

UNITED STATES OF AMERICA
 NUCLEAR REGULATORY COMMISSION
BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)
)
 METROPOLITAN EDISON COMPANY) Docket No. 50-289
 (Three Mile Island Nuclear) (Restart)
 Station, Unit One))

COMMONWEALTH RESPONSE TO AAMODT FOLLOW-UP
INTERROGATORIES (SECOND SET)

21. Regarding Response to Interrogatory 8, you refer in paragraph 1 to "the farm." Identify this farm by location--county, township, road or R.D.

RESPONSE:

The farm is located 1.6 miles ESE of the facility at an azimuth of 115 degrees.

22. Regarding Response to Interrogatory 9, can natural background radiation (Denver, Colorado) be equated with radioactive iodine? Explain rationale.

RESPONSE:

Natural background doses may be used in discussing dose to the thyroid because background radiation is measured as penetrating gamma radiation to the whole body. Since the thyroid gland is part of the whole body it, too, is exposed to background radiation to which the whole body is exposed.

23. Is there a hypothyroidism screening program in Colorado?

RESPONSE:

The existence of a hypothyroidism screening program in the State of Colorado is unknown to this respondent.

24. Provide NCRP Report #5 (sic) if possible, or information on its availability.

RESPONSE:

NCRP Report No. 55 is available from:

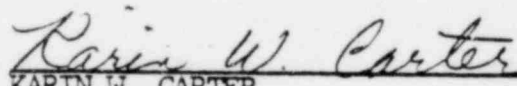
NCRP Publications
P. O. Box 30175
Washington, D.C. 20014

25. What is the basis for the suggestion that "external radiation may be twice as effective in producing late effects as are internally desposited radio-iodines"? (Response to Interrogatory 9, paragraph 3)
- a. Is there any other evidence to support this suggestion? If so provide.

RESPONSE:

The basis for the suggestion that external radiation may be twice as effective in producing late effects is discussed in NCRP Report No. 55, section 2.2.2.2., page 8. The word "suggestion" implies that the data seems to support the premise, but for some reason (in this case, insufficient data), the premise is not yet accepted.

Respectfully submitted,



KARIN W. CARTER
Assistant Attorney General

Counsel for the
Commonwealth of Pennsylvania

Dated: May 20, 1980

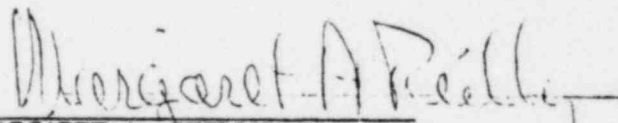
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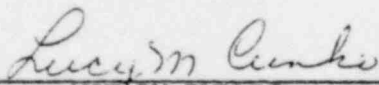
AFFIDAVIT OF MARGARET A. REILLY

COMMONWEALTH OF PENNSYLVANIA)
) SS
COUNTY OF DAUPHIN)

MARGARET A. REILLY, being duly sworn according to law, deposes and says that she is Chief of the Environmental Radiation Division, Bureau of Radiation Protection, Pennsylvania Department of Environmental Resources; and that the information contained in Commonwealth Response to Aamodt Follow-up Interrogatories (Second Set) numbered 21, 22, 23, 24 and 25 is true and correct to the best of her knowledge, information and belief.


MARGARET A. REILLY
Chief, Environmental Radiation Division
Bureau of Radiation Protection
Department of Environmental Resources

Sworn to and subscribed
before me this 19th day
of May, 1980.


NOTARY PUBLIC

Lucy M. Cunko, Notary Public
My Commission Expires May 2, 1983
Harrisburg, PA Dauphin County

PA 5/20/80

UNITED STATES OF AMERICA

RELATED CORRESPONDENCE

NUCLEAR REGULATORY COMMISSION

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In the Matter of)

METROPOLITAN EDISON COMPANY)
(Three Mile Island Nuclear)
Station, Unit One))

) Docket No. 50-289
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)



CERTIFICATE OF SERVICE

I hereby certify that copies of the Commonwealth's Response to Aamodt Follow-up Interrogatories (Second Set) were served upon those persons on the attached Service List by deposit in the United States mail, postage prepaid, this 20th day of May, 1980.

Karin W. Carter

KARIN W. CARTER
Assistant Attorney General

Dated: May 20, 1980

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NUCLEAR REGULATORY COMMISSION

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Station, Unit No. 1) (Restart)

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