

903

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

RELATED CORRESPONDENCE  
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'84 SEP 17 P3:22

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AND GENERAL COUNSEL

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ASSISTANT GENERAL COUNSEL

EDWARD J. CULLEN, JR.

THOMAS H. MILLER, JR.

IRENE A. MCKENNA  
ASSISTANT COUNSEL

September 14, 1984

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

Re: Limerick Generating Station, Units 1 & 2  
Docket Nos. 50-352 and 50-353 01

Dear Ms. Mulligan:

In accordance with the Board's Order of June 1, 1982, I am enclosing copies of correspondence and documents regarding emergency planning among Applicant, NRC Staff, the Commonwealth of Pennsylvania and other responsible governmental agencies.

Very truly yours,



Edward J. Cullen, Jr.

EJC, JR:pkc

Enclosures

8409250255 840914  
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)
Judge Christine N. Kohl	(w/o enclosure)
Judge Gary J. Edles	(w/o enclosure)
Judge Reginald L. Gotchy	(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/ 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, Inc.

## MEMORANDUM

To: Administrators  
Private Schools Located in the EPZ of the Limerick Generating Station

From: John H. Cunningham *JHC*  
Associate Senior Planner

Date: August 2, 1984

Subject: Radiological Emergency Response Plan (RERP) Review

The information attached to your draft School Radiological Emergency Response Plan (RERP) for Incidents at the Limerick Generating Station should be reviewed and updated each school year to ensure the information is current.

In order to complete a review and update, I would request that you review the attachments of your current Draft RERP, update the information for school year 1984-85, and hold the revised copies for my pick-up in September. This revised information will then be included in subsequent drafts of the RERP.

As you review the Attachments, please include work and home addresses and telephone numbers for staff indicated. The County Emergency Management Agency will need this information as they complete their County RERP. This information will be maintained as confidential.

I will call you early in September after the school year begins, to schedule a review meeting. At this meeting, we can review any additional revisions that you desire to the RERP procedures. During August and early September, County EMA and Energy Consultants are meeting with school districts to review district RERP's. By the middle of September, we should have the district information necessary to complete your draft RERP.

I appreciate your cooperation. If you have any questions, do not hesitate to call.

JHC/dlt

Dear Mr. Cunningham,

Please be advised that as of June 1984 the Greater Pottstown Christian School has closed and is not planning on re-opening. Thank you though for your time spent with us. The closing of our school was unforeseen earlier in the 83-84 school year.

Yours truly,  
Candy Butler



# ENERGY CONSULTANTS

Riverside Office Center 3 • 2101 N. Front St. • Harrisburg, PA 17110  
(717) 236-0031

September 4, 1984

Mr. Wilmer Borneman  
Radio Station WBYO  
Box 177  
Boyertown, PA 19512

Dear Mr. Borneman:

Thank you for speaking with me regarding the Berks County Emergency Broadcast System.

I appreciate the opportunity to meet with you Thursday, September 6, 1984.

Looking forward to meeting with you Thursday at 10:00 a.m.

Sincerely,

*Henry C. Tamanini*  
Henry C. Tamanini

HCT:jr  
cc. Berks County



# ENERGY CONSULTANTS

Riverside Office Center 3 • 2101 N. Front St. • Harrisburg, PA 17110  
(717) 236-0031

September 4, 1984

Mr. David Franco  
Radio Station WRFY-WRAW  
1265 Ferkiomen Avenue  
Reading, PA 19602

Dear Mr. Franco:

Thank you for speaking with me about the Emergency Broadcast System for Berks County.

I am looking forward to meeting with you Wednesday, September 5, 1984, at 1:00 p.m.

Thank you for your time.

Sincerely,

*Henry C. Tamanini*  
Henry C. Tamanini

HCT:jr  
cc. Berks County



# ENERGY CONSULTANTS

Riverside Office Center 3 • 2101 N. Front St. • Harrisburg, PA 17110  
(717) 236-0031

September 4, 1984

Mr. Richard Schilpp  
Radio Station WEEU  
34 North Fourth Street  
Reading, PA 19601

Dear Mr. Schilpp:

Thank you for speaking with me about the Emergency Broadcast System for Berks County.

I appreciate your making time in your busy schedule to meet with me Wednesday, September 5, 1984, at 10:00 a.m.

Sincerely,

*Henry C. Tamanini*  
Henry C. Tamanini

HCT:jr  
cc. Berks County



# ENERGY CONSULTANTS

Riverside Office Center 3 • 2101 N. Front St. • Harrisburg, PA 17110  
(717) 236-0031

August 31, 1984

Mr. Michael Tullock  
I. H. Systems  
Post Office Box 858  
Roswell, GA 30077

Dear Mr. Tullock:

Thank you for speaking with me today regarding the RECALL systems for Limerick.

Per our discussion, I understand that the cabinetry and "final" software is scheduled for delivery on or about September 14, 1984.

If you have any problems meeting the schedule, please contact me.

Sincerely,

Henry C. Tamanini

HCT:jr

cc. Berks County EMA (R. Reber)  
Chester County DES (T. Campbell)  
Montgomery County OEP (L. Bigelow)



# ENERGY CONSULTANTS

Riverside Office Center 3 • 2101 N. Front St. • Harrisburg, PA 17110  
(717) 236-0031

August 31, 1984

Father Robert Riedy  
Saint Joseph Church - Rectory  
278 Schuylkill Road  
Spring City, PA 19475

Dear Father:

Thank you so much for taking the time to meet regarding the Saint Joseph Kindergarten radiological emergency response plan for incidents at the Limerick Generating Station.

As discussed, I will utilize the information from our meeting and incorporate the material in the new document for your review.

Again, thank you for your time and consideration.

Sincerely,

*Henry C. Tamanini*  
Henry C. Tamanini

HCT:jr  
cc. Chester DES





# ENERGY CONSULTANTS

Riverside Office Center 3 • 2101 N. Front St. • Harrisburg, PA 17110  
(717) 236-0031

August 31, 1984

Dr. Robert Murray  
Superintendent  
Phoenixville Area School District  
1120 Gay Street  
Phoenixville, PA 19460

Dear Dr. Murray:

This letter shall serve as a confirmation of my recent telephone conversation with Mr. John Leahy of your office (August 29, 1984).

Per the conversation, I have arranged a one-hour presentation for the School Board on September 13, 1984 at 8:00 p.m.

Additionally, I wish to thank you for your assistance in scheduling the August 28, 1984 meeting and acknowledge the meeting scheduled for September 25, 1984, at 10:00 a.m.

If you have any questions or comments, please contact me.

Sincerely,

*Henry C. Tamanini*  
Henry C. Tamanini

HCT:jr

cc. Mr. Leahy, Phoenixville School District  
Chester County DES



# ENERGY CONSULTANTS

Riverside Office Center 3 • 2101 N. Front St. • Harrisburg, PA 17110  
(717) 236-0031

August 31, 1984

Mrs. Suzanne Davidson  
Bright Spot Kindergarten  
Post Office Box 802  
Collegeville, PA 19426

Dear Mrs. Davidson:

Thank you for meeting with me August 29, 1984, to discuss the radiological emergency response plan for the Bright Spot Kindergarten.

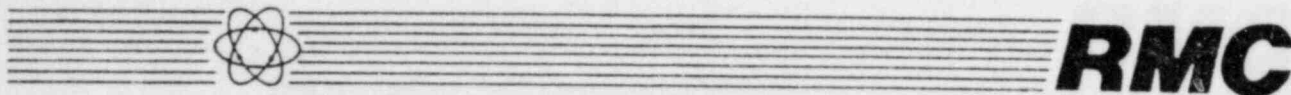
As discussed, I will use the information gained from our meeting to develop a new document for your review. I will also contact you with regard to a training program.

Thank you for your assistance.

Sincerely,

*Henry C. Tamanini*  
Henry C. Tamanini

HCT:jr  
cc. Montgomery County OEP



Radiation Management Corporation, 3508-Market St., Philadelphia, PA 19104 (215) 243-2950

August 20, 1984

Ms. Mary Ann McCall  
Emergency Department  
Pottstown Memorial Medical Center  
1600 East High Street  
Pottstown, PA 19464

RECEIVED  
AUG 21 1984  
R. A. KANKUS

Dear Ms. McCall:

Enclosed please find the reports of the observations made by RMC umpires during the annual radiation emergency medical exercise conducted at Pottstown Memorial Medical Center on July 25, 1984.

We will shortly be sending you an edited copy of the video tape made during the exercise.

Please express our appreciation to your staff for the cooperation extended to Radiation Management Corporation personnel.

Sincerely,

*Thomas Linnemann /lmc*

Thomas Linnemann  
General Manager  
RMC Medical Services

TL;lmc

Enclosure

cc: Vicki Warren  
William F. Hushion, M.D.  
Walter J. Knapp, Jr.  
Roberta A. Kankus  
Graham Leitch  
Linda Hohl  
Albert Pollick  
Monica Phillips, R.N.  
Patricia Funk  
Arthur F. Mann, M.D.  
Charles W. Delp, Jr., M.d.

Radiation Emergency Medical Drill Report

POTTSTOWN MEMORIAL MEDICAL CENTER/LIMERICK GENERATING STATION

July 25, 1984

PURPOSE:

To simulate a radiation medical emergency for the purpose of exercising the emergency medical response at Limerick Generating Station and Pottstown Memorial Medical Center. The basic objective was to assess the ability of the hospital staff to respond effectively to a radiation medical emergency and test their capability to handle injured and contaminated patients.

SCENARIO:

An assistant plant operator who was dispatched for routine inspection in the radwaste enclosure is found unconscious lying in a puddle that appears to be leakage from the fuel pool holding pump (OOP340). He sustained a head laceration and was transported to Pottstown Memorial Medical Center for treatment and decontamination.

HOSPITAL CRITIQUE

<u>PREPARATION OF REA</u>	<u>SATISFACTORY</u>	<u>UNSATISFACTORY</u>	<u>COMMENTS</u>
			See 1
1. Notification of appropriate personnel	x		
2. Personnel familiar with procedures	x		
3. Removal of unnecessary equipment	x		
4. Placement of Herculite	x		
5. Set-up of decon table top	x		See 2
6. Lined waste containers	x		
7. Radiation accident poster placed in REA	x		See 3
8. Sample-taking/decon kits placed in REA			See 4
9. Placement of warning rope and signs	x		
10. Security posted	x		See 5
11. Appropriate medical supplies brought to REA	x		
12. Checked showerhead -- operable and warm water	x		
13. Control points established	x		
14. Water Container	x		

PREPARATION OF PERSONNEL

SATISFACTORY

UNSATISFACTORY

COMMENTS

- |   |           |  |       |
|---|-----------|--|-------|
| 1. Attending staff organized & responsibilities delegated | x         |  |       |
| 2. Donned protective clothing in proper sequence          | x         |  |       |
| 3. Dosimetry:   | simulated |  | See 6 |
| Self-readers:    yes/no                                   |           |  |       |
| TLD badges:     yes/no                                    |           |  |       |
| Ring TLDs:     yes/no                                     |           |  |       |
| 4. Documentation of dosimetry                             | N/A       |  |       |
| 5. Self-reading dosimeters zeroed                         | N/A       |  |       |
| 6. Adequate staffing of REA                               | x         |  |       |

PATIENT ARRIVAL

- |  |   |   |       |
|--|---|---|-------|
| 1. Ambulance used designated REA entrance                            | x |   |       |
| 2. Patient immediately transferred to REA                            | x |   |       |
| 3. Plant Health Physics technician surveyed ambulance and attendants |   | x | See 7 |

PLANT HEALTH PHYSICS TECHNICIAN

See 8

- |  |   |  |  |
|--|---|--|--|
| 1. Reported radiation status to attending staff                                | x |  |  |
| 2. Donned protective clothing  | x |  |  |
| 3. Knowledge of hospital procedures  | x |  |  |
| 4. Interface with hospital personnel   | x |  |  |
| 5. Provided guidance & direction to attending staff                            | x |  |  |
| 6. Maintained contamination control without interfering with medical treatment | x |  |  |

	<u>SATISFACTORY</u>	<u>UNSATISFACTORY</u>	<u>COMMENT:</u>
--	---------------------	-----------------------	-----------------

MEDICAL STABILIZATION

- |   |   |  |  |
|---|---|--|--|
| 1. Medical attention prior to decontamination | x |  |  |
| 2. Wound checked and redressed                | x |  |  |

GENERAL DECONTAMINATION

- |  |   |  |        |
|--|---|--|--------|
| 1. All clothing removed & placed in containers | x |  | See 9  |
| 2. All metallic articles removed & collected   | x |  |        |
| 3. Survey & sampling prior to wash cycles      | x |  | See 10 |

SURVEY AND SAMPLING

- |  |   |  |        |
|--|---|--|--------|
| 1. Survey results documented by appropriate person | x |  | See 11 |
| 2. Sufficient samples obtained & labeled           | x |  | See 12 |

Source

- nasal
- oral
- ears
- skin
- hair
- nails
- blood/CBC

PATIENT DECONTAMINATION

- |   |   |  |        |
|---|---|--|--------|
| 1. Intact skin washed first                                       | x |  |        |
| 2. Contamination control maintained during subsequent wash cycles | x |  |        |
| 3. Appropriate decontamination solutions used                     | x |  |        |
| 4. Decontamination techniques                                     | x |  | See 13 |
| 5. Frequent survey of attendants                                  | x |  |        |
| 6. Towel dry patient prior to repeat surveys                      | x |  |        |
| 7. Frequent rinsing of table top                                  | x |  |        |

CLEAN-UP PHASE

SATISFACTORY

- |  |   |
|--|---|
| 1. Contaminated articles placed in lined containers                      | x |
| 2. Attendants removed first layer of clothing                            | x |
| 3. Contaminated material double-bagged & removed from the treatment room | x |

WOUND DECONTAMINATION

- |   |   |
|---|---|
| 1. Survey performed & documented  | x |
| 2. Appropriate samples collected & labeled<br>Exudate<br>Foreign Material<br>Swab | x |
| 3. Wound irrigation   | x |
| 4. Wound properly redressed   | x |

See 14

FINAL DECONTAMINATION

- |  |   |
|--|---|
| 1. Survey performed & results recorded | x |
| 2. Fixing of unremovable contamination | x |

PATIENT TRANSFER & EXIT

- |   |   |
|---|---|
| 1. Attending staff prepared & coordinated | x |
| 2. Herculite pathway rolled into room     | x |
| 3. Contamination control maintained       | x |
| 4. Final survey of table top              | x |
| 5. Patient transfer onto clean stretcher  | x |
| 6. Patient survey at buffer zone doorway  | x |

See 13



ATTENDANT EXIT

SATISFACTORY

UNSATISFACTORY

COMMENTS

- |   |   |  |  |
|---|---|--|--|
| 1. Attending staff coordinated          | x |  |  |
| 2. Radiation technician assistance      | x |  |  |
| 3. Use of step-off pad                  | x |  |  |
| 4. Protective clothing removal sequence | x |  |  |
| 5. Attendant survey                     | x |  |  |
| 6. Dosimetry collected & recorded       | x |  |  |

### COMMENTS AND RECOMMENDATIONS

1. Because of the proximity of the plant to the hospital, preparation of the Radiation Emergency Area should begin as soon as possible after the initial notification call.
2. The decontamination table was correctly hooked up to the waste water collection system. However, the table was not anchored to the treatment table.
3. The REA physician suggested the use of a blackboard in the decontamination room. Since a blackboard is not a permanent record, we recommend that all pertinent information be recorded on the patient's chart.
4. Skin swipes were not available in the sample taking kit. These will be provided by RMC.
5. Security was correctly posted to direct the ambulance to the correct entrance and keep unauthorized personnel and vehicles out of the area.
6. Dosimetry was not available at this time. "Imitation dosimeters" were substituted for this exercise.
7. A second health physics technician did not accompany the patient to the hospital. He arrived approximately 30 minutes later.
8. The plant health physics technician provided guidance and direction to attending personnel. He correctly donned protective clothing before entering the treatment room.
9. The patient's clothes were removed prior to transport to the hospital.
10. During sampling and surveying units were stated clearly and precisely.
11. Survey results were documented excellently.
12. Samples were correctly obtained and labeled and included nasal, ears, oral, skin, hair, nails, blood, and CBC.
13. During the decontamination process, attending personnel should wash their gloved hands or change gloves frequently to prevent the spread of contamination.
14. Wound irrigation was performed properly. The attendants correctly covered adjacent (uncontaminated) body parts.
15. To insure contamination control the nurses aide should not handle clean Herculite, drapes, clean gurney, etc. during transfer.

#### SUMMARY

The Pottstown Memorial Hospital staff accomplished the objectives of the drill, that is, they recognized the correct priorities for the treatment of an injured and contaminated patient by: (1) attending to the patient's medical needs without being distracted by the contamination; and (2) decontaminated the patient while controlling the contamination to the Radiation Emergency Area.

Hospital personnel exhibited understanding of the principles and procedures necessary for treating contaminated/injured patients. Plant health physics personnel were familiar with hospital procedures and interfaced confidently and efficiently with hospital personnel.