

627

PHILADELPHIA ELECTRIC COMPANY

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July 27, 1984

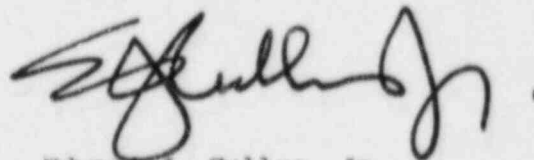
Ms. Maureen Mulligan
Limerick Ecology Action
762 Queen Street
Pottstown, PA 19464

Re: Limerick Generating Station, Units 1 and 2
Docket Nos. 50-352 & 50-353 OL

Dear Ms. Mulligan:

In accordance with the Board's Order of June 1, 1982, I am forwarding to you copies of correspondence and documents regarding emergency planning among Applicant, NRC Staff, the Commonwealth of Pennsylvania and other responsible governmental agencies. These documents supplement the material which was forwarded by our letter dated July 6, 1984, and provide additional correspondence covering the period February 14, 1984 through July 23, 1984.

Very truly yours,



Edward J. Cullen, Jr.

EJC, jr./pkc

encs.

cc: See Attached Service List

0000q/0006q

8407310287 840727
PDR ADOCK 05000352
G PDR

DS03

cc: Judge Lawrence Brenner	(w/o enclosure)
Judge Peter A. Morris	(w/o enclosure)
Judge Richard F. Cole	(w/o enclosure)
Troy B. Conner, Jr., Esq.	(w/enclosure)
Ann P. Hodgdon, Esq.	(w/enclosure)
Mr. Frank R. Romano	(w/o enclosure)
Mr. Robert L. Anthony	(w/o enclosure)
Zori G. Ferkin, Esq.	(w/enclosure)
Mr. Thomas Gerusky	(w/o enclosure)
Director, Pennsylvania Emergency Management Agency	(w/o enclosure)
Charles W. Elliott, Esq.	(w/o enclosure)
Angus Love, Esq.	(w/o enclosure)
David Wersan, Esq.	(w/o enclosure)
Robert J. Sugarman, Esq.	(w/o enclosure)
Martha W. Bush, Esq.	(w/o enclosure)
Spence W. Perry, Esq.	(w/o enclosure)
Jay M. Gutierrez, Esq.	(w/o enclosure)
Atomic Safety & Licensing Appeal Board	(w/o enclosure)
Atomic Safety & Licensing Board Panel	(w/o enclosure)
Docket & Service Section	(w/enclosure - 3 copies)
James Wiggins	(w/o enclosure)
Timothy R. S. Campbell	(w/o enclosure)



ENERGY CONSULTANTS

RIVERSIDE OFFICE CENTER 3 / 2101 N. FRONT ST. / HARRISBURG / PA 17110 / PH. (717) 236-0031
CORPORATE OFFICE: 121 SEVENTH STREET / PITTSBURGH / PA 15222-3487 / PH. (412) 4C4-5200

July 23, 1984

Mr. F. Hauff
W3NZ
437 South Lewis Road
Royersford, PA 19468

Dear Mr. Hauff:

Just a short note to thank you for participating in the July 11, 1984 emergency drill involving Upper Providence Township and Montgomery County Emergency Management Agencies.

It was a pleasure making your acquaintance.

Sincerely,

Henry C. Tamanini /ji
Henry C. Tamanini
(WA3HPH)

HCT:jr
cc. Montgomery OEP
J. Shutz (Upper Providence Twp.)



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July 23, 1984

Mr. John L. Patten
Director
Pennsylvania Emergency Management
Agency
B-151 Transportation and Safety
Building
Harrisburg, PA 17120

Dear Mr. Patten:

Please find attached copies of the revised Berks, Chester, and Montgomery County Notification Forms for use in response to a radiological emergency at the Limerick Generating Station. Note that these are not the forms which appear in the present plan drafts, but have been revised to be consistent with the PEMA notification form for use in the July 25 exercise.

Also enclosed is a copy of a notification form with suggested revisions for future consideration. They include the following:

- (1) Add "Actual Incident" and "Drill" to the upper right hand corner of the page.
- (2) Change the title to "Notification Form."
- (3) Add immediately following Item I.A information on "Time Call Received" and "Received By."
- (4) In Item I.d shorten the lines following each incident class to indicate only a check mark is required, rather than some additional information to be written in here.
- (5) In Item I.f, move the category "Is Being Released" to the bottom of the first column.
- (6) Change the title of Item II from "Under General Emergency" to "Recommendations."

At the present time, Sections I and II are completely consistent between the three risk counties, PEMA, and the onsite forms. It is our understanding following discussions with Mr. Durbin that if the counties wished to add additional information to their forms (retaining Section I and II unchanged) PEMA would not object, however, these additional sections should be preceded with the title "For County Purposes Only."

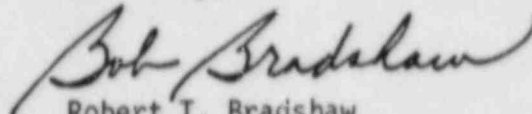
Mr. John L. Patten

(2)

July 23, 1984

I hope this information is satisfactory. If we may be of any further assistance in this matter, please contact me.

Sincerely,

A handwritten signature in cursive script, reading "Bob Bradshaw".

Robert T. Bradshaw
Limerick Project Manager

RTB:jr
cc. R. Kankus

Berks Co

APPENDIX C-3

INCIDENT NOTIFICATION FORM

I. NOTIFICATION

- a. Name of Caller: _____ Title _____
- b. Location of Incident: _____
- c. Telephone Number: _____
- d. Incident Classification: _____ UNUSUAL EVENT
_____ ALERT
_____ SITE EMERGENCY
_____ 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

III. PLANT CONDITIONS CAUSING EMERGENCY CLASSIFICATION

Chester County

Actual Emergency _____

Drill _____

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 B-3

MONTGOMERY Co

PEMA NOTIFICATION CHECKLIST

I. NOTIFICATION

- a. Name of Caller: _____ Title: _____
- b. Location of Incident: _____
- c. Telephone Number: _____
- d. Incident Class: _____ UNUSUAL EVENT
_____ ALERT
_____ SITE EMERGENCY
_____ GENERAL EMERGENCY
- e. Date/Time of Incident: _____ / _____
- f. Radioactivity: _____ Has Not Been Released _____ Is Being Released
_____ Has Been Released _____ Within Plant
_____ Will Be Released _____ 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

III. FOR COUNTY PURPOSES ONLY

Time Call Received: _____ Call Received by: _____

IV. PLANT CONDITIONS CAUSING INCIDENT CLASSIFICATION_____

_____V. CALL TO PECO LOAD DISPATCHER

(Tel: _____) By Whom: _____

VI. EMERGENCY PREPAREDNESS STAFF NOTIFIED

OEP Coordinator: _____ Time: _____

Communications Coordinator: _____ Time: _____

_____ Time: _____

_____ Time: _____

VII. ACTION REQUIRED BY STAFF_____

Activate Recall: _____ Time: _____

Authorized By: _____ Time: _____

VIII. PEMA VERIFICATION INFORMATION

a. Time/Date: _____/_____

b. Name of Caller: _____

PEMA Eastern Area _____

Headquarters _____

c. Changes/Additional Information: _____

d. Public Alert System Activation:

1. Activation Time: _____
2. Coordinated With: _____

3. Gubernatorial Declaration: _____

ADD TO PEMA
Form

~~Page 1 of 8~~
Actual Incident
Drill

APPENDIX B-3

~~PEMA~~ NOTIFICATION ~~CHECKLIST~~
Form

I. NOTIFICATION

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

SHORTENED
UNUS TO...
"Choose appropriate level"

II. ~~UNDER GENERAL EMERGENCY~~ RECOMMENDATION

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

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

LOCATION



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CORPORATE OFFICE: 121 SEVENTH STREET / PITTSBURGH / PA 15222-3487 / PH. (412) 434-5200

July 23, 1984

Mrs. Helen Zipperlen
Administrator
Camp Hill Village
Kimberton Hills
Post Office Box 155
Kimberton, PA 19442

Dear Mrs. Zillerlen:

Thank you for making an effort to have your staff available for the training which was scheduled, with your approval, for July 13, 1984. As was discussed, if you and your personnel would like to reschedule, please contact either Mr. Robert Patterson of the training office (215/495-7589) or me at 717/236-0031.

With regard to our discussion about the specific needs of your facility, I would like to arrange a meeting with Mr. David Monteith, Emergency Management Coordinator of West Vincent Township, yourself and a representative of the Chester County Department of Emergency Services (DES). Additionally, I will advise Chester County DES of your interest to visit with Mr. Schwartz of the Deveroux Foundation pertinent to the host facility arrangements.

Again, thank you for your time and comments.

Sincerely,

Henry C. Tamanini, Jr.
Henry C. Tamanini

HCT:jr

cc. R. Patterson
Chester County DES
D. Monteith, West Vincent EOC

Perkiomen Valley School District

SCHWENKSVILLE, PENNSYLVANIA 19473

B. R. STOWELL

FEB 16 1984

"Where the accent is on excellence"

NOTED

RECEIVED

February 14, 1984

WILLIAM D. WESTCOTT, Ed. D.
SuperintendentTHOMAS P. HENRY, JR.
Administrative Assistant
InstructionGEORGE L. ALTHOUSE
Business ManagerDONALD G. DILLON
Operations & MaintenanceSHARON STEHWOOD
Food Services

Beauford R. Stowell
Manager, Schuylkill Division
Philadelphia Electric Company
Plymouth Service Building
680 Ridge Pike
Plymouth Meeting, PA 19462

RECEIVED

MAR 6 1984

R. A. KANKUS

Dear Mr. Stowell:

Perkiomen Valley School District is within the 10 mile area for the Limerick Nuclear Plant. As such we are part of the evacuation plan.

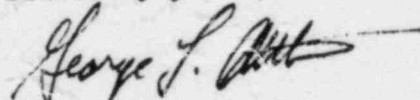
The district owned buses and vans are equipped with 2-way FM radios. The base station is located in the operations office in Schwenksville with a remote station in the transportation office nearby. Presently, our contract buses do not have radios.

The school board is investigating the possibility of equipping the contract buses with 2-way FM radios also. The cost of this is estimated in the area of \$12,000.

I am writing to you to request that Philadelphia Electric participate in this cost. The reasoning is that these vehicles will be part of the evacuation fleet and would be more valuable for this purpose due to their 2-way communication capabilities as the present district vehicles are now.

Please let me know what you and Philadelphia Electric can do in this matter.

Sincerely yours,



George L. Althouse,
Business Manager

CC: Dr. Westcott
Mr. Dillon

SERVICE

DRAFT

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

JUNE 1984

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

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

EARL M. BAKER, CHAIRMAN

ROBERT J. THOMPSON

PATRICIA MORAN BALDWIN

DATE

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

[illegible]

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 guidelines 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.
- 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. 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 devices that measure accumulated exposure to radiation.
- G. Emergency Management - The judicious 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: Unusual Event, Alert, Site Emergency and General Emergency.* Within each class there are specific emergency responses necessary to ensure that public health and safety are protected. Descriptions of the four incident classifications are as follows:

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 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 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, 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 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.

*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.

- 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 pre-emergency 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
- 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 each plume exposure pathway EPZ for the respective fixed nuclear facility in Pennsylvania were 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.)
- 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.

- 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 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.
 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.
- 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 facilities, in accordance with Act 323 of 1978, (P.L. 1332).
- CC. 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.
- DD. 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.
- EE. Risk Counties - Those counties partially or wholly within the plume exposure pathway EPZ of a fixed nuclear facility.
- FF. 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.

- GG. 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."
- HH. 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.
- II. 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.
- JJ. 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.")
- KK. 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.
- 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 areas 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 relationships 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 a 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 based on recommendations received from the Pennsylvania Emergency Management Agency or the Chester County Department of Emergency Services.

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 reasonably consistent with the Commonwealth's Radiological Emergency Response Plan (PEMA 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.

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, consistent with Annex E to the Commonwealth of Pennsylvania Disaster Operations Plan.
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.
8. Reviewing access control points, traffic control points, and major evacuation routes selected by PEMA, PennDOT 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. Establishing, maintaining and ensuring 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 a biennial exercise 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 by the Limerick Generating Station.
24. Participating in the annual State/risk counties/Limerick news conference arranged by PEMA.
25. Reviewing the Limerick Generating Station's 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.
27. Coordinating training in radiological emergency response for county and municipal personnel who will serve as emergency workers in a radiological emergency.

B. Chester County Staff Assignments

1. Chester County Director of Emergency Services or Designate
 - a. Acting 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 on an annual basis.
 - e. Develops and maintains all contracts and agreements necessary to provide adequate support for emergency operations.
2. Chester County Deputy Director for Communications or Designate
- 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 EUC 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 EUC.
3. EOC Operations Group
- a. Oversees activation and coordinates operations of the EUC.
 - b. Assures the timely flow of information between the EUC and the County Communications Centers.
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.

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 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 throughout the county.
- d. Prepares and releases emergency information and instructions, as directed by the Director of Emergency Services and the County Commissioners.
- e. Initiates and supervises operation of the rumor control operation.

- f. Initiates, under the direction of the DES Director, appropriate EBS announcements and monitors EBS stations to verify accuracy.
 - g. Prepares and distributes public information materials prior to an emergency.
 - h. 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
 - 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.

C. 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.

D. 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.

E. Chester County Municipalities - General

Under the Pennsylvania Emergency Management Services Act of 1978, P.L. 1332, municipalities are responsible for the following:

1. Prepare and maintain a disaster emergency management plan capable of activation on a twenty-four hour basis.
2. Establish, equip and staff an emergency operations center.
3. Provide individual and organizational training programs.
4. Organize, prepare and coordinate all locally available manpower, materials, supplies, equipment, facilities and services necessary for disaster emergency readiness, response and recovery.
5. Adopt and implement precautionary measures to mitigate the anticipated effects of disaster.
6. Execute and enforce such rules and orders as the Pennsylvania Emergency Management Agency will adopt and promulgate under the authority of the Act.
7. Cooperate and coordinate with any public and private agency or entity in achieving any purpose of the Act.
8. Provide prompt and accurate information regarding local disaster emergencies to appropriate Commonwealth and local officials and agencies and the general public.
9. Appoint a local Emergency Management Coordinator.

Specific roles and responsibilities of municipalities in regard to this plan include:

1. Developing a municipal Radiological Emergency Response Plan that is consistent with the Chester County Plan.
2. Providing for fire and rescue protection to include protection if the area has been evacuated.
3. Assuring that all municipal emergency personnel, including volunteers, have received training for radiological emergency responses.
4. Arranging for the orderly reentry of evacuees within the municipality.
5. Maintaining a listing of all non-ambulatory residents and other residents who will require special assistance in the event of evacuation.
6. Determining all unmet needs and report of same to the Chester County EOC.
7. Planning of supplemental support to the public alert system to ensure 100% notification of the population of the municipality.

8. Assuring that all Traffic Control Points/Access Control Points within the municipality are staffed.
9. Designating municipal pickup points and provisions for adequate transportation resources to municipal residents in need of transportation in event of an evacuation.
10. Developing and maintaining plans for continued government operations in the event of evacuation.
11. Distributing dosimetry and thyroid blocking to emergency workers.
12. Providing for municipal security, including security of the area if evacuation or sheltering has taken place.

F. Pennsylvania State Police

1. Provides liaison personnel to the County EOC.
2. Provides security and staffs traffic control points within their area of responsibility.
3. 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.

G. Pennsylvania National Guard

1. Provides a liaison person to the Chester County EOC, upon request, for coordination of requests of National Guard assistance.
2. Provides assistance in the areas of traffic control, access control, security, or other assistance as requested by Chester County.

H. Pennsylvania Department of Agriculture

1. Develops plans and procedures for the protection of food production resources within the ingestion exposure pathway EPZ.

I. 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 in 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 areas 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/EUC

1. Unusual Event

- a. Officially log message.
- b. Dispatch back-up emergency fire or medical services if requested by the parent 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 EUC personnel and request selected individuals to report to the County EUC. 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 EUC'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 distribute dosimetry, survey meters and KI where such have not been distributed in advance, and 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.
- 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 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.

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. Through PEMA, coordinate the time for activating the public alerting system.
- e. Announce the declaration of a General Emergency and designated public alert system activation time on all county communications frequencies including ARES.
- f. In coordination with the Pennsylvania State Police liaison, dispatch traffic control and access control personnel to their designated duty stations.
- g. Activate the public alerting system and initiate EBS announcements upon notification by PEMA.
- h. Immediately announce on all county communications frequencies and ARES that the public alert system has been activated.
- i. Conduct route alerting, as necessary.
- j. Activate reception centers and primary mass care centers.
- k. Activate central resource receiving point and transportation staging areas.
- 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 the public alerting system and initiate EBS announcements upon notification by PEMA.
- n. Activate decontamination monitoring stations.
- o. 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.
- p. 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
2. Federal Emergency Management Agency, Region III (through PEMA)
3. Pennsylvania Emergency Management Agency, Headquarters
4. Pennsylvania Emergency Management Agency, Eastern Area

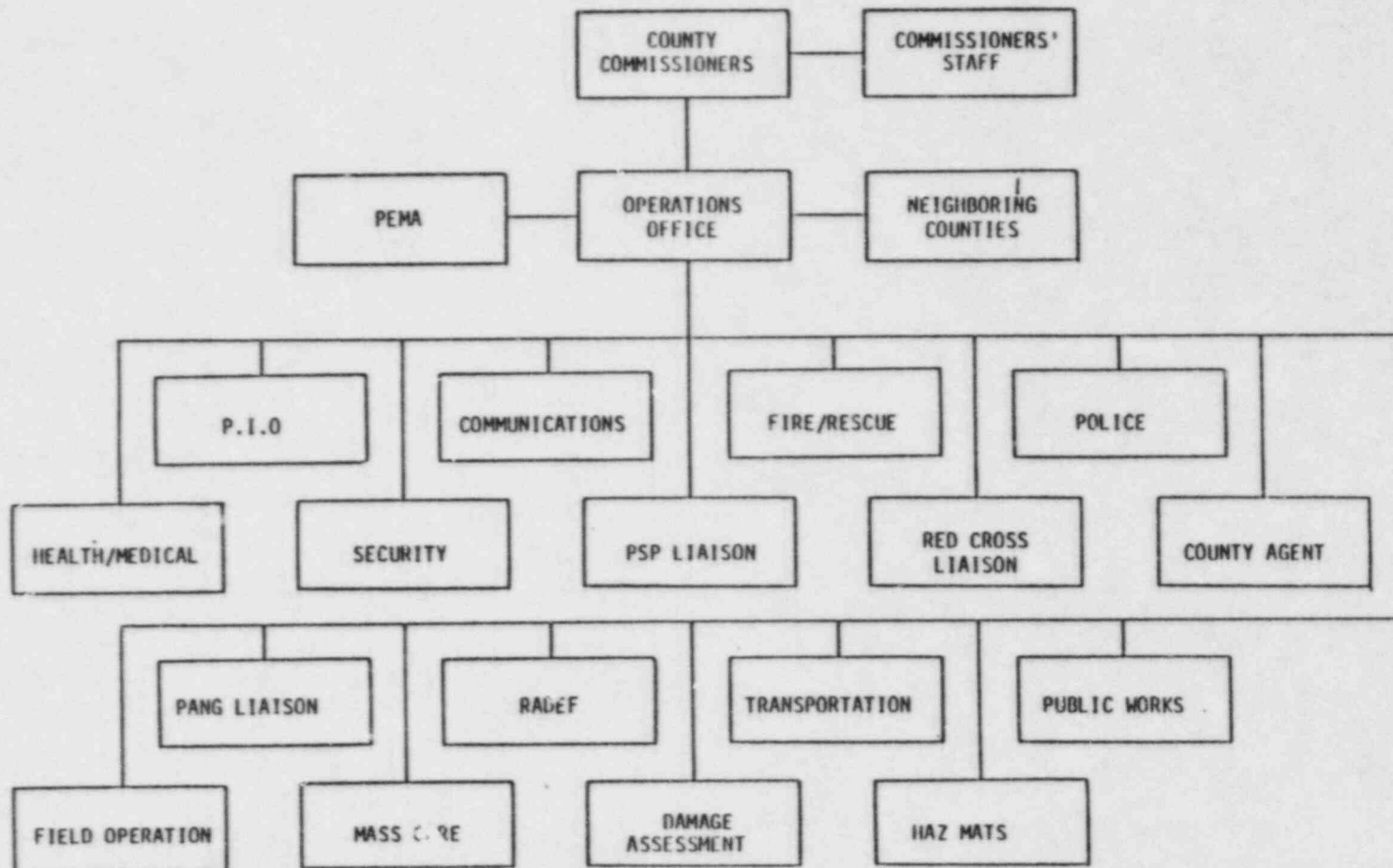
5. Chester County municipalities located within the Plume Exposure Pathway EPZ
6. Limerick Generating Station
7. All other risk and support counties to the Limerick Generating Station
8. Chester County Department of Emergency Services staff
9. Chester County Communications Center
10. Downingtown Area, Great Valley, Owen J. Roberts, and Phoenixville Area School Districts
11. Chester County libraries, and municipal libraries of those municipalities located within the plume exposure pathway EPZ

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 |

APPENDIX 1

CHESTER COUNTY
EMERGENCY OPERATIONS CENTER
ORGANIZATION CHART



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	-	-	-	-	-	-	P	S	S	S	-	-	S
Fire and Rescue	-	S	S	P	S	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
Traffic Control	-	S	P	S	-	S	S	S	S	-	-	-	-	S	S
Mass Care	-	S	-	-	S	S	S	S	S	P	S	-	P	S	-
Radiological Exposure Control	-	S	-	-	S	S	-	-	S	S	P	-	-	-	-
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	P	-	S	S	-	-	-	-
Training	-	P	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
Supporting Plans and Imp. Procedures	-	S	-	-	-	-	-	-	-	-	-	-	-	-	P
Municipal Plans	-	S	-	-	-	-	-	-	-	-	-	-	-	-	P
Maps	-	P	S	S	S	-	-	-	-	-	-	-	-	-	S
Industrial Liaison	-	S	-	-	-	S	-	P	-	-	-	-	-	-	S

APPENDIX A-2

MUNICIPAL EOC LOCATIONS

Charlestown Township.....	Grange Building	TBD
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 St.	323-1694
Phoenixville.....	E. Wing, Phoenixville Hosp, 140 Nutt Rd.	933-8801
Schuylkill Township.....	Township Bldg., 801 Valley Park Rd.	933-5843
South Coventry Township.....	TBD	TBD
Spring City.....	Borough Bldg., Hall & Church Sts.	948-3660
Upper Uwchlan Township.....	Township Bldg.	TBD
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

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 - Plans for and responds to incidents within the municipality utilizing municipal resources.
- V. American Red Cross - Coordinates services of voluntary organizations per agreement between local chapters and emergency management.
- 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 PEMA and risk counties of emergency situation.

APPENDIX 4

POSITION RESPONSIBILITIES - CHESTER COUNTY EOC

<u>POSITION</u>	<u>RESPONSIBILITIES</u>
County Commissioners.....	Overall responsibility for the emergency response.
Commissioners Staff.....	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.....	Public information program and news release.
Secretaries.....	Receptionist and telephone operator.
Mass Care Group Chief.....	Directs reception and mass care center operations.
Police Group Chief.....	Security and traffic control.
Fire/Rescue Group Chief.....	Fire extinguishment/assists in warning/rescue/route alerting.
Medical/EMS Group Chief.....	Plans/implements medical response.
Transportation Group Chief.....	Transportation.
Communications Group Chief.....	Communications and Warning.
ARES.....	Provides amateur radio communications during emergency operations.
Radiological Officer.....	Coordinates personnel and public radiological monitoring and decontamination.
Public Works/Industrial Liaison Group Chief.....	Coordinates resource requirements. Coordinates damage assessment and serves as industrial liaison.
Liaison Agencies Representatives.....	Coordinates activities.

APPENDIX 4

POSITION RESPONSIBILITIES - CHESTER COUNTY EOC CONT'D.

POSITIONS

RESPONSIBILITIES

Hazardous Materials Group Chief.....	Supports Radiological Group.
County Agent.....	Certifies farmers as emergency workers; provides advice on agricultural 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.

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.

1

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EMERGENCY ACTION LEVELSClass

ALERT

Class Description

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.

Purpose

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.

Licensee Actions

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 to standby status.
3. 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.

State and/or Local Off-Site Authority Actions

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.

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 INT'D.
EMERGENCY ACTION LEVELS

<u>Class</u>	<u>Licensee Actions</u>	<u>State and/or Local Off-Site Authority Actions</u>
<p><u>SITE EMERGENCY</u></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. 7. Provide meteorological and dose estimates to off-site authorities for actual releases via a dedicated individual or automated data transmission. 	<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. 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.

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>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><u>or</u></p> <p>10. Close out or recommend reduction in emergency class by briefing off-site authorities at EOF and by phone followed by written summary within 8 hours of closeout or class reduction.</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>

EMERGENCY ACTION LEVELSClass

GENERAL EMERGENCY

Class Description

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.

Purpose

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.

Licensee Actions

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.

State and/or Local Off-Site Authority Actions

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.

EMERGENCY ACTION LEVELSClassLicensee ActionsState and/or Local Off-Site
Authority Actions

GENERAL EMERGENCY CONT'D.

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 projections 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.

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 Chester County Department of Emergency Services Director 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 Director of Finance, the Personnel Manager, the head of the Purchasing Department, 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-4 EOC Operational Organization - Fixed Nuclear Incidents

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

STAFF SUPPORT

Gary Brown
Jane Peirson
Ted Jacobs
Bob Applegarth

POLICE

Charles Zgorski
Al Myers

FIRE/RESCUE SERVICES

Larry Greeley
Leroy Klinger

MASS CARE/SHELTER

Thomas Burd
Peter Perry
Mahlon Fiscell
Wayne Stevenson

FIELD OPERATIONS

Mark Force
William H. Winters
Rick Gilbert

MEDICAL EMS

Dr. J. Maher
Dr. D. Kuokos
Steven Webb
Mark Abbott

COMMUNICATIONS/ALERTING

M. J. Groce
Joseph LeBresco

TRANSPORTATION

George Fasic
Wayne Clapp

PUBLIC WORKS/INDUSTRIAL RELATIONS

R. Wilking
W. Betz

DAMAGE ASSESSMENT/MUNICIPAL
LIAISON

Bob Box
H. Williams

RADIOLOGICAL DEFENSE

Walt Leuchak
Dave Jackson

PUBLIC INFORMATION

Molly Morrison
Ken Stewart

HAZARDOUS MATERIALS

J. Ferrante
G. Turner

SCHOOL SERVICES

Harry Schreiner

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

APPENDIX A-2

MUNICIPAL EOC LOCATIONS

Charlestown Township.....	Great Valley School District Administration Building	TBD
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 St.	323-1694
Phoenixville.....	E. Wing, Phoenixville Hosp, 140 Nutt Rd.	933-8801
Schuylkill Township.....	Township Bldg., 801 Valley Park Rd.	933-5843
South Coventry Township.....	TBD	TBD
Spring City.....	Borough Bldg., Hall & Church Sts.	948-3660
Upper Uwchlan Township.....	Township Bldg.	TBD
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

MUNICIPAL RELOCATION EUC'S

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..... Chester County Library

Spring City..... Chester County Library

Upper Uwchlan Township..... Uwchlan Township Building

Uwchlan Township..... N/A

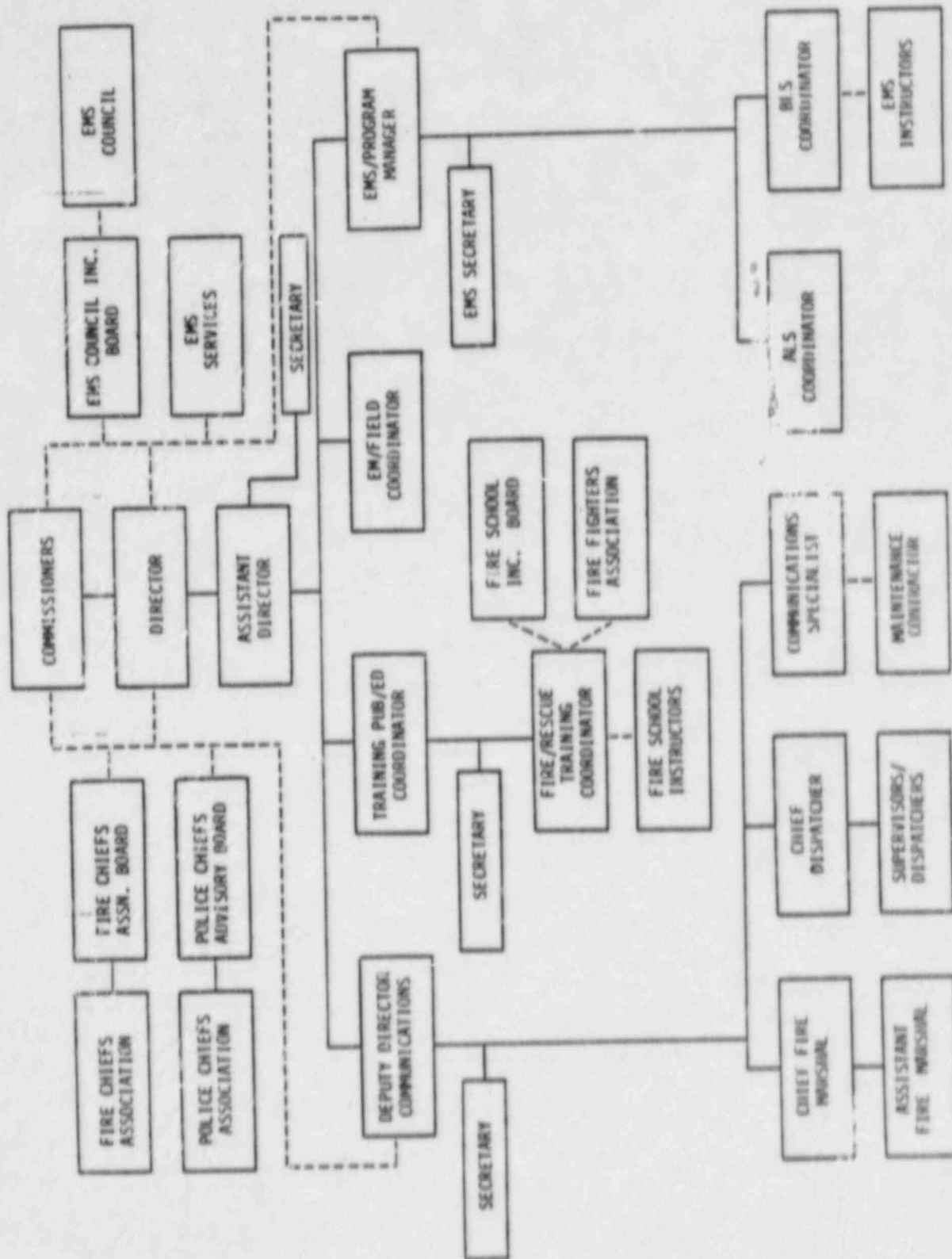
Warwick Township..... West Nantmeal Township Building

West Pikeland..... Uwchlan Township Building

West Vincent..... Chester County Library

APPENDIX A-3

ADMINISTRATIVE ORGANIZATION - CHESTER COUNTY DEPARTMENT OF EMERGENCY SERVICES



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.
 - 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.

- B. Any required communications with other State or Federal agencies will be handled through PEMA.
- C. 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 modification as requested by DES Director.
- 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 the County EOC to pick up dosimetry, survey meters and KI for delivery to municipalities located within the plume exposure pathway EPZ to which such have not been distributed, and to pick up Control TLD's to which such 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	Earl Baker	Chairman, County Commissioners		431-6100
3	Robert J. Thompson	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		431-6160
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. EBS Stations (Chester County Net)

Chester County is installing a High Band VHF 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	0.05kW
WCHE	West Chester	1520 AM	0.25kW D

6. 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.

7. Citizen Access

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

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 McLear | 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. Four-Wheel Drive

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. Exton Mall 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

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 ensuring 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 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) 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 must 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 manned 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 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. 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. This is a municipal responsibility. 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 in accordance with standard operating procedures.
- 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 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 notifies 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)
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. Alert/notifications for Alert are completed.
2. Remaining EOC staff are mobilized.
3. Southeastern Chapter of American Red Cross staff are notified and mobilized and directed 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

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 Agency, 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 must 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. Agreement

For purposes of clarity and management, an Emergency Broadcast System (EBS) agreement has been developed and executed by and between the Chester County Department of Emergency Services and Radio Station WCAU. The agreement addresses the terms and conditions of the relationship, activation, message format and applicable rules and regulations. A copy of the agreement appears in ANNEX T.

D. 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.

E. 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
-- EBS Message #3
-- EBS Message #4
etc.

(reference EBS messages
in Annex D)

F. 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 available by pager, radio, and/or telephone and 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 remedial 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.

Chester County
Actual Emergency _____
Drill _____

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) station, WCAU.
 - 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 EGS Systems procedures.

APPENDIX C-5

RISK MUNICIPAL EMA COORDINATORS

	<u>Municipality Name</u>	<u>Coordinator & Address</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.

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

-TBD-

APPENDIX C-8

ROUTE ALERT ZONE MAP (EXAMPLE)

-TBD-

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

APPENDIX 1

ANNEX D

TAKE SHELTER EBS 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.)

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 man 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 spokes-

APPENDIX 2

ANNEX D

SELECTIVE EVACUATION ERS 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.

Pregnant women and pre-school children needing shelter will be received at Gordon Jr. High School located at 351 Kersey St. Coatesville. Person 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.)

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.)

person 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 station WCAU 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 coordination with the PEMA PIO.
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: Take Shelter EBS Announcement
Appendix 2: Selective Evacuation EBS Announcement

APPENDIX 3

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 2:	Selective Evacuation EBS Announcement
Appendix 3:	General Evacuation EBS Announcement
Appendix 4:	School Evacuation EBS Announcement
Appendix 5:	Reentry and Recovery EBS Announcement
Appendix 6:	EBS Station Announcement
Appendix 7:	Transient Locations Within the Chester County Plume EPZ

APPENDIX 4

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 bused to Downingtown Jr./Sr. High School 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 5

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 6

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 7

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 326-1644	North Coventry

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

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 21

Union Fire Company No. 1
Oxford

Station 22

West Grove Fire Company
West Grove

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

Station 31

Sadsburyville Fire Company
Sadsburyville

Station 32

ELVERSON FIRE COMPANY
Elverson

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

(EP2 Risk Fire/Rescue Companies are capitalized.)

APPENDIX 1
ANNEX E
CHESTER COUNTY FIRE AND 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 8*

Friendship Fire Company No. 1
Geigertown

Station 9*

Friendship Fire Company
Morgantown

Station 21

Union Fire Company No. 1
Oxford

Station 22

West Grove Fire Company
West Grove

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

Station 31

Sadsburyville Fire Company
Sadsburyville

Station 32

ELVERSON FIRE COMPANY
Elverson

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

(EPZ, Fire/Rescue Companies are capitalized.)

Rice

Station 33

Honeybrook Fire Company
Honeybrook

Station 34

Martins Corner Fire Company
Coatesville

Station 35

Wagontown Fire Company
Wagontown

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 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 44

Westwood Fire Company
Coatesville

Station 45

Alert Fire Company No. 1
Downingtown

Station 46

Minquas Fire Company No. 2
Downingtown

Station 47

LIONVILLE FIRE COMPANY
Lionville

Station 47A

UWCHLAN AMBULANCE CORPS
Uwchlan

Station 48

Glenmore Fire Company
Glenmore

Station 49

East Brandywine Fire Company
Downingtown

Station 51

First West Chester Fire Company
West Chester

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

Station 55

Goodfellowship Ambulance Club
West Chester

Station 56

Goshen Fire Company - Hershey's Mill
Substation
West Chester

Station 61

KIMBERTON FIRE COMPANY
Kimberton

Station 62

RIDGE FIRE COMPANY
Spring City

Station 63

LIBERTY FIRE COMPANY
Spring City

Station 63A

SPRING CITY AREA AMBULANCE ASSOC.
Spring City

Station 64

NURCO 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 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 73

LUDWIGS CORNER FIRE COMPANY
Glenmore

Station 74

BRANDYWINE MANOR RESCUE SQUAD
Brandamore

Station 75

Lukens Steel Company Fire Company
Coatesville

Station 76

Coatesville VA Hospital Fire Company
Coatesville

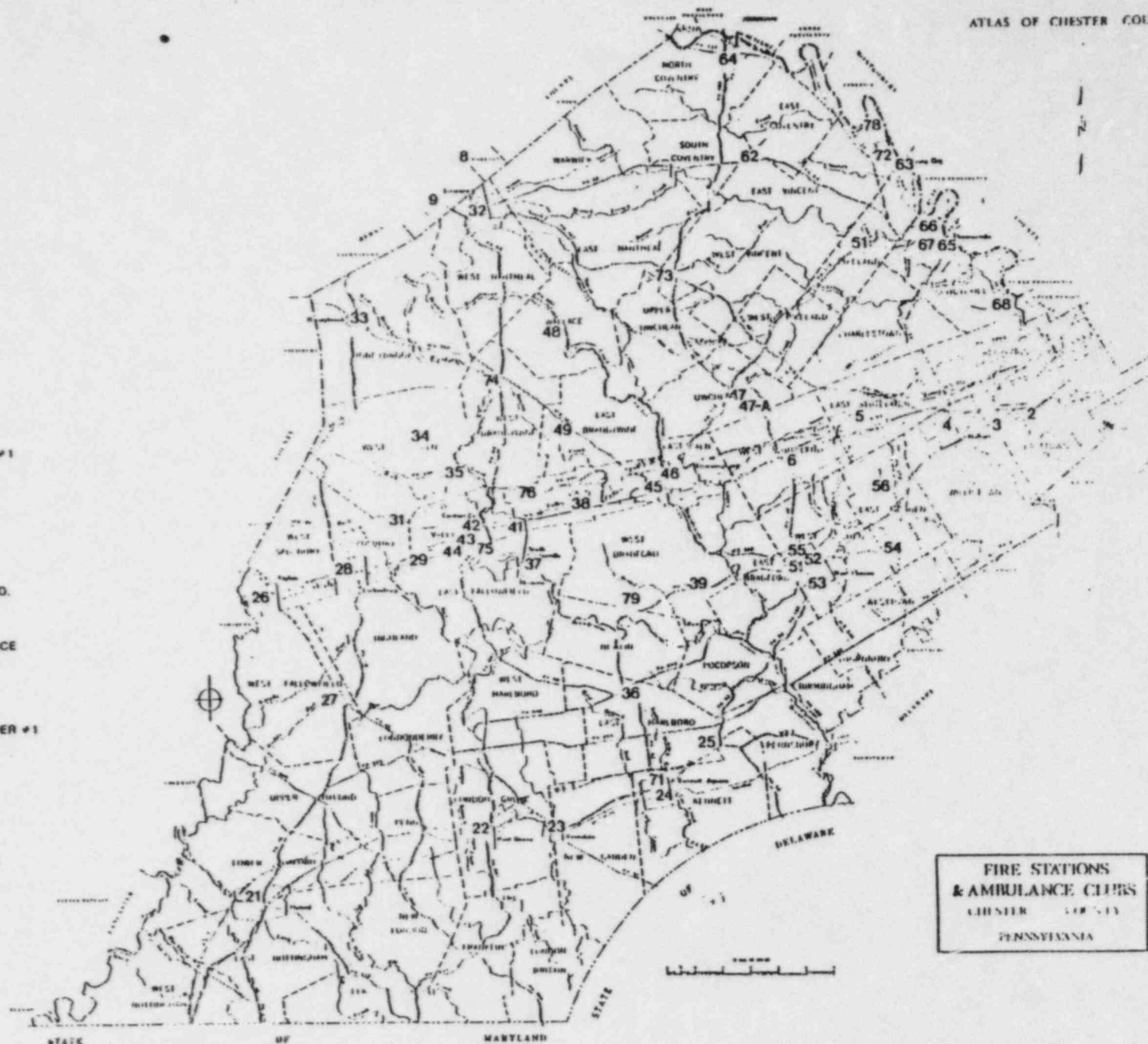
Station 78

PENNHURST FIRE DEPARTMENT
Spring City

Station 79

Embreeville State Hospital
Coatesville

STATION NO.	NAME
2	BETHWYN FIRE CO.
3	PAOLI FIRE CO.
4	MALVERN FIRE CO.
5	EAST WHELAN FIRE CO.
6	EXTON FIRE CO.
8	GERGERTOWN FIRE CO.
9	MORGANTOWN FIRE CO.
21	UNION FIRE CO. OF OXFORD
22	WEST GROVE FIRE CO.
23	AVONDALE FIRE CO.
24	KENNETT FIRE CO.
25	LONGWOOD FIRE CO.
26	ATGLEN FIRE CO.
27	COCHRANVILLE FIRE CO.
28	PARKESBURG FIRE CO.
29	POHEROY FIRE CO.
31	SADSBURYVILLE FIRE CO.
32	ELVERSON FIRE CO.
33	HONEYBROOK FIRE CO.
34	MARTIN'S CORNER FIRE CO.
35	YAGONTOWN FIRE CO.
36	PO-MAR-LIN FIRE CO.
37	MODENA FIRE CO.
38	THORNDALE FIRE CO.
39	WEST BRADFORD FIRE CO.
41	WASHINGTON HOSE FIRE CO. #1
42	BRANDYWINE FIRE CO. #2
43	WEST END FIRE CO. #3
44	WESTWOOD FIRE CO.
45	ALERT FIRE CO. #1
46	MIRQUIS FIRE CO. #2
47	LIONVILLE FIRE CO.
47-A	UNION FIRE CO.
48	GLEIMORE FIRE CO.
49	EAST BRANDYWINE FIRE CO.
51	FIRST WEST CHESTER FIRE CO.
52	GOODWILL FIRE CO.
53	FAME FIRE CO. #3
54	GOSHEN FIRE CO.
55	GOOD FELLOWSHIP AMBULANCE
56	HERSHEY MILL FIRE CO.
61	KENNETT FIRE CO.
62	HEDGE FIRE CO.
63	LIBERTY FIRE CO.
64	NORCO FIRE CO.
65	PHOENIX HOSE HOOK & LADDER #1
66	FIREBROS FIRE CO. #2
67	WEST END FIRE CO. #3
68	VALLEY FORGE FIRE CO.
71	SO. CHESCO RESCUE ASSN.
72	SPRINGFORD AMB. & RESCUE
73	LUDWIG'S CORNER FIRE CO.
74	MANOR RESCUE FIRE CO.
75	LUKENS STEEL FIRE CO.
76	COATESVILLE VA HOSPITAL
78	PENNBURST HOSPITAL
79	EMERSONVILLE HOSPITAL



FIRE STATIONS
& AMBULANCE CLUBS
CHESTER COUNTY
PENNSYLVANIA

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.	Uwchlan Ambulance Station
4. Norco Fire Co.	Union Fire Department, 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
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. Parkesbury 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. 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 | |

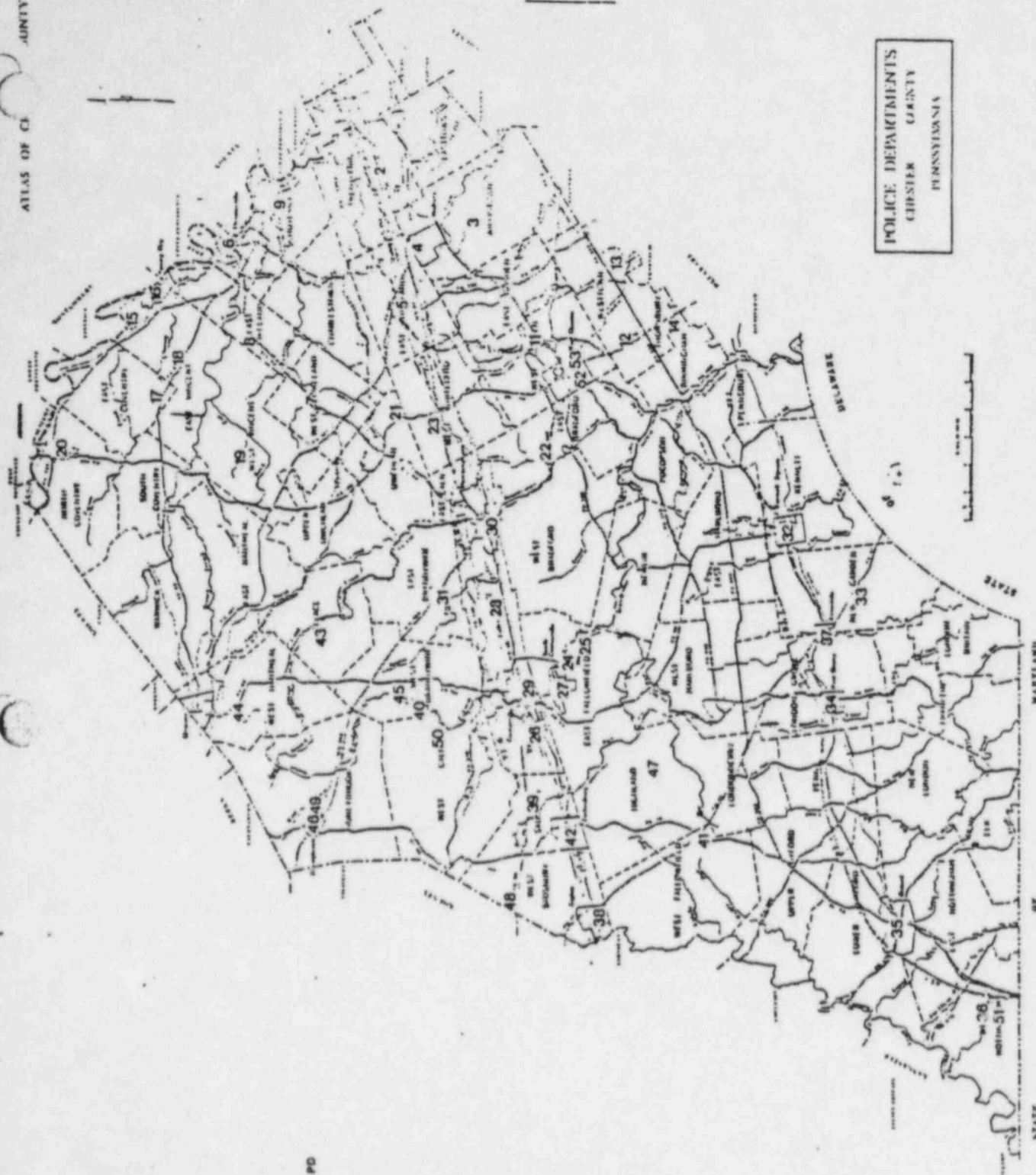
B. Townships Covered Full-Time by the Pennsylvania State Police:

- | | |
|-----------------------------|-------------------------------|
| 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 (PUTTSTOWN P.D.)

POLICE DEPARTMENTS
CHESTER COUNTY
PENNSYLVANIA



EAST DISTRICT

1. EASTTOWN TWP.
2. THEODORF TWP.
3. WELLSVILLE TWP.
4. MALVERN BORO
5. EAST WHITELAND TWP.

CENTRAL DISTRICT

6. PHOENIXVILLE BORO
7. WEST PHILADELPHIA TWP.
8. EAST PHILADELPHIA TWP.
9. SCHUYLKILL TWP.
10. WEST CHESTER BORO
11. WEST GOSHEN TWP.
12. WESTTOWN TWP.
13. THORNTON TWP.
14. BIRMGHAM TWP.
15. PENNUNIST STATE HOSPITAL PD
16. SPRING CITY BORO
17. EAST COVENTRY TWP.
18. EAST VINCENT TWP.
19. WEST VINCENT TWP.
20. NORTH COVENTRY TWP.
21. UPRICHAH TWP.
22. EAST BRADY FORD TWP.
23. WEST WHITELAND TWP.

WEST DISTRICT

24. MOORENA BORO
25. EAST FALLOWFIELD TWP.
26. VALLEY TWP.
27. SOUTH COATESVILLE BORO
28. CALH TWP.
29. COATESVILLE CITY
30. DOWNINGTOWN BORO
31. EAST BRANDYWINE TWP.
32. KENNETT SQUARE BORO
33. NEW GARDEN TWP.
34. WEST GROVE BORO
35. OXFORD BORO
36. WEST NOTTINGHAM TWP.
37. AVONDALE BORO
38. ATGLEN BORO
39. SAUSBURRY TWP.
40. WEST CALH TWP.
41. WEST FALLOWFIELD TWP.
42. PARKESBURG BORO
43. WALLACE TWP.
44. WEST HANTMEAL TWP.
45. WEST BRANDYWINE TWP.
46. HONEYBROOK BORO
47. HIGHLAND TWP.
48. WEST SAUSBURRY TWP.
49. HONEYBROOK TWP.
50. HIDEPIPA PARK PD.
51. NOTTINGHAM PARK PD.
52. COUNTY DETECTIVES
53. SHERIFF DEPT.

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.	N/A
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 High School (Berks Co.)

APPENDIX 4ANNEX FCHESTER 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	Pennsylvania State Police (PSP)
201*	Rt. 29 (Morehall Rd.) & LR 15134 (Whitehorse Rd.)	No traffic North on White Horse	1	PSP
202	Rt. 29 (Morehall Rd.) & LR 15049 (Charlestown Rd.)	No traffic North on Rt. 29 or Charlestown Rd.	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 Rd.)	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 (Lionville 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 (Township 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	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 (Creamary Rd.)	No traffic on Hedge Rd.	1	PSP
214	T400 (Marsh Rd.) & Adams Dr.	No traffic on Marsh Road	1	PSP
215*	Rt. 401 & Rt. 345	No traffic East on Rt. 401	2	PSP

WARWICK TOWNSHIP

216	Rt. 345 & T409 (Redding Furnance Road)	No traffic East on Redding Furnance Road	1	PSP
217*	Rt. 23 & Rt. 345	No traffic East on Rt. 23	1	PSP
218	Rt. 345 & T533 (Warwick Rd.)	No traffic East on Warwick Rd.	1	PSP
219	Rt. 345 & T529 (Northside Road)	No traffic East on Northside Road	1	PSP
220	Rt. 345 & LR 15129 (Harmonyville Rd.)	No traffic East on Harmonyville Road	1	PSP
221	Rt. 345 & T400 (Laurel Rd.)	No traffic South on Laurel Road	1	PSP

MONTGOMERY COUNTY (Listed for Information Purposes Only)

Rt. 23 & Rt. 252	No traffic West on Rt. 23	1	Valley Forge Park Police
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* 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 5ANNEX FCHESTER 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 & Coventryville Road (T517)	South Coventry	2	PSP
31	Rt. 23 & Rt. 100	South Coventry	2	PSP
32	Rt. 23 & Daisy Point Rd.	South Coventry	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 Road (LR 15052)	Upper Uwchlan	2	PSP
39	Rt. 100 & Rt. 113	Uwchlan	2	PSP
40	Rt. 113 & Rt. 30 By Pass	East Cain	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
-1	Rt. 401/Valley Hill Road	Charlestown	1	Charlestown Twp.
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.
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/Stoney 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.
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.
-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 St.	Phoenixville	1	Phoenixville 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 Rd.	Schuylkill	1	Schuylkill Twp. P.D.
SK-6	White Horse Road/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/Daisy Point 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	Warwick Twp. P.D.
W-2	Rt. 23/County Park Road	Warwick	1	Warwick Twp. P.D.
WP-1	Rt. 113/Pikeland Road	West Pikeland	1	West Pikeland Twp. P.D.
U-4	Gordon Drive/Rt. 100	Uwchlan	1	Uwchlan Twp. P.D.
U-5	Gordon Drive/Rt. 113	Upper Uwchlan	1	Uwchlan/Upper Uwchlan 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.
WV-1	Birchrun 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	Swedesford Road/Rt. 100	West Whiteland	1	West Whiteland Twp. P.D.
WHITE-2	Rt. 30/Exton Mall Exit	West Whiteland	1	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.

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./Sr. 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

I. <u>Hospitals</u>	<u>Capacity</u>	<u>Host Facility</u>
A. Phoenixville Hospital	195	Paoli Memorial Hospital
II. <u>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 North Penn Convalescent Ctr. Lansdale Doylestown Manor, Doylestown
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 Persons¹</u>	<u>Ambulances Required²</u>
1. Charlestown	2	1
2. East Coventry	2	2
3. East Nantmeal	1	1
4. East Pikeland	2	1
5. East Vincent	2	2
6. North Coventry	3	2
7. Phoenixville	5	7
8. Schuylkill	3	5
9. South Coventry	1	1
10. Spring City	2	3
11. Upper Uwchlan	1	1
12. Uwchlan	0	0
13. Warwick	1	1
14. West Pikeland	1	1
15. West Vincent	1	1
TOTAL	<u>27</u>	<u>28</u>

1 Estimate based upon a statistical analysis conducted by the U.S. Department of Health and Human Services, 1977. For the purpose of this plan, fractional figures were rounded upwards and reflect the percentage of the municipality's population at risk. These figures will be updated by annual survey of the population.

2 Based on initial results of mail survey.

APPENDIX 4

ANNEX G

CHESTER COUNTY AMBULANCE RESOURCES*

	<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
<u>Station 36A:</u>	<u>Unionville Ambulance Corp.</u> Unionville	1

*Risk ambulance services are capitalized.

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

*Risk ambulance services are capitalized.

APPENDIX 5

ANNEX G

TENTATIVE RELOCATION SITES FOR RISK CHESTER COUNTY AMBULANCES/
RESCUE VEHICLES WITHIN THE EPZ

<u>Risk Facility</u>	<u>Tentative Relocation Site</u>
1. West End Fire Company (Phoenixville)	TBD
2. Spring City Ambulance	Uwchlan Ambulance Station
3. Springford Rescue	Uwchlan Ambulance Station
4. East Whiteland	N/A
5. Elverson Ambulance	N/A
6. Uwchlan Ambulance	N/A

ATTACHMENT A
APPENDIX 6
ANNEX G

SPECIAL FACILITIES AMBULANCE REQUIREMENTS

Hospitals

Phoenixville	<u>20</u>
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Nursing Homes

Coventry Manor	6
Manatawny Manor	10
Phoenixville Manor	<u>10</u>

Total	46
-------	----

ATTACHMENT B

APPENDIX 6

ANNEX G

CENSUS AND TRANSPORTATION REQUIREMENTS FORM

DATE/TIME

PHOENIXVILLE HOSPITAL

PATIENT CLASS	TRANSPORTATION REQUIREMENTS			TOTAL CENSUS
	AMBULANCE	TRUCK	BUS/VAN	
MATERNITY				
PSYCHIATRICS				
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	TRUCK	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	TRUCK	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	TRUCK	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	TRUCK	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. Security
 - 4. 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
U616304 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: ROME0

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, UPLAN 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) MOB 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 AMBU 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 advise 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 and request assignment of an ARES unit from Communications Group Chief. (Note: Activation of the transportation staging area may occur at Site Emergency; if so, follow additional procedures under General Emergency).
4. School district superintendents, the Archdiocese of Philadelphia, private schools and colleges and private bus resources are notified to mobilize buses and drivers needed for evacuation.
5. Confirm the mobilization of ambulance resources with the Medical/EMS Group Chief.
6. Mobilize transportation resources needed for the pick up of residents without transportation.
7. If the situation requires it, 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.)
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. Hold 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 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. Lyndale 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
<hr/>	
TOTAL AMBULANCES	45

II. BUS RESOURCES*

	<u>Total</u>
Name:	
Address:	

*Chester County DES has tentatively identified over 200 buses and drivers and is negotiating letters of agreement.

APPENDIX 2

ANNEX 1

CHESTER COUNTY BUS REQUIREMENTS
FOR PERSONS WITHOUT TRANSPORTATION

<u>MUNICIPALITY</u>	<u>PERSONS W/O TRANSPORTATION¹</u>	<u>BUSES REQUIRED²</u>
Charlestown	23	1
E. Coventry	62	2
E. Nantmeal	15	1
E. Pikeland	29	1
E. Vincent	50	2
N. Coventry	108	3
Phoenixville	308	8
Schuylkill	48	2
S. Coventry	19	1
Spring City	89	3
Upper Uwchlan	14	1
W. Pikeland	12	1
W. Vincent	29	<u>1</u>
	TOTAL	27

¹ Based on initial results of mail survey

² Average 40 persons per bus.

APPENDIX I-3

ANNEX I

CHESTER COUNTY TRANSPORTATION NEEDS FOR SPECIAL FACILITIES

Special facilities²

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

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 at 1-800-562-5380 or 215-824-1600.
- B. CONRAIL: Contact Division Superintendent (Harrisburg) at 717-657-5444 between 8 a.m. and 5 p.m.
or
Train Movement Officer at 717-657-5402
or
Hotline: 717-652-3772

II. Airports

- A. Brandywine Airport: Contact (1) Hal Culp
(2) Mike Bowe
- B. Chester County Airport: Contact Fixed Base Operator, or
duty person: 384-9000 (24-hour number)

APPENDIX 5

ANNEX I

MUNICIPAL PICK-UP POINTS

Phoenixville Borough:

Friendship Field
Holy Trinity Parking Lot
Polish Club Parking Lot

Starr and Church Streets Parking Lot
Reeves Park
Acme Parking Lot

Prospect St. Parking Lot
Presbyterian Church Parking Lot
Barkley School
Vics Exxon
High School Stadium

West Company Parking Lot
West Company Annex Parking Lot
Rear of Val Rio Dinner
DeSano - Babe Ruth Field Parking Area

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>Municipality</u>	<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	<u>1992</u>	<u>100</u>	<u>1992</u>	<u>996</u>
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)	Exton Square Mall
East Vincent Township	23 East (to 113 S)	Exton Mall
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 (North)	23 West	Morgan Corporation
Spring City Borough	724 East (to 113 S)	Exton Square Mall
Upper Uwchlan	100 South (to 113 S)	Downingtown High School
Uwchlan Township	113 South (to Gordon Drive)	Exton Square Mall
Warwick Township	23 West	Morgan Corporation
West Pikeland Township	113 South (to Gordon Drive to 100 S)	Exton Square Mall
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 South, it would take an estimated 4222 vehicles four hours to leave the EPZ.

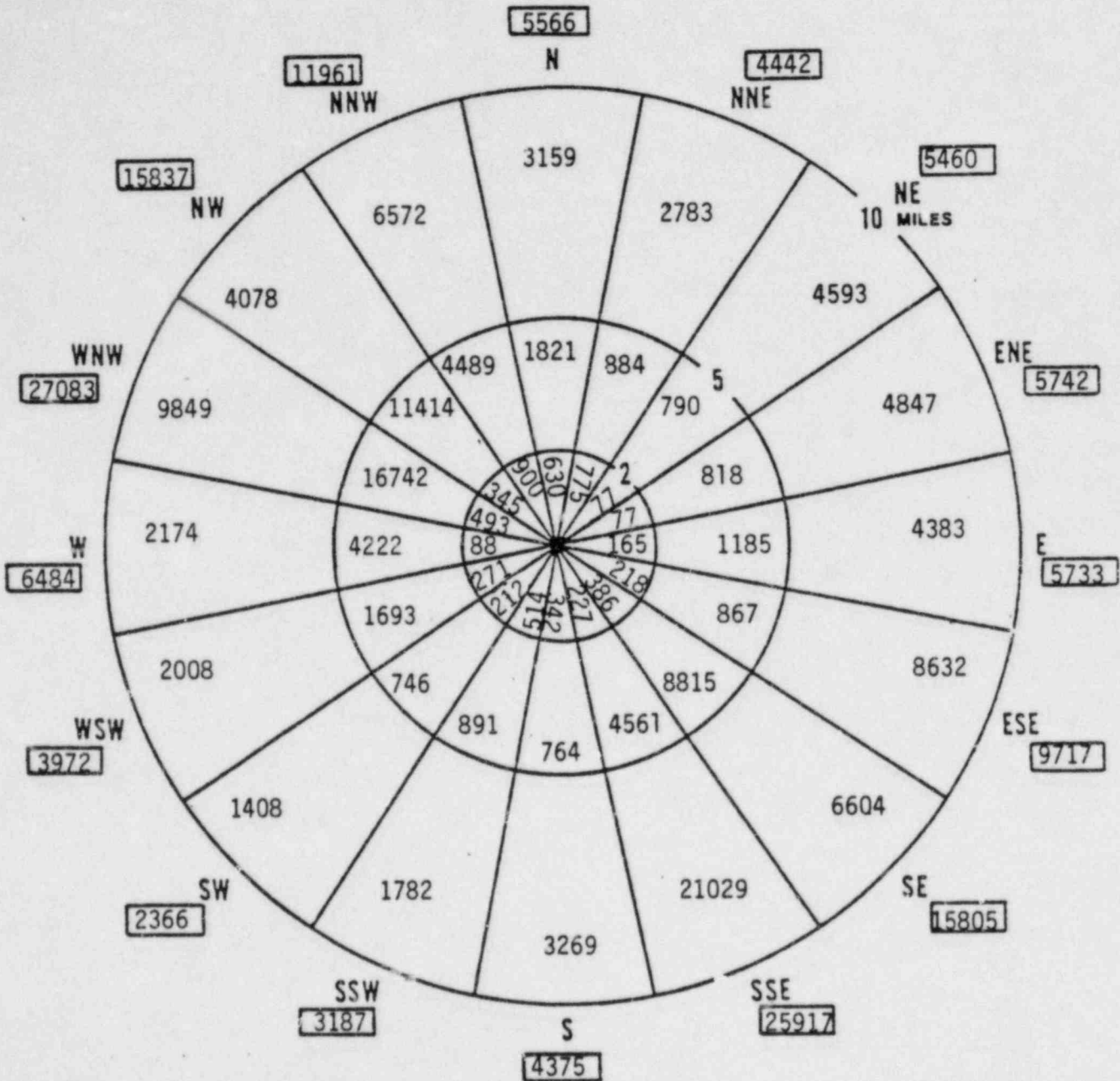
The maximum evacuation time estimated by PennDot for Chester County is five (5) hours. See the Evacuation Plan Map, Annex W, Appendix 3.

A more detailed analysis of evacuation time estimates is being commissioned by Philadelphia Electric. When completed, it will be reviewed in comparison to PennDOT data, evaluated, and included in this Annex.

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, the Public Works Group Chief and their respective staffs 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 & Coventryville Road (T517)	South Coventry	2	PSP
31	Rt. 23 & Rt. 100	South Coventry	2	PSP
32	Rt. 23 & Daisy Point Rd.	South Coventry	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 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	1	Charlestown Twp.
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.
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/Stoney 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.
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 St.	Phoenixville	1	Phoenixville 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 Rd.	Schuylkill	1	Schuylkill Twp. P.D.
SK-6	White Horse Road/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/Daisy Point 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	Warwick Twp. P.D.
W-2	Rt. 23/County Park Road	Warwick	1	Warwick Twp. P.D.
WP-1	Rt. 113/Pikeland Road	West Pikeland	1	West Pikeland Twp. P.D.
U-4	Gordon Drive/Rt. 100	Uwchlan	1	Uwchlan Twp. P.D.
U-5	Gordon Drive/Rt. 113	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.

U-1	Byers Road/Rt. 100	Upper Uwchlan	1	Uwchlan/Upper Uwchlan Twp. P.D.
-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.
WV-1	Birchrun Road/Rt. 100	West Vincent	1	W. Vincent Twp.
CALN-1	Rt. 322/Rt. 30 By-Pass	Caln	1	C Twp. P.D.
D-1	Rt. 322/Downingtown H.S. Entrance	Downingtown Boro	1	Downingtown P.D.
WHITE-1	Swedesford Road/Rt. 100	West Whiteland	1	West Whiteland Twp. P.D.
WHITE-2	Rt. 30/Exton Mall Exit	West Whiteland	1	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.

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 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 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

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)

<u>A. 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

<u>B. 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

<u>A. 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

<u>B. Assigned Mass Care Centers</u>	<u>Capacity</u>
1. Gordon Jr. High School	798
2. South Brandywine Jr. High School	<u>2034</u>
Total	2832

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

III. RECEPTION CENTER: Exton Mall

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.	Stetson Middle School	1400
4.	Unionville - Chadds Ford Middle School	2008
5.	Unionville Elementary School	<u>2046</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 shall 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 EUC.

- 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.

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 0-200R.
- D. CD V 742 - A self-reading dosimeter with a scale from 0-2000R.
- 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 0-200R 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 is 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 besmirches or pollutes people, objects and the environments.
- 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; predistributes 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 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.
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

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

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 plies 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 predistributed 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 co-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 available these forms 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 lightweight 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.
 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.

*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.

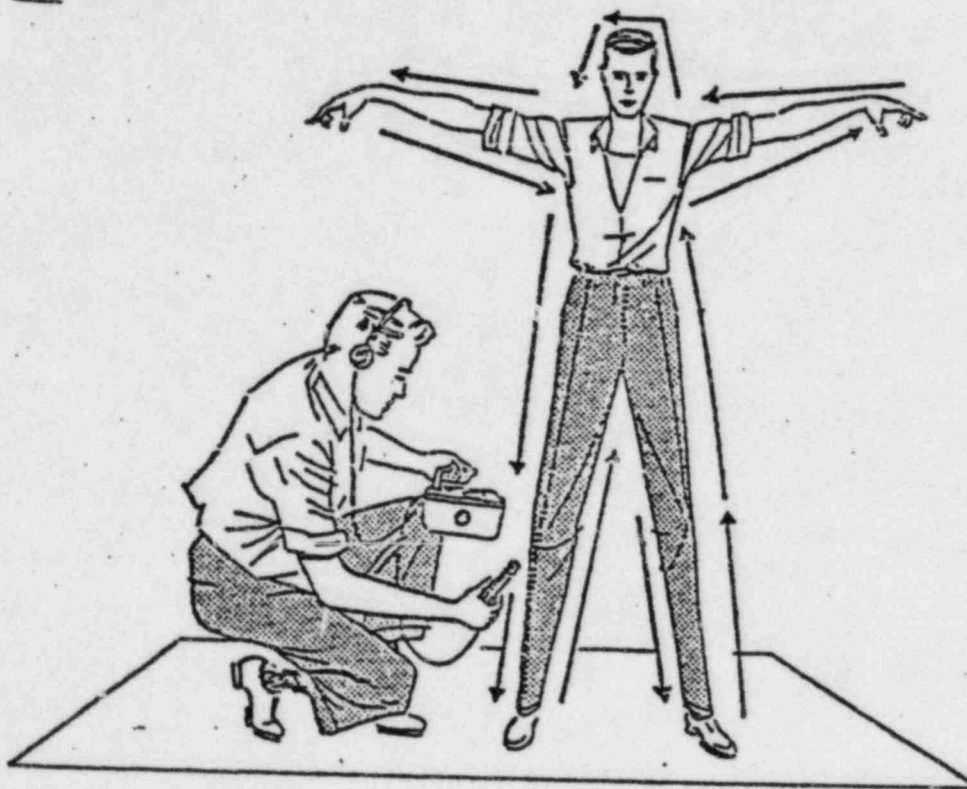


Illustration 1 - Decontamination Monitoring

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.

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 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
DECONTAMINATION MONITORING REPORT FORM

NOTE: THIS FORM WILL BE COMPLETED FOR EACH INDIVIDUAL WITH A READING OF
0.05 mR/hr ABOVE BACKGROUND OR MORE.

NAME of person monitored _____
SOCIAL SECURITY NUMBER _____
ADDRESS _____

FIRST Radiological Monitoring

Monitor's or Recorder's Signature X _____
Mass Care Center _____
Survey Meter Serial # _____ DATE _____ TIME _____ am
pm

SECOND Radiological Monitoring - to be completed after person has undergone
decontamination including acquiring radiologically "clean" clothing.

Monitor's or Recorder's Signature X _____
Mass Care Center _____
Survey Meter Serial # _____ DATE _____ TIME _____ am
pm

THIRD Radiological Monitoring - to be completed after person has undergone
decontamination a second time.

Monitor's or Recorder's Signature x _____
Mass Care Center _____
Survey Meter Serial # _____ DATE _____ TIME _____ am
pm

ANATOMY	FIRST MONITORING	SECOND MONITORING	THIRD MONITORING
head	mR/hr	mR/hr	mR/hr
face	mR/hr	mR/hr	mR/hr
neck	mR/hr	mR/hr	mR/hr
rt. shoulder	mR/hr	mR/hr	mR/hr
rt. arm	mR/hr	mR/hr	mR/hr
rt. hand	mR/hr	mR/hr	mR/hr
rt. side	mR/hr	mR/hr	mR/hr
rt. outside leg	mR/hr	mR/hr	mR/hr
rt. foot	mR/hr	mR/hr	mR/hr
rt. inside leg	mR/hr	mR/hr	mR/hr
groin	mR/hr	mR/hr	mR/hr
lt. inside leg	mR/hr	mR/hr	mR/hr
lt. foot	mR/hr	mR/hr	mR/hr
lt. outside leg	mR/hr	mR/hr	mR/hr
lt. side	mR/hr	mR/hr	mR/hr
lt. hand	mR/hr	mR/hr	mR/hr
lt. arm	mR/hr	mR/hr	mR/hr
lt. shoulder	mR/hr	mR/hr	mR/hr
chest	mR/hr	mR/hr	mR/hr
stomach	mR/hr	mR/hr	mR/hr
back	mR/hr	mR/hr	mR/hr
buttocks	mR/hr	mR/hr	mR/hr

Medical Referral - subject individual sent to _____ hospital for
decontamination and/or treatment at (TIME) _____ am on (DATE) _____
Decontamination Team Chief's Signature X _____ pm

Form Distribution: Original to county emergency management agency;
copy to person monitored.

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 to be distribute 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 municipalities 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 retain 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

radioiodine 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 information 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.

*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.

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 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 off-site 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 firemen 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 protective action guide of 25 rem) causing health problems years after the exposure.

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

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

Emergency Worker's Signature: X

M-2-A-1

KI INSTRUCTIONS: Take KI only on the direction of the Secretary of the Department of Health. Take one tablet (130 mg) once a day. If you have any adverse reaction to the drug, discontinue taking KI and report to your supervisor.

ATTACHMENT B

APPENDIX 2

CONTROL TLDs 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 _____

Patient Package Insert For

THYRO-BLOCK™

(POTASSIUM IODIDE)
(pronounced pee-TASS-ee-um EYE-oh-dyed)
(abbreviated KI)
TABLETS and SOLUTION U.S.P.

TAKE POTASSIUM IODIDE ONLY WHEN PUBLIC HEALTH OFFICIALS TELL YOU. IN A RADIATION EMERGENCY, RADIOACTIVE IODINE COULD BE RELEASED INTO THE AIR. POTASSIUM IODIDE (A FORM OF IODINE) CAN HELP PROTECT YOU.

IF YOU ARE TOLD TO TAKE THIS MEDICINE, TAKE IT ONE TIME EVERY 24 HOURS. DO NOT TAKE IT MORE OFTEN. MORE WILL NOT HELP YOU AND MAY INCREASE THE RISK OF SIDE EFFECTS. DO NOT TAKE THIS DRUG IF YOU KNOW YOU ARE ALLERGIC TO IODIDE. (SEE SIDE EFFECTS BELOW.)

INDICATIONS

THYROID BLOCKING IN A RADIATION EMERGENCY ONLY.

DIRECTIONS FOR USE

Use only as directed by State or local public health authorities in the event of a radiation emergency.

DOSE

Tablets: ADULTS AND CHILDREN 1 YEAR OF AGE OR OLDER: One (1) tablet once a day. Crush for small children. BABIES UNDER 1 YEAR OF AGE: One-half (1/2) tablet once a day. Crush first.

Solution: ADULTS AND CHILDREN 1 YEAR OF AGE OR OLDER: Add 6 drops to one-half glass of liquid and drink each day. BABIES UNDER 1 YEAR OF AGE: Add 3 drops to a small amount of liquid once a day.

For all dosage forms: Take for 10 days unless directed otherwise by State or local public health authorities.

Store at controlled room temperature between 15° and 30°C (59° to 86°F). Keep container tightly closed and protect from light. Do not use the solution if it appears brownish in the nozzle of the bottle.

WARNING

Potassium iodide should not be used by people allergic to iodide. Keep out of the reach of children. In case of overdose or allergic reaction, contact a physician or the public health authority.

DESCRIPTION

Each THYRO-BLOCK™ TABLET contains 130 mg of potassium iodide.

Each drop of THYRO-BLOCK™ SOLUTION contains 21 mg of potassium iodide.

HOW POTASSIUM IODIDE WORKS

Certain forms of iodine help your thyroid gland work right. Most people get the iodine they need from foods, like iodized salt or fish. The thyroid can "store" or hold only a certain amount of iodine.

In a radiation emergency, radioactive iodine may be released in the air. This material may be breathed or swallowed. It may enter the thyroid gland and damage it. The damage would probably not show itself for years. Children are most likely to have thyroid damage.

If you take potassium iodide, it will fill-up your thyroid gland. This reduces the chance that harmful radioactive iodine will enter the thyroid gland.

WHO SHOULD NOT TAKE POTASSIUM IODIDE

The only people who should not take potassium iodide are people who know they are allergic to iodide. You may take potassium iodide even if you are taking medicines for a thyroid problem (for example, a thyroid hormone or antithyroid drug). Pregnant and nursing women and babies and children may also take this drug.

HOW AND WHEN TO TAKE POTASSIUM IODIDE

Potassium Iodide should be taken as soon as possible after public health officials tell you. You should take one dose every 24 hours. More will not help you because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of side effects. You will probably be told not to take the drug for more than 10 days.

SIDE EFFECTS

Usually, side effects of potassium iodide happen when people take higher doses for a long time. You should be careful not to take more than the recommended dose or take it for longer than you are told. Side effects are unlikely because of the low dose and the short time you will be taking the drug.

Possible side effects include skin rashes, swelling of the salivary glands, and "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, symptoms of a head cold, and sometimes stomach upset and diarrhea).

A few people have an allergic reaction with more serious symptoms. These could be fever and joint pains, or swelling of parts of the face and body and at times severe shortness of breath requiring immediate medical attention.

Taking iodide may rarely cause overactivity of the thyroid gland, underactivity of the thyroid gland, or enlargement of the thyroid gland (goiter).

WHAT TO DO IF SIDE EFFECTS OCCUR

If the side effects are severe or if you have an allergic reaction, stop taking potassium iodide. Then, if possible, call a doctor or public health authority for instructions.

HOW SUPPLIED

THYRO-BLOCK™ TABLETS (Potassium Iodide, U.S.P.) bottles of 14 tablets (NDC 0037-0472-20). Each white, round, scored tablet contains 130 mg potassium iodide.

THYRO-BLOCK™ SOLUTION (Potassium Iodide Solution, U.S.P.) 30 ml (1 fl. oz.) light-resistant, measured-drop dispensing units (NDC 0037-4287-25). Each drop contains 21 mg potassium iodide.

WALLACE LABORATORIES
Division of
CARTER-WALLACE, INC.
Cranbury, New Jersey 08512

CW-107915-1079

Issue 10/79

ROXANE LABORATORIES, INC.

PATIENT INFORMATION SHEET

POTASSIUM IODIDE ORAL SOLUTION USP**POTASSIUM IODIDE**(pronounced pee-TASS-ee-um EYE-sh-dyed)
(abbreviated: KI)

TAKE POTASSIUM IODIDE ONLY WHEN PUBLIC HEALTH OFFICIALS TELL YOU. IN A RADIATION EMERGENCY, RADIOACTIVE IODINE COULD BE RELEASED INTO THE AIR. POTASSIUM IODIDE (A FORM OF IODINE) CAN HELP PROTECT YOU.

IF YOU ARE TOLD TO TAKE THIS MEDICINE, TAKE IT ONE TIME EVERY 24 HOURS. DO NOT TAKE IT MORE OFTEN. MORE WILL NOT HELP YOU AND MAY INCREASE THE RISK OF SIDE EFFECTS. **DO NOT TAKE THIS DRUG IF YOU KNOW YOU ARE ALLERGIC TO IODIDE.** (SEE SIDE EFFECTS BELOW.)

INDICATIONS

THYROID BLOCKING IN A RADIATION EMERGENCY ONLY.

DIRECTIONS FOR USE

Use only as directed by State or local public health authorities in the event of a radiation emergency.

DOSAGE

ADULTS AND CHILDREN 1 YEAR OF AGE OR OLDER: Add 6 drops to one-half glass of liquid and drink each day.

BABIES UNDER 1 YEAR OF AGE: Add 3 drops to a small amount of liquid once a day.

Take for 10 days unless directed otherwise by State or local public health authorities.

Store at controlled room temperature between 15° and 30°C (59° to 86°F). Keep container tightly closed and protect from light.

WARNING

Potassium iodide should not be used by people allergic to iodide. Keep out of the reach of children. In case of overdose or allergic reaction, contact a physician or the public health authority.

DESCRIPTION

Each drop of solution contains 21 mg of potassium iodide.

HOW POTASSIUM IODIDE WORKS

Certain forms of iodine help your thyroid gland work right. Most people get the iodine they need from foods, like iodized salt or fish. The thyroid can "store" or hold only a certain amount of iodine.

In a radiation emergency, radioactive iodine may be released in the air. This material may be breathed or swallowed. It may enter the thyroid gland and damage it. The damage would probably not show itself for years. Children are most likely to have thyroid damage.

If you take potassium iodide, it will fill-up your thyroid gland. This reduces the chance that harmful radioactive iodine will enter the thyroid gland.

WHO SHOULD NOT TAKE POTASSIUM IODIDE

The only people who should not take potassium iodide are people who know they are allergic to iodide. You may take potassium iodide even if you are taking medicines for a thyroid problem (for example, a thyroid hormone or antithyroid drug). Pregnant and nursing women and babies and children may also take this drug.

HOW AND WHEN TO TAKE POTASSIUM IODIDE

Potassium Iodide should be taken as soon as possible after public health officials tell you. You should take one dose every 24 hours. More will not help you because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of side effects. You will probably be told not to take the drug for more than 10 days.

SIDE EFFECTS

Usually, side effects of potassium iodide happen when people take higher doses for a long time. You should be careful not to take more than the recommended dose or take it for longer than you are told. Side effects are unlikely because of the low dose and the short time you will be taking the drug.

Possible side effects include skin rashes, swelling of the salivary glands, and "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, symptoms of a head cold, and sometimes stomach upset and diarrhea).

A few people have an allergic reaction with more serious symptoms. These could be fever and joint pains, or swelling of parts of the face and body and at times severe shortness of breath requiring immediate medical attention.

Taking iodide may rarely cause overactivity of the thyroid gland, underactivity of the thyroid gland, or enlargement of the thyroid gland (goiter).

WHAT TO DO IF SIDE EFFECTS OCCUR

If the side effects are severe or if you have an allergic reaction, stop taking potassium iodide. Then, if possible, call a doctor or public health authority for instructions.

HOW SUPPLIED

Potassium Iodide Oral Solution USP
NDC 0054-3720-44: 30 ml dropper bottle, each drop contains 21 mg potassium iodide.

012

Revised January 1982



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 (U-200R)	
2.	CD V-730 Self-Reading Dosimeter (U-20R)	
3.	DCA-622 Self-Reading Dosimeter (U-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 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 (Springford)	65	1
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	1	1
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/Uwch'an		
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
18. For Transportation Staging Areas.....	200	5
(incoming emergency vehicles -		
see Annex I)		
SUBTOTAL.....	1657	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-742s -	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 nuclear attack becomes a heightened concern.

III. INVENTORY AND MAINTENANCE PROCEDURES

- A. Annually, during the month of January, the Chester County DES will physically 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 physically 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.

IV. THERMOLUMINESCENT DOSIMETERS

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

There are no maintenance requirements for the TLDs 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>Equipment/KI/Forms</u>	<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 the respective risk 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, Archdiocese representatives, and private school administrators and request briefing of all building principals.
3. Risk School Districts Superintendents notify host school districts. Direct communications between risk and host schools are opened and maintained.

4. Notify and brief all colleges and private, profit schools and advise them of the situation.
5. School Superintendents, the Archdiocese, and private school administrators will assure operation of school communications systems, notify school building principals, 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 school districts and the Valley Forge Christian College.
4. Review transportation requirements for districts, the Archdiocese, colleges and private, profit 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. Position buses/evacuation vehicles at all assigned schools, obtaining required resources.
3. Assign an ARES mobile 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. Assign 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 notify building principals, report unmet needs, direct bus drivers to complete assignments, 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 an alternate District office location.
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

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
- 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: Charlostown Elementary
- 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: 3600
Schools in the EPZ: Owen J. Roberts Sr. High School (1127)
Owen J. Roberts Middle School (1018)
East Coventry Elementary School (319)
Vincent Elementary School (169)
North Coventry Elementary Schools (573)
French Creek Elementary School (251)
Warwick Elementary School (143)
- 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: 2892
Schools in the EPZ: Phoenixville Area Sr. High School (634)
Phoenixville Area Jr. High School (798)
East Pikeland Elementary School (347)
Samuel K. Barkley Elementary School (366)
Second Avenue School (184)
Schuylkill Elementary School (563)

II. PRIVATE/PAROCHIAL SCHOOLS

- A. Kimberton Farm School
N. Seven Stars Road
Kimberton, PA 19442

Contact: Mr. Edward Hill, Faculty Chairman
Telephone: 933-3635
School District Jurisdiction: Owen J. Roberts
Total Students: 300

- B. Upattinas Open Community School
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
Valley Park and White Horse Roads
Phoenixville, PA 19460

Contact: Mr. Scott Nason, Administrator
Telephone: 933-6287
School District Jurisdiction: Phoenixville
Total Students: 300

- D. Holy Trinity School
221 Dayton Street
Phoenixville, PA 19460

Contact: Sister Mary Damian, CSB, Principal
Telephone: 935-3023
School District Jurisdiction: Phoenixville
Total Students: 70

- E. St. Ann's School
Third Avenue and Buttonwood Street
Phoenixville, PA 19460

Contact: Sister Maria Auxilia, IHM, Principal
Telephone: 933-7562
School District Jurisdiction: Phoenixville
Total Students: 347

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

Contact: Sister Patricia Wichenheiser, ACI, Principal
Telephone: 933-2453
School District Jurisdiction: Phoenixville
Total Students: 162

- G. Saint Mary of the Assumption School
South and Emmitt Street
Phoenixville, PA 19460

Contact: Sister Mary Elise, IHM, Principal
Telephone: 933-9868
School District Jurisdiction: Phoenixville
Total Students: 213

- H. Children's House of North Chester County

Contact: Ms. Caryl Ann Cooper
Telephone: 215/458-8922
School District Jurisdiction: Owen J. Roberts
Total Students: 25

III. OTHER SCHOOLS

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

Contact: Mr. C. Robert Zimmerman, Director
Telephone: 933-8877
Total Students: 735

- B. Valley Forge Christian College
Charlestown Road
Phoenixville, PA 19460

Contact: Mr. Frank Salvato
Telephone: 935-4050
Total Students: 381

APPENDIX 2

ANNEX N

SCHOOL EVACUATION ROUTES AND HOST SCHOOLS

<u>Risk Facility</u>	<u>Major Evacuation Route(s)</u>	<u>Host** 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./Elementary Honeybrook Elementary
D. PHOENIXVILLE AREA SCHOOL DISTRICT		
1. Phoenixville Sr. H.S.	23 East	Conestoga Sr. H.S.
2. Phoenixville Jr. H.S.	23 East	Tredyffrin-Eastown Jr. H.S.
3. Schuylkill Elem.	23 East	New Eagle School
4. Barkely Elementary	23 East	Hillside Elementary
5. East Pikeland Elem.	23 East	Valley Forge Elementary
6. Second Avenue School	23 East	Valley Forge Elementary
E. KIMBERTON FARM SCHOOL	Seven Stars Rd to 113 South	West Chester University
F. UPATTINAS SCHOOL	100 South	West Chester University
G. VALLEY FORGE CHRISTIAN COLLEGE	29 South to 202 South	West Chester University
H. VALLEY FORGE CHRISTIAN ACADEMY	23 East	Lansdale Christian Academy
I. ST. ANN'S SCHOOL	29 South to 352 South	Immaculata College
J. ST. BASIL'S SCHOOL	113 S to 401 S to 202 S to 30 E to 352 S	Immaculata College

*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.

L.	ST. MARY'S	29 South to 352 South	Immaculata College
M.	NORTHERN CHESTER CO. AVTS	29 South	Valley Forge Jr. H.S.
N.	ST. JOSEPH'S KINDERGARTEN	724 to 23 East	St. Philip Neri (Lafayette Hills)

APPENDIX 3

ANNEX N

SCHOOL BUS RESOURCE INFORMATION¹

Risk Facility	Buses Needed for Evacuation	Buses Available	Unmet Need	Source of Unmet Need
A. Downingtown School District	0	53	0	Not Applicable (NA)
1. Pickering Elementary	None		0	NA
B. Great Valley School District	0	40	0	NA
1. Charlestown Elementary	None		0	NA
C. Owen J. Roberts School District	48	29*	25	TBD
1. Owen J. Roberts Sr. H.S.	17	15*	9	TBD
2. Owen J. Roberts Jr. H.S.	7	0	5	TBD
3. East Coventry Elementary	3	1	2	TBD
4. Vincent Elementary	5	3	2	TBD
5. North Coventry Elem. (2)	8	5	3	TBD
6. French Creek Elementary	6	4	2	TBD
7. Warwick Elementary	2	1	1	TBD
D. Phoenixville School District	57	40	17	TBD
1. Phoenixville Area Senior High	14	14	0	NA
2. Phoenixville Area Junior High	18	18	0	NA
3. East Pikeland Elem.	6	6	0	NA
4. Barkley Elementary	7	2	5	TBD
5. Second Avenue School	3	0	3	TBD
6. Schuylkill Elementary	9	0	9	TBD

* Includes Vans.

¹ These are preliminary estimates subject to further school RERP development.

Risk Facility	Buses Needed for Evacuation	Buses Available	Unmet Need	Source of Unmet Need
E. Private/Parochial				
1. Kimberton Farm	8*	3*	5	TBD
2. Upattinas	5*	5*	0	NA
3. Valley Forge Christian Academy	16*	7*	9	TBD
4. Holy Trinity	1	0	1	TBD
5. St. Ann's	6	0	6	TBD
6. St. Basil	3	0	3	TBD
7. St. Mary	4	0	4	TBD
8. Northern Chester AVTS	8	110**	0	NA
9. Valley Forge Christian College	16	7*	9	TBD
10. Children's House of N. Chester	1	1*	1	TBD

*Includes Vans.

**Private Vehicles Available.

School District Map

PUBLIC SCHOOLS
ELEMENTARY & SECONDARY

CHESTER COUNTY PENNSYLVANIA

1:25,000
SCALE IN FEET

PREPARED BY THE CHESTER COUNTY PLANNING COMMISSION
GENERAL PLAN - 1955 - 1960



- Elementary
- Intermediate
- Middle
- Junior High
- Junior-Senior High
- Senior High
- Special

OXFORD
1. Spring Hill
2. Jackson Park
3. Washington
4. O'Neil
5. O'Neil Junior High

PROXIMITY
1. East Park
2. Liberty
3. Day School
4. Spring Hill
5. Spring Hill Junior High

UNIONVILLE - CHADDS FORD
1. Unionville
2. Chadds Ford
3. Chadds Ford Junior High

WEST CHESTER
1. West Chester
2. West Chester Junior High
3. West Chester Senior High

COATESVILLE
1. Coatesville
2. Coatesville Junior High
3. Coatesville Senior High

OXFORD
1. Oxford
2. Oxford Junior High
3. Oxford Senior High

LYON GROVE
1. Lyon Grove
2. Lyon Grove Junior High
3. Lyon Grove Senior High

UNIONVILLE
1. Unionville
2. Unionville Junior High
3. Unionville Senior High

COATESVILLE
1. Coatesville
2. Coatesville Junior High
3. Coatesville Senior High

WEST CHESTER
1. West Chester
2. West Chester Junior High
3. West Chester Senior High

OXFORD
1. Oxford
2. Oxford Junior High
3. Oxford Senior High

LYON GROVE
1. Lyon Grove
2. Lyon Grove Junior High
3. Lyon Grove Senior High

TWIN VALLEY
1. Twin Valley
2. Twin Valley Junior High
3. Twin Valley Senior High

AVON GROVE
1. Avon Grove
2. Avon Grove Junior High
3. Avon Grove Senior High

COATESVILLE
1. Coatesville
2. Coatesville Junior High
3. Coatesville Senior High

UNIONVILLE
1. Unionville
2. Unionville Junior High
3. Unionville Senior High

WEST CHESTER
1. West Chester
2. West Chester Junior High
3. West Chester Senior High

OXFORD
1. Oxford
2. Oxford Junior High
3. Oxford Senior High

LYON GROVE
1. Lyon Grove
2. Lyon Grove Junior High
3. Lyon Grove Senior High

UNIONVILLE
1. Unionville
2. Unionville Junior High
3. Unionville Senior High

COATESVILLE
1. Coatesville
2. Coatesville Junior High
3. Coatesville Senior High

WEST CHESTER
1. West Chester
2. West Chester Junior High
3. West Chester Senior High

OXFORD
1. Oxford
2. Oxford Junior High
3. Oxford Senior High

LYON GROVE
1. Lyon Grove
2. Lyon Grove Junior High
3. Lyon Grove Senior High

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 DER 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 U

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.
- n. 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 U 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

I. EQUIPMENT

- A. Protective
- B. Communications
- C. Radiological Monitoring Equipment
- D. Emergency Supplies

II. PERSONNEL

III. DISTRIBUTION

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. STATE AND FEDERAL TRAINING

Chester County and its risk municipalities will participate in State and Federal training programs, when available, 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.
2. Chester County would require 15 spaces for initial training. Replacement training will be 7 spaces per year.

B. Radiological Preparedness Seminar

PEMA offers a four to six hour course aimed at training individuals who will respond to nuclear power plant incidents. This course is provided for emergency management personnel and volunteers from risk counties, support counties and affected municipalities. The purpose of the course is to prepare emergency management personnel to respond in a coordinated and timely manner to radiological incidents. The course reviews actions to be taken in accordance with state, county, and municipal radiological emergency response plans. It is available at any time upon request, but is particularly beneficial as an exercise preparation measure. The county will request this course offering as deemed necessary by the County DES Director.

C. Elected and Appointed County and Municipal Officials Training

1. PEMA offers a three-hour course directed to county and municipal elected and appointed officials who are responsible for protecting the public in the event of an emergency.

2. This course includes 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. This course will be presented in each Limerick Generating Station risk county yearly. When it is presented in Chester County, the Director of Emergency Services will assist with location and attendance arrangements.
4. Chester County and its risk municipalities would require training for approximately 55 officials in 1983. The target audience in subsequent years will be newly elected and appointed officials of the county and its risk municipalities.

D. Communications Personnel Training

1. Communications training for county, municipal and volunteer organization personnel responsible for the transmission and reception of emergency information and instructions will be accomplished as part of regularly scheduled exercises and communications drills in which Chester County is a participant.
2. The schedule for the above mentioned drills and exercises can be found in Annex S of this Plan.

E. Thyroid Blocking Medical Technicians Training

1. The Pennsylvania Department of Health, Division of Emergency Health Services offers a course to provide emergency medical technicians (EMT's) with basic instructions concerning radiation and its characteristics, initial treatment, triage and transfer of patients.
2. Chester County will identify 25 personnel from appropriate local response organizations to participate in the initial offering of training. Replacement training will be needed for 10 persons each year thereafter.

F. Radioprotective Drugs Training

1. The Pennsylvania Department of Health has the responsibility for providing instructional information and written educational material to the county and municipal personnel involved in the distribution and use of thyroid blocking drugs.
2. Chester County will identify the personnel from county and municipal emergency management agencies, fire, police, ambulance and volunteer response organizations to receive training in thyroid blocking drug distribution and use.

3. The total initial requirement for this training for Chester County is _____. Replacement training is estimated at _____ per year. This training may be combined with that shown in Paragraph II.B.5.

III. COUNTY SPONSORED RESPONSE ORGANIZATION TRAINING

- A. 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.
- 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.

IV. REFRESHER TRAINING

Refresher training is anticipated for county and municipal personnel who have received initial training. Refresher training is expected to be offered on an annual basis.

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 (RERPs).
- 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 RERPs 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.

- (1) A communications drill between the facility, State and Chester County will be held monthly.
- (2) Chester County will ensure the testing of communications links with municipalities and other response organizations within its jurisdiction as part of monthly communications drills.

b. The State will be responsible for scheduling communications drills.

2. Medical Emergency Drills

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

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 a radiological monitoring drill annually.

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. Exton Square Mall 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.

STATEMENT OF UNDERSTANDING
Between The
CHESTER COUNTY GOVERNMENT
And The
SOUTHEASTERN PENNSYLVANIA CHAPTER
AMERICAN RED CROSS
With Respect To
RESPONSIBILITY FOR DISASTER RELIEF

APPENDIX 1
ANNEX T

I. PURPOSE

To provide for the coordination of the functions of the Chester County Department of Emergency Services (as the representative of the government of Chester County Pennsylvania) and the Southeastern Pennsylvania Chapter, American Red Cross with regard to disaster preparedness, planning, and operations in time of disaster.

II. LEGAL AUTHORITY

- A. The Chester County Department of Emergency Services has been designated, pursuant to Chapter 75 of Act 1978-323 (The Emergency Management Services Code) as the coordinating agency for disaster operations within Chester County Pennsylvania. This Department carries out certain legal responsibilities of Chester County Government during disasters. In coordinating these operations, it will cooperate with agencies and government entities established by laws of the United States and the Commonwealth of Pennsylvania.
- B. The American Red Cross, through the Southeastern Pennsylvania Chapter (referred to hereinafter as Red Cross), under United States Public Law 4, 58th Congress (reaffirmed by Public Law 93-288, 93rd Congress (The Disaster Relief Act of 1974), is charged with the responsibility to "... continue and carry on a system of national and international relief in time of peace and apply the same in mitigating the sufferings caused by pestilence, famine, fire, floods, and other great national calamities."

III. OBJECTIVES

A disaster is defined as an occurrence such as hurricane, tornado, storm, flood, high water, wind-driven water, tidal wave, earthquake, drought, blizzard, pestilence, famine, fire, explosion, building collapse, transportation wreck, industrial accident, or other situation that causes human suffering or creates human needs that the victims cannot alleviate without assistance. The common objective of all operations necessitated by disasters, including those carried out by the Department of Emergency Services, the Red Cross, and other public and private organizations, is to keep loss of life and property to an absolute minimum and to reestablish the maximum degree of day-to-day normalcy at the earliest possible moment. Realization of this objective requires full and complete coordination of the plans, programs, and activities of all organizations which may be called upon to render assistance in combating the effects of disasters. Essential facts concerning the coordination and cooperation between the Department of Emergency Services and the Red Cross are summarized in the paragraphs which follow.

IV. SCOPE OF ACTIVITY

A. Chester County Department of Emergency Services

This Department will devote its primary efforts to the dissemination of warnings and the coordination of rescue operations, emergency medical care, evacuation, maintenance of law and order, fire fighting, and other life and property protection measures.

B. Southeastern Pennsylvania Chapter, American Red Cross

1. Red Cross mitigates suffering by meeting the urgent needs of disaster victims and emergency workers immediately after a disaster has struck or in advance of a potential disaster.
2. Red Cross immediate help includes food, clothing, shelter, first aid, and other basic elements for comfort and survival.
 - a. This help may be provided to large numbers of people in Red Cross operated shelters, at either fixed or mobile feeding stations, and/or at Red Cross Emergency First Aid Stations.
 - b. This help may be provided as individualized assistance to families regardless of where they may be living after the disaster.
 - c. This help is not limited to the types of assistance listed above, but may also include other urgently needed items which will help families to resume normal living patterns as quickly as possible.
 - d. Families in Red Cross shelters are assisted in moving back to their homes (or to alternate homes if their own are untenable) as quickly as possible.
3. Red Cross also helps disaster victims needing long-term recovery assistance by advising and counseling them on the availability of resources so that they can resume living within acceptable standards of health, safety, and human dignity.
 - a. Such resources include those of the family as well as those of other public and private agencies and organizations.
 - b. If no other resources are available, Red Cross may provide direct additional assistance in accordance with American Red Cross guidelines to enable the victims to re-establish themselves.
4. Arrangements are made for those victims who need medical care to receive that care at the nearest available medical facility when Red Cross facilities are not adequate to meet the person's needs.

IV. SCOPE OF ACTIVITY - (Cont'd)

B. Southeastern Pennsylvania Chapter, American Red Cross (Cont'd)

5. Upon request from the Department of Emergency Services, and when Red Cross resources are adequate, Red Cross will arrange to augment local medical personnel, equipment, and supplies.
6. Upon request from the Department of Emergency Services, and when local resources are not adequate, Red Cross will arrange for needed blood and blood products through the nearest Red Cross Blood Center.
7. The Red Cross handles welfare inquiries from concerned individuals and families outside the disaster area, who are related to individuals and families inside the disaster area.
8. All disaster assistance from Red Cross is based on verified disaster-caused need, and is an outright grant. No repayment is ever requested of any disaster victim.
9. The Red Cross will conduct an appeal for voluntary contributions of funds at the time of disaster.
10. In accordance with Public Law 93-233 (The Disaster Relief Act of 1974) the Red Cross will cooperate with all federal, state, and local agencies who have any responsibility for rendering disaster relief assistance to disaster victims.
 - a. The Red Cross is willing to accept commissions from governments and coordinate its relief efforts with designated agencies.
 - b. Under mutually agreed upon conditions, Red Cross is willing to act as an agent for government in carrying out certain relief activities.

V. SPECIFIC RESPONSIBILITIES

A. Preplanning

1. The Director of the Department of Emergency Services (or his/her designee) will represent the Department as a member of the Red Cross Disaster Committee.
2. The Red Cross Disaster Service Director (or his/her designee) will represent the Chapter in appropriate planning conducted by the Chester County Department of Emergency Services.
3. All disaster planning of the Department of Emergency Services and the Red Cross will take into account the cooperative and mutually supportive nature of the two organizations.

V. SPECIFIC RESPONSIBILITIES (Cont'd)

A. Preplanning (Cont'd)

4. Both the Department of Emergency Services and the Red Cross will seek opportunities to formalize agreements with other agencies and organizations that will further the objectives of this agreement and improve the abilities of both agencies to deal with the effects of disasters.
 - a. The Red Cross seeks and welcomes cooperation from other agencies and organizations in carrying out its responsibilities and seeks to serve as a channel for the generosity of the American people.

B. Training

1. The Department of Emergency Services is responsible for recruiting and training volunteers to fulfill Department of Emergency Services functions throughout Chester County.
2. The Red Cross is responsible for recruiting and training volunteers to fulfill Red Cross functions throughout Chester County.
3. Both the Department of Emergency Services and the Red Cross will keep each other informed regarding available training opportunities.
4. In cases where both organizations offer identical training, efforts will be made to avoid duplication of effort by granting reciprocity in a separate agreement. Dual certification will not be available under the provisions of this paragraph.

C. Alerting and Notification of Disaster Occurrence or Threat

1. The Department of Emergency Services, as the central communications and dispatch agency for all of Chester County, will be the first to find out about most disasters and potential disasters.
2. The Red Cross requires early notification of any disaster in order to be able to respond adequately and in a timely fashion.
 - a. Notification of the Red Cross will be written into all Emergency Management plans and guidelines at the "WARNING" stage for weather-related and other disasters which develop over a finite period of time.
 - b. Notification of the Red Cross of disasters requiring evacuation or potential evacuation of the populace will be made as soon as the dispatch of fire and ambulance units is complete.
 - c. Red Cross and Department of Emergency Services communications systems will be coordinated and used to the fullest extent in support of relief efforts.

V. SPECIFIC RESPONSIBILITIES (Cont'd)

D. Financial Support of Disaster Operations

1. Funding for the Department of Emergency Services is provided in the Chester County Government budget, which is tax-supported.
2. Funding for Red Cross operations is provided in an annual budget, the funds for which are derived entirely from public contributions.
3. When the magnitude of the disaster is such that it goes beyond the scale of planning for the annual Red Cross budget, the Red Cross will immediately launch an appeal for relief funds. (See Appendix A, American Red Cross Administrative Regulations (ARC 3003) page A-11, "Administrative Regulations Relating to Contributions", paragraph A.)
4. The Chester County Commissioners shall designate by public proclamation that the Red Cross is the principle fundraising agency for the relief and rehabilitation of disaster victims. This action will be initiated by the Red Cross at such times that Red Cross deems necessary.

E. Disasters With Company or Owner Liability Implications

1. The Red Cross Regulations which apply for found in Appendix A, American Red Cross Administrative Regulations (ARC 3003), page A-4, paragraph K and Subparagraphs K-1 through K-4.
2. Red Cross emergency mass care activities will be undertaken in response to notification by the Department of Emergency Services, but without resolving the question of possible company or owner liability for the expenses.

F. Disaster Resulting From Enemy Action

1. Because of distinct legal and operational differences, Red Cross and Department of Emergency Services responsibilities in time of war are not treated as part of this agreement.

G. Disasters Resulting From Civil Strife

1. Because of distinct legal and operational differences, Red Cross and Department of Emergency Services responsibilities in time of civil disorder are not treated as a part of this agreement.
2. Red Cross responsibilities during civil disorder are treated in a separate document, American Red Cross Policy Position in Situations Caused by Civil Disorder (ARC 3004), attached here as Appendix B for information purposes only.

Y. SPECIFIC RESPONSIBILITIES (Cont'd)

H. General

1. The Red will respond to any disaster in which human needs are created, regardless of the number of families or individuals involved.
2. The Red Cross will offer its services to the families affected by the disaster. Each family will be the sole judge of whether those Red Cross services are to be accepted.
3. The Department of Emergency Services and Red Cross are inter-dependent as a result of this agreement, but each agency functions according to its own operational guidelines.
4. Red Cross and the Department of Emergency Services are fiscally responsible for their separate phases of any operation even though specific functions may be delegated by one to the other for convenience and efficiency.
5. In any operation large enough for establishment of an Emergency Operations Center (EOC), one or both of the following steps will be taken.
 - a. Red Cross will provide an experienced representative to represent the Red Cross function in the EOC.
 - b. The Mass Care Staff and function will move into the Red Cross Headquarters to allow for close liaison.
6. In any mass evacuation of the populace:
 - a. The Department of Emergency Services will designate which shelters and other mass care facilities are in a "safe zone" and may be used for mass care.
 - b. Red Cross will assign a minimum of one staff member to the evacuation team to insure that evacuees are being routed to appropriate shelters.
7. Red Cross may supply personnel to carry out non-Red Cross functions only after it has been determined that those individuals are not needed to carry out Red Cross' primary responsibilities.

VI. APPENDICES

Changes in Red Cross policies, regulations, or guidelines which affect the information contained in the appendices but which do not affect the content or intent of this agreement may be appended to this agreement without necessitating renewal or revision of this agreement.

VII. TERM OF AGREEMENT

- A. This agreement shall remain in effect until such time as it may be cancelled by 30 days written notice by either Chester County Government or Red Cross.
- B. This agreement shall be reviewed and, if necessary, revised in 1984 and every four years thereafter.

FOR CHESTER COUNTY:

Earl M. Baker
CHAIRMAN
CHESTER COUNTY COMMISSIONERS

[Signature]
COMMISSIONER

[Signature]
COMMISSIONER

FOR THE SOUTHEASTERN PENNSYLVANIA CHAPTER,
AMERICAN RED CROSS:

John T. Galt
Deputy Executive Director
Southeastern Pennsylvania
Chapter, American Red Cross
23rd: Chestnut St
Phil Pa 19103

APPENDIX 1

ANNEX X

INDUSTRIAL EMERGENCY PLANNING INFORMATION

Industry and Address	Contact Person	Emergency Shutdown Time	Minimum No. of Persons Needed to Shut Down Plant	Telephone
<u>A. Charlestown Township</u>				
1. AC Miller Concrete				644-9300
2. Myers Contracting				584-6020 584-5575
<u>B. East Coventry Township</u>				
1. Amerind-MacKessie, Inc.				495-7181
2. Little Lake Industries				326-8232
<u>C. 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
<u>D. East Vincent Township</u>				
1. Sunnyslope Davies				948-8300
<u>E. Phoenixville Borough</u>				
1. Phoenix Steel Corp.	Mr. Myers, Safety Officer			302 - 792-4588 (933-5400)
2. West Company				

3. SCM Products		933-5891
4. A. P. DeSanno	Paul Kuzmick	935-0225
5. Budd Co.		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.)



ENERGY CONSULTANTS

RIVERSIDE OFFICE CENTER 3 / 2101 N. FRONT ST. / HARRISBURG / PA 17110 / PH. (717) 236-0031
CORPORATE OFFICE: 121 SEVENTH STREET / PITTSBURGH / PA 15222-3487 / PH. (412) 434-5200

July 9, 1984

Mr. Timothy R. S. Campbell
Director
Chester County Department of
Emergency Services
14 East Biddle Street
West Chester, PA 19380

Dear Tim:

Enclosed is Draft 8 of the Chester County Radiological Emergency Response Plan which incorporates your changes and additions.

Sincerely,

Joel Grottenthaler

JG:jr
Enclosures



PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

3842105820

RECEIVED

JUL 20 1984

R. A. KANKUS

Reply To:

P. O. Box A
Sanatoga Branch
Pottstown, PA 19464

July 17, 1984

Mr. Roy Mest
Chairman
Goodwill Ambulance Service
714 High Street
Pottstown, PA 19464

Dear Mr. Mest:

Thank you for you and your personnel's attendance at the Radiation Emergency Medical Training session. Your presence was much appreciated.

Attached is the Limerick Site procedure relating to First Aid, Search and Rescue. You will receive changes to this procedure as they occur.

Very truly yours,

G. M. Leitch
Superintendent - LGS

VAW:rgs

cc: R. A. Kankus
S. Koffler (RMC)

Gray
6/8/84

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-252 SEARCH AND RESCUE/FIRST AID

1.0 PURPOSE

The purpose of this procedure is to define the requirements and the actions of the Search and Rescue/First Aid Group.

2.0 RESPONSIBILITIES

- 2.1 The Personnel Safety Team Leader shall control the Search and Rescue/First Aid Group exposure and provide offsite medical support by performing the necessary steps in this procedure.
- 2.2 The Search and Rescue/First Aid Group Leader shall direct operations by performing the necessary steps in this procedure.
- 2.3 The Search and Rescue/First Aid Group members shall perform rescue operations by performing the necessary steps in this procedure.

3.0 APPENDICES

- 3.1 EP 252-1 Emergency Exposure Guidelines
- 3.2 EP 252-2 First Aid Equipment Locations
- 3.3 EP 252-3 Injured Personnel Report Form
- 3.4 EP-252-4 Medical Support Group Phone List

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

- 5.1 First Aid Kit

6.0 SYMPTOMS

- 6.1 Missing personnel or personnel with injury requiring first aid.

7.0 ACTION LEVEL

- 7.1 The Search and Rescue/First Aid Group is activated whenever personnel are known to be missing or in need of help.

8.0 PRECAUTIONS

- 8.1 Personnel shall participate in search and rescue operations on a voluntary basis.
- 8.2 Proper radiological controls shall be followed as much as practicable during search and rescue operations. Continuous coverage by Health Physics technician may be substituted for a Radiation Work Permit.
- 8.3 Planned radiation exposures should be limited to the administrative guide levels in Appendix EP-252-1 Emergency Exposure Guidelines.
- 8.4 Life-saving first aid treatment has priority over decontamination or treatment for radiation exposure.
- 8.5 Radiation exposure and group member contamination should be minimized as much as practical.
- 8.6 If gross external contamination is found, internal contamination should be suspected.
- 8.7 Any material removed from a contaminated person shall be recovered for potential use for isotopic analysis.
- 8.8 The Search and Rescue/First Aid Group Leader will maintain contact with the Personnel & Safety Team Leader at the designated assembly area.

3842105820

- 8.9 If first aid team is unable to move an injured person due to the nature of the injury, assistance of local ambulance personnel may be utilized.

9.0 PROCEDURE

9.1 IMMEDIATE ACTIONS

- 9.1.1 Personnel Safety Team Leader shall:
- 9.1.1.1 Select a qualified person at the OSC to be the Search and Rescue/First Aid Group Leader and to carry out Section 9.1.2 of this procedure.
 - 9.1.1.2 Inform the Interim Emergency Director or the Emergency Director that search and rescue/first aid groups have been formed and of their intentions to enter the plant for search and rescue operations. (Attempt to locate missing person(s) by utilizing plant paging system just prior to actually dispatching the search and rescue group(s)).
 - 9.1.1.3 Obtain exposure limits from the Emergency Director. If later search and rescue operations are necessary, the Emergency Director may adjust the radiation exposure limits accordingly. If waiting for Emergency Director approval could endanger personnel, the search and rescue/first aid group leader may decide to remove injured person.
 - 9.1.1.4 If offsite medical help is necessary, have the ambulance, hospital or physician contacted by using Appendix EP-252-4 Medical Support Groups Phone List. Always state the number of individuals involved, type of injury and if contamination is involved.
 - 9.1.1.5 Notify security so that the offsite medical response group's access to the Restricted Area can be expedited, if necessary.
 - 9.1.1.6 Recall the search and rescue groups when search and rescue operations are no longer necessary.

- 9.1.2 Search and Rescue/First Aid Group Leader shall:
- 9.1.2.1 Select volunteers from available personnel to form search and rescue/first aid squads. Each squad shall consist of at least three members; two must be qualified in first aid and one must be a health physics technician.
 - 9.1.2.2 Ensure that each member has the necessary respiratory equipment, radsurvey equipment, anti-contamination clothing, and personal dosimetry. This material can be obtained from emergency survey kits at the OSC or from normal HP stocks.
 - 9.1.2.3 Discuss the situation with the Personnel Safety Team Leader. The following information should be obtained prior to performing search and rescue operations:
 - A. Number of missing persons.
 - B. Name of individuals.
 - C. Last known location of individuals.
 - D. The job being worked.
 - E. Any significant plant conditions that may affect the search and any special instructions.
 - 9.1.2.4 Ensure the group is equipped with a first aid kit, or can get one enroute. See attached Appendix EP-252-2 for listing of first aid equipment location in the plant.
 - 9.1.2.5 Coordinate search and rescue/first aid squads to minimize duplication of effort and unnecessary radiation exposure.
 - 9.1.2.6 Direct the groups to the last known location of the missing individual. If necessary, expand the search to adjacent areas. Ensure most expeditious routes available are taken to minimize team exposure.
 - 9.1.2.7 Inform the Personnel Safety Team Leader of the actions of the group and whenever the group locates any missing personnel, and the identity of located personnel.

- 9.1.2.8 Determine the extent of the injury and direct administration of first aid.
- 9.1.2.9 Report to the Personnel Safety Team Leader the extent of the individual's injuries and recommend supplementary medical actions as necessary (i.e., hospitalization). Complete Appendix EP 252-3 (if possible) and attach to injured person prior to transporting in ambulance.
- 9.1.2.10 Report to the Personnel Safety Team Leader when the search and rescue/first aid group has finished its task.
- 9.1.3 Search and Rescue/First Aid Squad Members shall:
- 9.1.3.1 Perform a radiation and contamination survey of the person and subsequently the area.
- 9.1.3.2 Transport the injured person to a site first aid facility if practicable.
- 9.1.3.3 Perform the following if the injured person is contaminated.
- A. Wear necessary anti-contamination clothing if practicable.
- IF THE INJURY IS SEVERE, IMMEDIATE MEDICAL TREATMENT IS OF THE HIGHEST PRIORITY AND RADIOLOGICAL CONTROLS ARE SECONDARY.
- B. Administer appropriate first aid, being careful to limit the spread of contamination and limit personal exposure.
- C. IF INJURY IS NOT SEVERE, DECONTAMINATION SHALL BE ATTEMPTED.
- D. Prepare the person for transportation by covering the contaminated area with a protective wrap. Avoid excessive wrapping to prevent dehydration of the person.

IF THE INJURED PERSON IS GOING TO BE TRANSPORTED TO AN OFFSITE MEDICAL FACILITY, IT MAY NOT BE FEASIBLE TO

BRING THE PERSON TO THE FIRST AID FACILITY, INSTEAD MOVE THE PERSON TO A SAFE PLACE WHICH IS EASILY ACCESSIBLE FOR THE TRANSFER TO A VEHICLE.

E. When transporting the victim to an offsite medical facility, a Health Physics Technician shall accompany the victim to assist the medical staff.

9.1.3.4 Recover any contaminated articles of clothing that may have been removed from the person for isotopic analysis.

9.2 Follow-Up Actions

9.2.1 Search and rescue group members shall:

9.2.1.1 Report results of their actions to the Personnel Safety Team Leader.

9.2.1.2 Follow normal decontamination and disposal procedures when their tasks are complete.

9.2.2 Personnel Safety Team Leader shall:

9.2.2.1 Verify the victim's arrival at the medical facilities.

9.2.2.2 Inform the Emergency Director of results of search and rescue efforts.

9.2.2.3 Have the Health Physics technician accompanying victim to the hospital, call the Personnel Safety Team Leader when informed by the hospital that his services are no longer needed. With the concurrence of the Personnel Safety Team Leader he may proceed to another assignment.

9.2.2.4 Arrange for inventory and restocking of first aid kits, if necessary.

9.2.3 The Emergency Director shall:

9.2.3.1 Have the Medical Director and Corporate Communications informed of the identify and condition of the victim(s).

10.0

REFERENCES:

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654, Criteria for Preparation and
Rev.1 Evaluation of Radiological Emergency
Response Plans and Preparedness In
Support of Nuclear Power Plants.

APPENDIX EP 252-1
Emergency Exposure Guidelines

<u>Function</u>	<u>Projected Whole Body Dose</u>	<u>Thyroid Dose</u>	<u>Authorized By</u>
1. Life Saving and Reduction of Injury	75 rem*	375 rem	Emergency** Director
2. Operation of Equipment to Mitigate an Emergency	25 rem*	125 rem	Emergency** Director
3. Protection of Health and Safety of the Public	5 rem	25 rem	Emergency Director
4. Other Emergency Activities	10 CFR 20 limits	10 CFR 20 limits	Emergency Director
5. Re-entry/Recovery Activities	Station Administra- tive Guide- lines	Station Adminis- trative Guide- lines	N/A

* Reference: EPA-520/1-75-001 Table 2.1

** Such exposure shall be on a voluntary basis

3842105820

APPENDIX EP-214-2
FIRST-AID EQUIPMENT LOCATIONS

	<u>STRETCHERS</u>	<u>FIRST AID KITS</u>	<u>BLANKETS</u>
Unit 1 RX Encl. Elevator Stairwells			
Elev. 177'	X	X	X
Elev. 201'	X	X	X
Elev. 217'	X	X	X
Elev. 239'	X	X	X
Elev. 253'	X	X	X
Elev. 283'	X	X	X
Elev. 313'	X	X	X
Elev. 351'	X	X	X
Elev. 352'	X	X	X
Unit 2 RX Encl. Elevator Stairwells			
Elev. 177'	X	X	X
Elev. 201'	X	X	X
Elev. 217'	X	X	X
Elev. 239'	X	X	X
Elev. 253'	X	X	X
Elev. 283'	X	X	X
Elev. 313'	X	X	X
Elev. 331'	X	X	X
Elev. 352'			
Turbine Encl. East & West Stairwells			
Elev. 200'		X	
Elev. 217'		X	
Elev. 239'		X	
Elev. 269'		X	
Turbine Encl. Equipment Hatch			
Elev. 217'		X	X

	<u>STRETCHERS</u>	<u>FIRST AID KITS</u>	<u>BLANKETS</u>
Control Enclosure Elevator Stairwells			
Elev. 180'	X	X	X
Elev. 200'	X	X	X
Elev. 217'	X	X	X
Elev. 239'	X	X	X
Elev. 254'	X	X	X
Elev. 269'	X	X	X
Elev. 289'	X	X	X
Elev. 304'	X	X	X
Elev. 332'	X	X	X
Radwaste Encl. North Stairwell			
Elev. 162'		X	X
Elev. 191'		X	X
Elev. 217'		X	X
Elev. 237'		X	X
Elev. 257'		X	X
Circ. Water Pump House	X		
220 Switchyard Encl.	X		
500 Switchyard Encl.	X		

NOTE: 1/2 Mile Rays (Emergency Flashlights) Are Located Just Outside Door To Unit 2 Side of Main Control Room In Cabinet.

APPENDIX EP 252-3
INJURED PERSONNEL REPORT FORM
(PREPARE IN DUPLICATE)

3842105820

Injured Person's Name _____

Age _____

Badge No. Or
Social Security No. _____

Male _____ Female _____

Type and Location of Injury _____

Radioactive Contamination _____ Yes _____ No _____ Level

Location _____

Radiation Exposure Estimate _____

Where Did Injury Occur _____

Prepared by First Aid Group Leader _____ SIGNATURE

Group Members _____

If practicable forward original, with the person, to the site
first aid facility or hospital as appropriate.

3842105820

APPENDIX EP 252-4
MEDICAL SUPPORT GROUP PHONE LIST

Local Physicians

	<u>Office</u>	<u>Home</u>
Dr. Charles W. Delp	367-2259	
Dr. Arthur Mann	327-7105	323-8593

Pottstown Memorial Medical Center

(Contaminated or otherwise)

1600 E. High St.
Pottstown, PA 19464

327-7000

Radiation Management Corporation

(Serious Contamination/or Exposure*
multiple contaminated personnel)

Dr. Roger E. Linneman

Preferred Alternate

1-243-2955 1-243-2950

(Beeper-1-894-7776)

Ambulance

Goodwill Ambulance Co.

326-0500

*Serious Contamination/Exposure is:

Whole Body Exposure greater than 25 REM or skin exposure
greater than 150 REM or extremity exposure greater than 375
REM or contamination causing body contacted reading of
greater than 1 MR/HR or suspected or actual inhalation or
ingestion of measurable quantities of radioactive material.



RECEIVED

JUL 18 1984

R. A. KANKUS

LOWER PROVIDENCE TOWNSHIP

100 Parklane Drive
Eagleville, PA 19403

Telephone: (215) 539-8020

July 13, 1984

Mr. C. Gregory Whitman
Philadelphia Electric Company
680 Ridge Pike
Plymouth Meeting, PA 19462

Dear Greg:

Please be advised that the Board of Supervisors at their public meeting of July 9, 1984 agreed not to participate in the July 25 Emergency Evacuation Drill as planned by PECO.

The Board's reasons for not participating include the lack of trained staff within the township at present, the failure of PECO to provide us with equipment and training personnel in time for adequate preparation for the drill, and the fact that our emergency coordination volunteer committee is just assembling and will have their first meeting on July 19.

If you have any further questions, please contact me at your earliest convenience. I would appreciate your contacting me as to the probability of a future drill later this summer.

Sincerely,

John P. Mikowychok
Acting Township Manager

JPM:VRM

cc: Timothy Hasson, Montgomery County Emergency Preparedness Office
Paul B. Bartle, Commissioner, Montgomery County
Thomas Rogers, Emergency Coordinator
Bill Adam, Evacuation Committee
Board of Supervisors

COUNTY OF CHESTER

COMMISSIONERS

Earl M. Baker, Chairman

Robert J. Thompson

Patricia Moran Baldwin

K. S. BULLAN

DEPARTMENT OF EMERGENCY SERVICES

14 East Biddle Street, West Chester, PA 19380 (215) 431-6160

Timothy R. S. Campbell
Director

JUL 16 1984

July 12, 1984

Mr. Vincent S. Boyer
Senior Vice President-Nuclear Power
Philadelphia Electric Company
2301 Market Street
Philadelphia, PA 19124

Dear Vince:

Attached is a list of materials needed for operation of an emergency worker decontamination and a mass care monitoring team station. As you know, we plan to open three emergency worker stations and a mass care station at each mass care center as evacuees are accepted.

At present, we need to locate a source of these materials both for a real incident and for the July 25th drill. Would it be possible for you to develop a storage reserve at your Berwyn facility and a means of delivery to the appropriate facility as required.

Can we get this in place by July 25th? If not, can PECO supply sufficient materials for the drill for one emergency worker decontamination station and two mass care stations plus one spare set for dispatch reserve.

Sincerely

Timothy R. S. Campbell
Timothy R. S. Campbell
Director

TRSC/esb
Attachment



Founded 1682



Decontamination Monitoring Team Equipment and Materials

1.	Small plastic bags for probe	20
2.	Showers (can be adapted for hose)	1
3.	Individual soap, mild abrasive	30
4.	Large plastic bags	30
5.	Tags for property	250
6.	Disposable towels (small)	250
7.	Towels, bath	30
8.	Plastic/metal garbage cans with lid	5
9.	Decontamination monitoring log sheets	100
10.	Decontamination Monitoring Report Forms (PCMA DMR-1)	100
11.	Large scrub brushes	2
12.	Whisk broom	2
13.	Opaque sheets of plastic	4
14.	Frame work for showers	1

COUNTY OF CHESTER

Y. S. 8071.8

COMMISSIONERS

JUL 12 1984

Earl M. Baker, Chairman

Robert J. Thompson

Patricia Moran Baldwin

DEPARTMENT OF EMERGENCY SERVICES

14 East Biddle Street, West Chester, PA 19380 (215) 431-6160

Timothy R. S. Campbell
Director

July 9, 1984

copy to
T Stowell
in the Commish
SLD/MSC
/RHL/RK
CB/S Boyle

Mr. Vincent S. Boyer
Senior Vice President-Nuclear Power
Philadelphia Electric Company
2301 Market Street
P. O. Box 8699
Philadelphia, PA 19101

NUCLEAR SERVICES R. H. LOGUE JUL 18 1984
Noted:
Referred:

Dear Vince:

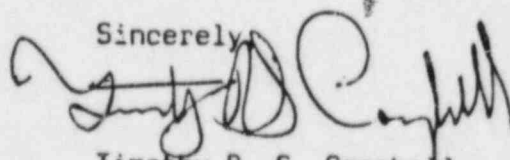
I would like to raise another issue with you that goes back to Commissioner Thompson's first letter to you of July, 1983. As a result of the time and meetings and effort involved in planning for incidents at Limerick, the staff of the Department of Emergency Services has accumulated over 54 days of compensatory time.

This places a long term obligation on the County of Chester and will reduce our ability to address other emergency management issues. In addition, with few exceptions, the staff associated with planning have not taken vacations and may be in danger of losing their time due to county policy, having over 277.5 days accrued.

Since much of the comp time was accumulated in evening and weekend meetings and sessions away from their families and homes, I wonder if PECO would be willing to make some contribution which would allow the County to buy back some of the accumulated comp time. We are asking the staff to give up their summer for the planning process and the drill and related activities.

This willingness to help would partially compensate the County of Chester for the effort that has gone into the preparation of the Limerick RERP.

Sincerely,



Timothy R. S. Campbell
Director



Founded 1682



COUNTY OF CHESTER

R. S. FORTER

Earl M. Baker, Chairman

COMMISSIONERS

Robert J. Thompson

Patricia Moran Baldwin

JUL 10 1984

DEPARTMENT OF EMERGENCY SERVICES

14 East Biddle Street, West Chester, PA 19380 (215) 431-6160

Timothy R. S. Campbell
Director

July 10, 1984

NUCLEAR SERVICES
R. H. LOGUE
JUL 18 1984

Mr. Vincent S. Boyer
Senior Vice President-Nuclear Power
Philadelphia Electric Company
2301 Market Street
Philadelphia, PA 19124

Noted:

Referred:

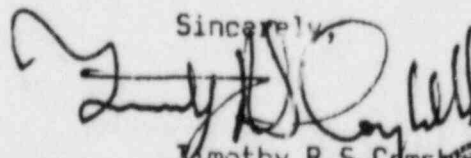
Dear Vince:

As a result of reviewing my plan and our resources, it has become apparent that the County will have to consider distribution of dosimetry potassium iodide and thermal luminiscent dosimeters prior to the beginning of any incident at the Limerick Generating Station. Although we had planned to maintain a central supply at the County and distribute it at the alert to site emergency, this has proven not to be possible due to logistics. As a result, we have contacted the municipalities and most of them are at present willing to accept preincident distribution of dosimetry potassium iodide and thermal luminiscent dosimeters.

The one issue that most of them refer to is the fact that they will require some kind of locked box to maintain security on these items in the periods of storage. An analysis by my staff indicates that the provision of 21 five foot by three foot boxes in a foot locker configuration would meet this requirement. That would allow distribution to all 15 municipalities and our one hospital before the event as well as allow for sufficient transportation of the items required for the three emergency service worker decontamination stations and the transportation center. Would it be possible for the Electric Company to buy these foot lockers for the use by the appropriate agencies?

It is very probable, should you make the foot lockers available, that we would also require one for West Nottingham Township and the Lincoln University Reception Center for incidents at the Peach Bottom Atomic Power Station, as well. I appreciate the cooperation of your staff as always and hope to be hearing from you soon.

Sincerely,



Timothy R. S. Campbell
Director



Founded 1682



*Copy to T Storch
WMC Comm
SLD/MJC
✓ RHL/R
CB/SB*

COUNTY OF CHESTER

V. S. BOYER

Earl M. Baker, Chairman

COMMISSIONERS

Robert J. Thompson

Patricia Moran Baldwin

JUL 13 1984

DEPARTMENT OF EMERGENCY SERVICES

14 East Biddle Street, West Chester, PA 19380 (215) 431-6160

Timothy R. S. Campbell
Director

July 10, 1984

*Copy to T. Stowell
in the Criminal
SLD/MW
/RAL/RY
CB/SK*

Mr. Vince Boyer
Senior Vice President-Nuclear Power
Philadelphia Electric Company
2301 Market Street
Philadelphia, PA 19124

NUCLEAR SERVICES R. H. LOGUE JUL 18 1984
Noted:
Referred:

Dear Vince:

As we approach the July 25th drill date, it is very obvious that a fairly substantial amount of time on the part of the County of Chester is, or will be, used in preparatory drills, training for the July 25th exercise and in the exercise itself. To date, the County Department of Emergency Services and County emergency operations staff have participated in two three-hour training sessions, three two-hour local EOC exercise sessions, the planned July 11th drill, a four-hour Tabletop on July 13th, the exercise on July 18th as well as a two-hour local municipal exercise session that evening. Although the number of participants vary in each particular case, there is accrued a substantial amount of time.

I would like to raise the question with you that of whether or not the utility company will compensate the County of Chester for the time taken away from normal duty assignments by persons preparing for the drill on July 25th. This is, of course, in addition to the time which will be expended actually on the 25th as part of the overall exercise. You will recall the fact that this has been a concern of the County of Chester ever since Commissioner Thompson first wrote you in July of 1983. I would like to pursue with you and your staff the issue of compensation for the County and I will be more than happy to provide you with full details of the exact costs involved should it prove necessary.

Hoping to hear from you.

Respectfully yours,

Timothy R. S. Campbell
Timothy R. S. Campbell
Director

esb

cc:



Founded 1682



COUNTY OF CHESTER

COMMISSIONERS

Earl M. Baker, Chairman

Robert J. Thompson

Patricia Moran Baldwin

DEPARTMENT OF EMERGENCY SERVICES

14 East Biddle Street, West Chester, PA 19380 (215) 431-6160

Timothy R. S. Campbell
Director

July 11, 1984

RECEIVED

JUL 18 1984

R.A.K.

Ms. Roberta Kankus
Director of Emergency Preparedness
Philadelphia Electric Company
2301 Market Street
Philadelphia, PA 19101

Dear Robbi:

Could you have someone write up the exact procedure for use of the "Blue" Telephone Systems. As you know, we have two and I do not want to get into problems for each.

A brief one or two page summary would be good. It should be written for the non-technical user and should address all special features of the systems. If you have any questions, please feel free to call me.

Sincerely,

Timothy R. S. Campbell

Timothy R. S. Campbell
Director

TRSC:ce



Founded 1682



COUNTY OF CHESTER

COMMISSIONERS

Earl M. Baker, Chairman

Robert J. Thompson

Patricia Moran Baldwin

DEPARTMENT OF EMERGENCY SERVICES

14 East Biddle Street, West Chester, PA 19380 (215) 431-6160

Timothy R. S. Campbell
Director

July 2, 1984

Mr. Thomas Mannos
Office of Systems and Communications
2301 Market Street
Philadelphia, PA 19101

Dear Tom:

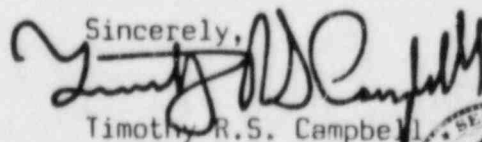
Enclosed you will find an Order to Cut by the County of Chester to Bell of Pennsylvania and Attis for the additional telephones required for the operation of the Recall System, our Rumor Control Center and our Emergency Operating Center. These phones are on the County's Centrex master network and have access to a number of features that we consider essential including inter and intra states watts lines, automatic route selection, and maximum cost savings routing. We expect to have them in for the drill on July 25th and would ask that the telephones that Philadelphia Electric Company will be providing also be made available by that date.

Per my conversation with Henry Taminini of Energy Consultants, this procedure is acceptable to Philadelphia Electric Company and will be paid by bill from the County of Chester to the Philadelphia Electric Company. Unless I hear differently, I will send the bill to you for processing. The 16 telephone numbers that are additional to our existing network have been set up as a separate account and will be handled as such on a permanent basis.

Besides the initial installation bill, how does PECO intend to handle the reoccurring expense of these lines as well as the possible expense of operating them on drill days or in the event of a real incident? The County expects that any use of the lines in emergencies other than connected with the Peach Bottom and Limerick stations would be the responsibility of the County. This will include many other emergencies since we do intend to use these facilities in the event of major plane crashes, train wrecks, chemical disasters, or enemy attack. Hope this covers everything.

If you have any questions, please feel free to get back to me.

Sincerely,


Timothy R. S. Campbell



Founded 1682



COUNTY OF CHESTER

TELECOMMUNICATIONS EQUIPMENT/LINE CHANGE ORDER

TO:

Marsha Payne
Special Accounts
~~Liberty Region - Bell Atlantic~~
1835 Arch Street - 6th Floor
Philadelphia, PA 19107

FROM:

R. A. (Roe) Neale,
Telecommunications Coordinator
Chester County North Wing Courthouse
Room 501, High and Market Streets
West Chester, PA 19380
(215) 431-6144

EQUIPMENT/LINE CHANGE AREA:

☒ CENTREX ACCT. 431-6000; ☐ OTHER ACCT.

EMERGENCY SERVICES (PECO-LIMERICK)

DATE: July 3, 1984

Hazlett Building

DEPT'S MAIN #: 431-6160

14 E. Biddle Street

BLDG. LOCATION #: 103

West Chester, PA 19380

ENTITY SHEET(s) #: 42, 46

Contact Person: T. Campbell

* DUE DATE: _____

* S.O. #(s): _____

* PLEASE ADVISE me of DATE DUE and SERVICE ORDER # when one is assigned.

PLEASE ORDER THE FOLLOWING:

☐ R U S H !

☒ WORK SHEET ATTACHED.

This order is necessary because of a Limerick Drill that will take place on July 25th, 1984. There will be two sections to this order, one for Emergency Services most of which is changes to existing equipment and one for Emergency Services (PECO-Limerick) all of which is a new installation. The entire order is to appear on our Centrex Account 431-6000, main billing number.

The room numbers that appear on this order, such as A, B and C, are located as follows:

Room A - is just east of the Walnut Street Basement telephone room. Has an arch roof.

Room B - is the EOC Operation Room in the Southeast Basement of the building. (Present location).

Room C - is the office of Mark Force - 2nd Floor Rear - (X6647).

Since the drill is to take place on July 25th, this order must be completely installed before the 25th. I will be on vacation from July 9th to the 16th, returning on the 17th. If you have questions during this period please call Tim Campbell at 431-6160.

ORDER CONTINUED ON PAGE TWO

cc: Tim Campbell, Emerg. Serv. Dir.
PECO-LIMERICK Tele. Coord.
File

cc: 047-R

July 3, 1984

LIMERICK DRILL ORDER CONTINUED

EMERGENCY SERVICES PORTION OF THIS ORDER: (The additions and changes are marked
in RED on the attached work sheets)

Extension 6048: We are terminating 6700 on key equipment associated with this
extension (AS593M67389KNE - 5.0A)

Extension 6160: We are terminating 6700 on key equipment associated with this
extension (AS593M67389KNE - 5.0A)

Extension 6160: We are terminating 6700 on key equipment associated with this
extension (AS593M67389KNE - 5.0A)

Extension 6480: Issue a new Call Pickup Group (designated on my work sheets
as #A).

Change Call Forwarding Busy Line from: 6040 to: 6700.

Change Call Forwarding Don't Answer from: 6040 to: 6700.

Extension 6087: We are terminating 6700 on key equipment associated with this
extension (AS593M67389KNE - 5.0A)

EMERGENCY SERVICES (PECO - LIMERICK) PORTION OF THIS ORDER: (The additions are
written in BLACK on the attached
work sheets - entire sheet is new)

Extension 6700: New extension - please make line good to the cable head direct
connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A).

Class of Service: RXRCX-CAT 06.

Add Call Forwarding Busy Line to: 6707.

Primary line.

Extension 6701: New extension - please make line good to the cable head direct
connect cable. (AS493N70140TET - 0.8A)

Add hunting to: 6702

Class of service: RXRCX-CAT 06.

Primary line.

Extension 6702: New extension - please make line good to the cable head direct
connect cable. (AS493N70140TET - 0.8A)

Add hunting to: 6703

Class of Service: RXRCX-CAT 06.

Primary Line.

CONTINUED ON PAGE THREE

LIMERICK DRILL ORDER CONTINUED

Extension 6703: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add hunting to: 6704
Class of Service: RXRCX-CAT 06
Primary line.

Extension 6704: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add hunting to: 6705
Class of Service: RXRCX-CAT 06
Primary Line.

Extension 6705: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add hunting to: 6706
Class of Service: RXRCX-CAT 06
Primary line.

Extension 6706: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add hunting to: 6701
Class of Service: RXRCX-CAT 06
Primary line.

Extension 6707: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A)
Add Call Forwarding Busy Line to: 6700
Add Call Forwarding Don't Answer to: 6700
Class of Service: RXRCX-CAT 06
Primary line.

Extension 6708: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A)
Add Call Forwarding Busy line to: 6700
Add Call Forwarding Don't Answer to: 6700
Class of Service: RXRCX-CAT 06
Primary line.

July 3, 1984

LIMERICK DRILL ORDER CONTINUED

Extension 6709: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A)
Add Call Forwarding Busy Line to: 6700
Add Call Forwarding Don't Answer to: 6700
Class of service: RXRCX-CAT 06
Primary line.

Extension 6710: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A)
Add Call Forwarding Busy Line to: 6700
Add Call Forwarding Don't Answer to: 6700
Class of Service: RXRCX-CAT 06
Primary line.

Extension 6711: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A)
Add Call Forwarding Busy line to: 6700
Add Call Forwarding Don't Answer to: 6700
Class of Service: RXRCX-CAT 06
Primary line.

Extension 6712: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A)
Add Call Forwarding Busy Line to: 6700
Add Call Forwarding Don't Answer to: 6700
Class of Service: RXRCX-CAT 06
Primary line.

Extension 6713: New extension - Please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A)
Add Call Forwarding Busy line to: 6700
Add Call Forwarding Don't Answer to: 6700
Class of Service: RXRCX-CAT 06
Primary line.

CONTINUED ON PAGE FIVE

Marsha Payne
Special Accounts

-5-

July 3, 1984

LIMERICK DRILL ORDER CONTINUED

Extension 6714: New extension - Please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

Add to new CPG (designated on my work sheets as #A)
Add Call Forwarding Busy Line to: 6700
Add Call Forwarding Don't Answer to: 6700
Class of Service: RXRCX-CAT 06
Primary Line.

Extension 6715: New extension - please make line good to the cable head direct connect cable. (AS493N70140TET - 0.8A)

When you call me with the Service Order Number and the due date, would you please advise me of the Call Pickup Group Number being assigned to this order and also a quote on the installation and monthly rate for Bell's portion of this order.

If you have questions, please do not hesitate to call either Tim Campbell while I am on vacation or me on or after July 17th.

Thank you for your attention to this matter.

COUNTY OF CHESTER

TELECOMMUNICATIONS EQUIPMENT/LINE CHANGE ORDER

TO:

B. Cipparone (Pam B.)
~~ATTIS - EMBEDDED BASE~~
Oak Hill Plaza - 2nd Fl.
200 Warner Road
King of Prussia, PA 19406

FROM:

R. A. (Roe) Neale,
Telecommunications Coordinator
Chester County North Wing Courthouse
Room 501, High and Market Streets
West Chester, PA 19380
(215) 431-6144

EQUIPMENT/LINE CHANGE AREA:

EMERGENCY SERVICES (PECO-LIMERICK)

Hazlett Building

14 E. Biddle Street

West Chester, PA 19380

Contact Person: Tim Campbell

431-6160

☒ CENTREX ACCT. 431-6000; ☐ OTHER ACCT.

DATE: July 3, 1984

DEPT'S MAIN #: 431-6160

BLDG. LOCATION #: 103

ENTITY SHEET(s) #: 42, 46

* DUE DATE: _____

* S.O. #(s): _____

* PLEASE ADVISE me of DATE DUE and SERVICE ORDER # when one is assigned.

PLEASE ORDER THE FOLLOWING:

☐ R U S H !

☒ WORK SHEET ATTACHED.

This order is necessary because of a Limerick Drill that will take place on July 25th, 1984. There will be two sections to this order, one for Emergency Service most of which is changes to existing equipment and one for Emergency Service (PECO-Limerick) all of which is a new installation. The entire order is to appear on our Centrex Account 431-6000, main billing number.

The room numbers that appear on this order, such as A, B and C, are located as follows:

Room A - is just east of the Walnut Street Basement telephone room. Has an arch ceiling.

Room B - is the EOC Operation Room in the Southeast Basement of the Building. (Present location).

Room C - is the office of Mark Force - 2nd fl. Rear - (X6647)

Since the drill is to take place on July 25th, this order must be completely installed before the 25th. I will be on vacation from July 9th to the 16th, returning on the 17th. If you have questions during this period please call Tim Campbell at 431-6160.

CONTINUED ON PAGE TWO

cc: Tim Campbell, Emerg. Serv. Dir.
: PECO-LIMERICK Tele. Coord.
: ATTIS-Installer
: File

cc: 047-B

July 3, 1984

LIMERICK DRILL ORDER CONTINUED

EMERGENCY SERVICES PORTION OF THIS ORDER: (The additions and changes are marked in red on the attached work sheets.)

Extension 6048: Install a LSI-16 with no noise to be associated with this extension.

Install extension 6048 in the LSI-8 associated with extension 6520.

Add extension 6700 to the 10-button set associated with extension 6048.

Extension 6160: Install a LSI-16 with no noise to be associated with this extension.

Add extension 6700 to the 6-button set associated with extension 6160.

Extension 6161: Add extension 6700 to the 6-button set associated with extension 6161.

Extension 6087: Add extension 6700 to be 6-button set associated with extension 6087.

Extension 6480: Rumor Control - Room A - Bridged Station Only with RJ11C Jack. No instrument needed.

Secondary line.

Wiring from terminal box to Room A will be done by ATTIS.

EMERGENCY SERVICES (PECO-LIMERICK) PORTION OF THIS ORDER: (The additions are written in BLACK on the attached work sheets - entire sheet is new).

Extension 6700: New Extension - Rumor Control - Room A - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room A will be done by ATTIS.

Add to LSI-16 associated with extension 6160

Add to LSI-16 associated with extension 6048

continued on page three

LIMERICK DRILL ORDER CONTINUED

Extension 6701: New extension - EOC Oper. Desk - Room B - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room B will be done by ATTIS.

Extension 6702: New extension - EOC Oper. Desk - Room B - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room B will be done by ATTIS.

Extension 6703: New extension - EOC Oper. Desk - Room B - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to SLI-16 associated with extension 6048

Wiring from terminal box to Room B will be done by ATTIS.

Extension 6704: New extension - EOC Oper. Desk - Room B - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room B will be done by ATTIS.

Extension 6705: New extension - EOC Oper. Desk - Room B - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room B will be done by ATTIS.

Extension 6706: New extension - EOC Oper. Desk - Room B - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from Terminal box to Room B will be done by ATTIS.

July 3, 1984

LIMERICK DRILL ORDER CONTINUED

Extension 6707: New extension - Rumor Control - Room A - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from Terminal box to Room A to be done by ATTIS.

Extension 6708: New extension - Rumor Control - Room A Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048 ,

Wiring from terminal box to Room A to be done by ATTIS.

Extension 6709: New extension - Rumor Control - Room A - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room A to be done by ATTIS.

Extension 6710: New extension - Rumor Control - Room A - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room A to be done by ATTIS.

Extension 6711: New extension - Rumor Control - Room A - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 Associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room A to be done by ATTIS.

Extension 6712: New extension - Rumor Control - Room A - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room A to be done by ATTIS.

continued on page five

July 3, 1984

LIMERICK DRILL ORDER CONTINUED

Extension 6713: New extension - Rumor Control - Room A - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room A to be done by ATTIS.

Extension 6714: New extension - Rumor Control - Room A - Bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room A to be done by ATTIS.

Extension 6715: New extension - Rumor Control - Room A - bridged station only with RJ11C Jack. No instrument needed.

Add to LSI-16 associated with extension 6160
Add to LSI-16 associated with extension 6048

Wiring from terminal box to Room A to be done by ATTIS.

Extension 6700: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

Extension 6707: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

Extension 6708: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

Extension 6709: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

Extension 6710: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

continued on page six

July 3, 1984

LIMERICK DRILL ORDER CONTINUED

Extension 6711: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

Extension 6712: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

Extension 6713: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

Extension 6714: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

Extension 6715: Secondary - Alert System - Room C - Bridged station only with RJ11C Jack. No instrument needed.

Wiring from terminal box to Room C to be done by ATTIS.

When you call me with the service order number and the date due, would you also quote on the installation and monthly rate for ATTIS's portion of this order.

If you have questions, please do not hesitate to call either Tim Campbell while I am on vacation or me on or after July 17th.

Thank you for your attention to this matter.

[illegible]

I-1p CL-Call DA-Don't Answ. LS-Line Status Indicator A-Appearance SR-Speaker Box (Color: E-Orange
 C-Out FOR-Forwarding CFV-CL FOR Variable P-Primary BHM-Button/Buzzer LMC-Lngr. Mtg. Cord R-Red
 C-Change BL-Busy Line COS-Class of Service S-Secondary manual LRC-Lngr. Rec. Cord Y-Yellow
 B-Black

NAME:	ROOM NUMBER:	ACTION: (I-O-C)	EXTENSION:	HUNTING TO:	CALL PICK UP GROUP (CPG)	CALL FOR /BL	CALL FOR/BL DA	CALL FORWARDING VARIABLE (CFV)	COS/RX5CX/0	COS/RX2 /A	COS/SGMXB/3	COS/RXRCX/6	COS/RX7CX/S	SET TYPE: 0-6-10-18-30	LSI (32) 6160	LSI (16) 6087	LSI (16) 6048	LSI (8) 6520	LSI (16) 6160	LSI (16) 6048	PRIMARY:	SECONDARY:	APPEARANCE:	B & B /MANUAL:	PARABOLIC LENS TO:	SPEAKER BOX: LNGR. MTG. CORD: LNGR. REC. CORD:	COLOR: E/R/Y/B	OTHER:
1 85mt Radio Room 820			6649				6160							0	✓	✓	✓	✓	✓	✓							E	
2 Maintenance			6647		54	6161	6161							0	✓	✓	✓	✓	✓	✓							E	
3 Fire Radio Room 274			6363			6581	6581																				E	
4 Radio Control A			6490			6700	6700																				E	
5			6700																									
6			6701																									
7			6702																									
8			6703																									
9			6704																									
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15			6710																									
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17			6712																									
18			6713																									
19			6714																									
20			6715																									

DEPARTMENT: Emergency Services ACCOUNT: 0184-430-00 BLDG. LOCATION: 103 FLOOR: 2nd
 CENTREX - ESSX-1
 Page 3 of 3
 ENTITY SHEETS: 42, 46, 48

CL-Call
O-Out
C-Change
BL-Busy Line
UA-Don't Answ.
CFV-CL FOR Variable
COS-Class of Service
LSI-Line Status Indicator
P-Primary
S-Secondary
A-Appearance
BHM-Button/Buzzer
Manual
SB-Speaker Box
LMC-Long Mtg. Cord
LRC-Long Rec. Cord
COLOR: E-Beige
R-Red
B-Black
Y-Yellow

20	Alert System	C	6709			6700	6700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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DEPARTMENT: Energy Serv. (Spec. Services) ACCOUNT #: _____ BLDG. LOCATION: 103 FLOOR: _____

CENTREX - ESSX-1

Page / of _____

ENTITY SHEETS: _____

R-Beige
R-Red B-Black
Y-Yellow

[illegible]

CENTREX - ESSX-1

Page 2 of 2

DEPARTMENT: Emerg. Serv. (Area - Kimberlick) ACCOUNT # : _____ BLDG. LOCATION: 103 FLOOR: _____
CUBIC YARDS: _____

ENTITY SHEETS:

COUNTY OF CHESTER

COMMISSIONERS

Earl M. Baker, Chairman

Robert J. Thompson

Patricia Moran Baldwin

DEPARTMENT OF EMERGENCY SERVICES

14 East Biddle Street, West Chester, PA 19380 (215) 431-6160

Timothy R. S. Campbell
Director

July 9, 1984

RECEIVED

JUL 11 1984

R. A. KANKUS

Ms. Roberta Kankus
Director of Emergency Preparedness
Philadelphia Electric Company
2301 Market Street
Philadelphia, PA 19101

Dear Robbie:

In viewing where we stand in emergency planning for incidents at the Limerick Generating Station, I have come across a couple of areas that bother me. First, is the area of host facility planning. It is essential, in my mind, to have someone review the risk facility plan and whatever plans may exist at the host facilities to ensure that they match into the appropriate county plans. In the event that the host facility plans do not exist, I feel they should be created.

While my original concern was with nursing homes, as far as new plans go, and hospitals, as far as plan coordination goes; I am also concerned about the need to have a plan at each of the host schools which would eliminate the issue of where relocated students and staff would be placed physically as well as the obligations of the host facility. As you know, we use a number of facilities other than public schools for host facilities, most especially regarding private parochial schools, and each of these may have a unique set of circumstances which would need to be planned for and action implemented.

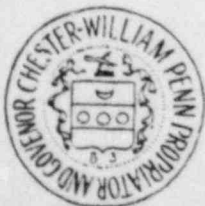
I think it would be a good idea if the Electric Company, in coordination with Energy Consultants, were to initiate planning in these three areas. We already have plans for the host facilities for the general public, i.e. the mast care centers, and I feel the same is essential at the host facilities for nursing homes and school evacuees. If you have any questions, please feel free to contact me.

Sincerely,

Timothy R. S. Campbell

Timothy R. S. Campbell
Director

TRSC:ce



Founded 1682



PHILADELPHIA ELECTRIC COMPANY B. R. STOWELL

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4500

July 16, 1984

V. S. BOYER
SR. VICE PRESIDENT
NUCLEAR POWER

Mr. Timothy R. S. Campbell
Director, Dept. of Emergency Services
County of Chester
14 East Biddle Street
West Chester, PA 19380

Dear Tim:

As I discussed with you at the press briefing this morning, I believe the storage needs of many of the communities for dosimetry and potassium iodide can be accommodated within the filing cabinet which is being supplied or another similar cabinet if necessary. You indicated that in some cases it was desired to store the dosimetry in a central area and that a footlocker was better for such purpose. I can agree that if the equipment is to be transported, a filing cabinet would make it rather difficult and that a footlocker would be better. I am asking Jeff Suzenski that in his contacts with you and the municipalities, he determine the most appropriate storage device so that arrangements can be made to provide this equipment.

Sincerely,

V. S. Boyer

bcc: W. J. McCormick
/B. R. Stowell
J. J. Suzenski



ENERGY CONSULTANTS

RIVERSIDE OFFICE CENTER 3 / 2101 N. FRONT ST. / HARRISBURG / PA 17110 / PH. (717) 236-0031
CORPORATE OFFICE: 121 SEVENTH STREET / PITTSBURGH / PA 15222-3487 / PH. (412) 434-5200

July 11, 1984

Mr. Anthony Morella
Emergency Management Coordinator
Upper Pottsgrove Township
1420 Heather Place
Pottstown, PA 19464

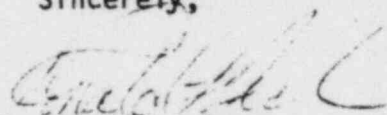
Dear Mr. Morella:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

In an attempt to provide some assistance, the Philadelphia Electric Company polled certain employees soliciting emergency management volunteers. Attached for your information is a list of those individuals who responded and indicated they reside in your municipality.

If you need additional staffing support, you may wish to contact these people.

Sincerely,


Ronald L. Deck

RLD/mer



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CORPORATE OFFICE: 121 SEVENTH STREET / PITTSBURGH / PA 15222-3487 / PH. (412) 434-5200

July 11, 1984

Mr. Kenneth S. Hagey, Chairman
Board of Supervisors
Upper Salford Township
P.O. Box F
Salfordville, PA 18958-0144

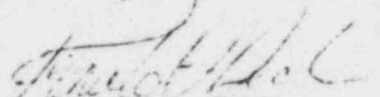
Dear Mr. Hagey:

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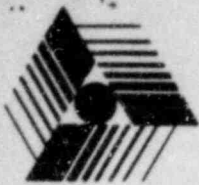
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Sincerely,


Ronald L. Deck

RLD/mer



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July 11, 1984

Mr. Robert P. DeAngelo
Emergency Management Director
Borough of Royersford
654 King Road
Royersford, PA 19468

Dear Mr. DeAngelo:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

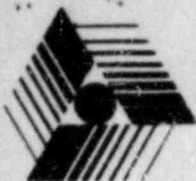
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Sincerely,

Ronald L. Deck

RLD/mer



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July 11, 1984

Mr. Melvin Guest
Emergency Management Coordinator
North Coventry Township
873 South Hanover Street
Pottstown, PA 19464

Dear Mr. Guest:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

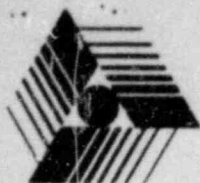
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Sincerely,

Ronald L. Deck

RLD/mer



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July 11, 1984

Mr. Roy Cubbler
Board of Commissioners
Lower Pottsgrove Township
P.O. Box 11
Sanatoga, PA 19464-0901

Dear Mr. Cubbler:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

In an attempt to provide some assistance, the Philadelphia Electric Company polled certain employees soliciting emergency management volunteers. Attached for your information is a list of those individuals who responded and indicated they reside in your municipality.

If you need additional staffing support, you may wish to contact these people.

Sincerely,

Ronald L. Deck

RLD/mer



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July 12, 1984

Mr. Gerhard Martin
Emergency Management Coordinator
Borough of Green Lane/Marlborough Township
108 Walnut Street
Green Lane, PA 18054

Dear Mr. Martin:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

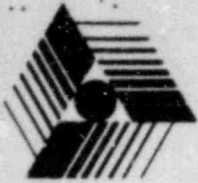
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Sincerely,

Ronald L. Deck

RLD/mer



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July 11, 1984

Mr. George Huguenin
Emergency Management Coordinator
Skipack Township
Box 184
Skipack, PA 19474

Dear Mr. Huguenin:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

In an attempt to provide some assistance, the Philadelphia Electric Company polled certain employees soliciting emergency management volunteers. Attached for your information is a list of those individuals who responded and indicated they reside in your municipality.

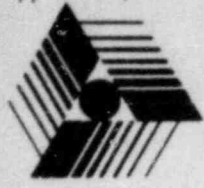
If you need additional staffing support, you may wish to contact these people.

Sincerely,



Ronald L. Deck

RLD/mer



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July 12, 1984

Mr. Harold L. Reigel
Emergency Management Coordinator
Amity Township
P.O. Box 215
Douglassville, PA 19518

Dear Mr. Reigel:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

In an attempt to provide some assistance, the Philadelphia Electric Company polled certain employees soliciting emergency management volunteers. Attached for your information is a list of those individuals who responded and indicated they reside in your municipality.

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Sincerely,

Ronald L. Deck

RLD/mer



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July 12, 1984

Mr. George Hughes
Emergency Management Coordinator
East Pikeland Township
Kimberton, PA 19442

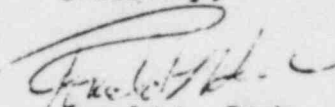
Dear Mr. Hughes:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

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Sincerely,



Ronald L. Deck

RLD/mer



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July 12, 1984

Mr. David J. Monteith
Emergency Management Coordinator
West Vincent Township
School House Lane
Birchrunville, PA 19421

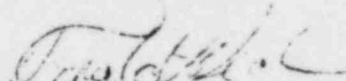
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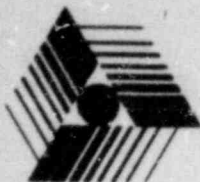
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Sincerely,


Ronald L. Deck

RLD/mer



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July 12, 1984

Mr. Norman Vutz
Emergency Management Coordinator
Schuylkill Township
801 Valley Park Road
Phoenixville, PA 19460

Dear Mr. Vutz:

During the course of developing the Radiological Emergency Response Plan for incidents at the Linmarick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

In an attempt to provide some assistance, the Philadelphia Electric Company polled certain employees soliciting emergency management volunteers. Attached for your information is a list of those individuals who responded and indicated they reside in your municipality.

If you need additional staffing support, you may wish to contact these people.

Sincerely,

Ronald L. Deck

RLD/mer



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July 12, 1984

Mr. Joe McMahon
Emergency Management Coordinator
Perkiomen Township
467 Gravel Pike, Rahns
Collegeville, PA 19426

Dear Mr. McMahon:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

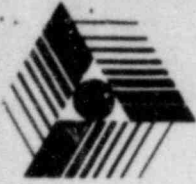
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RLD/mer



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July 12, 1984

Mr. Robert W. Feters, Jr.
Emergency Management Coordinator
Upper Uwchlan Township
R.D. #2, Milford Road
Downington, PA 19335

Dear Mr. Feters:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

In an attempt to provide some assistance, the Philadelphia Electric Company polled certain employees soliciting emergency management volunteers. Attached for your information is a list of those individuals who responded and indicated they reside in your municipality.

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Sincerely,

Ronald L. Deck

RLD/mer



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July 12, 1984

Mr. Donald Sees, Director
Emergency Management Agency
Borough of Phoenixville
316 Virginia Avenue
Phoenixville, PA 19460

Dear Mr. Sees:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

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Sincerely,

Ronald L. Deck

RLD/mer



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CORPORATE OFFICE: 121 SEVENTH STREET / PITTSBURGH / PA 15222-3487 / PH.(412)434-5200

July 12, 1984

Mr. Robert Wert
Box 169 D
Hollow Road
R.D. #4
Malvern, PA 19335

Dear Mr. Wert:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

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Sincerely,

Ronald L. Deck

RLD/mer



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July 12, 1984

Ms. Mary Catherine Lowery
Emergency Management Coordinator
Union Township
Box 33, R.D. #1
Douglassville, PA 19518

Dear Ms. Lowery:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

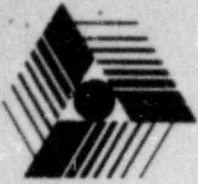
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July 11, 1984

Mr. Jack Shutes
Emergency Management Coordinator
Upper Providence Township
1301 Black Road Road, Box G
Oaks, PA 19456

Dear Mr. Shutes:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

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July 11, 1984

Mr. Terry R. Scholl
Emergency Management Coordinator
Lower Salford Township
474 Main Street
Harleysville, PA 19438


Dear Mr. Scholl:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

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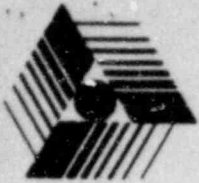
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Sincerely,



Ronald L. Deck

RLD/mer



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July 11, 1984

Mr. Harold Herr, Chairman
Board of Supervisors
Limerick Township
646 West Ridge Pike
Limerick, PA 19468

Dear Mr. Herr:

During the course of developing the Radiological Emergency Response Plan for incidents at the Limerick Generating Station, a few of the risk municipalities requested assistance in locating staff support for their Emergency Operations Centers.

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Sincerely,


Ronald L. Deck

RLD/mer



Radiation Management Corporation, 3508 Market St., P.O. Box 7940, Philadelphia, PA 19101 (215) 243-2956

RECEIVED

JUL 9 - 1984

July 5, 1984

R. A. KANKUS

Mr. Ralph Rosenberger
Captain
Lower Fredericks Ambulance
171 3rd Street
Schwenksville, PA 19473

Dear Mr. Rosenberger:

Radiation Management Corporation will present a 3-hour training program entitled, "Handling and Treatment of Radioactively Contaminated and Injured Patients by EMS Personnel".

This program will be conducted at the Trappe Fire Company, 20 W. 5th Avenue in Trappe and will begin at 7:00 p.m.

We welcome your group to attend this training session.

Feel free to contact me if you require additional information or have any questions.

Sincerely yours,

Shelly Koffler
EMAP Coordinator

SK:kd

cc: Vicki Warren
Graham Leitch
Roberta Kankus
W.F. Hushion, M.D.



Radiation Management Corporation, 3508 Market St., P.O. Box 7940, Philadelphia, PA 19101 (215) 243-2950

July 5, 1984

RECEIVED

JUL 9 - 1984

R. A. KANKUS

Mr. Robert Ward
Trappe Fire Co.
20 W. Fifth Ave.
Trappe, PA 19426

Dear Bob:

This will confirm the date, Monday, July 16, 1984, to conduct Radiation Emergency Medical training for your organization. An outline is enclosed.

As discussed with Ken Whitman, we will conduct a 3-hour session at your facility beginning at 7:00 PM. I will extend an invitation to the Lower Fredericks group to attend this program.

Feel free to contact me if you have any questions or require additional information.

Sincerely yours,

A handwritten signature in cursive script that reads "Shelly Koffler".

Shelly Koffler
EMAP Coordinator

kd
Enclosure

cc: Vicki Warren
Graham Leitch
Roberta Kankus
W.F. Hushion, MD.

THE HANDLING AND TREATMENT OF RADIOACTIVELY
CONTAMINATED AND INJURED PATIENTS
BY EMERGENCY MEDICAL SERVICES PERSONNEL

Prepared for
Philadelphia Electric Company
Limerick Generating Station

Prepared by
Radiation Management Corporation
3508 Market Street
Philadelphia, Pennsylvania 19104

July 16, 1984

THE HANDLING AND TREATMENT OF THE
RADIOACTIVELY CONTAMINATED AND INJURED PATIENT
BY EMS PERSONNEL

A G E N D A

INTRODUCTION	15 minutes	To introduce RMC, to explain the need for special procedures when responding to an accident involving a contaminated and injured patient; and provide overview of lecture ° Lecture and slide presentation
MEDICAL SIGNIFICANCE OF RADIATION EXPOSURE	30 minutes	To present the medical aspects of radiation injuries, exposure/ effect relationships and sources of radiation ° Lecture and slide presentation
REGULATORY GUIDE 8.13	15 minutes	To insure that rescue personnel understand the recommendations of the National Council on Radiation Protection regarding prenatal radiation exposure ° Lecture
BREAK	15 minutes	
EMERGENCY RESPONSE PROCEDURES	45 minutes	To instruct rescue personnel in procedures used for handling the contaminated and injured patient ° Video Tape & Audience Discussion
HANDLING THE CONTAMINATED AND INJURED PATIENT	60 minutes	To instruct rescue personnel in the techniques used for treating, handling and transporting the contaminated and injured patient. ° Participatory demonstration

THE HANDLING AND TREATMENT OF THE
RADIOACTIVELY CONTAMINATED AND INJURED PERSON
BY EMS PERSONNEL

LECTURE OUTLINE

INTRODUCTION

- Introduce self and firm
- Explain purpose of lecture
- Present overview of lecture
- Basic concerns when dealing with radiation accidents

MEDICAL SIGNIFICANCE OF RADIATION EXPOSURE

- Ionizing radiation vs other radiation
- Human exposure to radiation
- Terminology
- Background radiation
- dose vs dose rate
- Classification of radiation injuries
- Total body vs partial body exposures
- Exposure-effect relationships for total body exposures

REGULATORY GUIDE 8.13 /APPENDIX TO 8.13

- Explanation and Discussion of guide
- NCRP Position and recommendations
- Prenatal irradiation

EMERGENCY RESPONSE PROCEDURES, AMBULANCE ATTENDANTS
(VIDEO TAPE)

- Notification requirements
- Arrival at site
- Accident scene

Transport to hospital

Procedures at hospital

HANDLING THE CONTAMINATED AND INJURED VICTIM
(PARTICIPATORY DEMONSTRATION)

Use of protective clothing

Dosimetry

Control Lines

Patient transfer

Patient transport

THE HANDLING AND TREATMENT OF THE
RADIOACTIVELY CONTAMINATED AND INJURED PERSON

BY EMS PERSONNEL

TIME ALLOCATION:

3 hours

EQUIPMENT AND
MATERIALS:

RMC to provide:

35 mm slides as required
3/4" video tapes as required

LIMERICK GENERATING STATION to provide:

3/4" video player and monitor
35 mm projector slide carousel
viewing screen
protective clothing
ambulance rescue kit
disposable gloves and booties
stretcher: basket and scoop
two blankets
radiation warning rope
step off pad
Herculite
Dosimetry



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
Post Office Box 2063
Harrisburg, Pennsylvania 17120
June 28, 1984



RECEIVED

JUL 2 - 1984

R. A. KANKUS

Ms. Roberta Kankus S 7-1
Director of Emergency Preparedness Section
Nuclear Generating Division
Philadelphia Electric Company
2301 Market Street
Philadelphia, PA 19101

Dear Ms. Kankus:

Please find enclosed a list of persons from the Bureau of Radiation Protection who could require entry into the LGS Emergency Operations Facility in the event of an emergency.

In reality, only our three Nuclear Engineers and one or two Health Physicists would be at the EOF. The length of the list only reflects the number of professional staff which we can choose to send.

If there are any problems, please contact me at (717) 787-3479.

Sincerely,

Stuart R. Levin

Stuart R. Levin, Chief
Emergency Planning Section
Bureau of Radiation Protection

Enclosure



GREATER PHILADELPHIA SEARCH AND RESCUE
704 Preston Road, Erdenheim, Pa. 19118
Business Telephone 215 233 3360

RECEIVED

JUN 26 1984

R. L. HARPER

June 22, 1984

RECEIVED

JUN 27 1984

R. A. KANKUS

Mr. Ron Harper
Philadelphia Electric Co.
22nd & Market Sts.
Phila., Pa. 19103

Dear Mr. Harper:

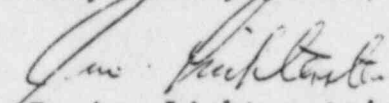
The Search and Rescue Unit of Greater Philadelphia Emergency Radio Team, also known as Greater Philadelphia Search and Rescue, is in need of Philadelphia Electric's assistance so that we may participate as requested in the Limerick Emergency Response Plan and to enhance our response to other incidents in our coverage area.

In the period since our organization we have, without outside support, become well organized and fairly well equipped. However, at this juncture we have need of several major items of equipment which may be available in used but useable condition within the Philadelphia Electric Company. The equipment we are attempting to locate fall generally in the following categories:

field support--portable generators, canvas shelters, lights, etc.
communications-- two way radios, pagers, tower sites
transportation-- small equipment trailers, storage space

I have enclosed some descriptive material for your information. To discuss this request further please contact us at the above telephone and address.

Very truly yours,


Irvin Lichtenstein, Chief

Internal Revenue Service
District Director

Department of the Treasury

Date: OCT 07 1982

Person to Contact:

Mr. Graff
Contact Telephone Number:
(215) 597-4168

Search and Rescue Unit Greater Phila.
Emergency Radio Team
704 Preston Rd.
Erdenheim, PA 19118

Based on the information you recently submitted, we have classified your organization as one that is not a private foundation within the meaning of section 509(a) of the Internal Revenue Code because you are an organization described in section 509(a)(1) & 170(b)(1)(A)(vi).

Your exempt status under section 501(c)(3) of the Code is still in effect.

This classification is based on the assumption that your operations will continue as you have stated. If your sources of support, or your purposes, character, or method of operation change, please let us know so we can consider the effect of the change on your exempt status and foundation status.

Because this letter could help resolve any questions about your foundation status, you should keep it in your permanent records.

If you have any questions, please contact the person whose name and telephone number are shown above.

Sincerely yours,

Cornelius J. Coleman
Cornelius C. Coleman
District Director

clh

Search & Rescue

704 Preston Road, Erdenheim, Pa. 19118

ESTD
(215) 233-3360

A BRIEF HISTORY OF THE SEARCH AND RESCUE UNIT, GPRT

The Search and Rescue Unit is an outgrowth of the Greater Philadelphia Emergency Radio Team (GPRT). GPRT was organized in 1971 to provide emergency radio communications on a volunteer basis.

Not content to merely communicate in the rear areas, GPRT members led convoys, assisted relief agencies, and patrolled floodlines during the Hurricane Agnes disaster of 1972. Members served in the communities of Bridgeport, Pottstown, and Wilkes Barre among others during this effort.

During the period after Agnes the Team developed an effective command and control system for internal use and the ability to create ad hoc specialty units on demand. By 1979 it had become apparent that the most frequent mission was land search. The concept of a specialized, yet self contained land search unit was approved by the membership in late 1979.

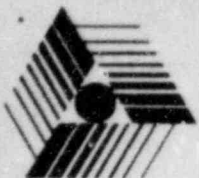
Today, the Search and Rescue Unit is the only independent land search organization in the Delaware Valley. The Unit's members are a cross section of the communities they serve. Many members are emergency medical technicians (EMT's), firefighters, and wilderness survival experts. All members are trained in rough terrain rescue, CPR, and first aid. In addition to in-service training and drills members participate in programs at Montgomery County Fire Training School, State rescue schools, and the National Emergency Management Institute.

The Unit has rebuilt donated commercial two-way radios and currently operates on two Special Emergency Radio Service frequencies with over 12 mobile VHF-FM radios. Additional interagency communications are provided by members licensed in the Amateur Radio Service and the General Mobile Radio Service. Members donate their time to maintain these radios in the Unit's own shop, equipped primarily with donated test equipment.

Unit members constitute a cadre of skilled search coordination and training personnel. Their expertise has been utilized by the Montgomery County and Philadelphia Offices of Emergency Preparedness and in consultations with several fire companies. The Unit also provided EMT's, command staff, and the communications systems for several major public gatherings, including the Rolling Stones' Concerts at Philadelphia's JFK Stadium in September, 1981. The Concerts were attended by over 100,000 persons per performance.

The Search and Rescue Unit is supported entirely by the efforts of its members and public donations of equipment. The Unit is a recognized charitable institution under Section 501(C)(3) of the Internal Revenue Code. To participate in the Unit's activities contact the Chief, Search and Rescue Unit at the address and telephone number above.

(6/3/82)



ENERGY CONSULTANTS

RIVERSIDE OFFICE CENTER 3 / 2101 N. FRONT ST. / HARRISBURG / PA 17110 / PH. (717) 236-0031
CORPORATE OFFICE: 121 SEVENTH STREET / PITTSBURGH / PA 15222-3487 / PH. (412) 434-5200

RELATED CORRESPONDENCE

1300 log

July 2, 1984

DOCKETED
USNRC

'84 JUL 30 P1:09

Ronald R. Seaman, Chief Clerk
County of Berks
Berks County Court House
33 North Sixth Street
Reading, PA 19601

Dear Ron:

I was delighted to hear from Bob Reber that you will be serving as the county's deputy Public Information Officer for the Limerick emergency plan.

Enclosed for your review is a copy of the Implementing Procedure for the Public Information Officer. As you can see, the actions to be taken are geared to the level of the incident at the Limerick plant. Most of the actions outlined in the procedure should be self-explanatory; please feel free to call me at any time with any questions or suggestions. I believe Bob has also provided you with a copy of the Executive Summary for the county plan; this should provide good background information.

I'm sure that Bob mentioned the practice drill to be held on July 12, starting at 7:00 p.m., in the Agricultural Center. I hope that you can attend, as this will be a valuable "dry run" for the official graded exercise set for July 25.

Again, please feel free to call me with any questions or concerns. Your assistance is appreciated.

Sincerely,

Jack Long
John F. Long, Jr.

JFL:jr
Enclosure
cc. R. Reber

IMPLEMENTING PROCEDURE

PUBLIC INFORMATION OFFICER

I. PURPOSE

The purpose of this procedure is to support Berks County's response to an incident at the Limerick Generating Station, ensuring that persons living, working or traveling in the Berks County section of the plume exposure pathway emergency planning zone are promptly advised of any protective action recommendations or other situation requiring their response.

II. SITUATION

- A. There are seven (7) municipalities located within the Berks County section of the plume exposure pathway EPZ.
- B. The Philadelphia Electric Company, in coordination with the Berks County EMA, has prepared and distributed emergency information to households and transient locations within the EPZ.
- C. The Philadelphia Electric Company has installed a public alert system within the EPZ. This system consists of a network of sirens. Those sirens located within Berks County are controlled by the Berks County EMA.
- D. The Berks County EMA has a designated telephone number for Rumor Control related to Limerick (215-374-4809). This number will be staffed by Berks County EMA secretarial personnel, backed up by Emergency Communications Center dispatchers.
- E. The Berks County EMA has designated the auditorium of the Berks County Agricultural Center as the County Media Center in the event of an incident at Limerick.

- F. The Berks County EMA has designated radio station WHUM (1240 AM) as its primary Emergency Broadcast System station.

III. ESSENTIAL DEFINITIONS

- A. Public Information Material - Material prepared and distributed annually to households and transient locations within the EPZ, providing emergency information specific to Limerick.
- B. Emergency Broadcast System - System utilizing local commercial radio stations to provide emergency information to the public in the event of local, regional or national emergency.

IV. RESPONSIBILITIES

- A. The Berks County Commissioners are responsible for the release of prepared instructions to the public in the event of an incident at Limerick. Such releases should be coordinated with the PEMA Public Information Officer.
- B. The Berks County Public Information Officer is responsible for activating the Media Center and for briefing news media as appropriate. All press releases will deal only with Berks County's response to the incident and will not address the specific situation at the Limerick Generating Station.
- C. The chairman of the Berks County Commissioners will serve as the County's spokesperson. He will be briefed by the Public Information Officer.
- D. The Berks County Public Information Officer is responsible for ensuring the adequate staffing and operation of the Rumor Control telephone, and will prepare written statements for Rumor Control staff.

V. OPERATIONAL PROCEDURES

A. UNUSUAL EVENT

No action necessary.

B. ALERT

- _____ 1. Report to the EOC if requested by the EMA Director.
(time
completed)
- _____ 2. Notify the deputy Public Information Officer to stand by
(reference Attachment A).
- _____ 3. Contact EBS radio station WHUM at 376-3987, advise them of the
ALERT, and place on standby status.
- _____ 4. Review all prepared EBS announcements (reference Attachment B).
- _____ 5. If the public alert (siren) system is to be activated at this
stage, coordinate informational message(s) with the EMA Director
and relay same to the EBS station along with the designated
siren activation time.
- _____ 6. Review procedures for SITE EMERGENCY.
- _____ 7. Maintain ALERT status until incident escalation or reduction or
termination.

NOTES:

C. SITE EMERGENCY

- _____ 1. Report to the EOC.
(time
completed)
- _____ 2. Notify the relief Public Information Officer, place on standby status, and prepare for extended (12-hour shift) operations (reference Attachment A).
- _____ 3. Contact EBS Station WHUM at 376-3987, advise them of the SITE EMERGENCY and place or maintain on standby status.
- _____ 4. Review all prepared EBS announcements with EBS station staff (reference Attachment B).
- _____ 5. Staff and activate the Rumor Control telephone, developing standard information releases and coordinating staffing with the EMA Director and Operations Officer.
- _____ 6. Establish the Media Center in the first floor auditorium, preparing and releasing periodic public information statements and briefing the media as deemed necessary. All press releases and briefings should be approved by the County Commissioners and coordinated with the PEMA Public Information Officer.
- _____ 7. Ensure that security personnel direct all media representatives to the Media Center in the first floor auditorium.
- _____ 8. If the public alert (siren) system is to be activated at this stage, coordinate appropriate public information or EBS messages with the EMA Director and relay same to the EBS station along with the designated siren activation time.
- _____ 9. Review procedures for GENERAL EMERGENCY.

_____ 10. Maintain SITE EMERGENCY status until incident escalation or
reduction or termination.

NOTES:

D. GENERAL EMERGENCY

- _____ 1. Report to the EOC.
(time
completed)
- _____ 2. Notify the relief Public Information Officer of the GENERAL EMERGENCY, place on standby status, and implement extended (12-hour shift) operations (reference Attachment A).
- _____ 3. Notify EBS station WHUM at 376-3987 of the GENERAL EMERGENCY, review all prepared EBS messages with station personnel, and maintain on standby status (reference Attachment B).
- _____ 4. Ensure the continued operation of the Rumor Control telephone, preparing standard information releases for use by rumor control staff.
- _____ 5. Oversee the continued operation of the Media Center in the first floor auditorium, preparing press releases and holding briefings as appropriate.
- _____ 6. When the designated public alert (siren) system activation time is known, coordinate EBS messages appropriate to the recommended protective action and relay same to the EBS station with the designated siren activation time.
- _____ 7. Maintain GENERAL EMERGENCY status until incident reduction or termination.

NOTES:

ATTACHMENTS

Attachment A. Public Information Officer and Staff

Attachment B. Prepared EBS Messages

IMPLEMENTING PROCEDURE
PUBLIC INFORMATION OFFICER
ATTACHMENT A
PUBLIC INFORMATION OFFICER AND STAFF

		<u>OFFICE</u>	<u>HOME</u>
Public Information Officer:	Vernon K. Shaffer	375-6121 ext. 270	929-0515
Deputy Public Information Officer:	-TBD-		

IMPLEMENTING PROCEDURE
PUBLIC INFORMATION OFFICER
ATTACHMENT B
PREPARED EBS MESSAGES

1. Take Shelter Announcement
2. Selective Evacuation Announcement
3. General Evacuation Announcement
4. School Evacuation Announcement
5. Reentry and Recovery Announcement
6. EBS Station Announcement

1. TAKE SHELTER EBS ANNOUNCEMENT

The following message has been released by the Berks County Emergency Management Agency.

"The Governor has announced that an emergency presently exists at the Limerick Generating Station. Persons living or working within an approximate ten mile radius of the facility are requested to take sheltering action.

According to State and Federal officials, there is no need for residents to leave the area at the present time.

In Berks County, people living, working or traveling in the following areas are affected by this request:

Amity Township - Eastern Half

Boyertown Borough - All

Colebrookdale Township - All

Douglass Township - All

Earl Township - South of L.R. 06053

Union Township - East of L.R. 06097

Washington Township - East of Route 100 and South of L.R. 06033

(Repeat the list of affected municipalities one time then continue the message.)

Persons living, working or traveling in this area should take sheltering action. Persons traveling to home or work should proceed to their destination in an orderly fashion obeying all traffic regulations. 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. If in an automobile, or when sheltering is not immediately available, improvised respiratory protection may be taken. Place a handkerchief, towel, or other similar item snugly over the nose and mouth until indoors.

Persons who have taken shelter should observe the following procedures:

1. Close all doors and windows.
2. Disconnect air conditioners or fans.
3. Lower the thermostat setting of any heater to minimize the intake of external air.
4. Keep pets inside, and to the extent possible, bring farm animals under covered facilities.
5. Locate your Berks 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 school your children are attending. They are in a covered protected environment and will be bused home when it is safe to do so.
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 Berks County Emergency Management Agency. It calls for all persons living or working within a ten-mile radius of 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 shall be repeated every five minutes until the station is informed by the County Emergency Management Agency to end transmission.)

2. SELECTIVE EVACUATION EBS ANNOUNCEMENT

The following message has been released by the Berks County Emergency Management Agency.

"The Governor has announced that an emergency presently exists at the Limerick Generating Station and recommends the evacuation of pregnant women and pre-school children within an approximate ten-mile radius of the facility.

In Berks County, pregnant women and pre-school children living in the following areas are affected by this request:

Amity Township - Eastern Half
Boyertown Borough - All
Colebrookdale Township - All
Douglass Township - All
Earl Township - South of L.R. 06053 (Powder Mill Road)
Union Township - East of L.R. 06097 (Shed Road)
Washington Township - East of Route 100 and South of L.R. 06033

(Repeat the list of affected municipalities one time then continue the message.)

Pregnant women and pre-school children needing shelter will be received at the Exeter Senior High School in Reiffton. Persons needing transportation to this site should contact their municipal emergency management agency at the number listed for your municipality in the Emergency Information Brochure for Limerick.

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 for at least this length of time.

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

The preceding has been a message from the Berks County Emergency Management Agency regarding the Governor's recommendation for the selective evacuation of pregnant women and pre-school children living within a ten-mile 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 Emergency Management Agency to end transmission.)

3. GENERAL EVACUATION EBS ANNOUNCEMENT

The following message has been released by the Berks County Emergency Management Agency.

"The Governor has announced that a General Emergency presently exists at the Limerick Generating Station and recommends the evacuation of all persons living or working within an approximate ten mile radius of the facility.

In Berks County this evacuation advisory affects persons in the following areas:

Eastern Half of Amity Township

Boyertown Borough

Colebrookdale Township

Douglass Township

Earl Township - South of L.R. 06053 (Powder Mill Road)

Union Township - East of L.R. 06097 (Shed Road)

Washington Township - East of Route 100 and South of L.R. 06033

(Repeat the list of affected municipalities one time then continue the message.)

If you live in this area, you are requested to locate the Berks County Emergency Information Brochure for Limerick which was previously distributed to all households and read the instructions pertaining to evacuation.

Main evacuation routes are provided traffic control by the Pennsylvania State Police for your rapid movement out of the endangered area. Please follow the main evacuation routes for your community. If you will need a place to stay, report to the designated reception center enroute. Please follow the main evacuation routes for your community:

Union Township East of L.R. 06097 (Shed Road). Take Route 724 West. Reception center is Cumru Elementary School in Shillington.

Amity Gardens of Amity Township. Take Route 422 West. Reception center is Reading Mall.

Eastern half of Amity Township except for Amity Gardens. Take Route 662 North. Reception center is Oley Valley High School.

Douglass Township, Southern portion. West of L.R. 06155 to L.R. 06102 to Route 662 North. Northern portion - West on Route 562 to Route 662 North. Reception center is Oley Valley High School.

Earl Township South of Powder Mill Road. Route 562 West to Route 662 North. Reception center is Oley Valley High School.

Colebrookdale Township, West of Route 100 and Boyertown Borough. West on Route 73. Reception center is Oley Valley High School.

Colebrookdale Township, East of Route 100 and that part of Washington Township East of Route 100 and South of L.R. 06033. Route 100 North. Reception center is Emmaus High School.

(Repeat this list one time and continue message.)

If you have housebound persons or invalids in your home and require assistance in moving them, contact your municipal emergency management agency at the number listed for your municipality in the Emergency Information Brochure for Limerick.

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.

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 to mass care centers will

be provided with food and sanitary facilities. Pets may accompany their owners, but will not be allowed inside the mass care centers. The care and feeding of pets is the responsibility of the owner.

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

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 Berks County Emergency Management Agency regarding a recommendation by the Governor for the evacuation of all persons living within a 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 Emergency Management Agency.)

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

4. SCHOOL EVACUATION EBS ANNOUNCEMENT

The following message has been released by the Berks County Emergency Management Agency. It supplements instructions given to the public relative to the general evacuation announcement for an approximate ten-mile radius around the Limerick Generating Station.

"Parents with children attending school within a ten-mile radius of the Limerick Generating Station are advised that their children are subject to a separate evacuation plan while school is in session. Children will be bused directly to schools outside the risk area. Parents are to meet their children at designated host schools located outside the emergency zone. I repeat, children will be bused directly to schools outside the risk area where parents are to meet their children. Parents are not to report to their children's school.

Parents of school children who live within an approximate ten-mile radius of the Limerick Generating Station and whose children attend schools beyond that distance are advised that their children will be cared for at their own school until they can be picked up.

Children attending schools within the risk area of Berks County will be bused to the following locations where they can be picked up:

All students of the Boyertown Area School District attending the following buildings will be bused to Kutztown University of Pennsylvania in Kutztown.

Boyertown Area Senior High
Boyertown Area Junior high East
Boyertown Area Junior High West
Lincoln Schol Special Education Students

All students of the Boyertown Area School District attending the following buildings will be bused to Kutztown Junior High School/ Kutztown Elementary School in Kutztown:

Lincoln School Head Start Students
Boyertown Elementary School
Colebrookdale Elementary School
Gilbertsville Elementary School
New Hanover/Upper Frederick Elementary School
Pine Forge Elementary School
Earl Elementary School
Washington Elementary School

All students of the Amity Elementary Center will be bused to the Daniel Boone Area High School in Birdsboro.

Students from the Montessori Academy of Pennsylvania in Boyertown will be bused to the Kutztown Area Junior High/Kutztown Elementary School.

Students from the Wayside Christian School in Boyertown will be bused to the administrator's home in Pikeville.

Students from the Pine Forge Academy and the Pine Forge SDA Elementary School will be bused to the Blue Mountain Academy in Hamburg.

(Repeat list one time and continue message.)

Parents are urged not to telephone or to go to the school that their children are attending. 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, but to meet their children at assigned host schools.

For more information, please refer to the school information and public information previously provided to you.

The preceding has been an announcement by the Berks County Emergency Management Agency giving parents instructions on where to meet their children who are attending school within an approximate ten-mile radius around the Limerick Generating Station."

(Repeat this message one time then end transmission.)

(This message shall be broadcast along with the General Evacuation announcement when instructions are given by the Emergency Management Agency to do so.)

IP-3-B-13

Draft 1

5. REENTRY AND RECOVERY EBS ANNOUNCEMENT

The following message has been released by the Berks County Emergency Management Agency and affects all Berks 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 manned by emergency personnel. Arrangements have been made for the sale of limited quantities of gasoline along the reentry routes. These locations will also be marked.

It is requested that each family cooperate with those who 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 Berks County Emergency Management Agency 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 Emergency Management Agency to end transmission.)

6. EBS STATION ANNOUNCEMENT*

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

If you are not a Berks 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 Chester County: Station WCOJ AM 1420

For Montgomery County: Station KYW AM 1060

Other counties are not affected."

* Primary EBS stations read this message between EBS announcement.



JERRY DUCKETT
CIVIL DEFENSE DIRECTOR

COUNTY OF LEHIGH
DEPARTMENT OF PROPERTY SERVICES
OFFICE OF CIVIL DEFENSE

RECEIVED

JUL 2 - 1984

B. A. KANKUS

COURTHOUSE • P. O. BOX 1548
ALLENTOWN, PENNSYLVANIA 18105
(215) 820-3073

RELATED CORRESPONDENCE
DOCKETED
USNRG

24 JUL 30 P 1 03

June 26, 1984

Ms. Roberta A. Kankus
Director of Emergency Preparedness
Philadelphia Electric Company
2301 Market Street
Philadelphia, Pa. 19101

Dear Ms. Kankus:

During the course of preparation of Lehigh County's support plan for incidents at the Limerick Generating Station and recent drill activities to participate in the July 25 exercise, it has become apparent that several items directly related to this emergency response activity would greatly improve Lehigh County's response capabilities. These include the following:

	<u>Estimated Cost</u>
1 dozen reflective traffic vests @ \$9.00 each	108.00
1 box of flares	50.00
1 map file (model no. 439CRI-30 Plan Hold Corp. Lehigh Blueprint 2000 Butler St. Easton, Pa.) \$465.00 minus \$69.75 municipal discount	395.25
4 portable status boards (Weber Costello: T5-744-318 @ \$324.95	1,299.30
6 in/out trays (Sterling: K5-283-W5) @ \$5.75	34.50
3 folding tables (Barricks: BK-MLS-568) @ \$180.65	541.95
16 folding chairs (Samsonite: SC-2705-04) 4 @ \$64.00	256.00
1 topographic composite map of Lehigh County mounted on styrofoam and laminated (7½" quads)	70.00
1 RACES Base Station (Icom 271A 2 meter transceiver with power supply)	708.95
4 portable 2-way radios (quote attached)	see quote
4 AT&T 10-button telephone sets including intercom and hold button	check AT&T

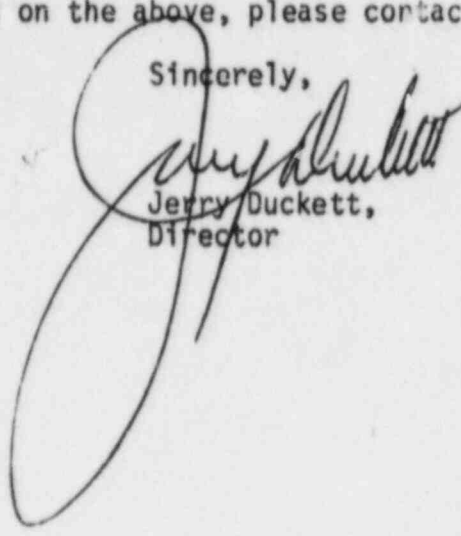
Energy Consultants has agreed to provide a revised 5-copy message form for future use in Lehigh County, and additional plan copies for the exercise

Roberta A. Kankus
June 26, 1984
Page 2

We appreciate your consideration, and assistance in this matter. Given the short time frame involved, we realize much of this equipment cannot be purchased and be operational before the July exercise. It is also our understanding that should the exercise highlight any additional areas of response that may be weak due to resource limitations, Philadelphia Electric would be willing to discuss providing further assistance to the County in this regard. While we do not anticipate this to be the case, it is reassuring to have this commitment of support.

Should you have any questions on the above, please contact me.

Sincerely,



Jerry Duckett,
Director

Enc.

COST AND EQUIPMENT REQUIREMENTS

PREPARED FOR: Lehigh County
Brian McKittrick

[illegible]

CUSTOMER COPY

PECO COPY

RADIOLOGICAL EMERGENCY RESPONSE PLAN
FOR INCIDENTS AT THE
LIMERICK GENERATING STATION

Montgomery County Geriatric and Rehabilitation Center
1600 Black Roack Road
Royersford, PA 19468

June 1984

Copy Number _____

Draft 3

RECORD OF CHANGES

[illegible]

RADIOLOGICAL EMERGENCY RESPONSE PLAN
MONTGOMERY COUNTY GERIATRIC AND REHABILITATION CENTER

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RADIOLOGICAL EMERGENCY RESPONSE PLAN

MONTGOMERY COUNTY GERIATRIC AND REHABILITATION CENTER

I. INTRODUCTION

A. Purpose

The following Radiological Emergency Response Plan (RERP) is designed to prepare Montgomery County Geriatric and Rehabilitation Center personnel to respond appropriately to emergencies or potential emergency situations in the event of an incident at the Limerick Generating Station.

The objective of this plan is to identify each necessary function, determine who will be responsible for it, assign authority within that function, and illustrate how that function will relate to others.

This Radiological Emergency Response Plan is a working document, action-oriented and designed as a guide for the time of stress. It is intended to be flexible and quickly adaptable to produce a safe environment for both patients and staff.

This document is intended to conform to all appropriate federal, state, county and municipal statutes and accrediting/licensing agency regulations for the safety and care of residents and employees during a radiological emergency.

Orientation of new personnel should include issuance of appropriate sections of this plan and instruction in the duties assigned therein.

B. Authority

The authority for the preparation of this plan is provided by P. L. 1332, the Pennsylvania Emergency Management Services Act of 1978.

C. References

- Public Law 1332, "The Pennsylvania Emergency Management Services Act of 1978."
- Commonwealth of Pennsylvania Disaster Operations Plan, Annex E - Fixed Nuclear Facility Incidents.
- Pennsylvania Department of Health Disaster Preparedness and Recovery Plan.
- Joint Commission on Accreditation of Hospitals, "Accreditation Manual for Long Term Care Facilities," 1980.

- United States Nuclear Regulatory Commission and 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, November 1980.
- Montgomery County Radiological Emergency Response Plan, Annex G; Health and Medical Services.

D. Definitions

The following definitions refer to terms mentioned within the text of this plan or commonly used in reference to long-term care/nursing facilities.

1. Command Post - A specific location within the nursing home complex designated for use by the Emergency Management Team to direct operations in the event of an emergency condition.
2. Dosimeter - Device for measuring and recording exposure to radioactive emanations.
3. Emergency Broadcast System (EBS) Announcements - Official announcements made at the county level for the specific purpose of providing instructions or directions from the County Commissioners, or their designated official representative, to the residents of the county. Announcements are made over the legally designated alerting and warning (EBS) network.
4. Emergency Management - The judicious 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 from enemy attack, man-made or natural sources.
5. Emergency Planning Zone (EPZ) - A generic area defined about a nuclear facility to facilitate offsite emergency planning and develop a significant response base. It is defined for the plume and ingestion exposure pathways.
6. Fixed Nuclear Facility Incident (hereinafter called an "incident") - An incident is an event or condition at a fixed nuclear facility which could result in a negative impact on public health and safety. Four incident classifications have been identified; from the least serious to the most serious they are: Unusual Event, Alert, Site Emergency and General Emergency. (Note: Site or General Emergency classifications are not to be confused with a "Declaration of Disaster Emergency" made by the Governor.) Descriptions of the four incident classifications are as follows:
 - a. 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.

- b. 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 EPA Protective Action Guideline exposure levels.
 - c. Site Emergency - Events are in process or have occurred which involve 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.
 - d. General Emergency - Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.
- 7. Host Facility - A nursing home or other facility located outside the Plume Exposure Pathway EPZ with which a formal written agreement has been made for the reception of evacuated residents.
 - 8. Plume Exposure Pathway EPZ - The area surrounding a fixed nuclear facility which potentially is subject to radiation exposure as a result of an incident involving radioactive material emanating 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 for the Limerick Generating Station was 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.)
 - 9. Protective Action Guide (PAG) - Projected dose of radiation to individuals in the general population which warrants protective action.
 - 10. Protective Actions - An action taken to avoid or reduce a projected dose of radiation. (Sometimes referred to as protective measures.)
 - 11. Public Information Statements - Public announcements made by Pennsylvania Emergency Management Agency or county official spokespersons via newspaper, radio or television to explain government actions being taken to protect the public in event of

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, and not to provide detailed information about it.

12. Radiological Emergency Response Plans (RERP) - Detailed incident response plans developed by the State and its agencies, county and municipal emergency management agencies and special facilities in coordination with the Pennsylvania Emergency Management Agency and the fixed nuclear facility.
13. Radioprotective Drugs - A medication (generally Potassium Iodide) which blocks the absorption of radioactive Iodine-131 by the thyroid gland, which will be issued to individuals required to stay within the Plume Exposure Pathway EPZ.
14. Sheltering - Action by the public to take advantage of the protection against radiation exposure afforded by remaining indoors, away from doors and windows, during and following the passage of a radioactive plume.
15. State of Disaster Emergency - A state of disaster emergency exists whenever the Governor issues a declaration of disaster emergency. A disaster emergency shall 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, but no state of disaster emergency may continue for longer than 90 days unless renewed by the Governor. The term, state of disaster emergency, is not to be confused with the incident classification terms called Site Emergency and General Emergency.
16. Transportation Resources - Modes of transportation for evacuation of nursing home patients; generally includes ambulances, buses and trucks.
17. Unmet Needs - Capabilities and/or resources required to support emergency operations but neither available nor provided for at the respective levels of emergency response.

E. Responsibilities

1. Emergency Management Team

The implementation of this radiological emergency response plan is the responsibility of the Emergency Management Team. This team is comprised of the following individuals, with their stated responsibilities:

- a. Administrator - The overall authority for the implementation and direction of this Radiological Emergency Response Plan rests with the administrator or his designated alternate. Specific responsibilities include:
- (1) Coordinate the emergency management response to all radiological emergency conditions.
 - (2) Set up the Command Post in the Security Office.
 - (3) Establish and maintain communications with the Montgomery County Office of Emergency Preparedness and provide for internal facility communications via telephone intercom, paging or messenger.
 - (4) Coordinate staff scheduling with the Emergency Management Team to ensure adequate 24-hour staffing for emergency conditions.
 - (5) Coordinate the facility's emergency management response with the medical coordinator of the Montgomery County Office of Emergency Preparedness, designated host facilities and outside agencies.
 - (6) Respond to all internal requests for personnel and equipment support.
 - (7) Receive and maintain current patient census/transportation requirements and staffing needs, reporting unmet needs to the Montgomery County Office of Emergency Preparedness.
 - (8) Terminate the emergency condition and deactivate the emergency response plan when conditions stabilize, allowing a return to normal operations.
 - (9) Document the emergency management effort when normal operations are restored (it is advisable to maintain a date-time log of events during the emergency conditions).
- b. Director of Nursing - The Director of Nursing is responsible for the detailed implementation of this plan, including the assignment of all nursing service personnel and any volunteers needed to supplement staffing requirements. In the absence of the administrator, or his designate, the Director of Nursing shall assume total control of the emergency response. In addition, the Director of Nursing is responsible for overseeing the preparation of patient census reports, the classification of patients for transport, and the coordination of the efforts of the patient care, clinical care and support departments.

- c. Supervising Nurse on Duty - The Supervising Nurse on duty is responsible for carrying out responsibilities assigned by the Director of Nursing. In the absence of the Director of Nursing, the Supervising Nurse shall be responsible for the assignment of all nursing service personnel. In the absence of the Administrator and the Director of Nursing, the Supervising Nurse shall assume control of the initial emergency response.
- d. Medical Director - The primary responsibility of the Medical Director is to ensure adequate medical care for Montgomery County Geriatric and Rehabilitation Center patients. The Medical Director shall prescribe appropriate precautionary measures so as to alleviate suffering and loss of life. The Medical Director shall also review and identify patients eligible for discharge during census reduction efforts.
- e. Security Director - The Security Director is responsible for controlling access to the nursing home complex and for controlling internal and external traffic flow.
- f. Director of Plant Operations - The Director of Plant Operations is responsible for maintaining all electrical and mechanical functions necessary to ensure a safe building environment. The Director of Plant Operations shall assign appropriate personnel to answer emergency calls for service from all areas of the facility.

2. Other Agencies

There are a number of external agencies with specific responsibilities in the event of an incident at the Limerick Generating Station. These include:

a. Montgomery County Office of Emergency Preparedness.

Those responsibilities of the Montgomery County Office of Emergency Preparedness which are specifically related to this Radiological Emergency Response Plan include:

- (1) Implementation of protective action recommendations.
- (2) Coordination of emergency medical services to include maintenance of routine coverage. In the event of an evacuation, provision of assistance to homebound invalids, hospitals and nursing homes.
- (3) Personnel decontamination monitoring for the general population and decontamination of individuals as necessary.
- (4) Provision for medical support to mass care centers.

- (5) Provision for the health protection of emergency workers by implementing plans for protective actions including protective clothing, dosimeters, radioprotective drugs, personnel decontamination monitoring, and related training.
- (6) Utilization of the Department of Health's hospital list (those capable of treating contaminated and irradiated individuals) to designate the local and backup hospitals that will support fixed nuclear facility incidents.
- (7) Identification of the hospitals, nursing homes, prisons, and other institutions located within the plume exposure pathway EPZ.

b. Pennsylvania Department of Health (PaDoH)

The Department of Health, under the direction of the Secretary of Health, has the following related responsibilities:

- (1) Development and maintenance of a comprehensive State emergency medical plan for response to radiological incidents.
- (2) Coordination with Federal health authorities, the Pennsylvania Emergency Management Agency (PEMA), the Bureau of Radiation Protection (BRP), and the Department of Agriculture to assess any radiation hazard to the public, and development of corresponding health related guidance for incident response.
- (3) Support of counties and municipalities with technical advice, identification and coordination of medical resources in the event of an incident.
- (4) In coordination with PEMA and the risk counties, development of procedures for stockpiling, distributing and administering radioprotective drugs.
- (5) Maintenance of a current inventory, with a copy to PEMA, of Statewide medical facilities with the capability of treating radiation exposure victims.
- (6) Maintenance of current site-specific lists of local and backup medical facilities having the capability of evaluating, handling and treating contaminated and irradiated individuals.
- (7) Compilation and maintenance of a current listing of Statewide ambulance resources that could be made available for use in evacuating hospitals, nursing homes and invalids living at home.

- (8) Provision of technical advice and assistance to hospitals and nursing homes within the plume exposure pathway EPZ as well as hospitals in general support and advice to them regarding their respective emergency response plans with information to the respective county EMAs, through PEMA, regarding all emergency related messages, information, and assistance between the Department and individual institutions.
- (9) Cooperation with State Hospital Associations and other medical organizations in developing plans for preventing adverse effects that may result from radiation exposure.
- (10) Development and implementation of a uniform Statewide system for recording the contamination data and treatment of radiologically exposed individuals to include:
 - (a) Location at time of incident
 - (b) Radiation exposure date
 - (c) Contamination status
 - (d) Treatment status
 - (e) Release status
- (11) In coordination with PEMA and BRP:
 - (a) Issuance of guidelines for radiation detection and measurement systems used by ambulance services and hospital emergency departments.
 - (b) Issuance of guidance concerning the levels of radiation exposure related to the health and safety of ambulance services, hospitals and other health care personnel.
 - (c) Development of emergency medical support and response training programs.
 - (d) Development of public education material to explain to the populace, the health hazards of radiation exposure, and what can be done medically to eliminate or lessen the hazards and treat individuals exposed to them.
- (12) Coordination of the medical response to incidents with any affected contiguous states.

c. Pennsylvania Emergency Management Agency (PEMA)

The Pennsylvania Emergency Management Agency has the following related responsibilities in the event of an incident at the Limerick Generating Station:

- (1) Responsibility as the lead State agency for emergency management and coordination of response activities.
- (2) In cooperation with applicable State agencies and the American Red Cross, coordination of the resource management (including delivery to central resource receiving points) of available State equipment and supplies to satisfy unmet needs of risk and support counties.
- (3) Establishment and maintenance of agreements with supporting Federal agencies, adjacent States, volunteer organizations and fixed nuclear facilities to provide for coordination and integration of emergency response planning and operations.
- (4) Operation of an annual exercise to evaluate radiological emergency response plans and capabilities.

F. Situation

An incident at the Limerick Generating Station having the potential for release of radioactive materials may require that the patients and staff of the Montgomery County Geriatric and Rehabilitation Center take some type of protective action. These actions may include:

1. Sheltering
2. Evacuation

Appropriate responses may include some combination of these protective actions. Technical assistance concerning responses to a particular incident will be made available by the Department of Health, the Bureau of Radiation Protection, and the Pennsylvania Emergency Management Agency through the Montgomery County Office of Emergency Preparedness.

II. NOTIFICATION

A. Initial Notification

Upon receiving information from the Montgomery County Office of Emergency Preparedness that a radiological emergency at the Limerick Generating Station has been classified as an Alert, Site Emergency or General Emergency, the telephone/paging operator shall immediately notify the highest ranking staff person available within the facility, who will immediately notify the Administrator.

A confirmatory telephone call, verifying the initial notification, should be anticipated from Upper Providence Township.

B. Implementation

The Administrator, once notified, shall implement this Radiological Emergency Response Plan, as appropriate (reference Section III - Concept of Operations)

C. Emergency Management Team (Department Heads) Notification

Upon implementation of this Radiological Emergency Response Plan, the telephone/paging operator shall immediately notify the Security Office, who shall notify the emergency management team (reference Attachment A). The highest ranking staff person on duty shall assume the role of directing the radiological emergency response until such time as a higher ranking individual arrives on scene.

D. On-Duty Personnel

On-duty personnel will be notified of the situation by the public address system or telephone.

On-duty personnel will remain at their assigned stations unless directed elsewhere by a member of the Emergency Management Team. Members of the Emergency Management Team should report to the Command Post in the Security Office.

E. Off-Duty Personnel

Off-duty personnel will be contacted when needed by the appropriate member of the Emergency Management Team or their department supervisor. Immediately upon notification, off-duty personnel should proceed to the Montgomery County Geriatric and Rehabilitation Center and report to their appropriate department head or, in the case of those assigned to the Emergency Management Team, to the Command Post in the Security Office.

III. CONCEPT OF OPERATIONS

Specific emergency management responses are dependent upon the "Incident Classification" declared at the Limerick Generating Station. Notification of the incident classification, and of any changes in that classification, will be received from the Montgomery County Office of Emergency Preparedness.

Please note that procedures for all classifications are cumulative; that is, procedures for each incident classification include those procedures established for all lower classifications.

A. UNUSUAL EVENT

No formal notification will be received from the Montgomery County Office of Emergency Preparedness at this classification. No action is required.

B. ALERT

1. Assemble Emergency Management Team (Team notification should be made by the security office).
2. Establish Command Post in the Security Office.
3. Perform an immediate update of patient census (reference Attachment C, Tab 1), classifying patients according to the following transportation status:
 - a. Ambulance (litter patients)
 - b. Reclining seat bus
 - c. School Bus
 - d. Truck*
4. Code resident charts in accordance with transport status, coding as follows:
 - a. A - ambulance
 - b. R - Reclining seat bus
 - c. S - School bus
 - d. T - truck*
5. Notify designated host facilities (reference Attachment B, Tab 1) of incident, requesting bed availability and reservation of available beds for patient evacuees.
6. Determine on-duty staff census.
7. Determine emergency staff needs for (a) shelter and (b) evacuation.

* Limited to patients unable to be made litter-ready, and/or requiring bulky support equipment, or when other forms of transportation are not feasible.

8. Inventory and replenish housekeeping supplies, medications, IV fluids and oxygen supplies for a minimum five (5) day period.
9. Check Montgomery County Geriatric and Rehabilitation Center vehicles (buses, vans, trucks, etc.) for fuel and operability.
10. Provide an immediate report of the following (reference Attachment C, Tab I) to the Montgomery County Medical Coordinator at _____:
 - a. Patient census and transportation requirements.
 - b. Host facility bed availability.
 - c. On-duty staff census.
 - d. All unmet needs.
11. Test emergency generator.
12. Stock kitchen with a 5-day supply of canned foods, fruits and juices, disposable plates, cups and utensils.
13. Identify patients whose medical status would permit temporary discharge to family custody (excluding those requiring ambulance transportation).
14. Inventory and prepare dosimeters and radioprotective drugs (KI).

C. SITE EMERGENCY

1. Prerequisite - Perform all appropriate actions outlined under ALERT.
2. Terminate visiting hours for the duration of the emergency.
3. Recall off-duty personnel as required.
4. Prepare abbreviated patient transfer forms providing personal data, diagnosis, medications, etc.
5. Place identification bracelets, or identification/disaster tags on all patients.
6. Time permitting, contact families of patients identified as being appropriate for discharge, and discharge patients to family care wherever possible.
7. Consolidate nursing units to reduce staffing requirements, as able.
8. Ensure that medication carts contain a minimum five-day requirement of patients' medication.

9. Assemble all required special care patient transportation needs (e.g., portable oxygen apparatus, patient restraints, etc.) at the appropriate nursing stations.
10. Contact host facilities (reference Attachment B, Tab I) confirming bed availability and reserving available beds for patient evacuees. Request additional beds through the Montgomery County Medical Coordinator at _____, if required.
11. Confirm transportation resources through Montgomery County Medical Coordinator at _____ and assure that transportation providers have been readied for dispatch.
12. Instruct staff in the procedures for distribution and use of radiation dosimeters and administration of radioprotective drugs (sufficient quantities of dosimeters and radioprotective drugs will be maintained on hand in the nursing home, dosimeters will be provided for 50% of total staff (emergency staffing levels) and potassium iodide will be provided for 50% of staff and 100% of patients).
13. Time permitting, notify patient's families of the possibility of an evacuation and provide the name and location of the appropriate host facility.

D. GENERAL EMERGENCY

1. Prerequisite - Perform all appropriate actions outlined under ALERT and SITE EMERGENCY.
2. Await Protective Action Guidelines from the Montgomery County Office of Emergency Preparedness. Such guidelines should consist of either:
 - a. Sheltering (reference Section IV), or
 - b. Evacuation, if evacuation can be safely completed prior to the release of significant radiation to the Plume Exposure Pathway EPZ (reference Section V.)

IV. SHELTERING PROCEDURES

- A. Remain indoors with all doors and windows closed.
- B. Engineering should adjust heating/ventilation/air conditioning systems, where possible, to minimize the intake of outside air (NOTE: HVAC systems should not be shut down unless specifically directed to do so by the Montgomery County Medical Coordinator.
- C. Distribute dosimeters to designated emergency staff.

- D. Upon the direction of the Secretary of Health, distribute radioprotective drugs and instruct staff to administer them to themselves and patients (if so ordered by the attending physician) in accordance with the instructions received with said drugs.

V. EVACUATION PROCEDURES

A. Authority

The Governor has the sole authority and responsibility for directing and compelling an evacuation. The Governor or the highest ranking elected county or municipal official in authority may recommend an evacuation for their respective jurisdictions. Evacuation of the Montgomery County Geriatric and Rehabilitation Center may be ordered by the Administrator.

B. Required Coordination

Any evacuation outside the Montgomery County Geriatric and Rehabilitation Center complex must be coordinated with the Montgomery County Office of Emergency Preparedness and the Emergency Response Team of the Pennsylvania Department of Health, through the Montgomery County Medical Coordinator at _____.

C. General Procedures

1. Notify host facilities (reference Attachment B, Tab 1) of the evacuation, commissioning available beds for patient evacuees and determining arrangements for accommodating transfer of staff, reporting any unmet needs to the Montgomery County Medical Coordinator at _____.
2. Confirm the dispatch of required transport vehicles from the Montgomery County Medical Coordinator at _____.
3. Prepare a roster of patients, their destinations and mode of transportation. Prepare copies of the roster for host facilities and the Montgomery County Medical Coordinator.
4. As evacuation vehicles arrive, assemble patients, together with patient charts, medication carts, transfer forms and other necessary medical support equipment at departure areas according to assigned transport status.

Departure areas will be designated at the time by the Administrator.

5. Assign Security Department staff to provide external traffic direction for departure areas.
6. Assign nursing staff to multiple-patient transport vehicles as available.

7. Distribute evacuation route maps (reference Attachment B, Tab II) to drivers unfamiliar with the route of travel or final destination.
8. Assist patients into appropriate transportation vehicles.
9. Dispatch selected staff to establish a temporary administrative headquarters at one of the host facilities.
10. Secure the facility via the shutdown of non-essential mechanical, electrical and physical plant systems with the exception of safety systems such as sprinkler and alarm systems, or heat in cold weather.
11. Secure records by locking all file cabinets and/or fire files, locking important records in fire files.
12. Secure patients' personal valuables and lock the safe depositing an inventory list in a separate locked file.
13. Secure drugs/medications not being transported by locking all medication cabinets.
14. Notify the Montgomery County Medical Coordinator at _____ of the host facility selected as the temporary administrative headquarters, indicating that evacuation is complete and depart with the facility locked and secured.

VI. DE-ESCALATION OF INCIDENT

Upon notification from the Montgomery County Office of Emergency Preparedness that the Incident Classification for the Limerick Generating Station has been de-escalated, the Administrator should oversee the orderly return of the facility to the level of preparation indicated by the new Incident Classification. The specific steps to be taken and the sequence in which they are taken shall be determined by the Administrator, based on the concept of operations included in this plan.

VII. REENTRY

Safety inspection of the physical plant and surrounding areas shall be performed by the Administrator and the Director of Plant Operations. Upon the determination that reoccupation of the Montgomery County Geriatric Rehabilitation Center complex is considered safe, the emergency management team shall ensure that the facility is fully prepared to resume normal operations prior to reoccupation. When the facility is fully prepared, the Command Post will be re-established in the Security Office and the Administrator will coordinate transportation and reoccupation through the Montgomery County Office of Emergency Preparedness.

VIII. PLAN MAINTENANCE AND DISTRIBUTION

A. Maintenance

1. The Administrator is responsible for ensuring the currency of the Montgomery County Geriatric and Rehabilitation Center RERP including the development and distribution of all changes, as well as accomplishing an annual review.
2. All changes to the Montgomery County Geriatric and Rehabilitation Center RERP shall be coordinated through the Montgomery County Office of Emergency Preparedness.
3. The current date shall be placed on any page that is changed.

B. Distribution

1. Montgomery County EOC (copies to accommodate distribution to PEMA and Philadelphia Electric Company).

Copy Numbers 1-4

4 copies

2. Upper Providence Township Emergency Management Coordinator

Copy Number 5

1 copy

3. Montgomery County Geriatric and Rehabilitation Center Staff

Copy Numbers 6-

ATTACHMENT A
NOTIFICATION ROSTER

I. Emergency Management Team

	<u>Ext.</u>	<u>Home Tel.</u>
ADMINISTRATOR - Gus Arapolu, N.H.A.....	256	[REDACTED]
ASSISTANT ADMINISTRATOR - Jean L. John.....	240	[REDACTED]
ASSISTANT ADMINISTRATOR - Sandra Swoyer.....	221	[REDACTED]
DIRECTOR OF NURSES - Lee A. Ciarletta, R.N.....	272	[REDACTED]
ASSISTANT DIRECTOR OF NURSES - Shirley P. Kemp.	265	[REDACTED]
DIRECTOR OF PLANT OPERATIONS - George Pesta....	276	[REDACTED]
MAINTENANCE RESIDENT - Larry McConnel.....	252	[REDACTED]
SECURITY - Harry Bullick.....	230	[REDACTED]
MEDICAL DIRECTOR - John J. Maron M.D.....	--	[REDACTED]

ATTACHMENT B
EVACUATION SUPPORT

Tab I: Host Facilities
Tab II: Evacuation Route Maps
Tab III: Letters of Agreement

TAB I to ATTACHMENT 3

HOST FACILITIES

*Facility: Neshaminy Manor¹
Rte. 611
Doylestown, PA 18901

Telephone: (215) 343-2800

Contact Person: Mrs. Harriet Armstrong - Hinkle or Mr. J. C. Bailey

*Facility: Cedarbrook (Lehigh County Home)¹
350 S. Cedarbrook Road
Allentown, PA 18104
and
Cedarbrook Fountain Hill Annex
724 Delaware Avenue
Bethlehem, PA 18015

Telephone: (215) 395-3727

Contact Person: Richard Lane

*Facility: Philadelphia State Hospital²
1400 Roosevelt Blvd.
Philadelphia, PA 19114

Telephone: (215) 671-4000

Contact Person: Dr. Richard Schultz

* Should pre-arranged host facilities be unable to provide full evacuation support, the Montgomery County Medical Coordinator will assist in the identification of alternate host facilities.

¹ Priority given to skilled nursing patients.

² ICF patients only.

TAB II to ATTACHMENT B

EVACUATION ROUTE MAPS

The Montgomery County Geriatric and Rehabilitation Center will utilize the following evacuation routes to relocate to its designated host facilities. Maps depicting these routes are currently under development:

1. Neshaminy Manor:

Black Rock Rd. to Rt. 29 N
29 N to Expressway Extension
Expressway to Turnpike East to Exit 27
Rt. 611 North to Neshaminy Manor

2. Cedarbrook:

Black Rock Rd. to Rt. 29 N
29 N to Expressway Extension
Expressway to Turnpike East
Turnpike East to Turnpike N.E. Extension North
N.E. Extension N. to Exit 33 (Rt. 22)
Rt. 22 East to Rt. 3095
Rt. 309 S. To Cedarbrook

3. Philadelphia State Hospital

Black Rock Rd. to Rt. 29 N
29 N to Expressway Extension
Expressway Extension to Turnpike East
Turnpike East to Exit 28
Rt. 1 South to Philadelphia State Hospital

TAB III to ATTACHMENT B

LETTERS OF AGREEMENT



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF PUBLIC WELFARE

PHILADELPHIA STATE HOSPITAL
14000 Roosevelt Boulevard
Philadelphia, Pennsylvania 19114

TELEPHONE:
AREA CODE 215, 671-4140

September 7, 1983

Samuel L. Ely, III, Director
Montgomery County Office of Emergency Preparedness
100 Wilson Boulevard
Eagleville, Pa. 19408

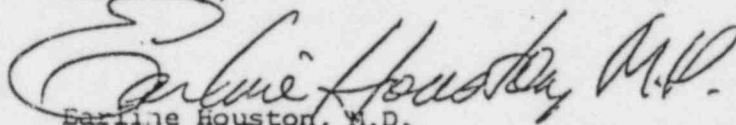
Dear Mr. Ely:

This letter will serve to confirm the willingness of Philadelphia State Hospital to accept intermediate care nursing patient evacuees, to the maximum extent possible, from the Montgomery County Geriatric and Rehabilitation Center, in the event of a radiological emergency at the Limerick Generating Station.

It is our understanding that we will be contacted directly in the early stages of any emergency by the Geriatric Center. Any arrangements regarding the number of evacuees, the transfer of staff, etc., will be addressed at that time. The contact person at this facility is the Nursing Supervisor who can be reached at (215) 671-4195, day or night, including weekends.

It is a pleasure to have been of service to you.

Sincerely,


Earline Houston, M.D.
Super ntendent

EH/RES/cs

cc Management Team
Administrative Services Department Heads

Cedarbrook
County of Lehigh

350 S. CEDARBROOK ROAD
P. O. Box 508
ALLENTOWN, PA. 18105

May 18, 1983

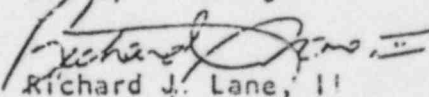
Mr. Tom Nervine, Admin. Asst.
Civil Defense
Lehigh County Court House
455 Hamilton Street
Allentown, PA 18105

Dear Tom:

As a follow up to our phone discussion today, this to confirm that Cedarbrook could temporarily accept 75 to 100 long term care patients from Montgomery County Home in event of a serious incident at the Limerick Power Plant, Montgomery County. I would anticipate that we could provide certain minimum but adequate medical care for such individuals for up to 48 hour period at our facility with the assistance of Montgomery County home staff. This would give sufficient time to make arrangements with other nursing homes and hospitals in the area to care for such patients during an extended period of emergency.

Sincerely,

CEDARBROOK
County of Lehigh



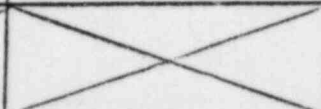


Richard J. Lane, II
Administrator

RJL:sms

ATTACHMENT C
COUNTY REPORTING INFORMATION

Date: _____
Time: _____

Part I: Census and Transportation Requirements*

Census		Transportation Classification		
	Total	Ambulance	Bus/Van	Truck
Residents				
On-Duty Staff				

Part II: Host Arrangements

Host Facility	Available Buses
Neshaminy Manor	
Cedarbrook	
Phila. State Hospital	
Total:	

Part III: Unmet Needs

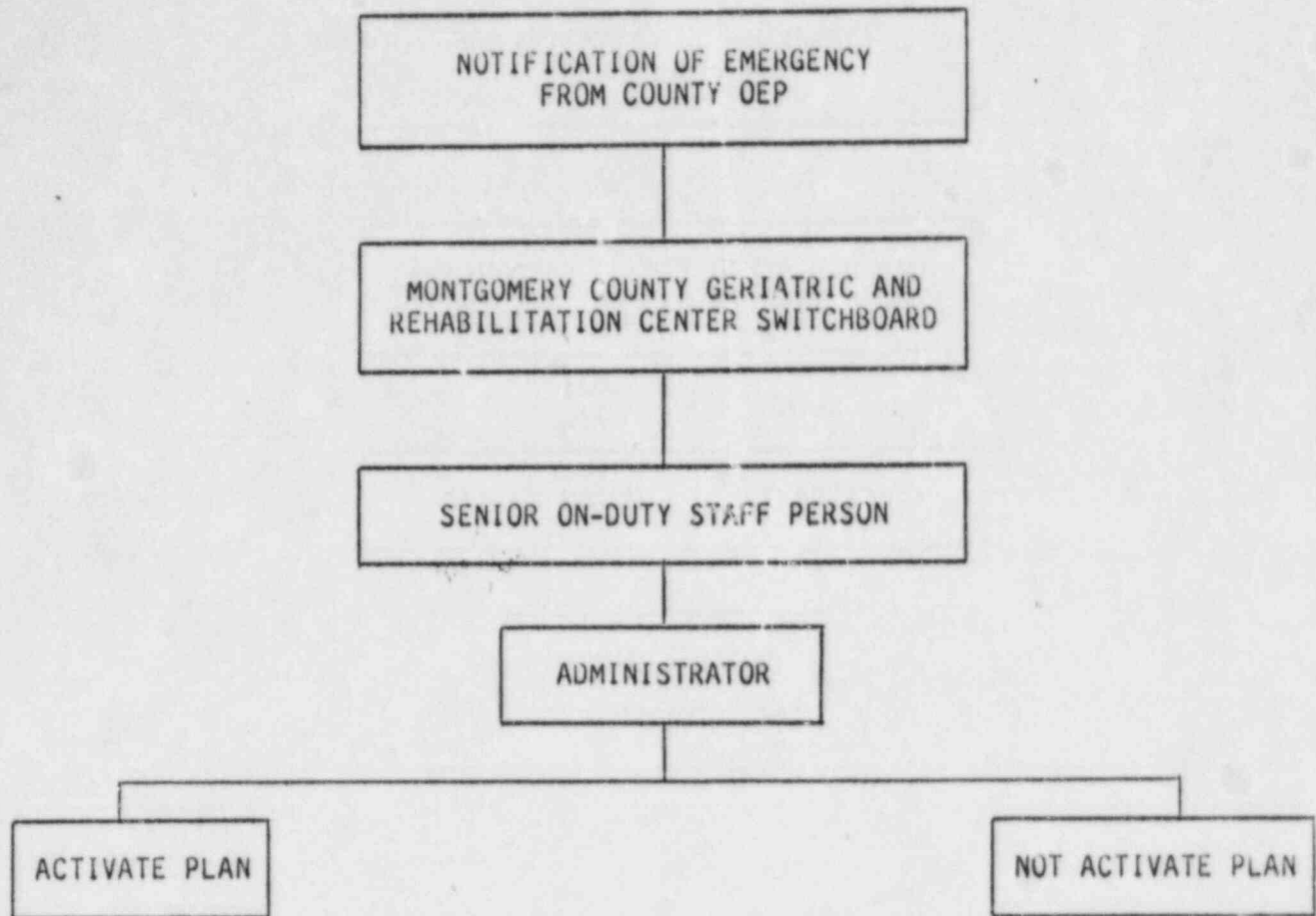
* Provide updated transportation and census data to the county every 24 hours.

ATTACHMENT D

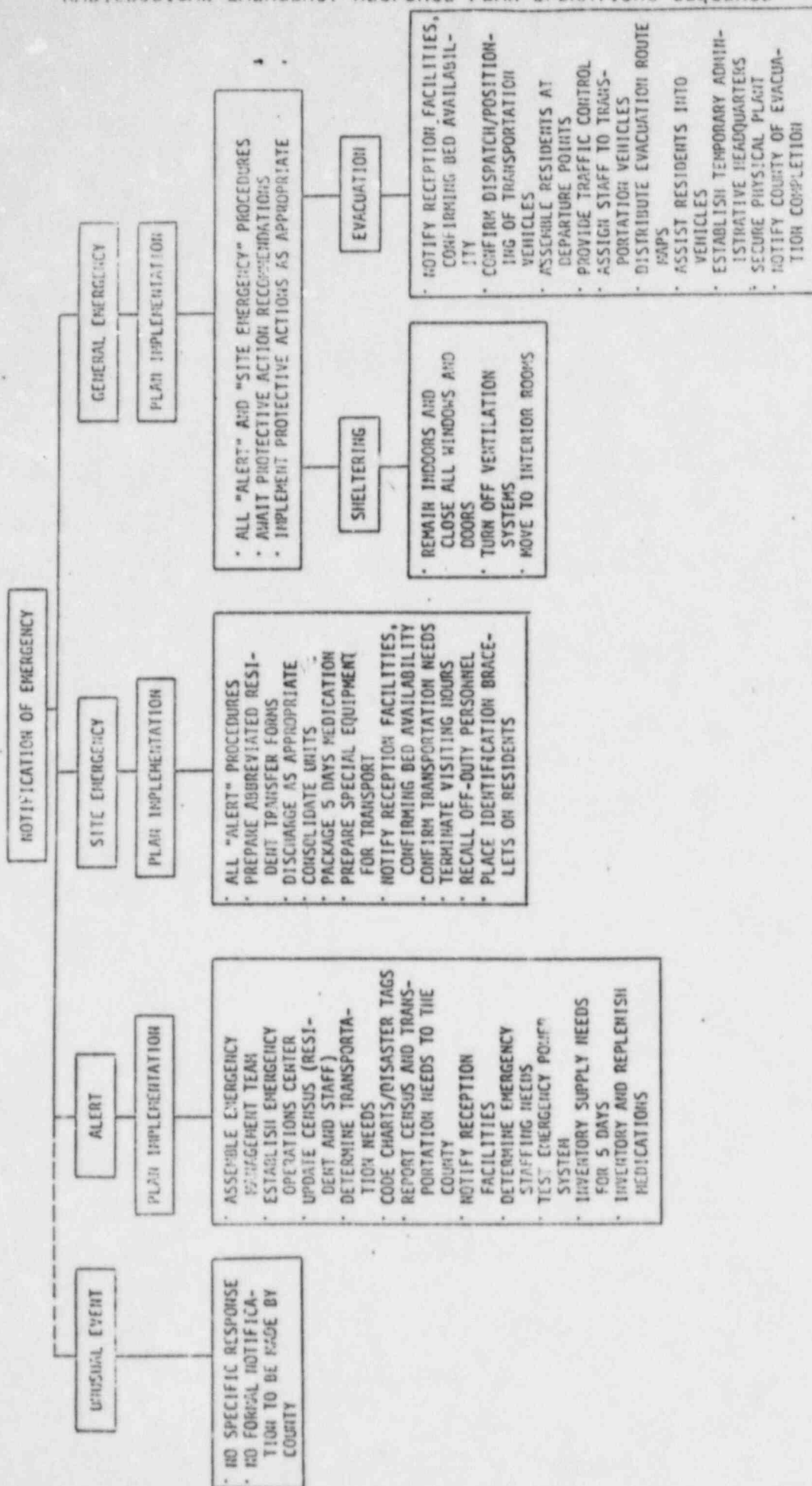
Tab I: Plan Activation Sequence

Tab II: Operations Sequence

TAB I to ATTACHMENT D
RADIOLOGICAL EMERGENCY RESPONSE PLAN
ACTIVATION SEQUENCE



RADIOLOGICAL EMERGENCY RESPONSE PLAN OPERATIONS SEQUENCE



EVACUATION VEHICLE ESTIMATES

It is estimated that, on average, the following number and type of vehicles will be necessary to totally evacuate the Montgomery County Geriatric and Rehabilitation Center. The actual number and type of vehicles will be determined at the time of an actual incident.

6 Ambulances*
10 School Buses**
5 Reclining Seat Buses**

*Assuming 2 persons/ambulance
**Assuming 40 persons/bus