7. Bob Szabo | 27. John W. Smith |
| 8. Bill Veit | 28. Jeff Knickerbocker |
| 9. Christopher Wurts | 29. Bill Worthington |
| 10. Lil Wist | 30. Frank Renz |
| 11. Doug Derr | 31. Jay Hammonds |
| 12. Dick Swayze | 32. Dave Nemeth |
| 13. Tracy Wurts | 33. John Graham |
| 14. John Wurts | 34. Joe Palmer |
| 15. Jean Strickland | 35. Bob Josuweit |
| 16. Jim McLearn | 36. Jake North |
| 17. Bruce Bittenbender | 37. Gene Shellenberger |
| 18. Ed Wilson | 38. Mary Wilson |
| 19. Bill Mac Donald | 39. A. L. Meyer |
| 20. Harry Buchanan | |

B. Chester County Four Wheel Drive

Rick Woods
Sandy Woods
Ermanno DiLorenzo
Thomas West
Norm Mould
Winnie Woods
Jamie Beauvais
Debbie Beauvais
Bill Longaker
Bob Ward
Dave Holmes
Connie Holmes
Lori Woods

II. Assignments

A. At the Alert classification, ARES communications will be established with:

1. Charlestown Township EOC
2. East Coventry Township EOC
3. East Nantmeal Township EOC
4. East Pikeland Township EOC
5. East Vincent Township EOC
6. North Coventry Township EOC
7. Phoenixville Borough EOC
8. Schuylkill Township EOC
9. South Coventry Township EOC
10. Spring City Borough EOC
11. Upper Uwchlan Township EOC
12. Uwchlan Township EOC
13. Warwick Township EOC
14. West Pikeland Township EOC
15. West Vincent Township EOC

B. At the Site and General Emergency classifications, ARES communications will be established with:

1. All of the above locations
2. Stetson Middle School Reception Center
3. West Whiteland Twp. Bldg. Reception Center
4. Morgan Corporation Reception Center
5. Downingtown High School Reception Center
6. All activated mass care centers
7. Exxon System Services Inc., (Transportation Staging Area)
8. Chester County Airport Central Resource Receiving Point
9. Downingtown Area School District
10. Great Valley School District
11. Owen J. Roberts School District

12. Phoenixville Area School District

- C. Four Wheel Drive units will be mobilized at the Transportation Staging Area (Exxon Systems) at the Site Emergency level.

ANNEX C

ALERT/NOTIFICATION

I. PURPOSE

To establish procedures, identify tasks and designate responsibilities for alerting emergency management personnel at county and municipal levels, alert schools and special facilities, and establish a system for the provision of alert and notification to the population residing within the Chester County portion of the Limerick plume exposure pathway EPZ.

II. RESPONSIBILITIES

- A. The Director of the Chester County Department of Emergency Services has the overall responsibility for the alert and notification of emergency personnel, school districts, special facilities and the general public within the plume exposure pathway EPZ. The Director of the Chester County Department of Emergency Services in consultation with Pennsylvania Emergency Management Agency is responsible for the activation of the public alert and emergency broadcast systems. Municipal emergency management directors are responsible for verifying that route alerting, as a supplementary alert procedure, is conducted where necessary.
- B. The Philadelphia Electric Company is responsible for installing and maintaining a public alert siren system throughout the plume exposure pathway EPZ.

III. PUBLIC ALERT/NOTIFICATION SYSTEM

The primary Chester County public alert system for the Limerick Generating Station consists of 67 high output radio controlled electro-mechanical sirens strategically situated throughout the Chester County portion of the plume exposure pathway emergency planning zone. These sirens, which are remotely controlled by the County Department of Emergency Services, are the audible signal for the public to tune to the local Emergency Broadcast System station (WCAU 1210 AM or WCOJ, 1420 AM) for information. The siren system is an attention getting signal. It is not an evacuation alarm.

The public alert system will be activated whenever there is a need to inform the public of any significant change of plant status or when the public must be informed of a protective action. Any activation of the system will be coordinated with the Pennsylvania Emergency Management Agency (PEMA). Each siren site is a separate and distinct address; therefore, it is possible to activate one or all of the sirens in the county. To activate all of the sirens within the EPZ, the three risk counties will coordinate their activation. This coordination will be arranged through the Pennsylvania Emergency Management Agency.

Each siren is equipped to provide the capability of sounding the steady three to five minute "Alert" signal (this will be the tone used for the Limerick Public Alert) and the rising/falling wail or "Attack" signal. For testing purposes, "growl" and "silent" tests are available.

The activation control point for this system is located within the Chester County communications center which is staffed and operational on a 24-hour basis each day of the year. Activation information is passed from the county control point to a base station radio via computer-conditioned telephone lines. The base station is located centrally within the EPZ. (Back-up base station is also available.) Siren activation, siren failure, power failure, etc., is reported for display on the county computer screen, printer and magnetic disk log.

In the event of any system failures, the siren site relays a message to the central control point of the specific county. The failure will be displayed on the video terminal and printed in hard copy by the printer. Chester County will then ensure the dispatch of appropriate route alerting teams.

Route alerting has been developed as a supplement to the public alert system and is implemented as necessary in the event of public alert system failure. Route alerting is to be accomplished by alert teams travelling designated routes announcing that there is an emergency at the Limerick Generating Station and that individuals should tune to their EBS station. Details of the route alerting system, assignments and routes can be found in Appendix C-6 and Annex E of this plan.

IV. MESSAGE VERIFICATION

- A. Verification of incident notifications will be made by the Chester County Communications Center via telephone to the source of the notification.
- B. When incident notifications are received by communications center personnel, they will acknowledge receipt of message and officially log the information on the Incident Notification Form (Appendix C-3). Telephone messages will include the name and identification of the individual calling and a telephone number to which a return telephone call can be made for verification.
- C. This information will be immediately furnished to appropriate officials and agencies as provided for in Appendix C-2.
- D. All other emergency personnel should verify notifications/messages in accordance with appropriate agency procedures.

V. CONCEPT OF OPERATIONS

Chester County will base its alert/notification response actions to an incident at the Limerick Generating Station upon the specific incident classification in effect.

A. Unusual Event

1. The Chester County DES Duty Officer, or DES Director or alternate, is notified.

B. Alert

1. Alert/notifications for Unusual Event are completed.
2. The Chester County Commissioners are notified.
3. Municipal emergency management coordinators and fire, police and ambulance services serving the plume exposure pathway EPZ are notified.
4. All EOC staff are notified and selected personnel (to be determined by the DES Director) mobilized.
5. EOC staff verify notification as activated for assigned areas.
6. The designated EBS station is notified.
7. The School Services Officer verifies notification of school districts and private schools located within the plume exposure pathway EPZ.
8. ARES personnel are notified and dispatched to local EOC's. Remaining personnel are placed on stand-by status.
9. Utilities, state and federal parks and major industries within the plume exposure pathway EPZ are notified. (Reference Annex X, Industrial Liaison).
10. Transportation systems (i.e., bus, rail and air) and staging areas are notified. (Reference Annex I)
11. If directed by PEMA, the public alert system is activated at the designated time, and the EBS station is directed to commence appropriate messages.
12. Mobilize route alert teams as necessary.

C. Site Emergency

1. Notifications for the Alert level are completed.
2. Remaining EOC staff are mobilized.
3. Southeastern Chapter of American Red Cross is notified and mobilized and requested to place volunteers on standby status.

4. Decontamination monitoring teams are mobilized and placed on standby status.
5. Reception centers, mass care centers and host schools are notified and placed on standby status.
6. Transportation resources and roadway clearance and fuel resources are notified and placed on standby status.
7. If directed by PEMA, the public alert system is activated at the pre-designated time, and the designated EBS station is directed to commence appropriate messages.
8. Mobilize route alert teams as necessary.

D. General Emergency

1. Alert/notifications for Site Emergency are completed.
2. Schools, municipalities, special facilities and major industries/utilities are notified of the General Emergency.
3. All parties are notified of the protective action when received from PEMA.
4. If directed by PEMA, the public alert system is activated at the pre-designated time, and the designated EBS station is directed to commence appropriate messages.
5. Dispatch route alert teams as necessary.

APPENDICES:

- C-1 Public Alert and Notification System
- C-2 Chester County Notification Sequence
- C-3 Incident Notification Form
- C-4 Public Alert System Design Objectives and Testing
- C-5 Municipal EMA Coordinators
- C-6 Route Alerting System Design
- C-7 Route Alert Assignments
- C-8 Route Alert Zone Map

APPENDIX C-1

PUBLIC ALERT SYSTEM

I. Public Alert System

The Public Alert System of the Limerick Generating Station consists of 166 high output electro-mechanical sirens strategically situated throughout the approximate ten-mile emergency planning zone. These sirens, which are remotely controlled by the County Emergency Management Agencies, are the audible signal for the public to tune to the local Emergency Broadcast system station for information. The siren system is an attention getting signal. It is not an evacuation alarm.

The Public Alert System will be activated whenever there is a need to inform the public of any significant change of plant status or when the public must be informed of any emergency situation. Any activation of the system will be coordinated by the Pennsylvania Emergency Management Agency (PEMA).

Since the Plume Exposure Pathway Emergency Planning Zone includes three counties (Berks, Chester and Montgomery), the Public Alert System is divided into three distinct sectors. These sectors correspond to the three county areas of the EPZ.

The Public Alert System consists of the 166 individual sirens (Federal Thunderbolt Model 1000) distributed throughout the EPZ within three sectors attributed to county jurisdiction. Within each sector, each siren site is a separate and distinct address. Therefore, it is possible to activate one or all of the sirens in a county. To activate all 166 sirens within the EPZ, the three counties will coordinate activation. This three segment coordination is a requirement of the Pennsylvania Emergency Management Agency.

The selectivity of sites is obtained by the use of an interactive (two-way) digitally coded status and control unit for each siren. This type of control unit uses a 32-piece or "bit" word to command a response. Each of the three counties have a Central Station which sends the digital command word or words to the siren sites of that county. The siren site(s) receive the digital signal, verify the data and then react accordingly. Additionally, upon receipt of the command or when "interrogated" by the central control station, the site responds with status data to indicate an acknowledgement of the command, report siren activation or malfunction and any power failure.

Siren Signals

Each siren is equipped to provide the capability of sounding the steady three to five minute "Alert" signal (this will be the tone used for the Limerick Public Alert) and the rising/falling wail or "Attack" signal. For testing purposes, "growl" and "silent" tests are available.

System Configuration

As previously indicated, the Limerick EPZ is composed of three counties (Berks, Chester, Montgomery), each having a central control point for activating and interrogating the sirens of its own county. Activation information is passed from the county central control point to a VHF-FM digital base station radio via computer-conditioned telephone lines. The base station is located centrally within the EPZ. A second "back-up" base station is also available. The three counties share the single base station; however, due to the short duration needed to send the activation signal (2 seconds per county), a conflict or delay is not anticipated. Each of the siren-remote controllers transmits a digital signal to the base station to be interpreted by the central control point for status information. Siren activation, failure, power failure, etc., are reported for display on the county computer screen, printer and magnetic disk log.

In the event of any system failures, the siren site will relay a message to the central control point of the specific county. The failure will be displayed on the video terminal and printed in hard copy by the printer. The county then will ensure the dispatch of supplemental route alert teams (reference Appendix C-6).

II. Public Notification System

A. Definition and Authority:

The Emergency Broadcast System (EBS) exists to furnish an expedited means of furnishing real time communications to the public in the event of war, threat of war, or grave national, regional or local crisis. An emergency system such as EBS is authorized by Sections 1, 4(i) and (o), and 303 (r) of the Communications Act of 1934 as amended. This is also in consonance with the Philadelphia Extended Operational Area Emergency Communications Committee and the Pennsylvania Emergency Communications Committee.

B. Purpose

The purpose of the Emergency Broadcast System (EBS) is to provide real time communication, information, direction and instruction in the event of any emergency requiring public action including an emergency at the Limerick Generating Station. The Emergency Broadcast System will be activated to provide specific information to the public following activation of the Public Alert System of the Limerick Generating Station.

C. Activation

At the request of designated Local, State or Federal officials, the Emergency Broadcast System may be activated. Appropriate authentication will be required. The designated officials will use the following format when contacting the EBS station: "This is [NAME/

[TITLE] of Chester County. I request that the emergency broadcast system be activated for Chester County due to an emergency at the Limerick Generating Station."

"Authentication Code _____."

Upon verification of authentication code, the EBS station personnel, in conjunction with the designated official, will determine broadcast details such as the use of live or recorded messages, the time of broadcast and the like.

D. Broadcast

Upon verification of authentication and a determination to utilize live or recorded material, the EBS station may:

1. Broadcast the following announcements:

"We interrupt this program due to an emergency affecting Chester County. Important information will follow."

2. Transmit the Emergency Broadcast System Two Tone Attention Signal for 20-25 seconds.

3. Broadcast the following announcement and broadcast the emergency material:

"We interrupt this program to activate the Emergency Broadcast System for Chester County because of an emergency at the Limerick Generating Station. Important information will follow."

-- EBS Message #1
-- EBS Message #2 (reference EBS messages
-- EBS Message #3 in Annex D)
-- EBS Message #4
etc.

E. Termination

Upon receipt of the termination notice from the activating official, make the following announcement:

"This concludes operations under the Chester County Emergency Broadcast System."

APPENDIX C-2

CHESTER COUNTY NOTIFICATION SEQUENCE

Upon receipt of notification of an incident at the plant, the County Communications Center will verify the notification if it is not received via the dedicated telephone line. The Communications Center will activate notifications as directed by the DES Duty Officer (assigned on a twenty-four hour basis) or the DES Director, using the RECALL system.

As EOC staff arrive at the EOC, they will be provided with RECALL printout indicating notifications accomplished, and will initiate remaining notifications and verify notifications for their respective areas pursuant to appropriate implementing procedures.

In rapidly developing situations requiring expeditious public alert, the Communications Center can, on direction of the DES duty officer or Director, activate the EBS network and appropriate sirens, simultaneously with the initiation of the RECALL notification sequence. In all other cases, the DES PIO will assume responsibility for EBS activation under direction of the DES Director through the Communications Center, and for coordination of public alert. The Communications Group assumes responsibility for all other notification and for coordinating verification actions.

See Appendix B-1 for the DES priority call list.

APPENDIX C-3
PEMA NOTIFICATION CHECKLIST

I. INITIAL NOTIFICATION

- a. Name of Caller: _____ Title: _____
- b. Location of Incident: _____
- c. Telephone Number: _____
- d. Emergency Class: _____ UNUSUAL EVENT _____ SITE EMERGENCY
 _____ ALERT _____ GENERAL EMERGENCY
- e. Date/Time of Incident: _____ / _____
- f. Radioactivity: _____ Has Not Been Released _____ Is Being Released
 _____ Has Been Released _____ Within Plant _____ From Plant
- g. Type of Release: _____ Airborne _____ Waterborne _____ Surface Spill
- h. Additional Information: _____

II. UNDER GENERAL EMERGENCY

- a. Protective Actions: _____ None Recommended _____ Recommended as follows:

- b. Affected Population and Area: _____ None _____ As Follows:

LOCATION

FOR COUNTY PURPOSES ONLY

Department of Emergency Services Staff Notified _____

Action Ordered by Staff: _____

Received by: _____ Time: _____

APPENDIX C-4

SYSTEM DESIGN OBJECTIVES AND TESTING

- A. The minimum design objectives for coverage by the alert/notification system are:
1. The system is capable of providing both an alert signal and an informational or instructional message (EBS announcement) to the population on an area-wide basis throughout the plume exposure pathway EPZ within 15 minutes.
 2. The initial alert/notification system will assure direct coverage of essentially 100% of the population within ten miles of the site.
 3. Special arrangements will be made to assure 100% coverage within 45 minutes of the population who may not have received the initial alert/notification within the entire plume exposure pathway EPZ.
- B. The minimum testing requirements for the alert/notification system are:
1. The siren system will be tested as follows:
 - a. A silent test will be conducted quarterly and when preventive maintenance is performed.
 - b. A growl test will be conducted quarterly and when preventive maintenance is performed.
 - c. A complete cycle test of the alert signal will be conducted annually to include broadcast of a test message over the County alert and warning (EBS) stations. Radio links to EBS Stations will be tested monthly.
 - d. Chester County will provide PEMA with an annual statement certifying that the silent and growl tests were performed.
 2. The radio link with WCAU will be tested monthly.
 3. The EBS System will be tested per normal EBS Systems procedures.

APPENDIX C-5

RISK MUNICIPAL EMA COORDINATORS

	<u>Municipality Name</u>	<u>Coordinator</u>
1.	East Pikeland Twp.:	George L. Hughes
2.	Phoenixville Borough:	Donald P. Sees
3.	Spring City Borough:	Joseph Ferrara
4.	Charlestown Twp.:	Robert Wert
5.	East Nantmeal Twp.:	John Perry
6.	East Vincent Twp.:	Raymond Gunther
7.	East Coventry Twp.:	Theresa Foose
8.	North Coventry Twp.:	Melvin L. Guest, Jr.
9.	South Coventry Twp.:	John McIntyre*
10.	Upper Uwchlan:	Robert Fetters
11.	Uwchlan:	Fred Minahan
12.	Warwick Twp.:	Frederick T. Hurlock
13.	West Pikeland Twp.	Robert W. Rometsch
14.	West Vincent Twp.:	David J. Monteith
15.	Schuylkill Twp.:	Norman Vutz

Note: Telephone numbers and addresses are on file in the County EOC.

*Does not hold Governor's Appointment under PL1332.

APPENDIX C-6

ROUTE ALERTING PROCEDURE

I. Purpose

The purpose of route alerting is to supplement the public alert system in the event of a system failure. It may also be used to alert the hearing impaired.

II. Situation

- A. The public alert system for the Limerick Generating Station consists of one hundred sixty-six high-output mechanical sirens strategically located through-out the emergency planning zone (EPZ), 67 of which are in Chester County.
- B. The public alert system for the Limerick Generating Station will be activated by the County Communications Center in coordination with other counties and PEMA.
- C. The Alerting/Communications Group is responsible for dispatching route alert teams to areas of public alert system failure and for notifying the municipalities of a malfunction.
- D. Each municipality is divided into separate and distinct route alerting sectors. Each sector can be alerted within 45 minutes.
- E. Each sector is assigned a route alert team. Each team will consist of a minimum of two (2) persons using a P.A.-equipped vehicle.

III. Procedures

- A. When dispatched, commence route alerting in designated sectors (reference route alerting map book).
- B. Route alerting is accomplished by driving slowly along designated roads, periodically activating the vehicle siren and making the following announcement on the PA system:

"There is an emergency at the Limerick Generating Station; please tune to your Emergency Broadcast System (EBS) station WCAU, 1210 AM."
- C. Upon completion of route alerting, notify the Chester County communications center.

APPENDIX C-7

ROUTE ALERT ZONES AND COMPANY ASSIGNMENTS

A sample Route Alert Zone Map will be included in the final copy of this plan. The Chester County EOC will maintain maps for all sectors and Company assignments.

APPENDIX C-8

ROUTE ALERT ZONE MAP

The Route Alert Zone Map for the Chester County EPZ will be included in the final copy of this plan.

ANNEX D

PUBLIC INFORMATION

I. PURPOSE

To establish procedures for informing persons living, working or traveling in risk areas of Chester County in the event of an incident at the Limerick Generating Station, and to establish a program to inform the general public of plans and procedures that have been developed for their protection.

II. RESPONSIBILITIES

- A. The Chester County Director of Emergency Services and the DES Public Information Officer (PIO) are responsible for ensuring the accuracy of the pre-emergency public information program to inform persons in risk areas of the county of plans and procedures for their notification, and points of contact for further information in the event of an incident at the Limerick Generating Station.
- B. The Chester County Director of Emergency Services and PIO are responsible for preparing messages for release over the Emergency Broadcast System at the time of an emergency. These messages will provide the public with specific emergency instructions based on the seriousness of the incident.
- C. The Chester County Commissioners, in consultation with PEMA, are responsible for the release of instructions to the public in event of an incident at the Limerick Generating Station.

III. REQUIREMENTS

- A. Pre-emergency public information will be verified for accuracy by the Chester County Director of Emergency Services and PIO. This information will instruct the public at risk how they will be notified, what their actions will be and who to contact for further information in the event of an incident at the Limerick Generating Station.
- B. Philadelphia Electric, in coordination with PEMA and the Chester County Department of Emergency Services, is responsible for the distribution of printed materials to local residents, hotels, motels, campgrounds and other transient population areas.
- C. Chester County will participate in an annual news media orientation held for Limerick risk counties which will be sponsored by PEMA. This orientation will acquaint news media representatives from Chester County with radiological emergency response plans and points of contact for release of public information during an emergency.

- D. The Chester County PIO, with the assistance of PEMA, will prepare and update prepared statements for broadcast over the Emergency Broadcast System (EBS) in the event of an emergency. These statements will include:
1. Take Shelter EBS Announcement.
 2. Selective Evacuation EBS Announcement.
 3. General Evacuation EBS Announcement.
 4. School Evacuation EBS Announcement.
 5. Reentry and Recovery EBS Announcement.
 6. EBS Station Announcement.
- E. If an emergency classification reaches Site Emergency, the County of Chester may commence issuing public information statements via newspaper, radio or television to explain Chester County governmental actions being taken to protect the residents and transients within the county. The purpose of the announcements is to provide accurate information and counteract misinformation and rumors. Reference to the situation at the Limerick Generating Station will be made only in the context of the reasons for governmental actions.
- F. If an emergency situation reaches a degree of danger requiring protective actions by the public, PEMA will coordinate the specific time to activate the public alerting system and the appropriate EBS announcements to be made. EBS announcements will not be made before the public alerting system is activated.
- G. In the event PEMA is out of communications with the risk counties, Montgomery County assumes PEMA's role until communications are restored. In the event PEMA and Montgomery County are out of communications, the risk counties will operate on their own initiative based upon information provided by the Limerick Generating Station or BRP personnel on site.
- H. A Rumor Control Center will be established by Chester County whenever the EOC is activated in support of this plan. The PIO is responsible for the staffing and operation of the rumor control telephone(s). The rumor control telephone number for Chester County will be 431-6480. The need for additional telephone lines and personnel to staff the center will be coordinated by the Director of Emergency Services.
- I. The Chester County Media Center will be established in Room 322 of the Hazlett Building whenever the EOC is activated, and will be staffed by the PIO.

- J. The Chairman of the County Board of Commissioners, or his designee, will serve as the County's spokesperson in the event of an emergency associated with the Limerick Generating Station. The County spokesperson will be briefed by the PIO prior to the release of public information during an emergency.

IV. CONCEPT OF OPERATIONS

The Public Information Officer will:

A. Unusual Event

No action required.

B. Alert

1. Report to the EOC when requested by the Chester County Director of Emergency Services.
2. Contact EBS stations and review the prepared EBS announcements.
3. Contact and alert all Chester County Media.
4. If the public alert system is activated, ensure that appropriate EBS announcements are made immediately thereafter.

C. Site Emergency

1. Report to the County EOC and assemble the public information staff.
2. Contact EBS station WCAU and advise of the declaration of a Site Emergency.
3. Contact and alert all Chester County Media.
4. Open the Chester County Media Center in Room 322 of the Hazlett Building and issue appropriate public information statements in accordance with guidance from the County Commissioners and in cooperation with the PEMA PIO and other risk county PIO's.
5. If the public alert system is activated, ensure that appropriate EBS announcements are made immediately following activation.

D. General Emergency

1. Follow same procedures as for Site Emergency.

2. If a protective action recommendation is received from PEMA, ensure that appropriate EBS announcements are made immediately thereafter.

V. APPENDICES

- | | |
|-------------|---|
| Appendix 1: | EBS Initial Alert Announcement |
| Appendix 2: | Take Shelter EBS Announcement |
| Appendix 3: | Selective Evacuation Announcement |
| Appendix 4: | General Evacuation EBS Announcement |
| Appendix 5: | School Evacuation EBS Announcement |
| Appendix 6: | Reentry and Recovery EBS Announcement |
| Appendix 7: | EBS Station Announcement |
| Appendix 8: | Transient Locations Within the Chester County Plume EPZ |

APPENDIX 1

ANNEX D

EBS INITIAL ALERT ANNOUNCEMENT*

This message has been released by the Chester County Department of Emergency Services:

"An incident has occurred at the Limerick Generating Station. At this time there has been no release of radioactive materials. All residents of Chester County should stay tuned to this station for the latest information.

The Chester County Department of Emergency Services will continue to keep you informed of the situation. In the meantime, residents within an approximate 10-mile radius of the facility are requested to review the emergency information brochure. This brochure describes what steps may be taken to protect you and your family should protective action be necessary.

We emphasize that the situation at Limerick requires no special action at this time except to review your emergency information brochure. Continue to listen to this station for official bulletins and special instructions."

*This message will be broadcast when special circumstances exist that require EBS notification of the public prior to any requirement for the public to take shelter or evacuate.

APPENDIX 2

ANNEX D

TAKE SHELTER CBS ANNOUNCEMENT

The following message has been released by the Chester County Department of Emergency Services:

An emergency exists at the Limerick Generating Station. Persons in the approximate ten mile area around the facility are requested to take shelter.

There is no need for residents to leave the area at the present time.

In Chester County, the area affected is north of the Pennsylvania Turnpike (Interstate 76) and east of PA Route 345.

Persons in this area should take shelter. Persons traveling should proceed to their destination. Non-residents traveling in motor vehicles should clear the area in an orderly fashion.

All persons traveling in the area in motor vehicles should roll up windows and close air vents.

Persons who have taken shelter should observe the following procedures:

1. Close all doors and windows.
2. Turn down air conditioners and close external air vents to minimize intake of outside air. Turn off fans drawing outside air.
3. If applicable, lower the thermostat setting of forced air heaters to minimize the intake of outside air.
4. Keep pets inside, and to the extent possible, bring farm animals under covered facilities.
5. Locate your Chester County Emergency Information Brochure for the Limerick Generating Station and read the emergency information that it contains with emphasis on the Take Shelter instructions.

You are asked not to do the following:

(Read statement #1 if school is in session.)

1. You are requested not to telephone or go to the schools your children are attending. They are in a protected environment and will be bused home at the regular time unless you are otherwise informed by this station.

2. Do not telephone the municipal, county, State or Federal officials directly involved. They will keep you informed of the situation through this station. Do not use the telephone except for medical emergencies.

The preceding has been an announcement by the Chester County Department of Emergency Services. It calls for all persons within an approximate ten-mile area around the Limerick Generating Station to take shelter. For further information, stay tuned to this station.

(Repeat this message one time, then end the transmission.)

(Thereafter, this message will be repeated every five minutes until the station is informed by the County Department of Emergency Services to end transmission.)

APPENDIX 3

ANNEX D

SELECTIVE EVACUATION EBS ANNOUNCEMENT

The following message has been released by the Chester County Department of Emergency Services:

An emergency presently exists at the Limerick Generating Station and the Governor recommends selective evacuation of pregnant women and pre-school children within an approximate ten-mile area around the facility.

In Chester County, pregnant women and pre-school children living in the area north of the Pennsylvania turnpike (Interstate 76) and east of Route 345 should evacuate.

Pregnant women and pre-school children needing shelter will be received at Gordon Jr. High School located at 351 Kersey St. Coatesville. Persons needing transportation to this site should call the municipal transportation number listed in their Limerick emergency brochure or their local police or fire department.

Those persons affected by this message who are evacuating by private automobile should remember to drive carefully and obey all traffic laws.

Pregnant women and pre-school children affected by this request should prepare to spend a minimum of three days away from home and should take with them sufficient quantities of clothing, personal items and prescription drugs to last at least this length of time.

Food, bed and sanitary facilities will be provided at the mass care facility.

The preceding has been a message from the Chester County Department of Emergency Services regarding the Governor's recommendation for the selective evacuation of pregnant women and pre-school children living within an approximate ten-mile area or radius of the Limerick Generating Station. For further information, stay tuned to this station."

(Repeat this message one time, then end transmission.)

(Thereafter, this message should be repeated every five minutes until the station is informed by the County Department of Emergency Services to end transmission.)

APPENDIX 4

ANNEX D

GENERAL EVACUATION EBS ANNOUNCEMENT

The following message has been released by the Chester County Department of Emergency Services.

A General Emergency presently exists at the Limerick Generating Station and the Governor recommends the evacuation of all persons within an approximate ten mile radius of the facility.

In Chester County this evacuation advisory affects persons in the areas north of the Pennsylvania Turnpike (Interstate 76) and east of Route 345.

If you live in this area, please locate the Chester County Emergency Information Brochure for Limerick distributed to all households and read the instructions for evacuation.

Main evacuation routes are provided with traffic control. Please follow the main evacuation routes for your community. If you will need a place to stay, report to a reception center. These are the main evacuation routes:

Route 724 West.

Route 23 West

Route 100 South to Route 113 South.

Route 113 South to Gordon Drive to Route 100 South.

Route 23 East to Route 202 South.

Route 29 South to Route 202 South.

(Repeat this one time and continue message.)

If you have housebound persons or invalids in your home and require assistance in moving them, call your local police or fire department emergency number.

Please cooperate by checking on persons who may live alone in your neighborhood. If they have no way of providing for their own transportation, please assist them if possible. If you cannot obtain transportation for these persons, call your local police or fire department emergency number.

Persons affected by this evacuation advisory should prepare to spend a minimum of three days away from home and should have with them sufficient quantities of clothing, sleeping bags or blankets, personal care items and prescription drugs for at least this period. Persons evacuating will be provided with food, bed and sanitary facilities at mass care centers. Pets may accompany

their owners, but will not be allowed inside the mass care centers. The care and feeding of pets are the responsibility of the owner.

Farmers affected by this evacuation advisory should shelter their animals and contact their county agricultural agent for further instructions regarding protection of livestock and foodstuffs and regaining access to the evacuated area to care for livestock.

Persons planning to evacuate are reminded to take the following steps prior to leaving:

1. Secure your home and property.
2. Turn off all lights and electrical appliances.
3. Turn down any heating systems (or turn off air conditioning systems).
4. Proceed calmly to your destination, obeying all traffic laws and driving carefully.
5. Please obey the police and others who will be directing traffic along the evacuation routes.

Persons evacuating are advised that the evacuation area will be secured and patrolled by State and local police and the National Guard.

The preceding has been an announcement by the Chester County Department of Emergency Services regarding a recommendation by the Governor for the evacuation of all persons living within an approximate ten-mile area of the Limerick Generating Station. For further information please stay tuned to this station."

(Repeat this message until the station is informed to terminate by the County Department of Emergency Services.)

(If school is in session, prepare to broadcast School Evacuation message. Do not broadcast this message until instructed to do so.)

APPENDIX 5

ANNEX D

SCHOOL EVACUATION EBS ANNOUNCEMENT

The following message has been released by the Chester County Department of Emergency Services. It supplements instructions given to the public relative to the general evacuation announcement for the approximate ten-mile area around the Limerick Generating Station.

"Parents with children attending school within a ten-mile area of the Limerick Generating Station are advised that their children will be evacuated to a safe location where they can be reunited with their parents or guardians. Children will be bused to safe locations at host schools outside the risk area. Parents are asked to meet their children there. I repeat, children will be bused directly to safe locations at host schools outside the risk area where parents or guardians may pick them up. Parents or guardians are urged to go directly to the host schools. Attempting to pick them up at the schools they attend might interfere with their safe evacuation.

Children attending Chester County schools within the 10-mile area around the Limerick Generating Station will be bused to locations where they can be picked up.

Please refer to the information provided by your child's school that highlights these host schools and pick up procedures.

Parents are urged not to telephone or to go to the school that their children are attending inside the ten-mile radius of the plant. This will only create confusion. Parents are to meet their children at the assigned host schools. I repeat, parents are urged not to telephone or to go to the school that their children are attending inside the approximate ten-mile area, but to meet their children at assigned host schools.

If your child attends a school outside the ten-mile radius, you may pick up your child at that school.

These host schools will remain open until 8 p.m. After 8 p.m., your child will be transferred to an announced location to await pickup.

The preceding has been an announcement by the Chester County Department of Emergency Services giving parents instructions on where to meet their children who are attending school in the approximate ten-mile area around the Limerick Generating Station."

(Repeat this message one time then end transmission.)

(This message will be broadcast along with the General Evacuation announcement when instructions are given by the Department of Emergency Services to do so.)

APPENDIX 6

ANNEX D

REENTRY AND RECOVERY EBS ANNOUNCEMENT

(This message intended for broadcast by support and risk county news media.)

The following message has been released by the Chester County Department of Emergency Services and affects all Chester County Residents who have evacuated.

"The Governor has announced that residents who evacuated the area around the Limerick Generating Station may begin the orderly return to their homes.

Procedures for reentry to the evacuated area have been planned to ensure the safety of all returning evacuees. Persons in mass care centers will be notified of their scheduled return. They should wait for notification before proceeding.

Return routes, which are generally the same as those used for evacuation, have been marked and will be staffed by emergency personnel.

It is requested that each family cooperate with the municipalities which have been your hosts during this emergency by helping to restore evacuation facilities to their original condition and by assisting with general area cleanup before leaving.

The preceding has been an announcement by the Chester County Department of Emergency Services concerning the orderly reentry of evacuated residents to the area surrounding the Limerick Generating Station. Please stay tuned to this station for further information."

(Repeat this message one time then end transmission.)

(Thereafter, this message should be repeated every five minutes until the station is informed by the County Department of Emergency Services to end transmission.)

APPENDIX 7

ANNEX D

EBS STATION ANNOUNCEMENT*

"This station provides EBS announcements for residents of Chester County.

If you are not a Chester County resident, information pertaining to your county can be obtained by tuning to one of the following stations, or others, designated for your county:

For Berks County: Station WHUM - 1240 AM

For Montgomery County: Station KYW - 1060 AM

Other counties are not affected."

*EBS stations read this message between EBS announcements.

APPENDIX 8

ANNEX D

TRANSIENT LOCATIONS WITHIN THE CHESTER COUNTY PLUME EPZ

Marsh Creek State Park	458-8390	Upper Uwchlan
Phoenix-Kimberton Mall	935-2390	East Pikeland
Camp Council	933-8181	East Pikeland
Coventry Mall	327-0700	North Coventry
Warwick County Park	469-9461	Warwick/South Coventry
St. Peter's Village	469-9074	Warwick
Camp Sankanac	469-6320	East Vincent
Camp Innabah	469-6111	East Vincent
Swiss Pines Park	933-6916	Charlestown
YMCA Baker Park	933-5865	Schuylkill
Warwick Woods Campgrounds	286-9655	Warwick
Freedom's Foundation	933-8825	Schuylkill
Fernbrook Center	489-2056	North Coventry
West Chester State University	326-1644 436-3311	(Welkinweir Campus)

ANNEX E

FIRE AND RESCUE

I. PURPOSE

To provide fire and rescue services to both support and risk areas of Chester County in the event of an incident at the Limerick Generating Station. To assist municipal governments in notifying the population of protective actions to be taken.

II. RESPONSIBILITIES

- A. The responsibility for fire and rescue protection for their coverage areas will remain with the fire/rescue companies of Chester County.
- B. Fire and rescue companies within the plume exposure pathway EPZ will follow municipal emergency plans to provide supplemental notification of the population (route alerting).
- C. The Chester County Fire/Rescue Group Chief will be responsible for coordinating fire and rescue coverage, equipment and personnel.
- D. Fire and rescue companies will provide on-going emergency services for evacuated areas by way of task force groups.
- E. Fire and rescue companies in the plume exposure pathway EPZ should be periodically briefed by their municipal Fire Services Officer and should coordinate activities with the municipal Fire Services Officer.

III. DEFINITIONS

- A. Risk Fire and Rescue Companies - Companies within or serving areas within the plume exposure pathway EPZ.
- B. Support Fire and Rescue Companies - Companies located outside the plume exposure pathway EPZ designated to support emergency operations.
- C. Task Force - A group of fire departments responding as a tactical group rather than as separate units.
- D. Task Force Commander - Officer in charge of a task force.
- E. Relocation Point - A place to which Fire and Rescue Companies will relocate outside the plume exposure pathway EPZ and from which will respond to missions in the EPZ as needed.

IV. REQUIREMENTS

- A. To ensure protection for their respective municipalities, Chester County fire and rescue companies in the plume exposure pathway EPZ of the Limerick Generating Station have agreed to assist in the planning and implementation of route alerting as a supplement to the public alerting system, as well as continuing normal fire and rescue services.
- B. In the event of an incident at the Limerick Generating Station. The primary means of notifying Chester County fire and rescue companies will be by telephone, with radio as a backup.

V. CONCEPT OF OPERATIONS

A. Unusual Event

1. The Fire and Rescue Group Chief will not normally be notified of an Unusual Event.
2. County fire and rescue services will be dispatched by the County Communications Center, if requested by Montgomery County, to provide mutual aid services onsite.

B. Alert

1. If requested, the Fire and Rescue Group Chief will report to the EOC.
2. If requested, fire and rescue services will be dispatched to provide mutual aid services.
3. Fire and Rescue services located within or serving the plume exposure pathway EPZ will be notified of the Alert. All normal fire services will be maintained.
4. Fire departments with route alerting responsibilities should mobilize route alert teams, and review team assignments, procedures and personnel availability.
5. In the event of public alert system activation, mobilize route alert teams and dispatch as necessary.

C. Site Emergency

1. Complete all appropriate actions listed for Alert.
2. The Fire and Rescue Group Chief will report to the County EOC.
3. The Fire and Rescue Group Chief will ensure that fire and rescue services located within or serving the plume exposure pathway EPZ have:
 - a. been notified and placed on standby status.

b. obtained dosimetry and KI from their respective municipal EOC's and distributed them to their emergency workers. (CAUTION: Emergency workers will administer thyroid blocking (KI) to themselves only upon the order of the Secretary of the Department of Health).

4. The Fire and Rescue Group Chief will respond to fire/rescue unmet needs as identified or reported.

D. General Emergency

1. Complete all appropriate actions listed for Site Emergency.

2. The Fire and Rescue Group Chief will ensure that fire and rescue services located within the plume exposure pathway EPZ have:

a. been notified of the declaration of General Emergency and have been dispatched to their assigned positions for route alerting.

b. been notified of the time the public alert system is to be sounded.

c. commenced route alerting, if necessary, at the time of public alert system activation.

d. reported to the county communications center upon completion of route alerting. After completion of route alerting, teams should be assigned to:

(1) An emergency worker decontamination station and from there to a assigned relocation point; or

(2) Quarters to await another assignment; or

(3) Another assignment.

e. take KI if instructed by Secretary of the Department of Health.

3. If relocation is necessary, fire and rescue companies will provide fire protection to the evacuated area by task force in so far as radiation levels will allow from designated relocation sites.

4. The Fire and Rescue Group Chief should ensure that fire and rescue companies outside the plume exposure pathway EPZ are notified that the relocating companies are enroute.

VI. APPENDICES:

Appendix 1: Chester County Fire and Rescue Companies

- Appendix 2: Map of Fire and Ambulance Services
- Appendix 3: Relocation Points for Chester County Fire and Rescue Companies Located Within the Plume Exposure Pathway EPZ
- Appendix 4: Emergency Worker Decontamination Stations

APPENDIX 1

ANNEX E

CHESTER COUNTY FIRE AND RESCUE COMPANIES

I. FIRE COMPANIES

Station 2

Berwyn Fire Company
Berwyn

Station 3

Paoli Fire Company
Paoli

Station 4

Malvern Fire Company
Malvern

Station 5

EAST WHITELAND FIRE COMPANY
Frazer

Station 6

Exton Fire Company
Exton

Station 8*

Friendship Fire Company No. 1
Geigertown

Station 9*

Friendship Fire Company
Morgantown

Station 23

Avondale Fire Company
Avondale

Station 24

Kennett Fire Company No.1
Kennett Square

Station 25

Longwood Fire Company
Kennett Square

Station 26

Atglen Fire Company No. 1
Atglen

Station 27

Cochranville Fire Company
Cochranville

Station 28

Parkesburg Fire Company
Parkesburg

Station 29

Pomeroy Fire Company
Pomeroy

*Located outside Chester County in Berks County, but dispatched by Chester County Communications Center.

(EPZ Risk Fire/Rescue Companies are capitalized.)

Station 21

Union Fire Company No. 1
Oxford

Station 22

West Grove Fire Company
West Grove
Station 33

Honeybrook Fire Company
Honeybrook

Station 34

Martins Corner Fire Company
Coatesville

Station 35

Wagontown Fire Company
Wagontown

Station 36-A

Unionville Community Ambulance
Unionville

Station 36

Po-Mar-Lin Fire Company
Unionville

Station 37

Modena Fire Company
Modena

Station 38

Thorndale Fire Company
Thorndale

Station 39

West Bradford Fire Company
West Chester

Station 31

Sadsburyville Fire Company
Sadsburyville

Station 32

ELVERSON FIRE COMPANY
Elverson
Station 44

Westwood Fire Company
Westwood

Station 45

Alert Fire Company No. 1
Downingtown

Station 46

Minquas Fire Company No. 2
Downingtown

Station 47

LIONVILLE FIRE COMPANY
Lionville

Station 47-A

UWCHLAN AMBULANCE CORPS
Lionville

Station 48

Glenmore Fire Company
Glenmore

Station 49

East Brandywine Fire Co.
Downingtown

Station 51

First West Chester Fire Co.
West Chester

Station 41

Washington Hose Fire Company No. 1
Coatesville

Station 42

Brandywine Fire Company No. 2
Coatesville

Station 43

West End Fire Company No. 3
Coatesville

Station 61

KIMBERTON FIRE COMPANY
Kimberton

Station 62

RIDGE FIRE COMPANY
Spring City

Station 63

LIBERTY FIRE COMPANY
Spring City

Station 64

NORCO FIRE COMPANY
Pottstown

Station 65

PHOENIX HOSE HOOK & LADDER NO. 1
Phoenixville

Station 66

FRIENDSHIP FIRE COMPANY NO. 2
Phoenixville

Station 67

WEST END FIRE COMPANY NO. 3
Phoenixville

Station 52

Goodwill Fire Company No. 2
West Chester

Station 53

Fame Fire Company No. 3
West Chester

Station 54

Goshen Fire Company
West Chester
(Inc. Hersheys Mill Substation)

Station 76

Coatesville VA Hospital Fire Co.
Coatesville

Station 78

PENNHURST FIRE DEPARTMENT
Spring City

Station 79

Embreeville State Hospital
Coatesville

Station 68

VALLEY FORGE VOLUNTEER FIRE COMPANY
Valley Forge

Station 73

LUDWIGS CORNER FIRE COMPANY
Ludwigs Corner

Station 75

Lukens Steel Company Fire Company
Coatesville

II. RESCUE COMPANIES

Station 2

Berwyn Fire Company
Berwyn

Station 3

Paoli Fire Company
Paoli

Station 4

Malvern Fire Company
Malvern

Station 5

EAST WHITELAND FIRE COMPANY
Frazer

Station 6

Exton Fire Company
Exton

Station 9*

Friendship Fire Company
Morgantown

Station 21

Union Fire Company No. 1
Oxford

Station 24

Kennett Fire Company No. 1
Kennett Square

Station 28

Parkesburg Fire Company
Parkesburg

Station 39

West Bradford Fire Company
West Chester

Station 43

West End Fire Company No. 3
Coatesville

Station 45

Alert Fire Company No. 1
Downingtown

Station 47

LIONVILLE FIRE COMPANY
Lionville

Station 49

East Bradywine Fire Company
Downingtown

Station 53

Fame Fire Company No. 3
West Chester

Station 54

Goshen Fire Company
West Chester
(Includes Hersheys Mill Substation)

Station 61

KIMBERTON FIRE COMPANY
Kimberton

Station 67

WEST END FIRE COMPANY NO. 3
Phoenixville

Station 38

Thorndale Fire Company
Thorndale

Station 68

Valley Forge Volunteer Fire Co.
Valley Forge

Station 71

Southern Chester County Rescue Assoc.
Kennett Square

Station 72

SPRING FORD RESCUE SQUAD
Spring City

Station 74

Brandywine Manor Rescue Squad
Brandamore

III. Ambulance/Rescue Companies

Station 24

Kennett Fire Company No. 1
Kennett Square

Station 55

Goodfellowship Ambulance Club
West Chester

Station 67

WEST END FIRE COMPANY NO. 2
Phoenixville

Station 71

Southern Chester County Rescue Assoc.
Kennett Square

Station 72

SPRING FORD RESCUE SQUAD
Spring City

APPENDIX 2

ANNEX E

FIRE STATIONS AND AMBULANCE CLUBS

APPENDIX 3

ANNEX E

TENTATIVE RELOCATION POINTS FOR CHESTER COUNTY RISK
FIRE AND RESCUE COMPANIES IN EPZ

<u>Risk Department</u>	<u>Tentative Relocation Point</u>
1. Kimberton Fire Co.	Lionville Fire Company
2. Ridge Fire Co.	Elverson Fire Company
3. Liberty Fire Co.	Lionville Fire Company
4. Norco Fire Co.	Union Fire Company, Berks County
5. Phoenix Hose Hook & Ladder No. 1	TBD
6. Friendship Fire Co. No. 2	East Whiteland Fire Company
7. West End Fire Co. No. 3 (Phoenixville)	TBD
8. Ludwigs Corner Fire Co.	Lionville Fire Company
9. Pennhurst Hospital (State department)	Embreeville State Hospital department)
10. Springford Rescue	Uwchlan Ambulance Station
11. Elverson Fire Company	N/A
12. East Whiteland Fire Company	N/A
13. Lionville Fire Company	N/A
14. Uwchlan Ambulance Corps.	N/A
15. Valley Forge Fire Company	N/A

APPENDIX 4

ANNEX E

EMERGENCY WORKER DECONTAMINATION STATIONS

1. Elverson Fire Company (Station 32)
P. O. Box 181
Elverson, PA 19520
2. Lionville Fire Company (Station 47)
Village Avenue
Lionville, PA 19353
3. Valley Forge Volunteer Fire Co. (Station 68)
Valley Park Road
Valley Forge, PA 19481

ANNEX F
POLICE SERVICES

I. PURPOSE

To establish procedures for the utilization of county and municipal law enforcement agencies in support of emergency operations, to include an evacuation of the plume exposure pathway EPZ surrounding Limerick Generating Station, and to limit access to areas where the population is taking shelter or has evacuated.

II. RESPONSIBILITIES

- A. The Pennsylvania State Police (PSP) Troop J in Lancaster County is responsible for PSP functions in Chester County. It will coordinate its activities with the Chester County DES. The PSP is responsible for control of traffic on main evacuation routes and for planning and coordinating access control.
- B. Municipal police departments will continue their normal responsibilities. Special assignments regarding security will be coordinated with the Pennsylvania State Police through the Chester County Department of Emergency Services.
- C. The Chester County Sheriff's Office, District Attorney's Office, and Prison and Park Guards will assist the Chester County Department of Emergency Services as requested by the Director of Emergency Services.
- D. Upon order to State Active Duty by the Governor, the Pennsylvania National Guard will assist with security in risk areas as requested.
- E. The Pennsylvania State Police, supported by the National Guard and municipal police, will control access to the plume exposure pathway EPZ during sheltering or evacuation.

III. DEFINITIONS

- A. Risk Police Department - Departments within the plume exposure pathway EPZ.
- B. Support Police Departments - Departments located outside the plume exposure pathway EPZ designated to support emergency operations.
- C. Relocation point - A place to which police departments will relocate outside the plume exposure pathway EPZ and from which will they respond to missions in the EPZ as needed.

IV. REQUIREMENTS

- A. In the event of an incident at Limerick Generating Station, the police departments will be notified by telephone as primary means of communication with radio as back-up.

V. CONCEPT OF OPERATIONS

A. Unusual Event

1. The Police Group Chief will not normally be notified.
2. If requested by Montgomery County, police departments will provide onsite emergency services.

B. Alert

1. If requested, the Police Group Chief will report to the EOC.
2. The Police Group Chief will ensure that Police Departments located within or serving the plume exposure pathway EPZ have been notified of the Alert.
3. The Pennsylvania State Police will be notified by PEMA and DES.
4. Chester County DES Director establishes EOC security. Police Group Chief notifies risk municipal EMA to establish municipal EOC security.

C. Site Emergency

1. Complete appropriate actions listed for Alert.
2. The Police Group Chief will report to the EOC.
3. The Police Group Chief will ensure that police departments located within or serving the plume exposure pathway EPZ have been notified of the Site Emergency, and have distributed dosimetry and KI to their emergency workers. (Caution: Workers will take KI only upon the instructions of the Secretary of the Department of Health.)
4. The Police Group Chief will respond to any municipal unmet needs as identified or reported.
5. The Police Group Chief ensures activation of traffic and access control points, as appropriate, in the event of a protective action recommendation.

D. General Emergency

1. Complete appropriate actions listed for Site Emergency.
2. The Police Group Chief will:

- a. respond to municipal requests for additional support.
 - b. ensure that access control points are manned for security.
 - c. coordinate with the municipal Transportation Officers and the County Public Works Group Chief to provide assistance to disabled motorists and to obtain signs, barricades and other required equipment.
 - d. in the event of evacuation, ensure activation of traffic control points.
 - e. after evacuation is complete, ensure Police Departments are assigned to:
 - (1) an emergency worker monitoring/decontamination station and from there to preassigned relocation points.
 - (2) regular duties; or
 - (3) another assignment.
 - f. ensure police emergency workers have taken KI if instructed to do so by the Secretary of the Department of Health.
 - g. in the event evacuation becomes necessary, ensure that police departments located outside the plume exposure pathway EPZ are notified that the relocating risk departments are enroute.
3. Relocated police departments will provide police protection from outside the plume exposure pathway EPZ in so far as radiation levels allow.

APPENDICES:

1. Chester County Police Departments
2. Map of County Police Departments
3. Relocation Sites for Chester County Police Departments within the Plume Exposure Pathway EPZ
4. Chester County Access Control Points
5. Chester County Traffic Control Points

APPENDIX 1

ANNEX F

CHESTER COUNTY POLICE DEPARTMENTS

Note: Departments in capital letters are located within or service the plume EPZ.

A. Police Departments Dispatched by Chester County Police Radio:

- | | |
|-------------------------------|-------------------------------------|
| 1. SCHUYLKILL TOWNSHIP | 23. East Whiteland Township |
| 2. Easttown Township | 24. UWCHLAN/UPPER UWCHLAN TOWNSHIPS |
| 3. Tredyffrin Township | 25. West Whiteland Township |
| 4. Coatesville City | 26. Kennett Square Borough |
| 5. Valley Township | 27. Oxford Borough |
| 6. South Coatesville Borough | 28. Parkesburg Borough |
| 7. Caln Township | 29. Downingtown Borough |
| 8. SPRING CITY BOROUGH | 30. West Goshen Township |
| 9. Malvern Borough | 31. Westtown/East Goshen Townships |
| 10. Willistown Township | 32. EAST PIKELAND TOWNSHIP |
| 11. WEST PIKELAND TOWNSHIP | 33. West Caln Township |
| 12. Thornbury Township | 34. West Fallowfield Township |
| 13. Birmingham Township | 35. Wallace Township |
| 14. Modena Borough | 36. West Nantmeal Township |
| 15. East Fallowfield Township | 37. East Brandywine Township |
| 16. EAST CONVENTRY TOWNSHIP | 38. East Bradford Township |
| 17. EAST VINCENT TOWNSHIP | 39. West Brandywine Township |
| 18. WEST VINCENT TOWNSHIP | 40. New Garden Township |
| 19. West Grove Borough | 41. Honeybrook Borough |
| 20. West Nottingham Township | 42. Highland Township |
| 21. Avondale Borough | 43. Honeybrook Township |
| 22. Sadsbury Township | |

B. Townships Covered Full-Time by the Pennsylvania State Police:

- | | |
|-----------------------------|-------------------------------|
| 1. East Nottingham Township | 12. East Marlborough Township |
| 2. Elk Township | 13. West Marlborough Township |
| 3. New London Township | 14. Newlin Township |
| 4. Franklin Township | 15. Pocopson Township |
| 5. London Britain Township | 16. Pennsbury Township |
| 6. Lower Oxford Township | 17. West Bradford Township |
| 7. Upper Oxford Township | 18. EAST NANTMEAL TOWNSHIP |
| 8. Penn Township | 19. WARWICK TOWNSHIP |
| 9. Londonderry Township | 20. SOUTH COVENTRY TOWNSHIP |
| 10. London Grove Township | 21. CHARLESTOWN TOWNSHIP |
| 11. Kennett Township | 22. East Caln Township |

C. Townships and Municipalities Operating Full-Time Departments Which Utilize Their Own Dispatch Centers:

1. West Chester Borough
2. PHOENIXVILLE BOROUGH
3. NORTH COVENTRY TOWNSHIP (POTTSTOWN P.D.)

APPENDIX 2

ANNEX F

POLICE DEPARTMENTS

(Jurisdiction Map will be added to final plan)

APPENDIX 3

ANNEX F

TENTATIVE RELOCATION SITES FOR CHESTER COUNTY POLICE DEPARTMENTS
WITHIN THE PLUME EXPOSURE PATHWAY EPZ

<u>Risk Department</u>	<u>Relocation Site</u>
1. Schuylkill Township P.D.	Valley Forge Fire Company
2. Spring City Borough P.D.	Uwchlan Township Building
3. West Pikeland Township P.D.	Uwchlan Township Building
4. East Pikeland Township P.D.	Uwchlan Township Building
5. East Coventry Township P.D.	West Nantmeal Township Bldg.
6. East Vincent Township P.D.	TBD
7. West Vincent Township P.D.	Uwchlan Township Building
8. Phoenixville P.D.	TBD
9. North Coventry Township P.D.	Daniel Boone H.S. (Berks Co.)
10. Upper Uwchlan/Uwchlan Townships P.D.	N/A

APPENDIX 4

ANNEX F

CHESTER COUNTY ACCESS CONTROL POINTS

<u>POST</u>	<u>LOCATION</u>	<u>INSTRUCTIONS</u>	<u>NO. PERSONNEL</u>	<u>RESPONSIBLE ORGANIZATION</u>
<u>CHARLESTOWN TOWNSHIP</u>				
200	T510 (Rees Rd.) & T403 (Howell Rd.)	No traffic on either road	1	PA State Police (PSP)
201*	Rt. 29 (Morehall Rd.) & LR 15134 (Whitehorse Road.)	No traffic North on White Horse	1	PSP
202	Rt. 29 (Morehall Rd.) & LR 15050 (Charlestown Road.)	No traffic North on Rt. 29	1	PSP
203	T548 (Sidley Hill Rd.) & LR 15009 (Yellow Springs Rd.)	No traffic North on Sidley Hill or Yellow Springs	1	PSP
204	T470 (Bodine Rd.) & LR 15054 (Valley Hill Road.)	No traffic North on either Road	1	PSP
<u>WEST PIKELAND TOWNSHIP</u>				
205	Rt. 401 & LR 15189 Seven Oaks Rd.)	No traffic West on Rt. 401 or North on Seven Oaks Road	1	PSP
206	T466 (Davis Rd.) & T447 (Upper Pine Creek Road)	No traffic North on Pine Creek or West on Davis Rd.	1	PSP
<u>UWCHLAN TOWNSHIP</u>				
207	Rt. 113 & T464 (Lion- Station Road)	No traffic North on Rt. 113 or West on Lionville Station Road	1	Uwchlan Twp.
<u>UPPER UWCHLAN TOWNSHIP</u>				
208	Rt. 100 & T439 (Twp Line Road)	No traffic North on Rt. 100 or East on Township Line Rd.	1	PSP

209 LR 15018 (Park Rd.) & T427 (Moore Rd.) No traffic East on Park Rd. 1 PSP

210 LR 15052 (Little Conestoga Rd.) & LR 15203 (Milford Rd.) No traffic North on Milford or East on Little Conestoga Rd. 1 PSP

TREDYFFRIN/SCHUYLKILL TWPS.

TBD Diamond Rock Hill Rd. & Ashenfelter Rd. No traffic North on Diamond Rock or East on Ashenfelter 1 Tredyffrin Twp. P.D.

TBD Welsh Valley Rd. & Mountain Drive Drive No traffic on Mountain Drive 1 Tredyffrin Twp. P.D.

WALLACE TOWNSHIP

211 LR 15052 (Little Conestoga & T457 (Styer Dr.) No traffic North on Styer Rd. 1 PSP

212 LR 15052 (Little Conestoga Rd.) & LR 15148 Fairview Rd.) No traffic West on Fairview Road 1 PSP

EAST NANTMEAL TOWNSHIP

213 T505 (Hedge Rd.) & T500 (Creamery Rd.) No traffic on Hedge Rd. 1 PSP

214 T400 (Marsh Rd.) & Adams Dr. No traffic on Marsh Road

215* Rt. 401 & Rt. 345 No traffic East on Rt. 401 2 PSP

WARWICK TOWNSHIP

216 Rt. 345 & T409 (Redding Redding Furnace Road) No traffic East on Redding Furnace Road

217* Rt. 23 & Rt. 345 No traffic East on Rt. 23 1 PSP

218 Rt. 345 & T533 (Warwick Rd.) No traffic East on Warwick Road

219 Rt. 345 & T529 (Northside Road) No traffic East on Northside Road

220	Rt. 345 & LR 15129 (Harmonyville Rd.)	No traffic East on Harmony- ville Road	1	PSP
221	Rt. 345 & T400 Laurel Rd.)	No traffic South on Laurel Road	1	PSP

* Denotes Access Control Points and Traffic Control points Combined.

NOTE: This information reflects information developed by the Pennsylvania State Police with adjustments and revisions by the Chester County Department of Emergency Services and municipal law enforcement and emergency management personnel. It should be considered preliminary, with further coordination among all of the above participants required.

APPENDIX 5

ANNEX F

CHESTER COUNTY TRAFFIC CONTROL POINTS

CHESTER COUNTY TRAFFIC CONTROL POINTS

<u>POST</u>	<u>LOCATION</u>	<u>TOWNSHIP</u>	<u>NO. PERSONNEL</u>	<u>RESPONSIBLE ORGANIZATION</u>
25*	Rt. 401 & Rt. 345	East Nantmeal	2	Pennsylvania State Police (PSP)
26	Rt. 401 & Rt. 82	Elverson Boro	2	PSP
27	Rt. 82 & Rt. 23	Elverson Boro	2	PSP
28*	Rt. 345 & Rt. 23	Warwick	2	PSP
29	Rt. 23 & St. Peters Rd (LR 15131)	Warwick	2	PSP
30	Rt. 23 & Coventryville Rd (T517)	South Coventry	2	PSP
31	Rt. 23 & Rt. 100	South Coventry	2	PSP
32	Rt. 23 & Bertolett School Road	East Coventry	2	PSP
34	Rt. 100 & Horseshoe (T509)	West Vincent	2	PSP
35	Rt. 100 & Rt. 401	West Vincent	2	PSP
36	Rt. 401 & St. Matthews (LR 15079)	West Vincent	2	PSP
37	Rt. 100 & Fellowship Road (T464)	Upper Uwchlan	2	PSP
38	Rt. 100 & Little Conestoga Road (LR 15052)	Upper Uwchlan	2	PSP
39	Rt. 100 & Rt. 113	Uwchlan	2	PSP
40	Rt. 113 & Rt. 30 By Pass	East Caln	2	PSP
41	New St. (T569) & Rt. 724	East Vincent	2	PSP

42	Rt. 724 & Rt. 23	East Pikeland	2	PSP
43	Rt. 401 & Rt. 113	West Pikeland	2	PSP
44*	Rt. 29 (Morehall) & Charlestown Road (15050)	Charlestown	2	PSP
C-1	Rt. 401/Valley Hill Road	Charlestown		PSP
45*	Rt. 29 (Morehall) & South White Horse Road (15134)	Charlestown	2	PSP
46	Rt. 202 & Rt. 29	East Whiteland	2	PSP
	Sidley Road/ Phoenixville Pike	East Whiteland	1	East Whiteland Twp. P.D.
CE-1**	Rt. 23/Morgan Corporation	Caernarvon Twp. (Berks)	1	Caernarvon Twp. P.D. (Berks)
EB-1**	Rt. 282/Dorlans Mill Road	East Brandywine	1	East Brandywine Twp. P.D.
EC-1	Bethel Church Rd./Rte. 23	East Coventry	1	East Coventry Twp. P.D.
EC-2	Bethel Church Rd./Rte. 724	East Coventry	1	East Coventry Twp. P.D.
EC-3	Old Schuylkill Rd./Rte. 724	East Coventry	1	East Coventry Twp. P.D.
EC-4	Sanatoga Rd./Rte. 724	East Coventry	1	East Coventry Twp. P.D.
EP-1	Pikeland Avenue/Rt. 724	East Pikeland	1	East Pikeland Twp. P.D.
EP-2	Township Line Road/Rt. 113	East Pikeland	1	East Pikeland Twp. P.D.
EP-3	Rt. 113/Rapps Dam Road	East Pikeland	1	East Pikeland Twp. P.D.
EP-4	Rt. 113/Hares Hill Road	East Pikeland	1	East Pikeland Twp. P.D.
EP-5	Rt. 113/Cold Stream Road	East Pikeland	1	East Pikeland Twp. P.D.

* Denotes Access Control and Traffic Control Points combined.

** Denotes Under Development.

EV-1	Rt. 724/Bridge Street	East Vincent	1	East Vincent Twp. P.D.
EV-2	Rt. 724/New Street	East Vincent	1	East Vincent Twp. P.D.
EV-3	Rt. 724/Hill Church Road	East Vincent	1	East Vincent Twp. P.D.
EV-4	Rt. 724/Stony Run Road	East Vincent	1	East Vincent Twp. P.D.
EV-5	Pennhurst Road/ Bridge Street	East Vincent	1	East Vincent Twp. P.D.
NC-1	Rt. 724/Keim Street	North Coventry	1	North Coventry Twp. P.D.
NC-2	Rt. 724/Hanover Street	North Coventry	1	North Coventry Twp. P.D.
NC-3	Rt. 100/Rt. 724	North Coventry	2	North Coventry Twp. P.D.
NC-4	Rt. 100/South Hanover Street	North Coventry	1	North Coventry Twp. P.D.
NC-5	S. Hanover St./ Cedarville Rd.	North Coventry	1	North Coventry Twp. P.D.
NC-6	Laurelwood Drive/Rt. 724	North Coventry	1	North Coventry Twp. P.D.
NC-7	Rt. 100/Cedarville Road	North Coventry	1	North Coventry Twp. P.D.
P-1	Rte. 113 & Rte. 23	Phoenixville	1	Phoenixville P.D.
P-2	W. Bridge St. & Potthouse Rd.	Phoenixville	1	Phoenixville P.D.
P-3	Bridge St. & Nutt Road	Phoenixville	1	Phoenixville P.D.
P-4	Route 29 & Junior High School	Phoenixville	1	Phoenixville P.D.
P-5	Nutt Road & Lincoln Avenue	Phoenixville	1	Phoenixville P.D.
P-6	Gay Street & Nutt Road	Phoenixville	1	Phoenixville P.D.
P-7	Main Street & Nutt Road	Phoenixville	1	Phoenixville P.D.

* Denotes Access Control and Traffic Control Points combined.

** Denotes Under Development.

P-8	Starr Street & Nutt Road	Phoenixville	1	Phoenixville P.D.
P-9	First Avenue & Gay Street	Phoenixville	1	Phoenixville P.D.
P-10	First Avenue & Main Street	Phoenixville	1	Phoenixville P.D.
P-11	First Ave. & Starr Street	Phoenixville	1	Phoenixville P.D.
P-12	Bridge St. & Buchanan St.	Phoenixville	1	Phoenixville P.D.
P-13	Gay Street & Bridge Street	Phoenixville	1	Phoenixville P.D.
P-14	Main Street & Bridge St.	Phoenixville	1	Phoenixville P.D.
P-15	Starr Street & Bridge St.	Phoenixville	1	Phoenixville P.D.
P-16	Phoenixville Hospital Exit to Route 29 & Phoenixville Manor	Phoenixville	1	Phoenixville P.D.
P-17	High St. & Franklin Ave.	Phoenixville	1	Phoenixville P.D.
P-18	Emmett St. & Dayton St.	Phoenixville	1	Phoenixville P.D.
P-19	Dayton St. & Freemont St.	Phoenixville	1	Phoenixville P.D.
P-20	Township Line Rd. & Fillmore St.	Phoenixville	1	Phoenixville P.D.
SK-1	Rt. 23/White Horse Road	Schuylkill	1	Schuylkill Twp. P.D.
SK-2	Pot House Rd/Charlestown Rd	Schuylkill	1	Schuylkill Twp. P.D.
SK-3	Pot House Rd/White Horse Rd	Schuylkill	1	Schuylkill Twp. P.D.
SK-4	Pot House Road/Rt. 29	Schuylkill	1	Schuylkill Twp. P.D.
SK-5	White Horse Rd./Valley Park Rd.	Schuylkill	1	Schuylkill Twp. P.D.
SK-6	White Horse Rd/Schuylkill Elementary Entrance	Schuylkill	1	Schuylkill Twp. P.D.
SK-7	Charlestown Road/Vo-Tech Entrance	Schuylkill	1	Schuylkill Twp. P.D.

* Denotes Access Control and Traffic Control Points combined.

** Denotes Under Development.

SCF-1	Rt. 100/Pughtown Road	South Coventry	1	Fire Police
SCF-2	Rt. 100/Cadmus Street	South Coventry	1	Fire Police
SCB-1	Bridge Street/Main Street	Spring City	2	Spring City P.D.
SCB-2	Wall Street/Main Street	Spring City	1	Spring City P.D.
SCB-3	Pikeland Avenue/Wall Street	Spring City	1	Spring City P.D.
WEG-1**	Rt. 202-322/Stetson Middle School	Westtown Twp.		Westtown/East Goshen P.D.
WG-1**	Rt. 202-322/S. High St. Ramp	West Goshen		West Goshen P.D.
W-1	Rt. 23/Trythall Road	Warwick	1	PSP
WEG-1**	Rt. 202/Rt. 322 at Stetson Middle School	Westtown Twp.	1	Westtown/East Goshen P.D.
WG-1**	Rt. 202/Rt. 322 at S. High St. Ramp	West Goshen	1	West Goshen P.D.
W-2	Rt. 23/County Park Road	Warwick	1	PSP
WP-1	Rt. 113/Pikeland Road	West Pikeland		1 West Pikeland Twp. P.D.
T-3**	Yellow Springs Rd./Rt. 252	Tredyffrin		Tredyffrin Twp. P.D.
T-4**	Rt. 252/Park Access Road	Tredyffrin		Tredyffrin Twp. P.D.
T-5**	Rt. 252/202 Bypass	Tredyffrin		Tredyffrin Twp. P.D.
T-6**	N. Gulph Road/Thomas Road	Tredyffrin		Tredyffrin Twp. P.D.
U-1	Byers Road/Rt. 100	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
U-2	Township Line Rd./Rt. 100	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
U-3	Font Road/Rt. 100	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
U-4	Gordon Drive/Rt. 100	Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.

* Denotes Access Control and Traffic Control Points combined.

** Denotes Under Development.

U-5	Gordon Drive/Rt. 113	Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
U-6**	Park Entry Drive/ Dorlans Mill Road	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D. (Mutual Aid)
U-7**	Dorlans Mill Road/ Fisher Road	Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D. (Mutual Aid)
WV-1	Birchrn Road/Rt. 100	West Vincent	1	W. Vincent Twp.
CALN-1	Rt. 322/Rt. 30	Caln	1	Caln Twp. P.D.
D-1	Rt. 322/Downingtwn H.S.	Downingtwn Boro	1	Downingtwn P.D. Entrance
WHITE-1	Rt. 100/Twp. Bldg.	West Whiteland	2	West Whiteland Twp. P.D.
WHITE-2**	Rt. 100/Rt. 30	West Whiteland	2	West Whiteland Twp. P.D.
EW-1	Rt. 29/Rt. 202	E. Whiteland	1	East Whiteland Twp. P.D.

* Denotes Access Control and Traffic Control Points combined.

** Denotes Under Development.

ANNEX G

MEDICAL SUPPORT/EMS

I. PURPOSE

To establish policies and procedures for the provision of Medical/EMS support in Chester County and to assist other risk counties in the event of an incident at the Limerick Generating Station.

II. RESPONSIBILITIES

- A. Chester County is responsible for providing appropriate health and medical support to the public at risk in the event of an emergency and has appointed a Medical/EMS Group Chief to coordinate this responsibility.
- B. Chester County is responsible for the notification and support of hospitals and nursing homes within the plume exposure pathway EPZ, as well as providing support to municipalities requiring ambulance transportation for homebound persons in the event of an evacuation.
- C. The hospitals' and nursing homes' primary responsibilities are to notify support facilities, update patient census, and determine transportation needs. Additionally, they will identify host facility capability to accept evacuees and report all unmet needs to County Medical/EMS Group Chief.
- D. Chester County, in cooperation with the Red Cross, is responsible for health care of evacuees at mass care centers located within the county.
- E. The County Medical/EMS Group will be aided by the Southeastern Pennsylvania American Red Cross and the Chester County Emergency Medical Services Council in providing staff support and operations coordination of medical services.

III. SITUATION

- A. One hospital, three nursing homes, and Pennhurst Center are located within the Chester County sector of the plume exposure pathway EPZ of Limerick Generating Station.
- B. Municipalities located within the plume exposure pathway EPZ will develop lists of homebound individuals requiring ambulance transportation in event of an evacuation. These lists are retained at the county EOC in the event that dispatch of ambulances for evacuation becomes necessary. An update is provided to the county by risk municipalities at the time of emergency.
- C. Ambulance services located within the plume exposure pathway EPZ will generally not be used for evacuation support to health care

facilities. EPZ ambulance services will be primarily responsible for the continued emergency coverage of their service areas.

- D. Chester County ambulance services located outside the plume exposure pathway EPZ will be called upon to provide evacuation support to homebounds located within the EPZ while maintaining emergency coverage throughout Chester County using the Disaster Dispatch Plan. Ambulances from outside Chester County will be used for evacuation of health care facilities.
- E. Chester County will provide primary notification of Pennhurst Center, a state facility for the retarded. The relocation site for this facility is the Embreeville State Hospital. A mass care center will be established at the Unionville Chadds Ford Jr. High School for staff and their families.
- F. Homebound invalids evacuated from the plume EPZ will be relocated to the Pocopson Home, West Chester. In the event that the capability of that facility to accept evacuees is exceeded, arrangements will be made to place them at area hospitals.
- G. The primary Chester County hospital for designated stabilization, monitoring and decontamination of a contaminated emergency worker requiring medical attention will be Chester County Hospital. Severe radiation contamination cases, however, will be referred to the University of Pennsylvania Hospital in Philadelphia.

IV. CONCEPT OF OPERATIONS

A. Unusual Event

- 1. The Medical/EMS Group Chief will not normally be notified.
- 2. If requested by Montgomery County, ambulance service support will be provided onsite.

B. Alert

- 1. The Medical/EMS Group Chief will report to the EOC if requested.
- 2. If requested, ambulance service will be provided onsite if requested.
- 3. The Medical/EMS Group will:
 - a. ensure that ambulance services located within the plume exposure pathway EPZ are notified of the Alert.
 - b. notify hospitals and nursing homes with the plume EPZ, and Pennhurst Center.

c. respond to identified or reported municipal unmet needs, including the lists of homebound persons requiring ambulance transportation.

4. Hospitals, nursing homes and Pennhurst Center should update census, determine transportation needs, contact evacuation support facilities, determine reception bed availability and report to the County Medical and Health Group Chief along with any unmet needs.

C. Site Emergency

1. The Medical/EMS Group Chief will:

a. Report to the EOC and mobilize staff.

b. ensure that all county ambulances are notified of the situation.

c. ensure that all county ambulances located within or servicing the plume exposure pathway EPZ are mobilized.

d. notify risk hospitals, nursing homes and Pennhurst of the incident classification, and request they implement appropriate aspects of their emergency plans.

e. update total ambulances needed for evacuation support, identify ambulance availability for evacuation support within Chester County, develop preliminary assignment lists and report unmet needs to PEMA.

f. report non-ambulance transportation needs to the Transportation Group Chief.

g. ensure ambulance emergency workers have received dosimetry and KI (Caution: Workers will take KI only upon the instruction of the Secretary of the Department of Health.)

2. Hospitals, nursing homes, and Pennhurst Center should update census, determine transportation needs, contact evacuation support facilities, determine reception bed availability and report to the County Medical/EMS Group Chief along with unmet needs.

D. General Emergency

1. The Medical/EMS Group Chief will:

a. accomplish appropriate actions contained in Site Emergency section.

- b. notify hospitals, nursing homes, and Pennhurst Center of the general emergency, and advise of any protective action to be taken (sheltering or evacuation).
 - c. If evacuation is ordered:
 - (1) ensure ambulance services located within the plume exposure pathway EPZ are dispatched to maintain emergency coverage of EPZ.
 - (2) assign and dispatch Chester County ambulances (non-EPZ) as available and necessary for the evacuation of non-Chester County homebound persons.
 - (3) as ambulances arrive at the transportation staging area, make assignments and relay through the Transportation Group Chief.
 - d. after evacuation is complete, ensure ambulance services are assigned to:
 - (1) an emergency worker decontamination station and from there to preassigned relocation points.
 - (2) quarters to await next assignment; or
 - (3) another assignment.
 - e. ensure that ambulance emergency workers have taken KI upon instruction from the Secretary of the Department of Health.
 - f. ensure that ambulance services located outside the plume exposure pathway EPZ are notified that the relocating services are enroute.
 - g. if sheltering is recommended, ensure that ambulance personnel remain in quarters responding only to emergency medical calls. Upon completion of call, personnel should report of the nearest emergency worker decontamination station.
2. Phoenixville Hospital, Pennhurst Center, the three risk nursing homes, and risk municipalities will report status and completion of protective action to Medical/EMS Group Chief.

APPENDICES

- 1. Chester County Risk and Host Hospitals and Nursing Homes
- 2. Hospitals in Chester County Capable of Radiation Treatment
- 3. List of Homebound Persons Requiring Ambulance Transportation

4. Chester County Ambulance Resources
5. Relocation Sites for Chester County Ambulances/Rescue Vehicles Within the EPZ
6. Special Facility/Transportation Requirements and Census Forms
 - Attachment A - Special Facilities Ambulance Requirements
 - Attachment B - Phoenixville Hospital
 - Attachment C - Coventry Manor Nursing Home
 - Attachment D - Manatawny Manor
 - Attachment E - Phoenixville Convalescent Manor, Inc.
 - Attachment F - Pennhurst Center

APPENDIX 1

ANNEX G

CHESTER COUNTY RISK AND HOST

HOSPITALS AND NURSING HOMES

<u>I. Hospitals</u>	<u>Capacity</u>	<u>Host Facility</u>
A. Phoenixville Hospital	195	Paoli Memorial Hospital
<u>II. Nursing Homes</u>		
A. Coventry Manor Nursing Home	41	Berks Heim County Home
B. Manatawny Manor Nursing Home	199	Wernersville State Hospital
C. Phoenixville Manor	135	Rosemont Manor, Rosemont Doylestown Manor, Doylestown Stenton Hall, Philadelphia
D. Pennhurst Center (State Facility) ___		Embreeville State Hospital

APPENDIX 2

ANNEX G

LIST OF HOSPITALS CAPABLE OF
RADIATION TREATMENT

<u>FACILITY</u>	<u>NUMBER OF BEDS</u>
1. University of Pennsylvania Hospital 3400 Spruce Street Philadelphia, PA 19104 (215) 662-3000 - Radiology (215) 662-4000--2203 Main Number Dr. Sheldon Jacobson - Emergency Room Chief. The University of Pennsylvania Hospital is the Definitive Care Center for radiation contamination in the Delaware Valley. This hospital has been designated as the referral center for the entire Delaware Valley region. Local hospitals are capable of providing stabilization, monitoring and decontamination, as necessary, and are to refer severe cases to the University of Pennsylvania Hospital.	686
2. Southern Chester County Medical Center LR 131 West Grove, PA 19390 (215) 869-1000	77
3. Chester County Hospital 701 E. Marshal Street West Chester, PA 19380 (215) 431-5000	290
4. Paoli Memorial Hospital Lancaster Pike Paoli, PA 19301 (215) 648-1000	188
5. Brandywine Hospital 201 Reeceville Road Coatesville, PA 19320 (215) 383-9068--8049	208

All other hospitals in the state with this capability are identified in the Commonwealth's Disaster Operations Plan, Annex E, and these resources could be used if the primary and immediate support hospitals identified here are not sufficient.

APPENDIX 3

ANNEX G

HOMEBOUND PERSONS REQUIRING AMBULANCE TRANSPORTATION

<u>Municipality</u>	<u>Homebound Persons</u> ¹	<u>Ambulances Required</u> ²
1. Charlestown	1	1
2. East Coventry	4	2
3. East Nantmeal	1	1
4. East Pikeland	2	1
5. East Vincent	6	3
6. North Coventry	11	6
7. Phoenixville	14	7
8. Schuylkill	10	5
9. South Coventry	0	0
10. Spring City	5	3
11. Upper Uwchlan	0	0
12. Uwchlan	0	0
13. Warwick	2	1
14. West Pikeland	0	0
15. West Vincent	1	1
TOTAL	<u>57</u>	<u>31</u>

¹Based on public survey.

²Based on two patients per ambulance.

APPENDIX 4

ANNEX G

CHESTER COUNTY EMERGENCY MEDICAL SERVICES RESOURCES*

I. AMBULANCE SERVICE.

	<u>Station</u>	<u>Vehicles</u>
<u>Station 2:</u>	<u>Berwyn Fire Company</u> Berwyn	2
<u>Station 3:</u>	<u>Paoli Fire Company</u> Paoli	1
<u>Station 4:</u>	<u>Malvern Fire Company</u> Malvern	2
<u>Station 5:</u>	<u>EAST WHITELAND FIRE COMPANY*</u> Frazer	1
<u>Station 21:</u>	<u>Union Fire Company No. 1</u> Oxford	2
<u>Station 22:</u>	<u>West Grove Fire Company</u> West Grove	2
<u>Station 23:</u>	<u>Avondale Fire Company</u> Avondale	1
<u>Station 24:</u>	<u>Kennett Fire Company No. 1</u> Kennett Square	2
<u>Station 28:</u>	<u>Parksburg Fire Company</u> Parksburg	2
<u>Station 29:</u>	<u>Pomeroy Fire Co.</u> Pomeroy	1
<u>Station 32:</u>	<u>ELVERSON FIRE CO.</u> Elverson	2
<u>Station 33:</u>	<u>Honeybrook Fire Co.</u> Honeybrook	2
<u>Station 34:</u>	<u>Martins Corner Fire Company</u> Coatesville	2

*Risk ambulance services are capitalized.

Station

<u>Station 36A:</u>	<u>Unionville Ambulance Corp.</u> <u>Unionville</u>	1
<u>Station 37:</u>	<u>Modena Fire Company</u> <u>Modena</u>	2
<u>Station 41:</u>	<u>Washington Hose Fire Co. No. 1</u> <u>Coatesville</u>	2
<u>Station 43:</u>	<u>West End Fire Company No. 3</u> <u>Coatesville</u>	1
<u>Station 46:</u>	<u>Minquas Fire Company No. 2</u> <u>Downingtown</u>	2
<u>Station 47:</u>	<u>UWCHLAN AMBULANCE CORPS.</u> <u>Lionville</u>	2
<u>Station 54:</u>	<u>Goshen Fire Company</u> <u>West Chester</u>	3
<u>Station 55:</u>	<u>Good Fellowship Ambulance Club</u> <u>West Chester</u>	5
<u>Station 63</u>	<u>SPRING CITY AMBULANCE SERVICE</u> <u>Spring City</u>	1
<u>Station 67:</u>	<u>WEST END FIRE COMPANY #3</u> <u>Phoenixville</u>	3
<u>Station 72:</u>	<u>SPRING FORD RESCUE</u> <u>Spring City</u>	1
	TOTAL AMBULANCES	45

II. ADVANCED LIFE SUPPORT UNITS

Medic 91: Chester County Hospital (Westchester)
Medic 92: Paoli Memorial Hospital (Paoli)
Medic 93: Brandywine Hospital (Cain Twp.)
Medic 94: Southern Chester County Medical Center (West Grove)

III. HELICOPTER SERVICES

Aeromedix (Brandywine Hospital)

Risk ambulance services are capitalized.

ATTACHMENT B
APPENDIX 6
ANNEX G

CENSUS AND TRANSPORTATION REQUIREMENTS FORM

DATE/TIME _____			
PHOENIXVILLE HOSPITAL			
PATIENT CLASS	TRANSPORTATION REQUIREMENTS		TOTAL CENSUS
	AMBULANCE	BUS/VAN	
MATERNITY			
PEDIATRICS			
NEONATES			
MEDICAL/ SURGICAL			
INTENSIVE/ CARDIAC CARE			
PATIENT TOTALS			
STAFF CENSUS			
NUMBER OF VEHICLES ASSIGNED			

ATTACHMENT C
APPENDIX 6
ANNEX G

CENSUS/TRANSPORTATION REQUIREMENTS FORM

DATE/TIME _____

COVENTRY MANOR NURSING HOME, INC.

CENSUS	TRANSPORTATION REQUIREMENTS	
TOTALS	AMBULANCE	BUS/VAN
RESIDENT		
STAFF		
NUMBER OF VEHICLES ASSIGNED		

ATTACHMENT D
APPENDIX 6
ANNEX G

CENSUS/TRANSPORTATION REQUIREMENTS FORM

DATE/TIME _____

MANATAWNY MANOR

CENSUS	TRANSPORTATION REQUIREMENTS	
TOTALS	AMBULANCE	BUS/VAN
RESIDENT		
STAFF		
NUMBER OF VEHICLES ASSIGNED		

ATTACHMENT E
APPENDIX 6
ANNEX G

CENSUS/TRANSPORTATION REQUIREMENTS FORM

DATE/TIME _____

PHOENIXVILLE CONVALESCENT MANOR, INC.

CENSUS	TRANSPORTATION REQUIREMENTS	
TOTALS	AMBULANCE	BUS/VAN
RESIDENT		
STAFF		
NUMBER OF VEHICLES ASSIGNED		

ATTACHMENT F
APPENDIX 6
ANNEX G

CENSUS/TRANSPORTATION REQUIREMENTS FORM

DATE/TIME _____

PENNHURST CENTER

CENSUS	TRANSPORTATION REQUIREMENTS	
TOTALS	AMBULANCE	BUS/VAN
RESIDENT		
STAFF		
NUMBER OF VEHICLES ASSIGNED		

NOTE: Pennhurst is a state facility and is to be entirely supported by the Pennsylvania Department of Public Welfare. This information is provided for coordination purposes only.

ANNEX H
MILITARY SUPPORT

I. PURPOSE

To establish policies, procedures, responsibilities, capabilities and a concept of operations for the deployment of the Pennsylvania National Guard to support Chester County in the event of an incident at the Limerick Generating Station.

II. RESPONSIBILITIES

- A. The authority to activate the National Guard to support civil emergencies rests with the Governor of Pennsylvania.
- B. Requests for National Guard support will be made through PEMA.
- C. Operational control of National Guard forces rests with the Adjutant General or his designate.
- D. County and municipal authorities, through their respective Emergency Management Coordinators, will identify specific requirements for National Guard assistance and provide for coordination between county support agencies and the National Guard.

III. CAPABILITIES

- A. The National Guard has the capability to respond to the following peacetime missions:
 - 1. Search and Rescue
 - 2. Traffic Control
 - 3. Impediment Removal
 - 4. Security
 - 5. Supplementary Vehicle Fuel Supply
 - 6. Transportation

IV. CONCEPT OF OPERATIONS

- A. The average time for the National Guard to mobilize and deploy to the area of operations is approximately six (6) to eight (8) hours.
- B. The Adjutant General will provide liaison personnel at the County EOC.
- C. The Chester County Director of Emergency Services will coordinate National Guard missions in support of the county.

APPENDIX

OPLAN 1-81
2d Bn, 111th Inf

APPENDIX 1

ANNEX H

OPLAN 1-81 (OPERATION NUKE II - CHESTER COUNTY)

(CLASSIFICATION)

Copy No. 27 of 50 copies
2d Bn 111th Inf
Phoenixville, PA 19460
0616304 March 1981

OPLAN 1-81 (NUKE II - CHESTER COUNTY)

- Reference:
- a. Map, Official Highway, Commonwealth of Pennsylvania, 1980/81
 - b. Special Map, Limerick Generating Station Emergency Plan, Montgomery County Planning Commission, May 1979.
 - c. Maps, Pennsylvania 7.5 Minute Series (Topographic) ELVERSON, POTTSTOWN, PHOENIXVILLE, HONEY BROOK, WAGONTOWN, DOWNINGTOWN, MALVERN, VALLEY FORGE, PARKESBURG, COATESVILLE, UNIONVILLE, WEST CHESTER, KIRKWOOD, OXFORD, WEST GROVE, KENNETT SQUARE, AND WILMINGTON NORTH Quadrangles, 1:24,000.
 - d. OPLAN 3-80 (OPERATION NUKE II), TAGPA.
 - e. Annex E, PNG-EOP.
 - f. Operations Plan, Chester County EMA.

Time Zone Used Throughout the Plan: ROMEO

Task Organization: Co A Co B Co C CSC

1. SITUATION

- a. Enemy Forces. Current INTSUM.
- b. Friendly Forces.
 - (1) TF 56, on order, alerts and assembles to support Emergency Management Agency (EMA) Coordinators of Risk Counties for Limerick Generating Station, including MONTGOMERY, CHESTER, and BERKS Counties.
 - (2) 1-111 Inf, on order, alerts and assembles to support EMA Coordinator for MONTGOMERY County.

- (3) 1-103 Engr, on order, alerts and assembles to support EMA Coordinator for BERKS County.
- (4) 1-109 Inf provides backup support for 2-111 Inf.
- c. Attachments and Detachments. Task organization. On order, unit NBC Monitoring Teams will be OPCON to this Headquarters.
- d. Assumptions.
 - (1) Para 1f, OPLAN 3-80 (OPERATION NUKE II), TAGPA.
 - (2) Sufficient supplemental transportation can be procured and deployed to each Rifle Company within Alert +6 hours. (3 to 6 2 1/2 ton trks per unit).
 - (3) Units will alert, assemble and outload for movement within 6 hours following notification.
 - (4) Missions will be tailored to the capabilities of the units.

2. MISSION

2-111 Inf, on order, alerts and assembles at home armories; prepares for deployment to forward assembly areas in CHESTER County; supports EMA Officials in evacuation, traffic control, security, and other missions as requested.

3. EXECUTION

- a. Concept of Operation. 2-111 Inf alerts, assembles, and deploys Co's B and C to forward assembly area via Phoenixville Armory with HHC, CSC, and Co A establishing assembly areas at their respective armories. Battalion prepares for employment in support of CHESTER County EMA with units operating in sectors to be assigned, controlling traffic; assisting in evacuation of refugees; preventing reentry; search and rescue; providing limited transportation; and security as directed.
- b. Company A:
- c. Company B: Move to forward assembly area vic Phoenixville Armory, on order, via US 322N to US 1S to US 202N to PA Rt. 100N to PA Rt. 113E.
- d. Company C: Move to forward assembly area vic Phoenixville Armory, on order, via US 1S to US 202N to PA Rt. 100N to PA Rt. 113E.
- e. CSC: Be prepared for deployment of traffic control parties prior to A +6 hours.

- f. Liason Team: S3 Air and Tac Intel Off designated as Liason Officers; report to Chester County EMA, 14 East Biddle Street, West Chester, PA, phone 315-431-6160, on order. Provide hourly SITREPs to this Headquarters and other instructions/missions as required.
- g. Coordinating Instructions.
 - (1) MOE Loading Plan in effect.
 - (2) Report immediately when prepared for deployment.
 - (3) Be prepared for Command and Staff briefings prior to deployment.
 - (4) This plan is effective for planning upon receipt and execution on order.

4. SERVICE SUPPORT

a. Supply.

- (1) Class I: S4 to advise units of local purchase authorizations. Plan for first meal from pre-arranged MOB Plan contingency.
- (2) Class II & IV: Uniform and equipment TBA with Alert Message. Plan for Combat Routine (seasonal) and personal items to sustain not less than seven days of employments.
- (3) Class III: Vehicles to be "topped-off" at all times. Upon receipt of alert notification, Support Platoon to move tanker to West Chester Armory. Units operating from Phoenixville Armory, supply point distribution from in-ground tanks.
- (4) Class V: No anticipated.
- (5) Class VI: S1 establishes procedures through S4, as required.
- (6) Class VII: Submit requirements to S4 as determined.
- (7) Class VIII: Resupply through 103d Medical Bn.
- (8) Class IX: Requests through S4 to OMS #4.
- (9) Class X: Support, if required, only through authorization of this Headquarters.

b. Services.

- (1) Transportation: Cos B and C prepare to dispatch a vehicle to transport qualified drivers to pickup point for supplemental transportation ASAP following Alert.

- (2) Maintenance: Field Trains located at OMS #4; dispatch Contact Team to West Chester Armory ASAP following Alert.
- (3) Medical: Bn Aid Station located at Phoenixville Armory. Normal medical attachments to units upon arrival at forward assembly area; one AMBO and normal attachments to Co A, ASAP following Alert. On order, provide support to civilian agencies as required.
- (4) Morale and Welfare: Bn S1 and CSM develop morale support activities as required.
- (5) Discipline Law and Order: PMR 27-10. Bn S1 is Bn Investigation and Summary Court Officer. Report incidents to Bn NLT A+2 and again at A+6 or as they occur. Commanders responsible for troop information and convoy briefings NLT Deployment minus one hour.

5. COMMAND AND SIGNAL

a. Signal.

- (1) Current CEOI in effect. Day/Period TBA with Alert Message.
- (2) Primary means of communication prior to deployment: Commercial Telephone.
- (3) Co A establish radio contact with this headquarters ASAP following Alert.
- (4) Primary means of communications after deployment: Tactical FM Radio.

b. Command.

- (1) CP located at Phoenixville Armory.
- (2) Command Group initially at Phoenixville Armory.

Acknowledge.

CARTER
LTC

OFFICIAL:

HAENN
S3

Distribution:

TAGPA (2)
28th Inf Div (2)
TF 56 (5)
1-111 Inf (2)
1-103 Engr (2)
1-109 (M) Inf (2)
Chester County EMA (2)
Ea Unit (2)
Ea Staff Off (1)
File (3)
Extra (15)

ANNEX I

TRANSPORTATION

I. PURPOSE

To establish procedures for transportation support of emergency operations to include an evacuation of the population within the plume exposure pathway EPZ.

II. RESPONSIBILITY

The Chester County Director of Emergency Services is responsible for providing transportation support to persons in risk areas of Chester County in the event of an evacuation associated with an incident at the Limerick Generating Station. A Transportation Group Chief has been appointed to develop and coordinate transportation procedures and requirements in the event of an evacuation.

III. REQUIREMENTS

Transportation will be provided for three groups within Chester County. The first group consists of persons requiring medical evacuation. This group includes persons receiving care in hospitals, nursing homes, extended care facilities, and homebound invalids. The second group consists of school children while school is in session. The third group consists of those persons within the EPZ without automobile transportation. An inventory of county transportation resources will be maintained.

IV. SITUATION/ASSUMPTIONS

- A. The principal means of relocation in the event of an evacuation associated with an incident at the Limerick Generating Station for persons living, working and traveling in affected areas of Chester County is the private automobile, augmented by other transportation.
- B. A transportation staging area will be used for the positioning and assignment of transportation resources support such as ambulances and buses that may be called upon in the event of an evacuation. Any transportation resource not assigned to a specific location in the EPZ should report to the staging area for assignment.

V. CONCEPT OF OPERATIONS

The Transportation Group Chief is responsible for the following actions:

A. Unusual Event

No actions necessary.

B. Alert

1. When notified, the Transportation Group Chief reports to the County EOC. Transportation Coordinator notifies county bus companies of the situation and the possible need for their resources.
2. The Transportation Group Chief receives/requests an update of transportation requirements from municipalities, school districts and special facilities.
3. Notifies air and rail transportation systems operating within the plume exposure pathway EPZ and advises them of the situation.
4. Notifies transportation providers of the situation.

C. Site Emergency

1. Complete appropriate actions shown for Alert.
2. Mobilize the EOC Transportation staff.
3. Mobilize the transportation staging area staff and facility (Note: Activation of the transportation staging area may occur at Site Emergency; if so, follow additional procedures under General Emergency).
4. Notify risk school district superintendents, private schools and colleges and private bus resources to mobilize buses and drivers needed for evacuation, identify transportation needs, and report unmet needs to the County EOC.
5. As required, recommend to the County Director of Emergency Services the movement of buses and ambulances into the transportation staging area. (Note: Coordinate this recommendation with the Medical/EMS Group Chief.)
6. Confirm the mobilization of ambulance resources with the Medical/EMS Group Chief.
7. Mobilize transportation resources needed for the pick up of residents without transportation.
8. Confirm distribution of dosimetry and KI to the transportation staging area.

D. General Emergency

1. Complete appropriate actions shown for Site Emergency.
2. Activate the transportation staging area.

3. Implement planned transportation resource movement if evacuation is recommended, including pick up points for persons within the EPZ without transportation.
4. Provide additional transportation support to municipalities, as requested.
5. Dispatch buses and ambulances to facilities and municipalities as required to supplement planned assignments or as requested by the Medical/EMS Group Chief.
6. Report additional required transportation needs to PEMA, if unavailable from county resources.
7. Order vehicles completing assignments to return to transportation staging areas for reassignment or release.
8. Arrange bus resources required to move school students from host schools to Downingtown High School at 8 p.m. at staging area. (Note: Coordinate movement with School Services Officer.)
9. If a protective action is recommended, request transportation providers to re-route all non-emergency transportation outside of the EPZ.
10. If bus or ambulance resources will be required within the EPZ beyond the time frame for the general evacuation, issue dosimetry and KI to drivers at the transportation staging area.

APPENDICES

1. Transportation Resources
2. Chester County Bus Requirements For Special Facilities and Persons Without Transportation
3. Chester County Bus Requirements for Special Facilities
4. Transportation Systems Within the EPZ
5. Municipal Pick-Up Points

APPENDIX 1

ANNEX I

TRANSPORTATION RESOURCES

I. AMBULANCE RESOURCES

	<u>Total</u>
1. Berwyn Fire Company	2
2. Paoli Fire Company	1
3. Malvern Fire Company	2
4. East Whiteland Fire Company	1
5. Union Fire Company No. 1	2
6. West Grove Fire Company	2
7. Avondale Fire Company	1
8. Kennett Fire Company No. 1	2
9. Parksburg Fire Company	2
10. Pomeroy Fire Company	1
11. Elverson Fire Company	2
12. Honeybrook Fire Company	2
13. Martins Corner Fire Company	2
14. Unionville Ambulance Corp.	1
15. Modena Fire Company	2
16. Washington Hose Fire Co. No. 1	2
17. West End Fire Company No. 3	1
18. Minquas Fire Company No. 2	2
19. Uwchlan Ambulance Corps.	2
20. Goshen Fire Company	3
21. Good Fellowship Ambulance Club	5
22. West End Fire Company #3 Ambulance	3
23. Spring Ford Rescue	1
24. Spring City Ambulance	1
TOTAL AMBULANCES	45

II. BUS RESOURCES

	<u>Large Bus</u>	<u>Small Bus</u>	<u>Van</u>
Althouse Transportation Cochranville	28		
Chester County PARATRANSIT System (Krapf Coaches)			23
Chester County Sheriff/Prison		1	5
Chester County Library			1
Robert Duvall West Grove	13		
Fetters Downingtown	17		
William Gross ¹ Bechtelsville (Berks County)	118		7
Kennett Consolidated School District	28		
Krapf Coaches Guthriesville	159	35	
Pocopsin Home (County)			2
Reeder Bus Lines Modena	13		
Royal Limousine Coatesville		2	10
William Swisher New London	14		
Tredyfrin Easttown School District	42		
Unionville-Chadds Ford School District	27	10	
Werner Bus Lines Phoenixville	38		
	—	—	—
	497	48	48

¹ Includes buses assigned to Chester County School Districts only.

APPENDIX 2

ANNEX I

CHESTER COUNTY BUS REQUIREMENTS

I. PERSONS WITHOUT TRANSPORTATION

<u>MUNICIPALITY</u>	<u>PERSONS W/O TRANSPORTATION</u> ¹	<u>BUSES REQUIRED</u> ²
Charlestown	23	1
E. Coventry	62	2
E. Nantmeal	172	5
E. Pikeland	29	1
E. Vincent	50	2
N. Coventry	220	6
Phoenixville	308	8
Schuylkill	48	2
S. Coventry	19	1
Spring City	89	3
Upper Uwchlan	14	1
W. Pikeland	12	1
W. Vincent	<u>179</u>	<u>5</u>
TOTAL	1225	38

II. SPECIAL FACILITIES

	<u>BUSES REQUIRED</u>
Coventry Manor	1
Manatawny Manor	5
Phoenixville Hosp.	4
Phoenixville Manor	<u>3</u>
	13

¹ Based on initial results of mail survey.
² Average 40 persons per bus.

APPENDIX 3

ANNEX I

CHESTER COUNTY AMBULANCE REQUIREMENTS

I. HOMEBOUND PERSONS

<u>Municipality</u>	<u>Persons</u> ¹	<u>Ambulances Required</u> ²
1. Charlestown	1	1
2. East Coventry	4	2
3. East Nantmeal	1	1
4. East Pikeland	2	1
5. East Vincent	6	3
6. North Coventry	11	6
7. Phoenixville	20	10
8. Schuylkill	10	5
9. South Coventry	0	0
10. Spring City	5	3
11. Upper Uwchlan	0	0
12. Uwchlan	0	0
13. Warwick	0	0
14. West Pikeland	2	1
15. West Vincent	<u>3</u>	<u>2</u>
	57	35

II. SPECIAL FACILITY AMBULANCE REQUIREMENTS

Coventry Manor	6
Manatawny Manor	10
Phoenixville Hospital	20
Phoenixville Manor	<u>10</u>
	46

¹ Based on public survey.

² Based on two patients per ambulance.

APPENDIX 4

ANNEX I

AIR AND RAIL TRANSPORTATION SYSTEMS OPERATING IN THE EPZ

Note: The following list includes rail and air carriers servicing Chester County which may not be immediately aware of an emergency at the Limerick Generating Station.

I. Railways

- A. AMTRAK: Contact the Fort Washington Reservation Center*
- B. CONRAIL: Contact Division Superintendent (Harrisburg)*

II. Airports

- A. Brandywine Airport: Contact (1) Hal Culp*
(2) Mike Bowe*
- B. Chester County Airport: Contact Fixed Base Operator, or
duty person.

* Telephone numbers are on file at the Chester County EOC.

APPENDIX 5

ANNEX I

MUNICIPAL PICK-UP POINTS

- I. Phoenixville Borough:
1. Friendship Field
Holy Trinity Parking Lot
Polish Club Parking Lot
 2. Starr and Church Streets Parking Lot
Reeves Park
Acme Parking Lot
 3. Prospect St. Parking Lot
Presbyterian Church Parking Lot
Barkley School
Vics Exxon
High School Stadium
 4. West Company Parking Lot
West Company Annex Parking Lot
Rear of Val Rio Dinner
DeSano - Babe Ruth Field Parking Area
- II. Spring City Borough:
1. Church St. and Yost Avenue
 2. Church St. and New St.
 3. Church St. and Hall St.
 4. Church St. and Chestnut St.
 5. Church St. and Poplar St.
 6. Church St. and Washington St.
 7. Church St. and Walnut St.
 8. Church St. and Pikeland Ave.
 9. Main St. and Walnut St.
 10. Main St. and Poplar St.
 11. Main St. and Chestnut St.
 12. Main St. and Hall St.
 13. Main St. and New St.
 14. Main St. and Yost Ave.
 15. Main St. and Bridge St.
 16. Bridge St. and Church St.
 17. Bridge St. and Penn St.
 18. Penn St. and Bridge Ave.
 19. Bridge Ave. and Glass St.
 20. Bridge St. and Glass St.

All other Chester County municipalities within the plume exposure pathway EPZ have elected to provide door-to-door pick-up of residents without transportation. Due to their more rural location, door-to-door pick-up is considered more feasible and effective than establishing designated pick-up points.

ANNEX J
EVACUATION

I. PURPOSE

To establish policies and procedures for a selective or general evacuation of the population within the plume exposure pathway EPZ of the Limerick Generating Station in the event of an incident at the facility.

II. DEFINITIONS

- A. A Selective Evacuation includes persons within a specified category, i.e., pregnant women, preschool children and individuals judged by medical authorities to be unduly susceptible to the hazards of radiation.
- B. A General Evacuation would involve the movement of the entire population from the plume exposure pathway EPZ, and is a worst-case situation.

III. RESPONSIBILITY

- A. The responsibility for evacuation rests with the Chester County Commissioners and elected municipal officials upon an evacuation order from the Governor of the Commonwealth of Pennsylvania. The County Commissioners may recommend an evacuation, but they cannot compel it.
- B. The Chester County Director of Emergency Services will coordinate all evacuation procedures supported by State, county and municipal forces.

IV. SITUATION

Municipalities located, in whole or in part, within the Limerick Plume Exposure Pathway EPZ in Chester County include:

	<u>1980 Pop.</u>	<u>% Pop. in EPZ</u>	<u>Pop. in EPZ</u>	<u>50% Mass Care</u>
Charlestown Township	2270	100	2270	1385
East Coventry Township	4085	100	4085	2042
East Nantmeal Township	1222	100	1222	611
East Pikeland Township	4410	100	4410	2205
East Vincent Township	4739	100	4739	2370
North Coventry Township	7164	100	7164	3582
Phoenixville Borough	14,165	100	14,165	7082
Schuylkill Township	5993	100	5993	2996
South Coventry Township	1556	100	1556	778

Spring City Borough	3389	100	3389	1695
Upper Uwchlan Township	1805	61	1103	552
Uwchlan Township	8364	3	250	125
Warwick Township	2350	90	2115	1058
West Pikeland Township	1536	100	1536	768
West Vincent Township	1992	100	1992	996
Total	67,421	84(Avg.)	56,489	28,245

The total resident population of the Chester County section of the Plume Exposure Pathway EPZ is approximately 56,489. See Appendix 3 for a graphic representation of population by sector within 10 miles of the Limerick Generating Station.

V. ASSUMPTIONS

- A. A Selective Evacuation would not be implemented until a Site or General Emergency has been reached. A general evacuation would not be implemented until a General Emergency condition has been reached.
- B. At least 50% of the population in the plume exposure pathway EPZ will make independent arrangements for relocation if evacuation becomes necessary.
- C. Any evacuation carried out under the provisions of this Plan will be based on a 360° plume exposure pathway EPZ, not on a sector basis.

VI. CONCEPT OF OPERATIONS

Actions taken to implement a selective or general evacuation of the plume exposure pathway EPZ are contained in Section VIII D, "Concept of Operations," of the Chester County Plan. They are accomplished by the combined and coordinated efforts of the county and municipal EOC staffs, who in turn, are supported by State agencies as coordinated by PEMA. Federal assistance, if required, is requested through PEMA.

APPENDICES:

1. Evacuation Routes and Reception Centers
2. Evacuation Time Estimates
3. Population Data by Sector

APPENDIX 1

ANNEX J

EVACUATION ROUTES AND RECEPTION CENTERS

<u>Municipality</u>	<u>Evacuation Route</u>	<u>Reception Center</u>
Charlestown Township	29 South	Stetson Middle School
East Coventry Township	23 West	Morgan Corporation
East Nantmeal Township (West)	23 West	Morgan Corporation
East Nantmeal Township (East)	100 South (to 113 S)	Downingtown High School
East Pikeland Township	113 South (to Gordon Drive to 100 S)	West Whiteland Twp. Bldg.
East Vincent Township	23 East (to 113 S)	West Whiteland Twp. Bldg.
North Coventry Township (North)	724 West	Cumru Elementary
North Coventry Township (South)	100 South (to 23 W)	Morgan Corporation
Phoenixville Borough (North)	23 East (to 202 S)	Stetson Middle School
Phoenixville Borough (South)	29 South (to 202 S)	Stetson Middle School
Schuylkill Township (East)	23 East (to 202 S)	Stetson Middle School
Schuylkill Township (West)	29 South (to 202 S)	Stetson Middle School
South Coventry Township	23 West	Morgan Corporation
Spring City Borough	724 East (to 113 S)	West Whiteland Twp. Bldg.
Upper Uwchlan	100 South (to 113 S)	Downingtown High School
Uwchlan Township	113 South (to Gordon Drive)	West Whiteland Twp. Bldg.
Warwick Township	23 West	Morgan Corporation
West Pikeland Township	113 South (to Gordon Drive to 100 S)	West Whiteland Twp. Bldg.
West Vincent Township	100 South (to 113 S)	Downingtown High School

Note: See the Evacuation Plan Map, Annex W, Appendix 3, for a graphic representation of the above.

APPENDIX 2

ANNEX J

EVACUATION TIME ESTIMATES

A traffic analysis conducted by the Pennsylvania Department of Transportation for the plume EPZ indicates the following:

- I. For the municipalities (or portions thereof) of North Coventry, East Coventry, South Coventry, Warwick and East Nantmeal evacuating via Route 23 West, it would take an estimated 3586 vehicles four hours to leave the EPZ.
- II. For the municipalities (or portions thereof) of East Vincent, Spring City, East Pikeland, and West Pikeland evacuating via Route 113 South, it would take an estimated 4666 vehicles five hours to leave the EPZ.
- III. For the municipalities (or portions thereof) of East Nantmeal, South Coventry, West Vincent and Upper Uwchlan evacuating via Route 100 South, it would take an estimated 1278 vehicles two hours to leave the EPZ.
- IV. For the municipalities (or portions thereof) of Phoenixville, Schuylkill, and Charlestown evacuating via Route 29 South, it would take an estimated 3421 vehicles four hours to leave the EPZ.
- V. For the municipalities (or portions thereof) of Phoenixville and Schuylkill evacuating via Route 23 East to 202 South, it would take an estimated 4222 vehicles four hours to leave the EPZ.

The maximum evacuation time estimated by PennDot for Chester County is five (5) hours. See the Evacuation Plan Map, Annex W, Appendix 3.

A detailed evacuation time estimate has been prepared by HMM Associates under contract to the Philadelphia Electric Company. The summary results of that estimate for the entire plume exposure pathway EPZ are as follows:

Winter week day, fair weather: 4 hours, 50 minutes

Winter week night, fair weather: 4 hours, 15 minutes

Summer Weekend, fair weather: 4 hours, 45 minutes

Winter week day, adverse weather: 6 hours, 45 minutes

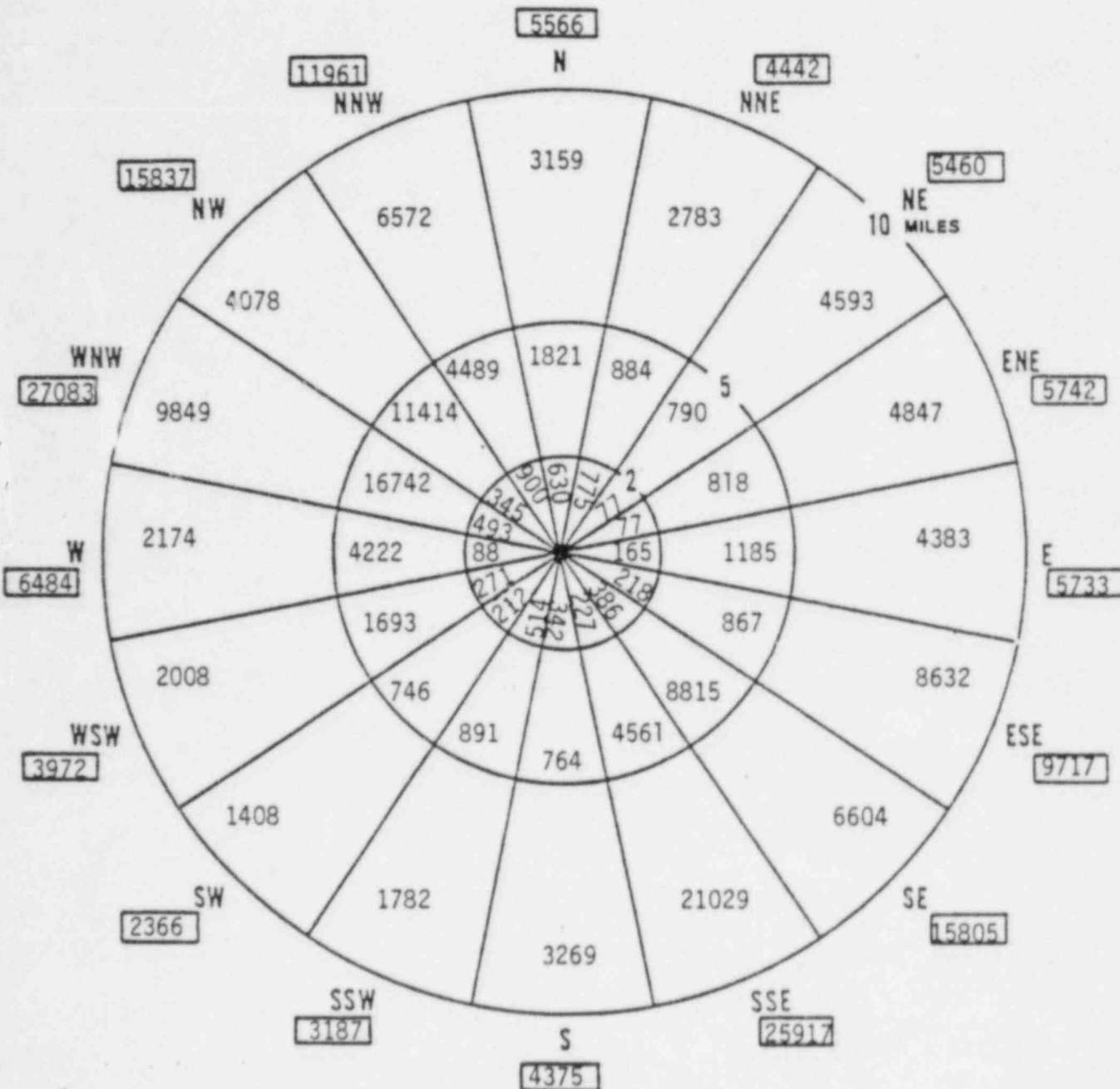
Summer weekend, adverse weather: 5 hours, 50 minutes

A complete copy of the evacuation time estimate is maintained on file in the County EOC.

APPENDIX 3

ANNEX J

POPULATION DATA BY SECTOR



POPULATION TOTALS			
RING, MILES	RING POPULATION	TOTAL MILES	CUMULATIVE POPULATION
0-2	5,720	0-2	5,720
2-5	60,658	0-5	66,378
5-10	87,169	0-10	153,547

NOTE: These figures are based on a residential meter count conducted by Philadelphia Electric in May 1980. The population total shown here is not the same as the plume EPZ population since the plume EPZ extends beyond ten miles in many instances.

ANNEX K
TRAFFIC CONTROL

I. PURPOSE

To establish procedures for traffic control in support of emergency operations to include an evacuation of residents and transients from within the plume exposure pathway EPZ in the event of an incident at the Limerick Generating Station.

II. RESPONSIBILITY

Primary responsibility for development of plans for traffic control in the event of an emergency at the Limerick Generating Station rests with local and State Police. The Chester County Police Group, in cooperation with the Pennsylvania State Police and municipal police forces, is responsible for the execution of traffic control plans. Removal of traffic obstructions will be coordinated by the Public Works Group supporting the evacuation effort within the County.

III. REQUIREMENTS

To ensure an orderly flow of traffic in the event of an evacuation, control points must be established at major intersections along main evacuation routes. Municipal police forces are responsible for traffic flow within their municipalities. The Pennsylvania Department of Transportation will assist with the clearance of obstacles on main evacuation routes. The Pennsylvania National Guard will provide wreckers and gasoline trucks as available to service vehicles along major evacuation routes. Municipal unmet needs will be responded to by the Public Works Group. Additional private commercial resources will be coordinated by the county as needed.

IV. CONCEPT OF OPERATIONS

A. Unusual Event

1. Provide site support services if requested.

B. Alert

1. Provide site support services if requested.
2. If requested, the Police Services Group Chief and the Public Works Group Chief report to the Chester County EOC.
3. Police departments within the plume EPZ are notified and placed on standby.

C. Site Emergency

1. Same actions as shown for Alert.
2. The Police Services Group Coordinator and the Public Works Group Chief report to Chester County EOC.
3. Mobilize police departments located within the plume exposure pathway EPZ. All county police departments are notified of the situation.
4. Public Works Group should review roadway clearance and fuel truck resource availability and respond to municipal unmet needs.
5. Public Works Group Chief notifies roadway clearance and fuel resources and places them on standby status.
6. Make preliminary traffic control and access control assignments.

D. General Emergency

1. Complete all appropriate actions shown for Site Emergency.
2. If evacuation is the recommended protective action:
 - a. The Police Group Chief, in coordination with the PSP liaison, ensures that Traffic Control Points are manned in preparation for evacuation.
 - b. The Public Works Group Chief mobilizes necessary roadway clearance and fuel resources.
 - c. The Public Works Group Chief notifies the Pennsylvania Department of Transportation through PEMA regarding clearance of obstacles on main evacuation which are unable to be removed by municipal/county resources.
 - d. The Police Group Chief ensures personnel manning traffic control points along evacuation routes facilitate the movement of buses and emergency vehicles.
 - e. The Police Group Chief instructs municipal police departments to render situation reports periodically.
3. Reentry
 - a. The Police Group Chief ensures that municipalities prepare to man traffic control points upon notification of authorization for reentry.

APPENDICES:

1. Chester County Traffic Control Points

APPENDIX 1

ANNEX K

CHESTER COUNTY TRAFFIC CONTROL POINTS

<u>POST</u>	<u>LOCATION</u>	<u>TOWNSHIP</u>	<u>NO. PERSONNEL</u>	<u>RESPONSIBLE ORGANIZATION</u>
25*	Rt. 401 & Rt. 345	East Nantmeal	2	Pennsylvania State Police (PSP)
26	Rt. 401 & Rt. 82	Elverson Boro	2	PSP
27	Rt. 82 & Rt. 23	Elverson Boro	2	PSP
28*	Rt. 345 & Rt. 23	Warwick	2	PSP
29	Rt. 23 & St. Peters Road (LR 15131)	Warwick	2	PSP
30	Rt. 23 & Crventryville Road (T517)	South Coventry	2	PSP
31	Rt. 23 & Rt. 100	South Coventry	2	PSP
32	Rt. 23 & Bertolett School Road	East Vincent	2	PSP
34	Rt. 100 & Horseshoe Trail (T509)	West Vincent	2	PSP
35	Rt. 100 & Rt. 401	West Vincent	2	PSP
36	Rt. 401 & St. Matthews (LR 15079)	West Vincent	2	PSP
37	Rt. 100 & Fellowship Road (T464)	Upper Uwchlan	2	PSP
38	Rt. 100 & Little Conestoga Ro (LR 15052)	Upper Uwchlan	2	PSP
39	Rt. 100 & Rt. 113	Uwchlan	2	PSP
40	Rt. 113 & Rt. 30 By Pass	East Caln	2	PSP
41	New St. (T569) & Rt. 724	East Vincent	2	PSP

42	Rt. 724 & Rt. 23	East Pikeland	2	PSP
43	Rt. 401 & Rt. 113	West Pikeland	2	PSP
44*	Rt. 29 (Morehall) & Charlestown Road (15050)	Charlestown	2	PSP
C-1	Rt. 401/Valley Hill Road	Charlestown		PSP
45*	Rt. 29 (Morehall) & South White Horse Road (15134)	Charlestown	2	PSP
46	Rt. 202 & Rt. 29	East Whiteland	2	PSP
	Sidley Road/Phoenixville Pike	East Whiteland	1	East Whiteland Twp. P.D.
CE-1	Rt. 23/Morgan Corporation	Caernarvon (Berks)	1	Caernarvon Twp. P.D. (Berks)
EB-1	Rt. 282/Dorlans Mill Road	East Brandywine	1	East Brandywine Twp. P.D.
EC-1	Bethel Church Rd./ Rte. 23	East Coventry	1	East Coventry Twp. P.D.
EC-2	Bethel Church Rd./ Rte. 724	East Coventry	1	East Coventry Twp. P.D.
EC-3	Old Schuylkill Rd./ Rte. 724	East Coventry	1	East Coventry Twp. P.D.
EC-4	Sanatoga Rd./Rte. 724	East Coventry	1	East Coventry Twp. P.D.
EP-1	Pikeland Avenue/Rt. 724	East Pikeland	1	East Pikeland Twp. P.D.
EP-2	Township Line Road/Rt. 113	East Pikeland	1	East Pikeland Twp. P.D.
EP-3	Rt. 113/Rapps Dam Road	East Pikeland	1	East Pikeland Twp. P.D.
EP-4	Rt. 113/Hares Hill Road	East Pikeland	1	East Pikeland Twp. P.D.
EP-5	Rt. 113/Cold Stream Road	East Pikeland	1	East Pikeland Twp. P.D.
EV-1	Rt. 724/Bridge Street	East Vincent	1	East Vincent Twp. P.D.

EV-2	Rt. 724/New Street	East Vincent	1	East Vincent Twp. P.D.
EV-3	Rt. 724/Hill Church Road	East Vincent	1	East Vincent Twp. P.D.
EV-4	Rt. 724/Stony Run Road	East Vincent	1	East Vincent Twp. P.D.
EV-5	Pennhurst Road/Bridge Street	East Vincent	1	East Vincent Twp. P.D.
NC-1	Rt. 724/Keim Street	North Coventry	1	North Coventry Twp. P.D.
NC-2	Rt. 724/Hanover Street	North Coventry	1	North Coventry Twp. P.D.
NC-3	Rt. 100/Rt. 724	North Coventry	2	North Coventry Twp. P.D.
NC-4	Rt. 100/South Hanover Street	North Coventry	1	North Coventry Twp. P.D.
NC-5	S. Hanover St./Cedarville Road	North Coventry	1	North Coventry Twp. P.D.
NC-6	Laurelwood Drive/Rt. 724	North Coventry	1	North Coventry Twp. P.D.
NC-7	Rt. 100/Cedarville Road	North Coventry	1	North Coventry Twp. P.D.
P-1	Rte. 113 & Rte. 23	Phoenixville	1	Phoenixville P.D.
P-2	W. Bridge St. & Potthouse Road	Phoenixville	1	Phoenixville P.D.
P-3	Bridge St. & Nutt Road	Phoenixville	1	Phoenixville P.D.
P-4	Route 29 & Junior High School	Phoenixville	1	Phoenixville P.D.
P-5	Nutt Road & Lincoln Avenue	Phoenixville	1	Phoenixville P.D.
P-6	Gay Street & Nutt Road	Phoenixville	1	Phoenixville P.D.

P-7	Main Street & Nutt Road	Phoenixville	1	Phoenixville P.D.
P-8	Starr Street & Nutt Road	Phoenixville	1	Phoenixville P.D.
P-9	First Avenue & Gay Street	Phoenixville	1	Phoenixville P.D.
P-10	First Avenue & Main Street	Phoenixville	1	Phoenixville P.D.
P-11	First Ave. & Starr Street	Phoenixville	1	Phoenixville P.D.
P-12	Bridge St. & Buchanan Street	Phoenixville	1	Phoenixville P.D.
P-13	Gay Street & Bridge Street	Phoenixville	1	Phoenixville P.D.
P-14	Main Street & Bridge Street	Phoenixville	1	Phoenixville P.D.
P-15	Starr Street & Bridge Street	Phoenixville	1	Phoenixville P.D.
P-16	Phoenixville Hospital Exit to Route 29 & Phoenixville Manor	Phoenixville	1	Phoenixville P.D.
P-17	High Street & Franklin Avenue	Phoenixville	1	Phoenixville P.D.
P-18	Emmett Street & Dayton Street	Phoenixville	1	Phoenixville P.D.
P-19	Dayton Street & Freemont Street	Phoenixville	1	Phoenixville P.D.
P-20	Township Line Rd. & Fillmore Street	Phoenixville	1	Schuylkill Twp. P.D.
SK-1	Rt. 23/White Horse Road	Schuylkill	1	Schuylkill Twp. P.D.
SK-2	Pot House Road/Charlestown Road	Schuylkill	1	Schuylkill Twp. P.D.
SK-3	Pot House Road/White Horse Road	Schuylkill	1	Schuylkill Twp. P.D.

SK-4	Pot House Road/Rt. 29	Schuylkill	1	Schuylkill Twp. P.D.
SK-5	White Horse Rd./Valley Park Road	Schuylkill	1	Schuylkill Twp. P.D.
SK-6	White Horse Rd./Schuylkill Elementary Entrance	Schuylkill	1	Schuylkill Twp. P.D.
SK-7	Charlestown Road/Vo-Tech Entrance	Schuylkill	1	Schuylkill Twp. P.D.
SCF-1	Rt. 100/Pughtown Road	South Coventry	1	Fire Police
SCF-2	Rt. 100/Cadmus Street	South Coventry	1	Fire Police
SCB-1	Bridge Street/Main Street	Spring City	2	Spring City P.D.
SCB-2	Wall Street/Main Street	Spring City	1	Spring City P.D.
SCB-3	Pikeland Avenue/Wall Street	Spring City	1	Spring City P.D.
W-1	Rt. 23/Trythall Road	Warwick	1	PSP
W-2	Rt. 23/County Park Road	Warwick	1	PSP
WP-1	Rt. 113/Pikeland Road	West Pikeland	1	West Pikeland Twp. P.D.
U-1	Byers Road/Rt. 100	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
U-2	Township Line Rd./Rt. 100	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
U-3	Font Road/Rt. 100	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
U-4	Gordon Drive/Rt. 100	Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
U-5	Gordon Drive/Rt. 113	Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D. (Mutual Aid)

U-6	Park Entry Drive/Dorlans Mill Road	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D. (Mutual Aid)
U-7	Dorlans Mill Road/Fisher Road	Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D. (Mutual Aid)
WV-1	Birchrn Road/Rt. 100	West Vincent	1	W. Vincent Twp.
CALN-1	Rt. 322/Rt. 30	Caln	1	Caln Twp. P.D.
D-1	Rt. 322/Downingtown H.S. Entrance	Downingtown Boro	1	Downingtown P.D.
WHITE-1	Rt. 100/Twp. Bldg.	West Whiteland	2	West Whiteland Twp. P.D.
WHITE-2**	Rt. 100/Rt. 30	West Whiteland	2	West Whiteland Twp. P.D.
EW-1	Rt. 29/Rt. 202	E. Whiteland	1	East Whiteland Twp. P.D.
T-3**	Yellow Springs Road/Rt./252	Tredyffrin		Tredyffrin Twp. P.D.
T-4**	Rt. 252/Park Access Road	Tredyffrin		Tredyffrin Twp. P.D.
T-5**	Rt. 252/US 202 Bypass	Tredyffrin		Tredyffrin Twp. P.D.
T-6**	N. Gulph Road/Thomas Road	Tredyffrin		Tredyffrin Twp. P.D.
WEG-1**	Rt. 202/Rt. 322 at Stetson Middle School	Westtown Twp.	1	Westtown/East Goshen P.D.
WG-1**	Rt. 202/Rt. 322 at S. High St. Ramp	West Goshen	1	West Goshen P.D.

* Denotes Access Control and Traffic Control Points combined.

** Denotes Under Development.

ANNEX L

MASS CARE

I. PURPOSE

To describe procedures to be followed in the emergency activation and operation of mass care centers. Mass care centers will provide public shelter to persons who otherwise would have no place to stay during an evacuation of the Plume Exposure Pathway EPZ due to an incident at the Limerick Generating Station.

II. RESPONSIBILITY

The primary responsibility for the activation and operation of Chester County mass care centers rests with the County Director of Emergency Services together with the Mass Care Group Chief and his staff. The Red Cross will provide support in mass care operations. Decontamination teams will be present at mass care centers. The Decontamination Monitoring Team Chief will serve as liaison between Red Cross personnel and the County Department of Emergency Services at each mass care center.

III. REQUIREMENTS

A. The total Chester County population within the plume EPZ is approximately 56,489. Fifty percent or 28,245, is planned to require mass care. Berks County will receive 2082 of the total mass care number with 26,163 to be accommodated at mass care centers within Chester County.

B. All mass care centers, regardless of what area is evacuated, will be outside a 20-mile radius of the Limerick Generating Station.

IV. CONCEPT OF OPERATIONS

The Mass Care Group Chief, assisted by the Red Cross staff, is responsible for the following actions:

A. Unusual Event

No action required.

B. Alert

1. When requested, the Mass Care Group Chief reports to the EOC.
2. The Mass Care Group Chief alerts the members of his staff, the Southeastern Chapter of the American Red Cross, and other support staff, advising them of the situation.

3. Mass Care Group Chief contacts reception center facilities and managers.

C. Site Emergency

1. Same actions as shown for Alert.
2. Mass Care Group Chief reports to the EOC.
3. Mobilize Mass Care Group and Red Cross staff.
4. Request Southeastern Chapter Red Cross to alert volunteers.
5. Place reception centers and mass care centers on a standby status.
6. Coordinate with the Radiological Officer the assignment of radiological monitoring teams to appropriate mass care centers. Decontamination monitoring teams pick up their equipment and report to their assigned locations. Decontamination monitoring teams advise the mass care coordinator concerning monitoring and decontamination.
7. Coordinate with the Communications Officer the assignment of ARES communication units to mass care and reception centers, as required. ARES operators report to assigned locations and prepare to serve as alternate means of communication.

D. General Emergency

1. Complete appropriate actions shown for Site Emergency.
2. Activate reception centers and primary mass care centers.
3. Reception Centers will maintain radio contact with the County EOC. As each primary mass care center is filled, the County will be notified so that another (secondary) mass care center can be activated. Mass care centers will be opened sequentially in this manner.

APPENDICES:

1. Chester County Reception Centers and Mass Care Centers for Limerick Generating Station
2. Activation of Reception Centers
3. Map - Chester County Reception Centers
4. Activation of Mass Care Centers
5. Mass Care Center Registration Form
6. Kennels and Veterinarians

APPENDIX 1

ANNEX L

CHESTER COUNTY RECEPTION CENTERS AND MASS CARE CENTERS

FOR THE LIMERICK GENERATING STATION

I. RECEPTION CENTER: Morgan Corporation (Located in Berks County, but operated under the direction of Chester County DES)

A.	<u>Assigned Municipalities</u>	<u>Evacuating Population</u>	<u>Mass Care Requirement</u>
	1. North Coventry Township*	3000	1500
	2. South Coventry Township*	956	478
	3. East Nantmeal Township*	732	366
	4. Warwick Township	2115	1058
	5. East Coventry Township	<u>4085</u>	<u>2043</u>
	Total	10,888	5445

B.	<u>Assigned Mass Care Centers</u>	<u>Capacity</u>
	1. Octorara Middle School	3999
	2. Octorara High School	<u>3999</u>
	Total	7998

II. RECEPTION CENTER: Downingtown High School

A.	<u>Assigned Municipalities</u>	<u>Evacuating Population</u>	<u>Mass Care Requirement</u>
	1. South Coventry Township*	600	300
	2. East Nantmeal Township*	490	245
	3. West Vincent Township	1992	996
	4. Upper Uwchlan/Uwchlan Township	<u>1353</u>	<u>677</u>
	Total	4435	2218

B.	<u>Assigned Mass Care Centers</u>	<u>Capacity</u>
	1. Gordon Jr. High School	798
	2. South Brandywine Jr. High School	<u>2034</u>
	Total	2,832

* Other portions of these municipalities are assigned to another reception center. See Evacuation Plan Map, Annex W, Appendix 3.

III. RECEPTION CENTER: West Whiteland Township Building

A. <u>Assigned Municipalities</u>	<u>Evacuating Population</u>	<u>Mass Care Requirement</u>
1. Spring City Borough	3389	1695
2. East Vincent Township	4739	2370
3. East Pikeland Township	4410	2205
4. West Pikeland Township	<u>1536</u>	<u>768</u>
Total	14,074	7038

B. <u>Assigned Mass Care Centers</u>	<u>Capacity</u>
1. Scott Intermediate High School	2538
2. Carl Benner Jr. High School	1175
3. Unionville - Chadds Ford Middle School	2008
4. Unionville Elementary School	2046
5. Stetson Middle School	<u>1400</u>
Total	9167

IV. RECEPTION CENTER: Stetson Middle School

A. <u>Assigned Municipalities</u>	<u>Evacuating Population</u>	<u>Mass Care Requirement</u>
1. Charlestown Township	2770	1385
2. Schuylkill Township	5993	2997
3. Phoenixville Borough	<u>14,165</u>	<u>7083</u>
Total	22,928	11,465

B. <u>Assigned Mass Care Centers</u>	<u>Capacity</u>
1. Kennett Jr/Sr High School	3483
2. Mary D. Lang Elementary School	1800
3. Avon Grove Jr/Sr High School	2261
4. Fred S. Engle Middle School	3065
5. Lincoln University	<u>3996</u>
Total	14,605

Summary:

Total Evacuating Population:	56,489
Total Mass Care Requirement:	28,245
Total Designated Mass Care Space:	34,602

NOTE: The first two mass care facilities listed under each reception center are the "primary" mass care centers. These centers will be the first activated.

APPENDIX 2

ANNEX L

ACTIVATION OF RECEPTION CENTERS

I. ACTIVATION

The order to activate reception centers is issued by the Director of the Chester County Department of Emergency Services or his designee. Once the order to activate is issued, the Mass Care Group Chief is notified to contact reception center managers. Reception center managers are responsible for notifying and activating their respective staffs.

II. CONCEPT OF OPERATIONS

A. UNUSUAL EVENT:

No action required.

B. ALERT:

1. County DES Director notifies the Mass Care Group Chief.
2. Mass Care Group Chief notifies Reception Center Managers, informing them of the emergency status and instructing them to contact their respective staffs to assure availability.
3. Reception Center Managers notify staff and make preliminary assignments.
4. Mass Care Group Chief coordinates with the Communications and Police Group Chief on assignment of an ARES operator and traffic control personnel at reception centers.

C. SITE EMERGENCY

1. If this is the initial emergency level, perform all appropriate actions listed under ALERT above.
2. Mass Care Group Chief reports to the EOC and notifies Reception Center Managers to place reception centers on standby status.
3. Mass Care Group Chief confirms assignment of ARES and traffic control personnel with Communications and Police Group Chiefs, respectively.

4. Mass Care Group Chief contacts reception center facility owner/ operators to notify them of the need to utilize facilities.
5. Reception Center Managers notify staff to report to assigned reception centers and Managers pick up strip maps from the County EOC.
6. Upon arrival at reception center, Reception Center Manager briefs staff on emergency status and reviews responsibilities and procedures.
7. Reception Center Manager provides periodic status reports to the County EOC.

D. GENERAL EMERGENCY:

1. If this is the initial emergency level, perform all actions listed for SITE EMERGENCY above.
2. Activate reception centers:
 - a. Reception Center Manager will assign staff to distribute strip maps and to assist with internal traffic control.
 - b. ONE strip map will be given to EACH evacuee. Once all the strip maps to a particular mass care center have been distributed, meaning that mass care center is at its capacity, reception center personnel will begin distribution of the next set of strip maps.
 - c. Reception Center personnel will not divide family groups when distributing strip maps.
 - d. Reception Center Managers will keep the County EOC informed of mass care center needs through ARES.
3. Upon closing of the reception center, the Manager will take all necessary steps to return the facility to its original condition.
4. Upon conclusion of duties, the Reception Center Manager should prepare an after-action report to include:
 - a. Summary of all activities with statistics on the total number of evacuees processed.
 - b. Names and addresses of participating staff.
 - c. Message log.

APPENDIX 3

ANNEX L

MAP OF RECEPTION CENTERS

Map will be added upon plan completion.

APPENDIX 4

ANNEX L

ACTIVATION OF MASS CARE CENTERS

I. ACTIVATION ORDER

The order to activate one or more mass care centers is issued by the County Director of Emergency Services or his designee in his absence. Once the order to activate is issued, the Mass Care Officer or designated alternate is notified, who in turn notifies the appropriate Mass Care Center Managers.

II. ACTIONS OF MASS CARE CENTER MANAGERS

- A. Acknowledge receipt and make a written record of the information received, including date and time.
- B. Issue, directly or with assistance from other immediately available personnel, specific mobilization instructions to mass care center staff members assigned to the first shift and directly concerned with mass care center operations. (The call out of staff shall be conducted in accordance with Red Cross Standard Operating Procedures for Mobilization.)
- C. Issue, directly or with assistance, specific standby instructions for second, and if applicable, third shift mass care center personnel directly concerned with relief operations of the centers.
- D. Confirm with person in charge of the building the details of the predisaster agreements for operations, and then proceed to open the mass care center.
- E. Arrange for heating, lighting, cooking, sanitary facilities, water and for substitutes if regular facilities are disrupted. Obtain other supplies and additional equipment as previously planned.
- F. Request support through the County Mass Care Group Chief for required health, police and transportation services and supplies.
- G. Incoming mass care center staff will be briefed and assigned responsibilities and commence setting up activities.
- H. Use telephones when possible between the mass care center and the Emergency Operations Center and within the center itself. If telephones are unavailable, maintain communications via ARES or messenger service. A public address system may be utilized for announcements within the facility if desired.

- I. Upon arrival, evacuees will have been monitored for radiation exposure when BRP has directed that the situation warrants such and decontaminated if necessary (reference Annex M, Appendix 1). All persons will be registered and family units kept together if at all possible. Upon completion of registration, forward a copy of the registry to the Mass Care Coordinator located at the EOC.
- J. As each family or individual is registered, they are assigned space. Cots, blankets and chairs are furnished. If quantities are insufficient, then the infirm, aged, expectant mothers, mothers with infants and the handicapped should be given first consideration. Separate quarters are provided for unmarried men and unmarried women, if possible.
- K. Establish and enforce fire and safety regulations and arrange for adequate police and guard protection.
- L. Maintain records of all borrowed and purchased equipment and keep records of all mass care activities. Use this to compile a daily report to be submitted to the Mass Care Coordinator located at the Emergency Operations Center.
- M. Select an Advisory Council from those being cared for, which will assist the Mass Care Center Manager in enforcing health, sanitary, and safety regulations; assign duties to the center inhabitants and advise the manager and staff in dealing with mass care center problems. If the center operation is prolonged, it may be desirable for the Advisory Council to assist in establishing a recreation program.
- N. Provide for janitorial service and the maintenance of essential utilities (e.g., light, heat, water and toilets).
- O. Post large printed signs designating a place or rooms for men's toilet, women's toilet, registration and inquiry, information, monitoring/decontamination area, clothing and feeding; also, signs for smoking regulations, luggage storerooms, the manager's office and others as required.
- P. Bathing facilities should be provided for all persons, if possible, but especially for babies and small children. Shower facilities should be provided for the monitoring/decontamination process.
- Q. Feeding must be conducted in a separate room other than the sleeping quarters and space must be provided for a kitchen, dining room and a storage area or pantry storeroom adjacent to the kitchen.
- R. A room will be set aside as a clothing distribution point for providing suitable clothing as required, for individuals undergoing decontamination.

- S. A Registered Nurse should head the Mass Care Center Aid Station to assist persons requiring special care. If a Registered Nurse is not immediately available, the best-qualified medically trained individual should serve. Medical and nursing supplies should be stored in a location convenient to or within the emergency medical station.
- T. When the amount of supplies warrants it, the Mass Care Center Manager assigns a storekeeper to assist him. Duties are: receiving and checking incoming supplies and equipment, safeguarding supplies and equipment, maintaining an inventory and issuing properly requisitioned supplies-on-hand receipts. Articles stored for individuals housed within the mass care center will be plainly marked and stored at the owner's risk.
- U. Pets are not allowed in the human living area of mass care centers. The Mass Care Center Manager may try to provide for pets in a separate area or enclosure with pet owners required to provide for their care. Guide dogs for the handicapped are not considered to be in this category, and they will remain with their masters in the center. Where applicable, activate agreements made with the Humane Society for sheltering pets.
- V. After the mass care center has been closed, the manager will take the necessary steps to prepare the center and grounds for return to the owner. The manager will then prepare and submit a final report to the Mass Care Coordinator located at the Emergency Operations Center. The report shall be in accordance with established reporting policies and procedures.
- W. Report to the County Mass Care Coordinator, via telephone or ARES, at least once every two hours, the number of: (1) residents (2) persons monitored/decontaminated. Also report any special needs, problems, etc.

III. SPONTANEOUSLY ACTIVATED MASS CARE CENTERS

In times of emergency, it is quite possible that a designated mass care center, or even a facility not so designated, might be opened spontaneously. When that happens, it might be desirable to continue its operation. Upon request, the Red Cross may be able to provide a Mass Care Center Manager and assume responsibility from that point on for the management and funding of it. It should be made known to the person(s) responsible for the facility that Red Cross management must be accepted in order for the Red Cross to fund its operation, and any unusual costs incurred before the Red Cross assumes management responsibility are not the responsibility of the Red Cross. It is desirable to record this understanding in writing if possible, and to include appropriate notations in the log.

IV. RECORDS AND FISCAL MATTERS

A. Records

In addition to daily reports, agreements, supply requisitions and hand receipts for supplies, the following records shall be prepared:

1. A list of all equipment borrowed from government sources with instructions as to disposition when facilities are closed.
2. A list of all other equipment borrowed from private sources and its disposition. When the borrowed equipment is returned to private owners, a signed hand receipt should be obtained.
3. A list of all Red Cross-owned supplies and equipment with instructions regarding transfer to another disaster area or to storage.
4. Reports of loss or damage to both borrowed equipment and buildings.
5. A list of outstanding expenditures for direct purchases of supplies and services.
6. A final after-action report to include:
 - a. A complete summary of all activities including statistics on number housed, fed, given medical care, evacuated or received from other counties or states.
 - b. Names and addresses of all workers, both voluntary and paid.
 - c. Overall narrative report to include recommendations, changes in procedures, suggested improvements and repairs required relating to any damages to the facility or losses or damages to equipment.

B. Fiscal Matters

When a mass care center is operated by Red Cross Managers, the Red Cross will pay the operational costs of the center(s) as an outright grant.

V. USE OF GOVERNMENT DONATED FOOD

- A. Normally, if mass care centers are located in schools and school cafeterias are used, food supplies on hand are usually sufficient for immediate needs. Procurement of additional food supplies may be made per agreement with the Pennsylvania Department of Agriculture and the General Services Bureau of Government Donated Foods.

- B. The American Red Cross is authorized to make the necessary requests. Refer to Annex C of PEMA Emergency Management Directive No. 32, Development of a Mass Care Operational Program, November 14, 1980.

APPENDIX 5

ANNEX L

MASS CARE CENTER REGISTRATION FORM

Standard Form of American Red Cross will be used.

APPENDIX 6

ANNEX L

Kennels

Arundel Kennels
Mapleflower Road
Glenmoore, PA
942-2858

C M Kennels
106 W. Lancaster Pike
Malvern, PA
644-6918

Colechester Kennels LTD
C-Horse Farm
Chadds Ford, PA
388-6692

Hickory Smoke Kennels
Jefferies Road
Downingtown, PA
942-2211

King Kennels
Baltimore Pike
Concordville, PA
459-3013

Lenape Veterinary Clinic & Kennel
1430 Lenape Road
West Chester, PA 19380
793-2589

Steward Kennels
Pyle Road and Route 202
West Chester, PA
459-2724

Wolpert's Main Line Animal Inn
801 Matthews Road
Malvern, PA
647-4137

Veterinarians

Arnold, Maurice W.
Old Kennett Road
Kennett Square, PA
444-5365

Behler, Wiley V.
545 S. Warren Avenue
Malvern, PA
647-2626

Buckwalter, Robert C.
Pennell Road
Village Green, PA
494-5800

Butler, William F., Jr.
5804 Kennett Pike
Centerville, DE
302-655-3315

Cowan, Jas. H.
Strasburg Road and Route 82
Coatesville, PA
384-0731

Ernst, Marilyn
Stouff's Road
Thorndale, PA 19320
383-5528

Gray, Harry L.
Baltimore Pike
Chadds Ford, PA
GL9-0500

Harkins, Charles, Jr.
406 S. Whitford Road
Exton, PA
363-7333

Latto, Jane
725 E. Wash. Avenue
West Chester, PA
696-1585

Limberger, William A., Jr.
1117 Birmingham Road
West Chester, PA
696-7219

McCahon, J. V.
637 W. Lincoln Highway
Whitford, PA
269-0255

Menghetti, Victor A.
Baltimore Pike & Ridley Road
Media, PA
L06-1936

New Bolton Center
School of Veterinary Medicine
University of Pennsylvania
Street Road
Kennett Square, PA
444-5800

Oppenlander, G. F.
2305 White Horse Road
Berwyn, PA
644-1374
(Equine Practice only)

Pote, John L.
Route 82
Kennett Square, PA
444-0352

Rosenberg, Dan
1353 Pottstown Pike
West Chester, PA
692-7560

Schmucker, Bruce
535 Lancaster Pike
Frazer, PA
644-0757

Shaffer, Mead F.
Conchester Road
Boothwyn, PA
HU5-6007

Skinner, Donald A.
Conchester Road
Boothwyn, PA
HU5-6007

Stokes, Kenton S.
Route 352 and 926
West Chester, PA
399-1012

Tredyffrin & Veterinary Hospital
Dr. Carlton Hower
Dr. William Mekenney
1476 Lancaster Avenue
Paoli, PA
644-5360

Waltz, Harvey C.
1138 Pottstown Pike
West Chester, PA
696-3476

Weichelt, Willi K. E.
1141 West Chester Pike
West Chester, PA
696-8712

Willis, Ellsworth T.
3515 West Chester Pike
Newtown Square, PA
353-1881

Willowdale Veterinary Center
Route 82
Kennett Square, PA
444-0352

ANNEX M

RADIOLOGICAL EXPOSURE CONTROL

I. REFERENCES

- A. "Support Plan for Fixed Nuclear Incidents," Bureau of Radiation Protection, published as Appendix 12, Annex E, Commonwealth of Pennsylvania Disaster Operations Plan.
- B. Annex E, "Fixed Nuclear Facility Incidents," Commonwealth of Pennsylvania Disaster Operations Plan, November 1981.
- C. FEMA-REP-2, "Guidance on Offsite Emergency Radiation Measurement Systems, Phase 1 - Airborne Release," September 1980.
- D. NUREG-0654 (FEMA-REP-1), "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," Revision 1, November 1980.
- E. Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, U.S. Environmental Protection Agency, Office of Radiation Programs, Washington, D.C., June 1980.

II. DEFINITIONS

- A. Bureau of Radiation Protection (BRP) - The state agency upon whom the County DES will rely for incident assessment and plume monitoring services; BRP information will be disseminated by PEMA.
- B. CD V 700 - Survey meter (geiger counter) used to conduct decontamination monitoring.
- C. CD V 730 - A self-reading dosimeter with a scale from 0-20R.
- D. CD V 742 - A self-reading dosimeter with a scale from 0-200R.
- E. CD V 750 - The dosimeter charger used to charge (zero) the DCA-622, the CD V-730, and the CD V-742 dosimeters.
- F. DCA-622 - Abbreviation for Dosimetry Corporation of America model 622 self-reading dosimeter; has a 0-20R scale and is the commercial equivalent of the CD V-730.
- G. Decontamination Center - A facility co-located with each mass care center where evacuees may undergo decontamination monitoring and, if necessary, are decontaminated.
- H. Decontamination Monitoring - The process of checking a person or object with a survey meter to ascertain if the person or object is fouled with a radioactive substance.

- I. Decontamination Station - A facility located just outside the plume exposure pathway EPZ where emergency workers undergo decontamination monitoring and, if necessary, are decontaminated.
- J. Dosimeter Charger - CD V-750; a device used to zero self-reading dosimeters, which in this plan are the DCA-622, the CD V-730, and the CD V-742.
- K. Dosimeter/Dosimetry - Pocket size devices that measure accumulated exposure to radiation.
- L. Dosimeter Corporation of America Model 622 (abbreviated DCA-622) - A self-reading dosimeter with a 0-20R scale; the commercial equivalent of the CD V-730.
- M. Double clothing or rain gear protection - The donning of outer rain clothing (rain hat, coat and boots) by emergency workers as a protective measure to prevent radiocontamination directly on the body.
- N. Emergency Workers - In this appendix, those persons who could be exposed to radiation as a consequence of performing assigned tasks to meet an emergency situation. Included are all those persons deployed within the plume exposure pathway EPZ or assigned to decontamination monitoring duty. Generally, these persons will be assigned to: (1) emergency management agencies, (2) police departments, (3) fire companies, (4) ambulance services, (5) hospitals, or (6) are farmers who keep livestock within the plume exposure pathway EPZ.
- O. FRMAP - Abbreviation for Federal Radiological Monitoring and Assessment Plan; it is the federal government's plan for response to a fixed nuclear facility incident.
- P. KI - Chemical symbol for potassium iodide.
- Q. Personnel Monitoring - Refers to the use of dosimetry to alert the wearer to accumulated radiation which in turn provides a reasonable estimate of the rate at which radiation is being received.
- R. Potassium Iodide (chemical symbol KI) - A prophylactic drug that offers some protection to the thyroid gland from injury due to accumulation or radioiodine in the thyroid.
- S. Radiocontaminate/Radiocontamination - Refers to a radioactive substance as it comes in contact with people, objects or the environment.
- T. Radioiodine - Radioactive iodine.

- U. Rem - A unit of radiation measurement that is based upon effects as measured in the human body; in this plan Roentgen and rem are considered to be essentially the same.
- V. Roentgen (R) - A unit of measurement of x-ray or gamma radiation based upon effects as measured in the air (e.g., by the self-reading dosimeters, DCA-622, CD V-730, and CD V-742); in this plan Roentgen and rem are considered to be essentially the same.
- W. Survey Meter - In this plan the CD V-700; a geiger counter used to conduct decontamination monitoring.
- X. Thermoluminescent Dosimeter (TLD) - A crystalline dosimeter that measures radiation by the amount of luminescence induced in it. The crystal is mounted in a card. This type of dosimeter can only be read on a dosimeter reader.
- Y. TLD - Thermoluminescent dosimeter.
- Z. TLD Service Contractor - The service contractor providing TLD service in support of the Commonwealth's "Fixed Nuclear Facility Incidents" plan. The TLD service will include: provision of the TLDs; annual replacement; reading the TLDs during or after an incident and transmitting the data to BRP or PEMA.
- AA. Unit of Dosimetry-KI - The number of dosimeters and the amount of KI

to be issued to each emergency worker assigned within the plume exposure pathway EPZ consists of: one CD V-730 or one DCA-622; one CD V-742, one TLD, one Dosimetry-KI Report Form, and a fourteen day supply of KI for one person. Decontamination team members working outside the plume exposure pathway EPZ will have the same items with the exception of not having the CD V-730 or its commercial equivalent, the DCA-622.

III. PURPOSE

To specify the County's overall plan for radiation protection of the general public and offsite emergency workers, including incident assessment, radioactive plume monitoring, protective action measures, decontamination monitoring of the general public and offsite emergency workers to include their clothing and equipment, and disposal of radiologically contaminated waste. Information on evacuation and means of disseminating emergency information to the public is included in Annexes J and K respectively.

IV. CONCEPT OF OPERATIONS

- A. County Department of Emergency Services (DES)

The County DES will rely upon the Bureau of Radiation Protection, through PEMA, for incident assessment, field monitoring, and representation at the Onsite Emergency Operations Facility for the receipt, analysis, and coordination of field monitoring data.

The County DES will provide for: protection of emergency workers via training, distribution of dosimetry and KI; decontamination monitoring of the general public, as well as federal, state, county and municipal emergency workers; decontamination monitoring of pertinent personal items including vehicles and emergency equipment; appropriate medical referrals for further monitoring, decontamination and treatment; maintenance and distribution of dosimetry, chargers, survey meters, KI in tablet form and related record keeping forms to municipalities and decontamination centers; maintenance of a radiological exposure record system; certification of farmers as emergency workers for access to livestock kept within the plume exposure pathway EPZ; and training of personnel to carry out radiological exposure control plans.

B. Pennsylvania Emergency Management Agency (PEMA)

The Pennsylvania Emergency Management Agency: coordinates with BRP, the utility, other state agencies, federal government agencies and risk counties for protective actions of the public and emergency workers; provides counties during the emergency periodic situation reports including incident assessment and plume exposure information; specifies procedures for decontamination of emergency personnel and their clothing; assists FRMAP (Federal Radiological Monitoring and Assessment Plan) personnel with pertinent logistics information related to the disposal of radiation contaminated waste materials generated from the general public and offsite emergency workers; distributes dosimetry and KI to county emergency management agencies and specifies implementation of a comprehensive inventory-maintenance program for those items; collects TLDs and appropriate records from the county after each incident; assists the Department of Health with the distribution of potassium iodide.

C. Bureau of Radiation Protection (BRP)

The Bureau of Radiation Protection is the state agency that will conduct the technical tasks of incident assessment and air monitoring for detection and definition of the radioactive plume. BRP calculates projected radiation doses to the whole body and thyroid and reports these projections, as well as actual radiation exposure rates and total doses received by affected areas, to PEMA. BRP recommends protective actions based on its information and analysis of the situation. BRP interprets the Department of Environmental Resource's analysis of environmental, agricultural and foodstuffs sampling, and reports these findings, as appropriate, to PEMA, the Department of Health and the Department of Agriculture. BRP collates the state, federal and licensee data

for comprehensive technical analysis and transmits its information to PEMA who, in turn, relays appropriate information through emergency management channels.

D. TLD Service Contractor

During an incident and at PEMA's request, the TLD service contractor will conduct mechanical "reading" of the TLDs used by emergency workers. The contractor will relay the readings and related information to BRP or PEMA.

E. Municipal Governments

Each municipal government within the plume exposure pathway EPZ will assist the county in issuing dosimetry and KI to emergency workers within its area at the SITE EMERGENCY classification.

F. Emergency Workers

In addition to the performance of assigned tasks, emergency workers are responsible for utilizing their dosimeters, KI, and Dosimetry-KI Report Form as prescribed (reference Appendix 2, Section IV) and for undergoing decontamination monitoring (reference Appendix 1, Section I.D.).

The uppermost limit of radiation exposure is set by the Bureau of Radiation Protection (BRP) at 25 rem whole body exposure, and this limit should not be exceeded except for authorized life saving missions (reference Appendix 2, Section IV.B.4). Emergency workers should strive to keep any exposure as low as reasonably achievable (reference Appendix 2, Section IV).

G. Decontamination Monitoring Teams

Decontamination monitoring teams will monitor (meaning check with a CD V-700 survey meter) members of the public and emergency workers to ascertain if individuals are contaminated with a radiation emitting substance. BRP has set the action level for determining whether individuals are contaminated at 0.05 mR/hr (milliroentgens per hour) above background. If an individual is contaminated at 0.05 mR/hr above background or more, then the decontamination monitoring team must decontaminate the individual. Procedures for decontamination monitoring teams are included in Appendix 1 to this Annex.

V. RADIATION EXPOSURE CONTROL FOR THE GENERAL PUBLIC

A. Protective Actions

1. The County may receive recommendations for protective action measures from PEMA or the Limerick Generating Station.

2. The two primary protective action options for the general public are Sheltering and Evacuation; the plans for implementation of these are described in Annexes C, D, and J.

B. Decontamination Monitoring

The County DES is responsible for providing decontamination monitoring of the public housed at mass care centers located within the county. People evacuated to support counties will receive decontamination monitoring services from the respective support county. Utilizing trained radiation monitors equipped with survey meters, the public may be monitored for radiation contamination at mass care centers. Appendix 1 to this Annex sets forth the procedures for decontamination monitoring at mass care centers.

VI. EMERGENCY WORKER RADIATION EXPOSURE CONTROL

Unlike the general public, emergency workers with assignments within the plume exposure pathway EPZ are not always able to take shelter and they cannot evacuate the area due to their mission responsibility. Other protective measures available to emergency workers are enumerated below.

A. Dosimetry

1. Each emergency worker assigned tasks within the plume exposure pathway EPZ will be provided two self-reading dosimeters (one CD V-730 or one DCA-622, and one CD V-742) and one thermoluminescent dosimeter (TLD).* The self-reading dosimeters enable the worker to monitor himself during the emergency for total radiation dose received; the TLD is an independently read (by the TLD service contractor) device that is generally considered to be more dependable, accurate and precise than the self-reading dosimeters. Each emergency worker is responsible for following the dosimetry procedures, including record keeping. Appendix 2 to this Annex sets forth guidance and procedures related to dosimetry for emergency workers. Appendix 3 to the Annex is a distribution list which specifies the amounts of dosimetry, dosimeter chargers, bottles of KI (see paragraph B below), and survey meters (see paragraph V.B. above) for each particular emergency organization.
2. The "Receipt Form for Dosimetry-Survey Meters-KI" (reference Attachment E to Appendix 2) and the "Acknowledgement of Receipt by Emergency for Dosimetry-KI and Survey Meters" form (reference Attachment F to Appendix 2) will be used for inventory control of the equipment and KI distributed to emergency workers.

*Presently there are insufficient numbers of dosimeters on hand. PEMA is in the process of acquiring the dosimeters needed.

3. Federal and state government personnel are expected to provide their own dosimetry and thyroid gland radioprotective drugs.

B. Thyroid Gland Protective Drug

1. The accumulation of radioiodines (radioactive isotopes of the common element iodine) in the thyroid gland is a potential threat during a nuclear power plant incident. Potassium iodide (KI) is a drug that acts as a blocking agent to radioiodine, preventing the radioiodine from lodging in the thyroid gland.
2. KI tablets are predistributed with dosimetry by PEMA to the County DES, who will distribute it to risk municipalities at the ALERT classification. Individual workers will receive KI at SITE EMERGENCY. Liquid KI is predistributed by PEMA to risk hospitals for use by the hospital staff, medical complement, and the patients.
3. KI should be taken only on the advice of the Secretary of the Pennsylvania Department of Health. General information for the emergency worker regarding KI and protection of the thyroid gland is included in Appendix 2 to this Annex.

C. Double Clothing (Rain Gear) Protection

Emergency workers can use their personal rain gear as a prevention against deposition of contamination on the body and personal clothing/uniform. A rain hat or other head cover such as a helmet or winter hat, boots or galoshes with pant legs tucked in, rain coat or winter coat with the collar turned up, and gloves offer effective protection by minimizing skin and clothing/uniform exposure to contaminants that may be present. Extremes in the weather can make the use of double clothing extremely uncomfortable; therefore, BRP will issue an appropriate advisory through emergency management channels at the time of an incident if double clothing protection is to be employed.

D. Respiratory Protection

Should unforeseen circumstances occur whereby emergency workers would be temporarily exposed to a radioactive plume, they should improvise respiratory protective measures if regular respiratory protective gear is not available. BRP will send prompt notice through emergency management channels if respiratory protective measures for offsite emergency workers are recommended. Improvised respiratory protective measures included in BRP's plan are:

1. Sheltering in a vehicle or building that can be "buttoned-up" (windows, doors, and air vents closed).

2. Conscientiously covering the mouth and nose with a cloth or filtering device (suggested items include a folded handkerchief, 3 or 4 plys of toilet tissue, or a folded towel).

While these methods may not be fully effective against vapors and gasses, they can be effective temporary protection against radioactive particulates (until the plume passes or the offsite worker evacuates).

E. Decontamination Monitoring of Emergency Workers

1. Upon completion of his/her mission, each emergency worker must report to a decontamination monitoring station or mass care center to be monitored (and decontaminated, if necessary). Of course, the emergency workers performing decontamination monitoring at the mass care center will conduct decontamination monitoring for themselves.
2. Decontamination Stations for Emergency Workers are:
 - a. Elverson Fire Company, Hall Street, Elverson
 - b. Lionville Fire Company, Village Avenue, Lionville
 - c. Valley Forge Volunteer Fire Company, Valley Park Road, Valley Forge
3. Emergency workers may receive the same decontamination monitoring service at mass care/decontamination centers.
4. Whether at a decontamination station or mass care/ decontamination center, the same procedures for decontamination monitoring as specified for the general public apply to emergency workers with the exception of the thyroid check. Emergency workers should be monitored for accumulation of radioiodine in the thyroid gland (reference Appendix 1, Section II.B).

F. Radiological Training, Inventory, Maintenance and Record Keeping

With the assistance of PEMA, the County DES will ensure dosimetry training including dosimeter charging, dosimeter reading and recording of information.

Equipment and KI inventory and maintenance procedures with appropriate records are specified in Appendix 4 to this Annex.

Inventory control during the emergency will consist of a trail of accountability from each agency issuing equipment through the individual end user of the equipment and KI. Forms and procedures for this purpose are included in Appendix 2.

VII. PROTECTION FOR INSTITUTIONAL PERSONNEL

- A. The evacuation time for Phoenixville Hospital (see Appendix 3) is expected to be greater than that for the general population. Consequently, the staff and medical complement of this hospital are considered emergency workers and therefore are provided KI and dosimetry.
- B. Liquid KI will be distributed by PEMA to all hospitals located within the plume exposure pathway EPZ. Sufficient units for 100% of the patients and 50% of the staff for a fourteen day period are on hand. The County DES is responsible for notifying the institution when the Secretary of the Department of Health advises the use of KI.
- C. Decontamination monitoring of institutional staff and residents can be accomplished by utilizing the institution's own capability and that of the host institution, decontamination stations for emergency workers, or decontamination centers located with mass care/decontamination centers. Decontamination stations will be wholly or partially available within 12 hours after commencement of evacuation and therefore will be available to move to receiving sites for institutional personnel. The County DES will coordinate these arrangements as the situation develops.

APPENDICES:

1. Decontamination Monitoring Procedures
2. Dosimetry and Potassium Iodide (KI)
3. Dosimetry, Potassium Iodide and Survey Meter Distribution List for Radiological Emergency Response to Incidents at the Limerick Generating Station
4. Inventory and Maintenance Procedures

APPENDIX 1

ANNEX M

DECONTAMINATION MONITORING PROCEDURES

I. GENERAL INFORMATION AND ORGANIZATION

A. Decontamination Monitoring of the Public

In the event of a fixed nuclear facility incident, the public and emergency workers may have to be individually monitored to ascertain whether the individual is contaminated with a radioactive substance. If a person is found to be contaminated, then he/she must be decontaminated. BRP will issue a statement indicating whether decontamination monitoring is required and PEMA will send this message through emergency management channels. Decontamination monitoring teams will be located at mass care centers and will perform decontamination monitoring upon request regardless of whether it is required.

B. Organization at Mass Care Centers

1. Mass care centers for evacuees will serve as points where decontamination monitoring and decontamination procedures will be conducted. When decontamination monitoring is required evacuees will, upon arrival at the mass care center and if necessary, be decontaminated and then admitted to the "general living" portion of the mass care center. Trained decontamination monitoring teams will conduct the monitoring for radiological contamination, carry out decontamination procedures, and complete associated records. This activity, while falling under the overall coordination of the mass care center manager, is not an integral part of that operation. Decontamination monitoring teams take direction from the county radiological officer. Decontamination monitoring of evacuees should be completed as soon as possible; decontamination monitoring of personal belongings (i.e., clothing, personal articles, vehicles) can be accomplished after the evacuees have been processed.
2. Decontamination monitoring teams will organize their areas and traffic flow patterns so that contaminated persons and those to be monitored will not mix with the contamination-free individuals already admitted to the general living section of the mass care center. For example, persons will be sent to the decontamination area (showers) by a route that will not place them in contact with contamination-free areas. Showers used for decontamination will not be available for general use until they are decontaminated.

C. Decontamination Monitoring Services for Persons Who Are Not Housed at Mass Care Centers.

Persons who do not intend to stay at a mass care center, but who wish to be monitored will be extended these services at mass care/decontamination centers. The decontamination monitoring procedures and record keeping are identical for people who stay or do not stay at mass care centers.

Upon direction by BRP that decontamination monitoring is necessary, decontamination monitoring teams will also be dispatched to host health care facilities.

D. Decontamination Monitoring Station for Emergency Workers

1. Upon completion of his/her mission, or as directed by supervisors, each emergency worker must report to a decontamination monitoring station or a mass care/decontamination center to be monitored for radiological contamination and, if necessary, be decontaminated.
2. Most emergency workers will be working within the plume exposure pathway EPZ which extends approximately ten miles in a 360° circumference from the nuclear facility. Since the mass care/decontamination centers for the public are generally located 20 or more miles from the nuclear facilities, special "decontamination monitoring stations for emergency workers" are established closer to the plume exposure pathway EPZ. Therefore, emergency workers will not be required to travel the longer distance to mass care/decontamination centers for decontamination monitoring.
3. Each mass care center and decontamination monitoring station is to extend its service to any requesting emergency worker, whether federal, state, county, municipal employee or volunteer.

E. Equipment and Personnel Requirements

1. The instrument used for decontamination monitoring is the CD V-700 Geiger-Mueller Survey Meter (range: approximately 0.0 to 50 mR/h).
2. A sufficient number of CD V-700 survey meters are available for each mass care center to allow one meter for each 250 mass care spaces; decontamination stations have available one CD V-700 for each 50 emergency workers.
3. Personnel requirements are one trained monitor and one recorder (assistant to the monitor) for each survey meter as a minimum. Each decontamination monitor and recorder is supplied with dosimetry (CD V-742 and TLD) and KI.

4. Inventory, maintenance, and property accountability with regard to dosimetry, survey meters and KI are described in Appendix 4 to this Annex.

F. Decontamination Monitoring Record Keeping

Decontamination monitoring personnel will be responsible for completing a "Decontamination Monitoring Report Form" (reference Attachment A to this Appendix) for each individual with a reading of 0.05 mR/h (milliroentgens per hour) or more above background, which is the action level set by BRP indicating that decontamination of the individual is necessary. The form will be completed, signed by the monitor at each of the steps [(1) initial monitoring, (2) after first decontamination, (3) after second decontamination, (4) medical referral.] Two copies of the form will be prepared. One copy will be given to the individual when decontamination is completed or when the individual is sent to a medical facility. The original will be retained by the county in a historical file. Chester County will make these forms available to BRP, if requested.

G. Progress Reports on Decontamination Monitoring

Decontamination team chiefs should verbally report on the results of monitoring at two hour intervals to their County Radiological Officers. The report shall include the following cumulative data: number of persons monitored; number contaminated; number decontaminated; number referred to a medical facility (for radiation decontamination/treatment); the highest reading (above 0.05 mR/h) on any particular individual; and any unusual or particularly notable findings. The County DES is responsible for consolidating this information and reporting it immediately to PEMA who in turn will relay the information to BRP.

II. PROCEDURES FOR DECONTAMINATION MONITORING TEAMS

A. Decontamination Monitoring Procedures

Monitors performing decontamination monitoring of people should follow these procedures:

1. Select a reception location for conducting the monitoring operation. Precautions must be taken to prevent contamination of the area.
2. Use the CD V-700. Attach the headphone. This allows the monitor to observe the position of the probe and better control it while monitoring. The headphone responds more quickly to changes in radiation level than does the meter.
3. Check the operability of the CD V-700.

4. Place the probe in a light plastic bag or cover of light-weight material to prevent contamination. This is desirable but not mandatory.
5. Periodically determine the background radiation level of the location where the monitoring is to take place. If the meter indication is above background radiation with the probe shield closed, find a better location that will bring the meter indication as low as possible.
6. Open the shield on the CD V-700 probe and put on the headphone.
7. Place the probe two inches from the head, being careful not to touch the person.
8. Move the probe downward on one side of the neck, the collar, the shoulder, arm, wrist, hand, underarm, armpit, side of body, side of leg, around the cuff and shoe, including the bottom of the shoe. Then monitor the inside of the leg from the cuff to the groin and continue the procedure on the other side of the body (reference Illustration 1).
9. Monitor the front and back of the body.
10. Record the information on the Decontamination Monitoring Report Form (reference Attachment A to this Appendix).
11. Assure that individuals found to be contaminated are decontaminated.*
12. Monitor the individual after decontamination to determine that the contamination has been removed. Repeat decontamination procedures if contamination still remains.

B. Thyroid Gland Screening Check for Emergency Workers

1. In addition to the steps outlined in II.A. above, emergency workers are to be screened for thyroid gland uptake of radioiodine.

* A person is considered contaminated if there is a reading of 0.05 mR/h or more above background. Do not confuse background radiation with your readings; contamination would be apparent by a sustained increase on the visual meter reading (selector switch on X 1 range), and also by a marked increase in the audible indication from the headphone.

2. The thyroid uptake screening procedure follows:
 - a. The CD V-700 is used as the screening detector for thyroid uptake of radioiodine.

CAUTION

The individual being checked must be free of any contamination before this procedure is implemented.

- b. Monitors performing the thyroid screening uptake procedure should follow these steps:
 - (1) Put the probe with the shield closed across the front of the neck just below the larynx (Adam's Apple).
 - (2) If the reading is greater than or equal to 0.1 mR/hr, refer the individual to the appropriate medical facility for evaluation.
 - (3) If the reading is less than 0.1 mR/hr, no further action is necessary.
 - (4) Record the data on the Dosimetry-KI Report Form and sign in the appropriate place.

C. Decontamination of People

1. Contaminated persons should wash with soap and warm water; i.e., a thorough shower should be sufficient. Emphasis should be placed on any specific spots found to be contaminated in the monitoring process. Also, special attention should be given to the hair, hands and fingernails.
2. After thorough cleansing the individual should be monitored again. If some contamination still remains, the individual should shower again and use a mild abrasive soap. If monitoring after the second thorough cleansing indicates that the contamination is still present, the individual should be sent to the nearest medical facility capable of treating contaminated persons.
3. Care should be taken that persons who are decontaminated do not become recontaminated by dressing in contaminated clothing (the clothing they were wearing or possibly other clothing brought by them.) If the individual does not have contamination free clothing, clothing should be issued the individual until such time as their clothing can be decontaminated.

ILLUSTRATION 1 - DECONTAMINATION MONITORING

D. Decontamination Procedures for Wounds

Persons with contaminated wounds should be referred to an appropriate medical facility for radiation decontamination and treatment.

E. Clothing Decontamination Procedures

1. Articles which are machine washable should be laundered with a conventional detergent, line dried in a contamination free area or machine dried, and retained until they can be monitored. Water repellent items may be scrubbed with water and detergent, and retained until monitored.
2. The County DES is responsible for arranging for a laundry facility dedicated to washing of contaminated clothing.

F. Decontamination Procedures for Supplies, Instruments and Equipment

1. The item in question should be monitored first to determine the extent and area of contamination by thoroughly going over the object with the CD V-700 probe (with open shield) about two inches from the surface. Decontamination of these articles is generally accomplished by wiping or washing to the extent necessary to remove the radiological contaminants.
2. The County DES is responsible for arranging for radiation monitoring of vehicles and for decontamination. At mass care centers, monitoring teams will initially direct their efforts to the evacuees as described in (a) and (b) above. When time permits, the monitoring teams can monitor the vehicles of the evacuees where they are parked. Generally, external monitoring of vehicles will be sufficient; however, inside monitoring will also be done for those vehicles found to be externally contaminated and those vehicles used by persons found to be contaminated. Suitable car washing arrangements can be made for external decontamination depending upon the number of vehicles contaminated and amount of radiological contaminants. The county will seek the advice of BRP, through PEMA, in deciding what measures will be effective and expeditious. Vehicles with contamination in the interiors will be impounded and BRP must be consulted, through PEMA, on how to decontaminate these vehicles before they are returned to their owners.

G. Disposal of Contaminated Wastes

1. As described above, clothing and similar materials as well as miscellaneous equipment and vehicles can be decontaminated. Where cleaning materials and other items cannot be successfully decontaminated, special handling is necessary.

2. Contaminated waste materials should be packaged in a plastic bag, tied securely at the top, and placed in a metal container with a snug fitting lid (garbage can) until it is laundered. If any material cannot be decontaminated by laundering, place it in the same type of plastic bag and container and store in a locked room that is not used for any other purpose until such time as the contaminated waste is disposed of by FRMAP personnel. Accumulation of contaminated waste materials and the need for disposal should be reported through the emergency management system.

ATTACHMENT:

- A. Decontamination Monitoring Report Form

ATTACHMENT A

APPENDIX 1

PERSONNEL DECONTAMINATION MONITORING REPORT FORM

APPENDIX 2

ANNEX M

DOSIMETRY AND POTASSIUM IODIDE (KI) INFORMATION

I. GENERAL INFORMATION

- A. Each emergency worker assigned tasks within the plume exposure pathway EPZ will be equipped with three dosimeters, a Dosimetry-KI Report Form, and a 14 day supply of potassium (KI). Two of the dosimeters are self-reading; they are the CD V-730 or a DCA-622, both of which measure from 0 to 20 R, and the CD V-742 which measures from 0 to 200 R. The third dosimeter is a thermoluminescent dosimeter (TLD) which is a card type device that is read by the TLD service contractor.
- B. Decontamination monitoring team members are issued a CD V-742, a TLD, KI and a Dosimetry-KI Report Form.
- C. Dosimeter chargers (CD V-750) which are used to "zero" or charge the self-reading dosimeters are located with, or within easy access to, each emergency organizational unit.
- D. The CD V-740 (0-100R) self-reading dosimeter is considered an adequate substitute for either the CD V-730 or CD V-742.

II. DISTRIBUTION OF DOSIMETRY-POTASSIUM IODIDE AND RELATED PROCEDURES

A. Distribution

The TLDs, CD V-730s or DCA-622s, CD V-742s, Dosimetry-KI Report Form, potassium iodide and appropriate numbers of CD V-750s in support of response to fixed nuclear facility incidents are available. For this purpose a "Dosimetry, KI, Survey Meter Distribution List" is included as Appendix 3. This county list identifies by name and address each organization to be distributed these resources and specifies the number of dosimeters, units of KI, dosimeter chargers, and survey meters assigned to each agency. The using organizations will distribute dosimetry and KI to emergency workers upon the declaration of SITE EMERGENCY. (Note: Decontamination monitoring teams at decontamination centers and stations are not activated until SITE EMERGENCY, upon which distribution is made to the team.)

B. Property Control

Property accountability must be maintained in the distribution process. The "Receipt Form for Dosimetry-Survey Meters-KI" (see Attachment E) is designed for transferral of quantities of equipment from agency to agency, such as from the county to municipi-

palties and decontamination teams, and from municipalities to emergency response organizations (fire, police, ambulance). "Acknowledgment of Receipt by Emergency Workers for Dosimetry-KI and Survey Meters" (see Attachment F) is designed to expedite transferral of the equipment-KI to individual users. Municipal EOCs, fire companies, police departments, ambulance services and decontamination monitoring teams should use this form (Attachment F) to maintain accountability when distributing the equipment-KI to their individual emergency workers.

Upon termination of an incident, all equipment and unused KI must be returned to the county DES.

C. Control TLD's

1. In the event of an incident, the County DES will collect the designated "Control TLDs." Control TLDs are equal in number to about 5% of the total amount allotted for distribution. Each "control TLD" is so labeled and the serial numbers are not in the same sequential batch as the TLDs meant for distribution to emergency workers. As coordinated by PEMA, the control TLDs will be forwarded to the TLD service contractor. The County DES will complete the "Control TLDs Form" (reference Attachment B) and forward it with the control TLDs.
2. The purpose of "Control TLDs" is to allow measurement of a "baseline" of radiation (background radiation) that the TLDs had been exposed to at the time the county distributed TLDs in reaction to the incident. The measurement of the accumulated background radiation as measured by the control TLDs will be subtracted from the reading obtained from each emergency worker in the county. This procedure can be characterized as a "mathematical zeroing" of the TLD. (The CD V-730s DCA-622s and CD V-742s will be zeroed by the user organizations as they are put into use.)
3. At the time of the incident the County DES will ensure that the control TLDs are not exposed to radiation other than background radiation.

III. POTASSIUM IODIDE (KI)

A. Background Information

1. Iodine accumulates in the thyroid gland which is located at the front base of the neck just below the larynx (Adam's apple). Radioactive iodine is no different; i.e., it will accumulate in the thyroid gland in high concentration. Taking KI will have the effect of saturating the thyroid gland with iodine so that radioactive iodine does not lodge there in a large quantity. Hence, KI lessens the risk to the

thyroid gland; otherwise, it provides no protection against radiation.

2. The Pennsylvania Department of Health is responsible for developing policies relating to use of KI during fixed nuclear incidents. The department has procured KI tablets for emergency workers and KI in liquid form for staff and patients of risk hospitals. Thyro-Block (product of Carter-Wallace Inc.) is the brand name of the KI tablets procured by the department. A unit of Thyro-Block consists of 14 tablets of 130 milligrams in size; the dose is one tablet per day. The liquid preparation (manufactured by Roxanne, Inc.) dosage is six drops per day; for planning purposes the liquid KI requirements are based upon a 14 day supply per person.
3. The toxicity level of KI is very low and dangers in taking this drug are considered to be minimal. Nonetheless, individuals should not take more than the recommended dose. Although side effects of KI are unlikely because of the low dose and the short time period it will be taken, some side effects are possible. The side effects may include: skin rashes, swelling of the salivary glands, and "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, cold symptoms and sometimes gastrointestinal symptoms.) A few people may have an allergic reaction with more serious symptoms. These symptoms could include elevated temperature, joint pains, swelling of the face and body, and at times, severe shortness of breath which requires immediate medical attention.
4. The effectiveness of KI as a blocking agent is greatest if administered before the time of exposure to radioiodine, but some exposure saving can be obtained by administration shortly after exposure. Information on Thyro-Block and on the liquid KI are included in Attachments C and D to this Appendix.

B. Pennsylvania Department of Health Policies on KI

1. KI in tablet form is available to emergency workers (emergency management agencies, police forces, fire companies, ambulance services, and farmers keeping livestock). Those emergency worker organizations and institutions that receive KI protection are specified in Appendix 3.
2. The Secretary of the Department of Health is charged with the decision to use KI during an incident. KI should be taken only on the advice of the Secretary of the Department of Health. The Secretary's advice will be disseminated to emergency workers through emergency management channels. Upon taking KI, the emergency worker should record this infor-

mation on the Dosimetry-KI Report Form (see Attachment A to this Appendix).

3. The Department of Health will provide the public with information concerning KI.

IV. DOSIMETRY READINGS, RECORD KEEPING AND PROTECTIVE ACTION OPTIONS

A. Dosimetry Reading Procedures

1. Dosimeters should be worn in the pocket of an outer garment from the time of issue until the worker is dismissed from duty or until PEMA recommends dosimetry is no longer necessary. In no case should the TLD be worn by more than one person since there is no way of ascertaining later how much of the dose recorded on the TLD was received by each individual if more than one person was involved.
2. For practical purposes each Roentgen registered on either of the self-reading dosimeters is to be interpreted to mean that the worker has received a corresponding number of rem, e.g., a reading of 5 R should be interpreted to mean that a 5 rem dose has been received.*
3. Each emergency worker should read the self-reading dosimeters at least once each thirty minutes.
4. Two self-reading dosimeters provide redundancy. Workers should heed the higher measurement taken from the two dosimeters. It is possible for dosimeters of this type to have "electrical leakage" that will register a reading not caused by radiation. Nonetheless, workers are to "err on the side of caution" by heeding the higher reading.

B. Protective Action Guides (PAG) for Emergency Workers

1. Whole Body Exposure - The protective action guide for whole body exposure specified by the Environmental Protection Agency (EPA) and by BRP is 25 rem. Workers should use the self-reading dosimeter(s) to ensure that the 25 rem whole body PAG is not exceeded. By regularly checking the self-reading dosimeter(s), the worker can make reasonable judgments about how much radiation, if any, has been received and at what rate it is being received.
2. Emergency workers and supervisors are cautioned that the 25 rem protective action guide should not be construed as "license" to incur radiation exposure unnecessarily. Workers

* A Roentgen (R) is a unit of measurement of x-ray or gamma radiation that is based upon effects as measured in air; a rem (r) is a unit of radiation measurement that is based upon effects as measured in the human body. In this plan Roentgen and rem are considered to be essentially the same.

and supervisors should attempt to keep exposure as low as reasonably achievable. This concept means that exposure to radiation should be kept to a minimum for all persons and that any one individual should not receive a total dose far in excess of other emergency workers if circumstances permit substitution of personnel, termination of the assignment, or other protective action.

3. Thyroid Gland Exposure - The EPA and BRP PAG for thyroid dose is 125 rem for emergency workers but with no specific upper limit for life saving activities. An upper limit is not given for thyroid exposure since in the extreme case complete thyroid loss might be acceptable for a life saved.
4. Life Saving Missions - Responsible emergency management of offsite workers dictates that exceeding the 25 rem protective action guide should not occur. However, should there be extraordinary circumstances wherein a person's life is at stake, the 24 rem whole body dose may be exceeded in order to complete a life saving mission. The EPA and BRP specify an upper limit of 75 rem whole body dose for life saving missions, i.e., subject to special approval, conditions, and measures. Therefore, persons who volunteer for a life saving mission may exceed the 25 rem whole body limit set for emergency workers. In no case may they exceed 75 rem.

Elected officials may authorize volunteer emergency workers to exceed the protective action guidelines (25 rem whole body exposure) to a maximum of 75 rem for a life saving mission. This advance authorization is intended to avoid delay in performing a necessary life saving mission. A wide margin of safety should be maintained to avoid risk from possible adverse long term health effects caused by radiation exposure (see paragraph C below). Decision makers (elected officials) should consider the information in paragraph C below and also ensure that the following conditions have been met:

- a. The mission is of life saving importance.
- b. Alternative solutions have been exhausted.
- c. Emergency workers should be healthy adult male volunteers, preferably over 45 years of age.
- d. The emergency workers selected should be persons whose normal duties might involve such missions; i.e., policemen and firefighters with suitable protective clothing and respiratory equipment.
- e. The mission is accomplished in the least amount of "stay time."

- f. The emergency workers are knowledgeable of and accept the increased risk of exceeding the 25 rem PAG.

C. Increased Risks Due to Radiation Exposure*

Information concerning the possible consequences of emergency workers' exposure to radiation during a fixed nuclear incident is organized below into three categories - (1) immediate somatic effects, (2) long term somatic effects, and (3) genetic effects. Somatic is an adjective pertaining to characteristics of or effects on the body, as distinguished from genetic characteristics or genetic effects which are manifested in offspring (descendants).

1. Representative Relationships Between a Brief One-Time Radiation Exposure and Immediate Somatic Effects

Representative Absorbed Dose of Whole Body X or Gamma Radiation (rads)

Nature of Effect

5-25 rem	Minimal dose detectable by chromosome analysis or other specialized analysis.
50-75 rem	Minimal acute dose readily detectable in a specific individual (e.g., one who presents himself as a possible exposure case).
75-125 rem	Minimal acute dose likely to produce vomiting in about 10% of people so exposed.
150-200 rem	Acute dose likely to produce transient disability and clear hematological changes in a majority of people so exposed.

2. Long Term Somatic Risks as a Result of a One Time Exposure to Radiation

Current knowledge about the long term health effects resulting from a one time radiation exposure below 25 rem indicates

that development of health problems, such as cancer, in adults so exposed is extremely unlikely. There is no direct clinical evidence of low level radiation (in this case meaning a one time exposure below the whole body dose protec-

* Information derived from "Basic Radiation Protection Criteria," National Council on Radiation Protection and Measurements Report Number 39, Bethesda, Maryland, March 1, 1982.

tive action guide of 25 rem) causing health problems years after the exposure.

3. Genetic Effects of Radiation

Radiation exposure of reproductive cells of the ovary and testis causes gene and chromosome abnormalities (mutation). Persons exposed to any radiation should avoid the possibility of conception during the first few months after exposure, in order to virtually eliminate any possible genetic risk.

D. Dosimetry and KI Record Keeping

1. Each emergency worker is responsible for completing a Dosimetry-KI Report Form (reference Attachment A) and for returning it, along with the dosimetry, to his organization at the termination of his services. Each emergency organization will forward the forms and dosimetry to the County DES who in turn will deliver the TLDs and forms to PEMA. PEMA will deliver the forms and TLDs from all counties to BRP who will deliver the TLDs to the TLD service contractor for reading. All dosimetry records will be forwarded to BRP for the purposes of record keeping, analysis, reporting and storage.
2. BRP will retain all original copies and will be the permanent record keeper of the completed Dosimetry-KI Report Forms along with BRP's explanation of each, the TLD service contractor generated information and all related material. The records of individuals will be kept confidential.
3. BRP will use the Dosimetry-KI Report Form to select TLDs for immediate reading. The highest priority will be given to TLDs worn by persons whose self-reading dosimetry indicates 25 R or more, or where medical authority has requested immediate reading, or where other circumstances warrant. In these cases, BRP will expedite delivery of the TLDs to the TLD service contractor and readings will be received within 24 hours after and contractor's receipt of the TLDs. BRP will promptly relay the readings, with their interpretation to the individual and appropriate medical authorities. All other TLDs will be in the "routine" category of five day turn-around time from the TLD service contractor; individuals will be informed of the TLD readings.
4. If emergency workers turn in their TLD for reading and are later deployed in an area where dosimetry is needed, they should be issued new TLDs.

V. FARMER ACCESS TO THE PLUME EXPOSURE PATHWAY EPZ

A. Farmers as Emergency Workers

Farmers with livestock within the plume exposure pathway EPZ will be designated emergency workers if the EPZ is evacuated. The County DES will provide these farmers with dosimetry and KI and identification enabling them to stay within or exit and reenter the evacuated area to tend livestock.

B. Distribution of Dosimetry-KI and Farmers' "Pass" to the Evacuated Area

A "Contact and Dosimetry-KI Distribution Point for Farmers" will be established at Lionville Fire Department, Village Avenue, Lionville.

If an evacuation is necessary, an Emergency Broadcast System (EBS) announcement will direct farmers with livestock within the EPZ to report to this location. The County Agricultural Agent or his representative will distribute the dosimetry-KI to the farmers. A "Farmer Emergency Worker Certification" form (reference Attachment G) will be completed in duplicate for each farmer. The original copy will be given to the farmer and serve as a pass for access to the evacuated area. The duplicate will be retained by the agriculture representative as the basis for property control.

C. Limitation on Farmer Access to the Plume Exposure Pathway EPZ

The farmer's emergency worker status and authorization to be in the EPZ can be suspended if the incident becomes serious enough to warrant this action.

ATTACHMENTS:

- A. Dosimetry-KI Report Form
- B. Control TLDs Form
- C. Patient Package Insert for Thyro-Block
- D. Patient Information sheet - Potassium Iodide Oral Solution USP
- E. Receipt Form for Dosimetry-Survey Meters-KI
- F. Acknowledgment of Receipt by Emergency Workers For Dosimetry-KI and Survey Meters
- G. Farmer Emergency Worker Certificate

ATTACHMENT A

APPENDIX 2

DOSIMETRY-KI REPORT FORM

ATTACHMENT B

APPENDIX 2

CONTROL TLD's FORM

When TLDs are distributed during an incident, this form should be completed by the county emergency management agency. The completed form, together with the control TLDs, should be forwarded through PEMA to BRP.

Note: If a fixed nuclear facility incident occurs, the control TLDs should not remain in, or be moved into, the plume exposure pathway EPZ.

County _____

The control TLDs accompanied by this form are serial numbered "Control _____" through "Control _____" and/or "Control _____, _____, _____, _____, _____."

The TLD stock, with which the control TLDs were co-located, was stored at:

Address _____

At the time of the incident, the control TLDs were moved to (if not moved, so indicate):

Address _____

Date and time moved: Date: _____ Time: _____

This form completed by _____

Signature: X _____

ATTACHMENT C

APPENDIX 2

PATIENT PACKAGE INSERT FOR THYRO-BLOCK

ATTACHMENT E
APPENDIX 2
RECEIPT FORM FOR DOSIMETRY-SURVEY METERS-KI

ISSUED BY _____ ISSUED TO _____
ADDRESS _____ ADDRESS _____
RESPONSIBLE INDIVIDUAL _____
TELEPHONE _____

INSTRUCTIONS: During a nuclear power plant incident, use this form to maintain property and control when distributing the items listed below to municipalities and decontamination monitoring teams. This form should be used for transfer of these items in bulk form from: (1) the county emergency management agency to risk municipalities and decontamination monitoring teams; and (2) the municipalities to their local emergency response organizations (such as fire, police, and ambulance associations). NOTE: The form listed on item 11 below should be used when issuing dosimetry-KI to individuals emergency workers.

LINE NUMBER	DESCRIPTION	QUANTITY
1.	CD V-742 Self-Reading Dosimeter (0-200R)	
2.	CD V-730 Self-Reading Dosimeter (0-20R)	
3.	DCA-622 Self-Reading Dosimeter (0-20R)	
4.	CD V-750 Dosimeter Charger	
5.	TLD (Thermoluminescent Dosimeter) Serial Numbers _____ THROUGH _____	
6.	Potassium Iodide (KI) Tablets (Bottles of 14 Tablets Each)	
7.	CD V-700 Survey Meter	
8.	Dosimetry-KI Report Form	
9.	Decontamination Monitoring Report Form	
10.	Receipt Form for Dosimetry-Survey Meters-KI	
11.	Acknowledgment of Receipt by Emergency Workers for Dosimetry-KI and Survey Meters	

RECEIVED BY: _____ TITLE: _____
(print name)

SIGNATURE: X _____ DATE: _____

ATTACHMENT F

APPENDIX 2

ACKNOWLEDGMENT OF RECEIPT BY EMERGENCY WORKERS
FOR DOSIMETR-KI AND SURVEY METERS

ATTACHMENT G

APPENDIX 2

FARMER EMERGENCY WORKER CERTIFICATIONS

This is to certify that (name) _____,
(address) _____
is authorized access to the plume exposure pathway emergency planning zone
(EPZ) surrounding the _____ fixed nuclear facility for the
period extending from (date) _____ (time) _____ am/pm to (date) _____
(time) _____ am/pm.

This individual has been issued dosimetry and KI and is authorized
access to the evacuated area for the exclusive purpose of tending to livestock
located at:

(Farm location) _____

Identification data:

Height: _____ Hair color: _____
Weight: _____ PA Operator's License No.: _____
Social Security No.: _____

Radiological Equipment Issued:

CD V 730, Serial No.: _____
CD V 742, Serial No.: _____
TLD, Manufacturer: _____
Serial No.: _____

Individual's Signature: X _____

Agricultural Representative's
Signature: X _____

APPENDIX 3

ANNEX M

CHESTER COUNTY
DOSIMETRY, POTASSIUM IODIDE, SURVEY METER, DISTRIBUTION LIST
FOR RADIOLOGICAL EMERGENCY RESPONSE TO INCIDENTS AT THE
LIMERICK GENERATING STATION

Distribution Scheme: Dosimetry, KI tablets, and survey meters are distributed by the Chester County Department of Emergency Services. Municipal governments will keep dosimetry and KI for all emergency organizations in their areas, as shown on the list below, and distribute to these organizations at Site Emergency.

A. In the following list, a unit of dosimetry-KI consists of: one CD V-730 or one DCA-622, one CD V-742, one TLD, one Dosimetry-KI Report Form, and a 14-day supply of KI for one person.

	<u>Units of</u> <u>Dosimetry-KI</u>	<u>CD V-750</u>
1. Chester County Emergency Management Agency.....	200	20
2. USDA County Agent..... (For farmers who keep livestock)	200	5
3. Amounts for Phoenixville Borough Emergency Management Agency.....	161	7
Distributed as follows:		
a. Borough EOC	37	1
b. Fire Dept	75	3
c. Community Emergency Medical... Service (Ambulance)	10	1
d. Public Works	15	1
e. Police	24	
4. Amounts for Spring City Borough EMA.....	160	5
a. Borough EOC	22	1
b. Fire (Liberty Fire Company)...	50	1
c. Police	11	1
d. Ambulance and Rescue	65	1
(Springford)		
e. Public Works	12	1
	<u>Units of</u> <u>Dosimetry-KI</u>	<u>CD V-750</u>

5.	Amounts for Charlestown Township EMA	59	3
	a. Municipal EOC	23	1
	b. Public Works	6	1
	c. East Whiteland	30	1
6.	Amounts for East Coventry Township EMA.....	50	4
	a. Municipal EOC	9	1
	b. Police		
	c. Fire (Ridge Fire Co.).....	35	1
	d. Public Works	5	1
7.	Amounts for East Nantmeal Township EOC.....	75	4
	a. Municipal EOC	17	1
	b. Public Works	8	1
	c. Glenmoore Fire Company.....	50	2
8.	Amounts for East Pikeland Township EOC.....	81	4
	a. Municipal EOC	17	1
	b. Fire (Kimberton).....	45	1
	c. Police	13	1
	d. Public Works	6	1
9.	Amounts for East Vincent Township EOC.....	46	4
	a. Municipal EOC	12	1
	b. Police	4	1
	c. Public Works	10	1
	d. Pennhurst Center.....	20	1
10.	Amounts for North Coventry Township EOC.....	50	3
	a. Municipal EOC	15	1
	b. Fire (Norco)	30	1
	c. Police	5	1
11.	Amounts for Schuylkill Township EOC.....	69	4
	a. Municipal EOC	19	1
	b. Fire (Valley Forge VFC).....	25	1
	c. Police	5	1
	d. Public	20	1

12.	Amounts for South Coventry Township EOC.....	16	1
	a. Municipal EOC	16	1
13.	Amounts for Upper Uwchlan/Uwchlan Twp. EOC.....	124	6
	a. Municipal EOC	20	1
	b. Fire (Lionville Fire Co.).....	55	2
	c. Police (Uwchlan P.D.).....	19	1
	d. Ambulance	20	1
	e. Public Works	10	1
14.	Amounts for Warwick Township EOC...	69	2
	a. Municipal EOC	12	1
	b. Public Works	7	1
	c. Elverson Fire Company.....	50	2
15.	Amounts for West Pikeland Township EOC.....	22	3
	a. Municipal EOC	14	1
	b. Public Works	5	1
	c. Police	3	1
16.	Amounts for West Vincent Township EOC.....	75	5
	a. Municipal EOC	15	1
	b. Fire (Ludwigs Corner F.D.).....	50	2
	c. Police	5	1
	d. Public Works	5	1
17.	For Transportation Staging Areas... (incoming emergency vehicles - see Annex I)	200	5
	SUBTOTAL.....	1,657	85

B. In the following, list a unit of Dosimetry-KI consists of: one CD V-742, one TLD, one Dosimetry-KI Report Form, and a 14-day supply of KI for one person.

	Units of Dosimetry-KI	CD V-750	CD V-700
1. Decontamination Stations for Emergency Workers.....	105	3	30
a. Elverson Fire Dept.....	35	1	10
b. Lionville Fire Dept.....	35	1	10
c. Valley Forge Fire Dept.....	35	1	10

2.	Decontamination Centers for the General Public.....	250	30	120
	SUBTOTAL.....	355	33	150
C.	Hospitals			

(Hospitals within the EPZ receive enough units of dosimetry-KI for fifty percent of staff and KI for all patients. KI in this case is in liquid form with a unit of dosimetry-KI being defined as in Section A above.)

1.	Phoenixville Hospital			
	Staff (50%).....	265		
	Patients.....	195		
	Required CDV-750's.....	4		

D. Recapitulation of Chester County Total Dosimetry-KI-Survey Meter Needs:

- Total CD V-730s - 1922
- Total CD-V-74's - 2277
- Total TLDs - 2277
- Total Units* KI (Tablets) - 2012
- Total Units* KI (Liquid) - 460
- Total CD-V-750s - 122
- Total Survey Meters - 150

*One unit is a 14-day supply for one person.

APPENDIX 4

ANNEX M

INVENTORY AND MAINTENANCE PROCEDURES

I. PURPOSE

This attachment sets forth procedures for inventory and maintenance of the dosimetry, dosimeter chargers, survey meters and potassium iodide (KI) intended for use in response to incidents at the Limerick Generating Station.

II. DEFINITIONS

For the purpose of this appendix, the following definitions are applicable:

- A. Inspection - A visual check for physical damage and missing accessories to include batteries (for the CD V-750 and CD V-700) which should be stored separately.
- B. Operational check -
 - 1. Self-reading dosimeters (CD V-730, CD V-742, or Dosimeter Corporation of America Model 622) - The dosimeter is operational if the hairline can be moved to or close to zero using a dosimeter charger.
 - 2. Dosimeter charger (CD V-750) - The charger is operational if the light source for reading dosimeters is working and the charger can move the hairline on a self-reading dosimeter to or close to zero.
 - 3. Survey meter (CD V-700) - The survey meter is operational if, after turning the selector switch to the X10 range, allowing 30 seconds for warmup, opening the shield on the probe and placing the open area of the probe as close as possible to the operational check source located on the instrument case, the meter reads between 1.5 and 2.5 mr/h.
- C. Special RERP issue - Refers to dosimeters, dosimeter chargers and survey meters that are either civil defense or commercial equipment issued to selected counties for the express purpose of response to nuclear facility incidents; this equipment is in addition to civil defense kits issued to counties as a preparedness measure for nuclear attack.
- D. Set aside - Refers only to CD V-742 dosimeters and CD V-750 dosimeter chargers originally issued as part of civil defense items which have been removed from the kits (but are stored in the proximity of the kits) and "set-aside" for ready availability if a

nuclear power plant incident should occur. This equipment, of course, can be placed back into the civil defense kits if a nuclear attack becomes a heightened concern.

III. INVENTORY AND MAINTENANCE PROCEDURES

- A. Annually, during the month of January, the Chester County DES will conduct a complete inventory of all special RERP issue or set-aside of dosimeters, dosimeter chargers, survey meters, KI and related forms (reference Attachment A). Using the form provided (Attachment A), the County DES Director will report the results of the inventory to PEMA.
- B. At least once each year, PEMA will conduct an inventory-inspection-operational check of the special issue and set-aside equipment and KI. All such equipment and KI will be made available at a central location for this procedure.
- C. PEMA will provide an annual KI report to the Department of Health.
- D. These procedures pertain only to the special RERP issue or set-aside of equipment and KI for response to nuclear power facility incidents and in no way changes or alters other established procedures for RADEF equipment.

VI. THERMOLUMINESCENT DOSIMETERS

Each year, based on the original issue date, PEMA will conduct an exchange of new-for-old TLD's with the County DES. When the annual replacements are received from the TLD service contractor, PEMA will exchange the TLD's on a one-for-one basis with the county.

There are no maintenance requirements for the TLD's and each has a usable life of only one year.

ATTACHMENT:

- A. Fixed Nuclear Facility Special Equipment - KI Forms Inventory Report Form

ATTACHMENT A

APPENDIX 4

FIXED NUCLEAR FACILITY SPECIAL EQUIPMENT-KI FORMS
INVENTORY REPORT FORM

CHESTER COUNTY

I, _____, certify that a physical
(Name of individual conducting the inventory)
inventory of the equipment and KI issued to or set-aside by this county
specifically for response to incidents at nuclear power plants was conducted
on _____, 19__ and the results of such inventory are as follows:

	<u>1</u> Quantity Special Issue	<u>2</u> Quantity Set-Aside	<u>3</u> Total Columns 1&2	Physical Inventory Quantity
1. CD V-730 self-reading dosimeter	_____	_____	_____	_____
2. Dosimeter Corporation of America Model 622 self-reading dosimeter (commercial equivalent of CD V-730)	_____	_____	_____	_____
3. CD V-740 self-reading dosimeter	_____	_____	_____	_____
4. CD V-742 self-reading dosimeter	_____	_____	_____	_____
5. CD V-750 dosimeter charger	_____	_____	_____	_____
6. TLD (thermoluminescent dosimeter) Serial numbers _____ through _____ and _____ through _____	_____	_____	_____	_____
7. CD V-700 survey meter	_____	_____	_____	_____
8. Bottles of KI (14 tablets)	_____	_____	_____	_____
9. Copies of "Dosimetry-KI Report Form	_____	_____	_____	_____
10. Copies of "Decontamination Monitoring Report Form"	_____	_____	_____	_____
11. Copies of "Farmer Emergency Worker Certification"	_____	_____	_____	_____

NAME OF INVENTORY CLERK: _____
(please print or type)

INVENTORY CLERK'S SIGNATURE: X _____ DATE: _____

SIGNATURE-COUNTY COORDINATOR: X _____ DATE: _____

ANNEX N

SCHOOL SERVICES

I. PURPOSE

To establish policies and procedures for protective actions of school pupils while attending classes at their respective schools within the plume exposure pathway EPZ in event of an incident at the Limerick Generating Station.

II. RESPONSIBILITY

A. The Chester County Director of Emergency Services will monitor and coordinate the development of radiological emergency response plans within the school districts, college and private/parochial schools of Chester County affected by an incident at the Limerick Generating Station.

B. The school district superintendents within the Chester County section of the plume exposure pathway EPZ of the Limerick Generating Station, in coordination with the Chester County Department of Emergency Services and the Chester County Intermediate Unit, are responsible for the following:

1. Developing radiological emergency response plans.
2. Coordinating plans with individual risk and host schools and appropriate municipalities.
3. Establishing procedures for the receipt and dissemination of emergency information.
4. Providing transportation for school students in the event of an evacuation.
5. Conducting periodic reviews of emergency systems and procedures and test and update critical parts of emergency plans.

III. REQUIREMENTS

A. To provide for the safety and welfare of school children attending school within the plume exposure pathway EPZ for the Limerick Generating Station.

B. To keep parents informed concerning actions to be taken by school districts to provide protection for their children in the event of an incident at the Limerick Generating Station.

IV. POLICIES

- A. If an evacuation from the school is required, designated teachers/ staff will accompany students to host schools and will remain with students until relieved.
- B. School students will remain the responsibility of school staff until released to parents, guardians or other duly authorized individuals.
- C. If an evacuation is ordered or appears to be imminent at a time when schools are closed, administrators of schools within the plume exposure pathway EPZ (or those having students which live within the EPZ) may receive information from PEMA through the Chester County Department of Emergency Services advising them not to reopen the schools until the emergency is over. EBS stations will be notified to make appropriate announcements and the appropriate municipal and County EOCs will be informed of the decision. The Chester County DES will report school closings to PEMA. School officials will notify parents/guardians utilizing regular school closing procedures, as appropriate.
- D. When the schools attended are located within the plume exposure pathway EPZ, students will be evacuated from the schools they attend to host schools where they will be retained under school officials' custody until they are picked up by their parents or guardians.
- E. When the schools attended are outside the plume exposure pathway EPZ, students will either be evacuated to host schools or retained at the schools they attend until they are picked up by their parents, as determined in the plans developed by responsible school administrators.
- F. Schools will not send school children home early when their homes are inside the EPZ and an evacuation is imminent. They will not be sent home at any time when an evacuation is in progress.

V. CONCEPT OF OPERATIONS

The Chester County School Services Officer is responsible for the following actions:

A. Unusual Event

No actions are required.

B. Alert

1. When notified, the School Services Officer will report to the County EOC.

2. Notify and brief District Superintendents, and private school administrators and request briefing of all building principals.
3. Risk School Districts Superintendents notify host school district administrators. Direct communications between risk and host school districts are opened and maintained.
4. Notify and brief all colleges and private, profit schools and advise them of the situation.
5. School Superintendents, and private school administrators will assure operation of school communications systems, notify school buildings, review emergency plans and transportation requirements, consider cancellation of extra curricular activities and place transportation providers on stand-by status.
6. School building principals will implement appropriate emergency plans, confirming attendance and considering cancellation of special events/activities.

C. Site Emergency

1. Complete all appropriate actions listed for Alert.
2. Recommend activation and staffing of host schools.
3. School Services Officer will request report of unmet transportation needs from risk schools.
4. Review transportation requirements for districts, the college and private schools and place required resources on standby (coordinate with the Transportation Officer).
5. School District Superintendents assure readiness of appropriate vehicles, and keep host school districts advised of the situation. Any requirements for transportation beyond the district's capability are reported to the County EOC.
6. School building principals initiate appropriate emergency procedures and report resource requirements to their superintendent/representative.
7. Establish ARES communications with risk school district administrative offices.
8. If school is not in session, recommend that school officials cancel school operations until reduction or close out of the emergency.

9. Based upon the facts of the situation, school district superintendents may decide to close the schools during a school day or at the end of the day while being particularly careful to avoid sending the children home when a requirement to take shelter or to evacuate may be imminent.

D. General Emergency

1. Complete all actions listed for Alert and Site Emergency.
2. Request that buses/evacuation vehicles move to assigned schools.
3. Assign an ARES unit to each risk school to assure a single radio equipped evacuation vehicle for each group of evacuation vehicles (coordinate with Communications Officer).
4. Communicate protective action recommendations to school officials, requesting implementation of appropriate RERP procedures. Direct that students living in the EPZ and attending school outside be hosted at their own school, supplementing EBS announcements appropriately.
5. Coordinate the implementation of protective action recommendations, relay unmet needs and notify the Chester County Director of Emergency Services of completion/status.
6. Monitor transportation/movement of students to host schools.
7. Request buses for movement of students from host schools to a designated mass center after 8 p.m. The facility to be used for this purpose is Downingtown High School.
8. Provide transportation as requested by colleges and private, profit schools, coordinating with Transportation Group.
9. Record alternate district administrative office locations and methods of contact.
10. School Administrators will maintain communications with building principals, report unmet needs, monitor student movement, order the closing of host schools and the opening of mass care centers for students after 8 p.m., and designate and report to an alternate District office location as necessary.
11. School building principals will implement appropriate procedures specified for sheltering or evacuation, assuring that school staff remain with students at all times.

APPENDICES:

1. Risk School Information Summary
2. School Evacuation Routes and Host Schools
3. School Bus Resource Information
4. School District Map
5. Chester County Day Care Facilities

APPENDIX 1

ANNEX N

RISK SCHOOLS INFORMATION SUMMARY

I. PUBLIC SCHOOLS

- A. District: DOWNINGTOWN AREA SCHOOL DISTRICT
Address: 122 Wallace Avenue
Downingtown, PA 19335
Telephone: 215/269-8460
Contact: Walter Hessinger, Superintendent
Total Students in EPZ: 522
Schools in the EPZ: Pickering Valley Elementary School (522)
- B. District: GREAT VALLEY SCHOOL DISTRICT
Address: DeVault, PA 19432
Telephone: 215/935-7140
Contact: Dr. Richard Bauer, Superintendent
Total Students in EPZ: 292
Schools in the EPZ: Charlestown Elementary (292)
- C. District: OWEN J. ROBERTS SCHOOL DISTRICT
Address: R.D. 1
Pottstown, PA 19464
Telephone: 215/469-6261
Contact: Dr. Roy C. Claypool, Superintendent
Total Students in EPZ: 3431
Schools in the EPZ: Owen J. Roberts Sr. High School (1196)
Owen J. Roberts Middle School (825)
East Coventry Elementary School and
Vincent Elementary School (491)
North Coventry Elementary Schools (521)
French Creek Elementary School and
Warwick Elementary School (398)
- D. District: PHOENIXVILLE AREA SCHOOL DISTRICT
Address: 1120 S. Gay Street
Phoenixville, PA 19460
Telephone: 215/933-8861
Contact: Dr. Robert B. Murray, Superintendent
Total Students: 2864
Schools in the EPZ: Phoenixville Area Sr. High School (628)
Phoenixville Area Jr. High School (796)
East Pikeland Elementary School (329)
Samuel K. Barkley Elementary School (362)
Second Avenue School (173)
Schuylkill Elementary School (567)

II. PRIVATE/PAROCHIAL SCHOOLS

- A. Kimberton Farm School (300 est.)
N. Seven Stars Road
Kimberton, PA 19442
- Contact: Mr. Andrew Dill, Faculty Chairman
Telephone: 933-3635
School District Jurisdiction: Owen J. Roberts
Total Students: 300 (est.)
- B. Upattinas Open Community School (52)
R. D. #1, Box 378
Greenridge Road
Glenmoore, PA 19343
- Contact: Ms. Sandra Hurst, Director
Telephone: 458-5138
School District Jurisdiction: Downingtown
Total Students: 52
- C. Valley Forge Christian Academy (220)
Valley Park and White Horse Roads
Phoenixville, PA 19460
- Contact: Mr. Scott Nason, Administrator
Telephone: 933-6287
School District Jurisdiction: Phoenixville
Total Students: 220
- D. Holy Trinity School (71)
221 Dayton Street
Phoenixville, PA 19460
- Contact: Sister Maria Rose, CSB, Principal
Telephone: 935-1720
School District Jurisdiction: Phoenixville
Total Students: 71
- E. St. Ann's School (348)
Third Avenue and Buttonwood Street
Phoenixville, PA 19460
- Contact: Sister Maria Auxilia, IHM
Telephone: 933-7562
School District Jurisdiction: Phoenixville
Total Students: 348

- F. St. Basil the Great School (177)
Kimberton Road and Seven Star Road
Kimberton, PA 19442

Contact: Sister Patricia Wikenheiser, ACI, Principal
Telephone: 933-2453
School District Jurisdiction: Phoenixville
Total Students: 177

- G. Saint Mary of the Assumption School (179)
South and Emmett Street
Phoenixville, PA 19460

Contact: Sister Ann Elise, IHM, Principal
Telephone: 933-9868
School District Jurisdiction: Phoenixville
Total Students: 179

- G. Children's House of North Chester County (16)

Contact: Ms. Caryl Ann Cooper
Telephone: 215/458-8922
School District Jurisdiction: Owen J. Roberts
Total Students: 16

- H. St. Joseph Kindergarten
280 Schuylkill Road
Spring City, PA 19475

Contact: Father Robert Riedy
Telephone: 948-3557
School District Jurisdiction: Springford
Total Students:

III. OTHER SCHOOLS

- A. Northern Chester County Technical School (549)
Charlestown Road
Phoenixville, PA 19460

Contact: Mr. C. Robert Zimmerman, Director
Telephone: 933-8877
Total Students: 549

- B. Valley Forge Christian College (400 est.)
Charlestown Road
Phoenixville, PA 19460

Contact: Mr. Frank Salvato
Telephone: 935-4050
Total Students: 400 (est.)

APPENDIX 2

ANNEX N

SCHOOL EVACUATION ROUTES AND HOST SCHOOLS

<u>Risk Facility</u>	<u>Evacuation Route(s)</u>	<u>Facility</u>
A. DOWNINGTOWN SCHOOL DISTRICT		
1. Pickering Valley Elem.*	None	Pickering Valley Elementary
B. GREAT VALLEY SCHOOL DISTRICT		
1. Charlestown Elem.*	None	Charlestown Elementary
C. OWEN J. ROBERTS SCHOOL DISTRICT (all)	23 West	Twin Valley H.S./J.H.S. and Elementary Center
D. PHOENIXVILLE AREA SCHOOL DISTRICT		
1. Phoenixville Sr. H.S.	Pothouse Road	Conestoga Sr. H.S.
2. Phoenixville Jr. H.S.	to Whitehorse Road 29 South to 30E to Berwyn.	
3. Schuylkill Elem.	Whitehorse Road to 295 to 30E to Berwyn.	
4. Barkely Elementary	Pothouse to Whitehorse	
5. East Pikeland Elem.	Hares Hill to Cold Stream to Charlestown Road to 29.	
6. Second Avenue School	Whitehorse to 29S to 30E.	
E. KIMBERTON FARM SCHOOL	Seven Stars Rd to 113 South	West Chester University
F. UPATTINAS SCHOOL	100 South	West Chester University or Administrator's Home

* Located within the EPZ but beyond ten miles. Students will be retained at their schools for pick up.

** Until agreements have been finalized, these host facilities should be considered "tentative" relocation sites.

G.	VALLEY FORGE CHRISTIAN COLLEGE	29 South to 202 South	
H.	VALLEY FORGE CHRISTIAN ACADEMY	23 East	West Chester University
I.	ST. ANN'S SCHOOL	29 South to 352 South	Immaculata College
J.	ST. BASIL'S SCHOOL	113S to 401S to 202S to 30E to 352S	Immaculata College
K.	HOLY TRINITY	29 South to 352 South	Immaculata College
L.	ST. MARY'S	29 South to 352 South	Immaculata College
M.	NORTHERN CHESTER CO. AVTS	29 South	Tredyffrin-Easttown Jr. High School
N.	ST. JOSEPH'S KINDERGARTEN	724 to 23 East	St. Philip Neri (Lafayette Hills)

* Located within the EPZ but beyond ten miles. Students will be retained at their schools for pick up.

** Until agreements have been finalized, these host facilities should be considered "tentative" relocation sites.

APPENDIX 3

ANNEX N

SCHOOL BUS RESOURCE INFORMATION¹

Risk Facility	60 Passenger Buses Needed for Evacuation	60 Passenger Buses Available	Unmet Need
A. Downingtown School District	0	53	0
1. Pickering Elementary	0	0	0
B. Great Valley School District	0	40	0
1. Charlestown Elementary	0	0	0
C. Owen J. Roberts School District	51	26	25
1. Owen J. Roberts Sr. H.S.	17	1	16
2. Owen J. Roberts Jr. H.S.	12	3	9
3. East Coventry Elementary and Vincent Elementary	8	8	0
4. North Coventry Elem. (2)	8	8	0
5. French Creek Elementary and Warwick Elementary	6	6	0
D. Phoenixville School District	57	40	17
1. Phoenixville Area Senior High	14	14	0
2. Phoenixville Area Junior High	18	18	0
3. East Pikeland Elem.	6	6	0
4. Barkley Elementary	7	2	5
5. Second Avenue School	3	0	3
6. Schuylkill Elementary	9	0	9
<hr/> 60 Passenger Buses <hr/>			

¹ These are estimates subject to further school RERP development.

Risk Facility	Needed for Evacuation	60 Passenger Buses Available	Unmet Need
E. Private/Parochial			
1. Kimberton Farm	7 (est.)	3 (est.)	4
2. Upattinas	6	5*	1
3. Valley Forge Christian Academy	5	3	2
4. Holy Trinity	1	0	1
5. St. Ann's	6	0	6
6. St. Basil	3	0	3
7. St. Mary	4	0	4
8. Northern Chester AVTS	8	110**	8
9. Valley Forge Christian College	16	7*	9
10. Children's House of N. Chester	2	1*	1
11. St. Joseph's Kindergarten	0	3**	0
12. Camp Hill School***			
13. Camp Hill Village***			
	58		39

*Includes Vans.

**Private Vehicles Available.

***See Annex I, Page 2-1.

APPENDIX N-4

ANNEX N

MAP

APPENDIX 5

ANNEX N

CHILD CARE FACILITIES - CHESTER COUNTY EPZ

- A. Grace Assembly Day Care Center
(East Vincent)
- B. Phoenixville Area Day Care Center
Main Street (Plan Complete)
(Phoenixville)
- C. Phoenixville Area Day Care Center
Fairview Street (Plan Complete)
(Phoenixville)
- D. Valley Forge Kinder House
(Phoenixville)
- E. Young Men's Christian Association
(Phoenixville)
- F. Kay F. Broussard
(North Coventry)
- G. Charlestown Playhouse - Preschool
(Charlestown)
- H. Susan L. Griffith
(Phoenixville)
- I. Maureen Rutledge
(Phoenixville)
- J. Coventry Nursery School
(North Coventry)
- K. Judith A. Stamy Group Day Care Home
(North Coventry)
- L. Temple of Spiritual Learning Inc.
(Elverson)

- M. Zion Lutheran Church Day Care Center
(East Pikeland)
- N. Wanda M. Grover
(Schuylkill)
- O. Cathleen Hanrahan
(East Vincent)
- P. Little Learner Christian School at Coventryville
(South Coventry)
- Q. St. Peter's Kiddie Korner Inc.
(Phoenixville)
- R. Childrens House of Northern Chester County
(West Vincent)
- S. Little People's Preschool of Pughtown Baptist Church
(South Coventry)
- T. Circle of Friends
St. John's Lutheran Church
(Schuylkill Township)
- U. Cedarville Nursery School
(North Coventry)

ANNEX O
AGRICULTURE

I. PURPOSE

The purpose of this Annex is to outline the procedures relevant to the agricultural community of Chester County in the event of an incident at the Limerick Generating Station.

II. RESPONSIBILITY

- A. The Chester County Department of Emergency Services will maintain a continuing liaison with the County agricultural community. A representative of the USDA Food and Agriculture Council (FAC) will be present in the EOC.
- B. The County Agricultural Agent will transmit information to farmers as it is received from the County EOC.
- C. The Pennsylvania Department of Agriculture will assist DEP by collecting milk samples and products, livestock feed and other food products for laboratory analysis.
- D. If evacuation becomes necessary, the Chester County Department of Emergency Services, through the USDA County Agent, may certify farmers tending livestock as emergency workers.

III. CONCEPT OF OPERATIONS

- A. The ingestion exposure pathway EPZ is an area in which water and food may become contaminated by a release of radioactive material. It extends to a 50 mile radius from the Limerick Generating Station.
- B. The County Agricultural Agent is included as part of the staff of the County Emergency Operations Center.
- C. When sheltering or evacuation of the population is recommended, farmers will be advised to place livestock and their feed inside under as much protection as possible.
- D. DER's Bureau of Environmental Control will collect samples from public water supplies.
- E. The Pennsylvania Department of Agriculture will gather samples of milk, crops, forage, farm water and other food products for analysis.

- F. DER's Bureau of Laboratories will conduct the actual technical analysis of the food and water samples and BRP will provide technical interpretation for the Department of Agriculture.
- G. The USDA County Food and Agriculture Council (FAC) and the County Agricultural Agent are the primary means for the dissemination of information and advisories from the State to farmers and food processing facilities concerning protective actions.
- H. The Chester County Department of Emergency Services will assist the County USDA FAC in the distribution of information and advisories from the State to the farmers through public information and emergency broadcast system facilities. Farmers should monitor EBS Station WCAU for information.
- I. Information and guidance from State agencies for farmers will be forwarded through the County Department of Emergency Services to the USDA County FAC.
- J. The county, as necessary, will assist the State in implementing control measures for contaminated food or water.
- K. The Chester County Agricultural Agent will establish a contact and distribution point for farmers at the Lionville Fire Department, Village Avenue, Lionville.
 - 1. In case of an evacuation, farmers (who keep livestock) within the plume exposure pathway EPZ may apply for Emergency Worker Certification and when received, pick up dosimetry and KI from the Chester County DES. This certification will enable farmers to gain access to the controlled area for the purpose of tending livestock. As emergency workers, farmers are to report to a decontamination center each time they exit the controlled area.
 - 2. The County Agent, as authorizer of the Farmer Emergency Worker Certification Forms, will circulate his signature sample (or that of his authorized representative, when applicable) to all municipal police, State Police, and military personnel manning access control points to the plume exposure pathway EPZ.

IV. FARMERS

- A. Farmers within the plume exposure pathway EPZ who have livestock to be tended are considered to be "emergency workers" and therefore may stay within the plume exposure pathway EPZ or frequently exit and reenter for the purpose of tending livestock. This emergency worker status, and the right to be in the EPZ, can be suspended by the Governor if the situation should become serious enough to warrant this action.

- B. Farmers should obtain dosimetry and KI, along with a Dosimetry-KI Report Form and Farmer Emergency Worker Certification Form, from the Chester County Department of Emergency Services who will facilitate distribution to farmers through the County Agent.
- C. Farmers should report to an emergency worker decontamination station each time they depart the EPZ.

APPENDICES:

- 1. Protective Action Guide for Farmers and Food Processors
- 2. Farmer Emergency Worker Certification Form

APPENDIX 1

ANNEX 0

PROTECTIVE ACTION GUIDE FOR FARMERS AND FOOD PROCESSORS

(To Be Developed by the Pennsylvania
Department of Agriculture)

APPENDIX 2
ANNEX 0

CHESTER COUNTY DEPARTMENT OF EMERGENCY SERVICES
FARMER EMERGENCY WORKER CERTIFICATE

This is to certify that (name) _____,
(address) _____,
is authorized access to the plume exposure pathway emergency planning zone
(EPZ) surrounding the _____ fixed nuclear facility for the
period extending from (date) _____ (time) _____ am/pm to
(date) _____ (time) _____ am/pm.

This individual has been issued dosimetry and KI and is authorized
access to the evacuated area for the exclusive purpose of tending to livestock
located at:

(Farm Location) _____

Identification date: _____

Height: _____

Hair Color: _____

Weight: _____

PA Operator's License No.: _____

Radiological Equipment Issued:

CD V 730 or DCA 622 Serial No.: _____

CD V 742 Serial No.: _____

TLD Serial Number: _____

Individual's Signature: X _____

Agricultural Representative's
Signature X _____

Form Distribution: Original to individual; copy retained by the County
Emergency Management Agency.

ANNEX P

REENTRY

I. PURPOSE

To outline procedures and responsibilities which will be necessary for the orderly return of the evacuated population of Chester County.

II. RESPONSIBILITY

The Governor, upon the recommendation of PEMA and as advised by the Bureau of Radiation Protection, will announce when conditions around the Limerick Generating Station return to normal and citizens may return to their homes without threat to their health and safety. The order to initiate reentry will come from the Chester County Commissioners and will be coordinated in the same manner as the evacuation process.

III. REQUIREMENTS

- A. The Chester County Director of Emergency Services will provide guidance and assistance to municipalities and other support agencies in the orderly return of people to their homes in Chester County.
- B. The Pennsylvania State Police, Pennsylvania National Guard and municipal police will provide traffic control and security during the reentry process.
- C. Municipalities and support agencies will report incidents, accidents, damages or other problems which could result in liability to municipal, county or state government.

IV. RESPONSIBILITIES

- A. Chester County Staff:
 - 1. Chester County Alerting/Communications Group Chief
 - a. Disseminate reentry order.
 - b. Maintain all other communications support necessary for reentry.
 - c. Restore disrupted communications facilities as reentry is accomplished.
 - d. Consolidate and secure communications logs.

2. Fire/Rescue Group

- a. Direct affected fire and rescue personnel to return to their respective stations and secure.
- b. Continue fire and rescue and fire police operations.
- c. Inventory, inspect and coordinate return of borrowed equipment to original owner.

3. Police Group

- a. Coordinate traffic movement during reentry. Activate traffic control points in cooperation with the Pennsylvania State Police.
- b. Continue security operations until municipalities inside evacuated area have reestablished security.
- c. Release municipal police forces to provide security to home municipalities as reentry is accomplished. Coordinate necessary security needs between municipalities.
- d. Return equipment to original jurisdiction.
- e. Consolidate and secure records and reports.

4. Mass Care Group

- a. Announce reentry plans to evacuees in Mass Care Centers.
- b. Coordinate transportation needs with Transportation Coordinator.
- c. Assist with public information.
- d. Coordinate shutdown of food and fuel distribution systems.
- e. Inspect, collect and inventory remaining food and other supplies and equipment. Return borrowed equipment.
- f. Organize records, including records of condition of area property, public and private.
- g. Complete cleanup operations. Urge evacuees to assist as they prepare to leave.
- h. Coordinate repair of any damages.
- i. Complete closing of all facilities.

- j. Establish emergency feeding and clothing centers as needed.
 - k. Coordinate any needs for emergency housing.
 - l. Continue Human Locator operations.
 - m. Develop report of damage to the Mass Care facilities and any extraordinary expenses incurred in the operation.
 - n. Consolidate and secure all records and reports.
5. Medical/EMS Group
- a. Coordinate the response to the health needs of the evacuated area to include blood and drug supplies.
 - b. Notify all health organizations of reentry procedures.
 - c. Coordinate emergency medical support during return.
 - d. Coordinate the use of ambulances for patient and invalid return. Coordinate the return phasing of patients with risk county officials.
 - e. Coordinate the disposal of any contaminated food or medical supplies with PEMA and BRP.
 - f. Inventory supplies on hand.
 - g. Consolidate and secure all records and reports.
6. Transportation Group
- a. Coordinate with police and EOC staff to determine any changes in previously used evacuation routes.
 - b. Ensure the provision of assistance to disabled vehicles.
 - c. Identify reentry transportation to those without vehicles or other means of return.
 - d. Identify fuel supplies for reentry and provide them as needed.
 - e. Provide final inventory of remaining fuel supplies when reentry is complete.
 - f. Coordinate cleanup and restoration of transportation facilities and equipment.

- g. Report damage to transportation facilities and equipment and any extraordinary expenses incurred in operations.
 - h. Consolidate and secure all records and reports.
7. Public Information
- a. Disseminate necessary information on phasing and other news regarding reentry.
8. Radiological Group
- a. Receive and log all information on exposure assessments. Assist in damage assessment.
 - b. Provide monitoring assistance as requested.
 - c. Support decontamination procedures as needed.
9. Agricultural Agent
- a. Continue to provide assistance as requested by Federal and State Agriculture agencies.
 - b. Assist County USDA Emergency Board in the distribution of information to farmers.
10. Public Works/Industrial Liaison Group
- a. Coordinate emergency fuel supplies for reentry with the Transportation Coordinator.
 - b. Coordinate with the Mass Care Coordinator regarding the shutdown of emergency food and other distribution systems.
 - c. Notify food and other distribution services to resume normal operations.
 - d. Report status of supplies and equipment on hand.
 - e. Report any damages to the central resource receiving point and any extraordinary costs incurred from operations.
 - f. Coordinate reentry with utilities serving the evacuated area, with particular attention to water potability and gas safety problems.
 - g. Provide assistance to business and industry with security and start-up problems.

B. Municipalities

1. Return to established seat of government.
2. Reestablish security and safety services.
3. Report readiness to receive residents.
4. Report damage caused by evacuation and reentry and extraordinary costs of operations.

C. School Districts

1. Prepare to resume school operations.
2. Report damages to school property and extraordinary costs of evacuation and reentry operations.

V. CONCEPT OF OPERATIONS

- A. PEMA will advise Chester County that the recommendation for people to return to their homes is forthcoming. Upon receipt of that information, the Chester County Commissioners will inform the residents of Chester County via public information announcements and/or EBS announcements.
- B. Time phasing for the orderly return of people will be developed by the Chester County DES Director and his staff.
- C. Support municipalities and agencies will provide the same services provided during the evacuation.
- D. Liaison and communications will be maintained with municipalities and with State and Federal agencies.
- E. A damage assessment report will be compiled and submitted to appropriate State officials. Inventories of remaining, needed or damaged resources will be maintained and submitted to the State following reentry.
- F. All records and reports of the evacuation and reentry will be secured and maintained in the Chester County Emergency Operations Center.

ANNEX Q

RESOURCE REQUIREMENTS

I. PURPOSE

To provide procedures for determining the amount and type of additional resources required to implement the Chester County Radiological Emergency Response Plan.

II. RESPONSIBILITIES

- A. The Chester County Director of Emergency Services is responsible for determining personnel and equipment requirements which cannot be provided from existing County resources during an incident, and reporting same to PEMA.
- B. Municipal emergency management coordinators will determine the additional resources necessary to execute municipal Radiological Emergency Response Plans. All requirements will be reported to the Chester County Director of Emergency Services. An estimate of municipal resource requirements is contained in Attachment O of the municipal plans. This list will be updated as part of the annual municipal plan update.
- C. The Central Resource Receiving Point Manager will establish and staff a facility located at the Chester County Airport, Coatesville, to receive and distribute required resources, keeping accurate records of receipt and distribution.
- D. Resource requirements of the State government are the responsibility of the State government; resource requirements of the Federal Government response team are addressed in the Commonwealth's Disaster Operations Plan, Annex E. PEMA is responsible for making the necessary arrangements to support the federal government response personnel. The county will cooperate with the federal government, PEMA and the Pennsylvania Department of General Services in planning for and making necessary support arrangements.

III. CONCEPT OF OPERATIONS

A. Governing Principles

- 1. Where possible, unmet municipal requirements will be fulfilled at the County level.
- 2. Chester County will meet all requirements possible; unmet needs will be reported to PEMA.

3. Municipal coordinators should maintain updated lists of personnel and equipment and report unmet needs to the county on an annual basis.
4. Mass Care Center officers will report all unmet needs to the Chester County Mass Care Coordinator.
5. During an incident, the Central Resource Receiving Point Manager will report directly to the County Public Works Officer.

B. Emergency Action Levels

1. Unusual Event

No response required

2. Alert

- a. Central Resource Receiving Point Manager is notified and informed of the situation.
- b. The manager confirms with the person-in-charge of the facility the details of the pre-incident agreement for operations.
- c. The manager notifies his/her staff of the situation.
- d. Municipal EMCs review local resource requirements and report updated unmet needs to the County DES.

3. Site Emergency

- a. Upon notification, the central resource receiving point manager shall:
 - (1) Mobilize Central Resource Receiving Point (CRRP) staff, including assignment of ARES communications team.
 - (2) Prepare to activate the facility.
 - (3) Activation of the CRRP may occur at Site Emergency, if conditions warrant.
- b. County responds to unmet needs requests.

4. General Emergency

- a. Activate the central resources receiving point if not already activated.
- b. Receive/distribute resources as necessary.

5. Recovery

Upon termination of the incident, inventory remaining resources, secure the facility and forward records to the County Public Works Officer.

APPENDICES:

1. Chester County Response Requirements

APPENDIX 1

ANNEX Q

CHESTER COUNTY RESPONSE REQUIREMENTS

CONSOLIDATED RESOURCE LIST

	TOTAL REQUIRED	LOCALLY AVAILABLE	UNMET NEED REFERRED TO COUNTY	COUNTY IDENTIFIED	COUNTY COMMITTED	UNMET NEED REFERRED TO PEMA
A. VEHICLES						
1. Buses	217	35 ³	132	545 ¹	87	132 ²
2. Ambulances	81	0 ³	81	45	23	58
3. Vehicles with Loudspeakers	54	54	0	N/A	N/A	N/A
4. Vans	29	15	14	54 ¹	19	0
B. PERSONNEL						
1. Route Alerting	108	108	0	N/A	N/A	N/A
2. Transportation	29	29	0	N/A	N/A	N/A
3. TCP/ACP ⁴	69	63	11	25	N/A	N/A
4. Special Assistance	41	41	0	N/A	N/A	N/A
5. Ambulance Guides	31	31	0	N/A	N/A	N/A
6. Communications ⁵	96	0	96	39	0	57
7. EOC Staff	134	134	N/A	N/A	N/A	N/A
8. Bus Drivers	80	68	12	0	0	12
9. School Traffic Coord.	22	0	22	0	0	22
C. EQUIPMENT						
1. Communications PHONES: (by type) (ARES):	34 48	34 0	0 48	N/A 39	N/A 39	N/A 9
2. Traffic Control	0	0	0	0	0	0
3. Life Support	0	0	0	N/A	N/A	N/A

¹ Chester County has identified 599 total transportation vehicles and is negotiating written agreements. Over 100 vehicles were under agreement or County owned as of 12/84.

² Referred to PEMA to ensure adequate resource pool. Chester County and PEMA are currently negotiating with SEPTA involving approximately 130 additional buses.

³ EPZ ambulances are designated to provide emergency services to the EPZ and evacuation routes during incident.

⁴ Does not include PSP designated ACP/TCP's.

⁵ Total needs allowing for two shift operations.

ANNEX R

TRAINING

I. PURPOSE

Chester County will promote and coordinate the participation of appropriate county and municipal officials; emergency management, fire, police, ambulance and rescue personnel; and health care, schools and special facilities staff in those activities sponsored by the State and Federal Governments and the Limerick Generating Station designed to train persons who will be called upon to assist in radiological emergency response operations. Training will include information on radiation, nuclear power generation, RERP procedures, and protective actions.

II. TRAINING DESCRIPTION

Chester County will coordinate initial and refresher training and orientation for appropriate County and Municipal EOC and Emergency Workers as well as other appropriate personnel as follows:

A. Radiological Emergency Response Planning (RERP) Training

1. The Emergency Management Institute of the Federal Emergency Management Agency (FEMA) offers a one-week course several times per year aimed at training persons responsible for planning for county response to an offsite release at a fixed nuclear facility. The emphasis of this course is the development of State and county RERP's to meet Federal guidelines. Chester County would require 15 spaces for initial training. Replacement training will be 7 spaces per year.
2. Chester County will coordinate and evaluate initial and continuing site specific radiological emergency response training and orientation which will be supported by the Philadelphia Electric Company. This training will be conducted as determined by the County as necessary to maintain emergency response capability for an incident at the Limerick Generating Station.
 - a. These courses include the basics of nuclear reactor design and operation; potential incident scenarios and offsite consequences; protective actions and authority to exceed protective action guides; and the RERP, including basic provisions, implementation, incident assessment, emergency operations under the plan and Federal, State, county and municipal relationships in an emergency.

3. PEMA offers a four to six hour generic course for radiological response personnel and elected and appointed county and local level officials. The County will request these courses to be offered as deemed necessary by the County DES Director. The DES Director will also coordinate PEMA certified courses in Radiological Monitoring and Decontamination utilizing instructors certified by PEMA.
- B. Radiological emergency response training will be offered to emergency response personnel in the 15 risk municipalities within Chester County. This training will also be offered to those departments and organizations which have mutual aid agreements with risk municipalities, departments, and organizations.
 - C. Chester County will include radiological emergency response training as part of county sponsored fire, police and ambulance/rescue, health care, school, special facility, municipal officials, and mutual aid and support personnel training when appropriate.

ANNEX S

EXERCISES AND DRILLS

I. EXERCISES

- A. An exercise is an activity which tests the integrated capability of major portions of the basic elements existing within the facility, State, county and municipal Radiological Emergency Response Plans (RERP's).
- B. Chester County will be responsible for participation in full-scale exercises as follows:
 1. Full-scale Exercises
 - a. A full-scale exercise is one which tests as much of the facility, State, county and municipal RERP's as is reasonably achievable.
 - b. An exercise will be scheduled and conducted every two years involving municipal and support elements of the Limerick RERP.

Chester County will encourage those municipalities which are part of the county and within the plume exposure pathway EPZ for Limerick to participate in the full-scale exercises. The exercises will include a thorough testing of the alerting system from the mechanical and administrative point of view, including municipal backup of the siren system.

II. DRILLS

- A. A drill is a supervised instruction period aimed at testing, developing and maintaining skills in a particular operation. A drill may be a component of an exercise.
- B. In addition to scheduled participation in exercises for the Limerick Generating Station, Chester County will conduct or take part in required drills.
- C. Chester County will encourage the participation of risk municipalities within its jurisdiction in required drills for the Limerick Generating Station.
- D. Chester County will be responsible for participation in the following drills:

1. Communications Drills

- a. Communications drills test both the adequacy of communications links and response agency understanding of emergency action levels and message content. A communications drill tests the sufficiency of the notification process down to emergency response personnel. This test involves a combination of radio contact (including ARES) and commercial telephone recall systems, and will be included as part of all scheduled exercises.

2. Medical Emergency Drills

- a. Medical emergency drills involve the testing of the emergency medical service system's abilities to care for a simulated contaminated offsite individual.
- b. Chester County will hold medical emergency drills.

3. Radiological Monitoring Drills

- a. Radiological monitoring drills involve the testing of designated and trained monitoring/decontamination team members to effectively monitor and simulate decontamination procedures for a simulated offsite contaminated individual.
- b. Chester County will hold radiological monitoring drills.

E. Chester County will make arrangements for appropriate supervision and evaluation for all drills in which it is a participant.

III. SCENARIOS

Chester County will rely on PEMA for the development of the full-scale exercise scenario.

IV. EVALUATION AND CRITIQUE

- A. A critique will be conducted by Federal and/or State representatives at the conclusion of full-scale exercise to evaluate the ability of organizations at all levels to respond as specified in their respective radiological emergency response plans.
1. Chester County will participate as appropriate with Federal and State representatives in critique and evaluation activities.
2. Chester County will encourage the participation of risk municipalities within its jurisdiction in critique and evaluation as necessary and appropriate.

- B. Based on the results of the critique and subsequent evaluation, Chester County will update its Radiological Emergency Response Plan for the Limerick Generating Station and institute corrective actions where needed.

ANNEX T
AGREEMENTS

The Chester County Department of Emergency Services has entered into or is developing support Agreements with the following:

1. American Red Cross
2. EBS Stations
3. West Whiteland Reception Center
4. Stetson Middle School Reception Center
5. Downingtown High School Reception Center
6. Morgan Corporation Reception Center
7. Exxon Transportation Staging Area
8. Elverson Fire Company
9. Lionville Fire Company
10. Valley Forge Volunteer Fire Company
11. Transportation Providers

Note 1: County Government departments or organizations providing support do not require agreements.

APPENDIX 1

ANNEX T

AGREEMENTS

(Agreements are on file at the Chester County EOC)

ANNEX U

SUPPORTING PLANS AND IMPLEMENTING PROCEDURES

- I. The following plans or procedures support the Chester County Radiological Emergency Response Plan. These plans and procedures are either a part of this plan or are maintained in the location indicated.
 - A. Municipal Radiological Emergency Response Plans (Reference Annex V).
 - B. OPLAN 1-81 (NUKE II - Chester County) - 2d Bn, 111th Inf (Reference Annex H).
 - C. School Districts:
 - 1. Downingtown Area
 - 2. Great Valley
 - 3. Owen J. Roberts
 - 4. Phoenixville Area
 - D. Private Schools
 - 1. Kimberton Farm School
 - 2. Liberty Forge School
 - 3. Valley Forge Christian Academy
 - 4. Holy Trinity School
 - 5. St. Ann School
 - 6. St. Basil the Great School
 - 7. St. Mary of the Assumption School
 - 8. St. Joseph's Kindergarten
 - E. ARES Operations Plan
 - F. Pennsylvania State Police Troop J
 - G. Hospitals and Nursing Homes (Reference Annex G)
 - 1. Coventry Manor Nursing Home (Coventryville)
 - 2. Manatawny Manor Nursing Home (E. Coventry Township)
 - 3. Phoenixville Hospital (Phoenixville)
 - 4. Phoenixville Manor Nursing Home (Phoenixville)
 - 5. Pennhurst Center (E. Vincent)
 - H. Montgomery County Limerick RERP
 - I. Berks County Limerick RERP

J. Chester County DES/EOC Implementing Procedures

1. DES Director/Operations Group
2. Field Operations Group
3. Communications Group
4. Public Information Officer
5. Fire/Rescue Group
6. Police Services Group
7. Medical/EMS Group
8. Transportation Group
9. Mass Care Group
10. Radiological Officer
11. School Services Officer
12. Agricultural Liaison Officer
13. Industrial Liaison/Public Works Officer
14. Municipal Liaison/Damage Assessment Group

K. Chester County Support Standard Operating Procedures

1. Reception Center Manager
2. Support Municipality Mass Care Guidelines
3. Decontamination Monitoring Stations
4. Transportation Staging Area Manager
5. Central Resource Receiving Point Manager
6. Chester County Communications Center
7. EOC Message Flow

ANNEX V

MUNICIPAL PLANS

The following Chester County municipalities are located within the plume exposure pathway EPZ:

1. Charlestown Township
2. East Coventry Township
3. East Nantmeal Township
4. East Pikeland Township
5. East Vincent Township
6. North Coventry Township
7. Phoenixville Borough
8. Schuylkill Township
9. South Coventry Township
10. Spring City
11. Upper Uwchlan/Uwchlan Townships
12. Warwick Township
13. West Pikeland Township
14. West Vincent Township

Each municipality has a Radiological Emergency Response Plan which has been developed in consonance with the Chester County Plan, as well as with the State and surrounding risk counties and municipalities. These plans are on file in the County EOC.

ANNEX W

MAPS

I. MAPS

The following maps are (or will become) a part of the Chester County Radiological Emergency Response Plan:

1. Sector Map of the Plume Exposure Pathway EPZ - Appendix 1 (to be developed by PEMA).
2. Sector Map of the Ingestion Exposure Pathway EPZ - Appendix 2 (to be developed by PEMA).
3. Evacuation Plan Map - Appendix 3

II. WRITTEN DESCRIPTION OF PLUME EPZ

A written description of the plume exposure pathway EPZ is provided in Appendix 4.

APPENDIX 1

ANNEX W

SECTOR MAP OF THE PLUME EPZ

To be included in final plan.

APPENDIX 2

ANNEX W

SECTOR MAP OF INGESTION EXPOSURE PATHWAY EPZ

To be included in final plan.

APPENDIX 3

ANNEX W

EVACUATION PLAN MAP

To be included in final plan.

APPENDIX 4

ANNEX W

WRITTEN DESCRIPTION OF THE LIMERICK GENERATING STATION

PLUME EXPOSURE PATHWAY EMERGENCY PLANNING ZONE

I. BERKS COUNTY

Begin at the junction of PA Route 345 and the Berks/Chester County line. Follow Route 345 north to its intersection with Legislative Route (LR) 06097. Follow LR 06097 north to Township Route 663 (at the Schuylkill River). Proceed on T 663 to LR 06179. Follow LR 06179 north to LR 06059. Proceed north on LR 06059 to its intersection with Township Route 443. Take T 443 east to its intersection with Township Route 464. Proceed north on T 464 to its intersection with A-2059. Follow A-2059 east to its intersection with LR 06187 and LR 06109 (Amityville). Then follow LR 06109 north to LR 06053. Proceed north-east on LR 06053 to its junction with the Colebrookdale/Earl Township corporate boundary. Follow the Colebrookdale/Earl Township boundary north to the Pike/Colebrookdale corporate boundary, to the Washington/Colebrookdale Boundary. Proceed along the Washington/Colebrookdale corporate boundary to its junction with Pennsylvania Route 100. Follow Route 100 north to its intersection with LR 06033. Proceed southeast along LR 06033 to its junction with the Berks/Montgomery County line.

II. MONTGOMERY COUNTY

Begin at the intersection of the Berks/Montgomery County line and LR 06033 (Berks County) and LR 46008 (Montgomery County). Proceed north along the Berks/Montgomery County line to its junction with the Upper Hanover Township/Douglass Township corporate boundary (T 391-392). Follow the Upper Hanover/Douglass Township corporate boundary to its junction with the Upper Hanover/New Hanover Township corporate boundary. Follow the Upper Hanover/New Hanover boundary to its intersection with the Upper Hanover/Marlborough Township corporate boundary. Go north along the Upper Hanover/Marlborough Township boundary to its intersection with the Marlborough/Upper Frederick Township corporate boundary (Green Lane Reservoir). Follow the Marlborough/Upper Frederick Township boundary to the Marlborough Township/Green Lane Borough corporate boundary. Proceed along the Marlborough/Green Lane boundary to its intersection with Route 63 and LR 46032. Follow Route 63 south to the Marlborough/Upper Salford Township corporate boundary. Follow the Marlborough/Upper Salford boundary to its junction with the Salford/Upper Salford corporate boundary. Proceed southeast along the Salford/Upper Salford boundary to its juncture with the Franconia/Upper Salford Township corporate boundary, and continue along this boundary to its junction with the Upper Salford/Lower Salford corporate boundary. Go southwest along the Upper Salford/Lower Salford boundary to its intersection with LR 46023. Follow LR 46023 south to its intersection with

LR 46025. Proceed east on LR 46025 to its junction with Township Route 368. Follow T 368 south to its intersection with Route 113. Continue south on Route 113 to its intersection with the Lower Salford/Skipack Township corporate boundary. Follow the Lower Salford/Skipack Township corporate boundary to the Skipack/Worcester Township corporate boundary. Proceed southeast along the Skipack/Worcester boundary to its junction with the Worcester/Lower Providence corporate boundary. Follow the Worcester/Lower Providence boundary southeast to its junction with the Lower Providence/West Norriton corporate boundary. Proceed southwest along the Lower Providence/West Norriton boundary to the Lower Providence/Upper Merion corporate boundary (at the Schuylkill River). Follow the Lower Providence/Upper Merion boundary along the Schuylkill River to the Montgomery/Chester County line.

III. CHESTER COUNTY

Follow the Chester County (Schuylkill Township)/Montgomery County (Upper Merion and Lower Providence) boundaries to junction with the Valley Forge National Historical Park boundary in Schuylkill Twp. on the River. Proceed generally west and south along the Valley Forge National Historical Park Boundary to the Tredyffrin Twp./Schuylkill Twp. boundaries. Follow the Schuylkill/Tredyffrin boundary west to its junction with the Charlestown/Tredyffrin corporate boundary. Continue along the Charlestown/Tredyffrin boundary to its intersection with the Pennsylvania Turnpike (Interstate 76). Follow the Turnpike west to its intersection with Township Route 400 (East Nantmeal). Proceed northeast along T 400 to its intersection with Pennsylvania Route 401. Follow Route 401 northwest to its intersection with Pennsylvania Route 345. Proceed north on Route 345 to its junction with the Berks County/Chester County line.

ANNEX X
INDUSTRIAL RELATIONS

I. PURPOSE

To establish a relationship with major industries and public utilities in Chester County in order to ensure full coordination with the County Department of Emergency Services in the event of an incident at the Limerick Generating Station.

II. RESPONSIBILITIES

A. County Department of Emergency Services

1. Through the Public Works Officer, establish a relationship with industries and utilities within Chester County.
2. Provide timely notification to designated major industries and utilities in the event of an incident.
3. Assist industries and utilities in preparing emergency plans, if requested.

B. Public Works Officer

1. Maintain lists and contacts for all major industries and public utilities for use in time of emergency.
2. Maintain contact with industry management on an on-going basis to determine their problems and needs in the event of an incident.
3. Assist in the development of emergency plans for industries and utilities, to include shut down, evacuation, and sheltering procedures. Insure that workers required to maintain operation or to shut down industries are identified.
4. In the event of an incident, coordinate requirements of industry to insure the best possible use of their resources, and when necessary, obtain additional assistance through emergency management channels.

III. CONCEPT OF OPERATIONS

- A. Upon mobilization of key County EOC staff (at Alert), the Public Works Officer will be notified and requested to report to the County EOC.
- B. Upon mobilization, the Public Works Officer will:

1. Maintain communications with key industries and utilities to advise them of the situation, commencing at Site Emergency.
 2. Review industry plans to determine the number of persons and resources required to shut down each industry if it becomes necessary.
- C. Should protective actions be recommended, the Public Works Officer will:
1. Relay protective action advisories received from PEMA and provide necessary assistance.
 2. Coordinate support requirements with County EMA sources.
 3. Coordinate any assistance provided by industry to the County such as personnel, vehicles and equipment.
 4. Inform PEMA of the progress of industrial shut down if it is required.

APPENDICES:

1. Industrial Emergency Planning Information

APPENDIX 1

ANNEX X

INDUSTRIAL EMERGENCY PLANNING INFORMATION

<u>Industry and Address</u>	<u>Contact Person</u>	<u>Emergency Shutdown Time</u>	<u>Telephone</u>
A. <u>Charlestown Township</u>			
1. AC Miller Concrete			644-9300
2. Myers Contracting			584-6020 584-5575
B. <u>East Coventry Township</u>			
1. Amerind-Mackessie, Inc.			495-7181
2. Little Lake Industries			326-8232
C. <u>East Pikeland Township</u>			
1. Monsey Products			933-8888
2. Cromby Power Plant			
3. Pierce/Stevens Chemical Company			933-8857
4. WATPRO			
5. Royersford Foundry			935-7200
6. Roberts Meatpacking			933-7782
D. <u>East Vincent Township</u>			
1. Sunnyslope Dairies			948-8300
E. <u>Phoenixville Borough</u>			
1. Phoenix Steel Corp.	Mr. Myers, Safety Officer		302-792-4588 (933-5400)
2. West Company			
3. SCM Products			

- | | | | |
|-----|---------------------|---|----------------------|
| 4. | A. P. DeSanno | Paul Kuzmick | 933-5891 |
| 5. | Budd Co. | | 935-0225
935-0200 |
| 6. | Leighton Industries | | 933-5832 |
| 7. | Danco Tool | John Krizamick
or
Nick Fagan | 933-8981 |
| 8. | Kimberton Knit Co. | Jay Smith, Pres.
or
Mrs. Mack, Sec. | 933-8985 |
| 9. | Bachman Company | | 933-8842 |
| 10. | Randolph Industries | Craig Goldate
or
Harry Stein | 933-8883 |
| 11. | Handi-Crafters | | 933-4240 |
| 12. | Bell Printing | | 933-2240 |
| 13. | DE-PEN Line, Inc. | | 935-1535
272-2754 |

F. Schuylkill Township

- | | | | |
|----|------------------------------------|--------------------|----------|
| 1. | American Inks and
Coating Corp. | David Smith | 933-5848 |
| 2. | Valley Forge
Instrument Co. | | 933-1806 |
| 3. | McAvoy Vitrified
Brick Co. | R. Kimball Colkert | 933-2932 |

G. Spring City Borough

- | | | | |
|----|---|-----------------------------------|----------|
| 1. | Mingo Foundry | Merrill Adams,
President | 948-4466 |
| 2. | Spring City Foundry/
Electrical Mfg. | Samuel Marcus,
President | 948-4000 |
| 3. | LaSalle Steel | Richard Treder
General Manager | 948-4600 |
| 4. | Valley Forge Flag Co. | Anna Marie Davis
Manager | 948-4900 |

5. Spring City Knitting Company 948-9400

H. Upper Uwchlan Township

1. Texas Eastern 458-8410

2. Budd Company 458-5301

3. ARCO 458-5321

(NOTE: Information left blank in this Appendix is under development by the Chester County municipalities within the plume exposure pathway EPZ.)