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*Docket  
NO  
50-320*

**POOR ORIGINAL**

Docket No. 50-320

JUL 7 1980

Mr. Frank R. Romano  
 61 Forest Avenue  
 Ambler, Pennsylvania 19002

Dear Mr. Romano:

This is in response to your letter of May 9, 1980, in which you expressed concern because no "notice to airmen" was issued in conjunction with the release of krypton-85 from Three Mile Island, Unit 2 on April 23, 1980.

You are correct in your assumption that the Unit 2 containment entry did not take place on April 24 as planned; however, a very small amount of krypton-85 (about 1/20th of a curie) was released on April 23. If all activities in conjunction with the planned entry into the TMI Unit-2 containment on April 23 and 24 had taken place, a release of approximately 25 curies of krypton-85 to the environment would have occurred. Assuming poor meteorological conditions, this would have resulted in a maximum total-body exposure of approximately 0.008 millirem at the site boundary. Personnel in aircraft on the glide path for brief periods of time close to TMI would have received an even lower dose of radiation.

Exposure from background radiation results in a total-body dose of approximately 0.3 millirem per day to the population. Therefore, the 0.008 millirem projected exposure from krypton releases results in a relatively insignificant increase in population exposure above that received from background radiation. Accordingly, a special warning to the aviation community concerning hazardous radiation exposures was not deemed necessary in this instance. As a point of interest, for every hour of flying at 35,000 foot altitude, a pilot receives about 1 millirem exposure.

Sincerely,

Original Signed by  
 H. R. Denton

Harold R. Denton, Director  
 Office of Nuclear Reactor Regulation

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*7/3 act*

OFFICE	TMI:PO	DIP/TMI:PO	DIP/NRR	DIP/NRR	
SURNAME	WTravers/hmt	BJSnyder	EGCase	HRDenton	
DATE	6/25/80	6/25/80	7/5/80	6/17/80	