



UNITED STATES
NUCLEAR REGULATORY COMMISSION
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JUN 1979

MEMORANDUM FOR: Distribution

FROM: Phillip R. Reed
Environmental Effects Research Branch
Division of Safeguards, Fuel Cycle and
Environmental Research

SUBJECT: NOTE SUBMITTED TO SCIENCE ON I-131 IN THYROIDS AND
RELATIONSHIP TO THREE MILE ISLAND INCIDENT

Enclosed for your information is a preprint of a research paper entitled "Unexpected ^{131}I in English Sheep" we received from Dr. L. Van Middlesworth of the University of Tennessee at Memphis. The note was submitted to Science magazine for publication consideration on May 15, 1979.

In the paper Dr. Van Middlesworth discusses his recent research results of analyzing for ^{131}I in cow and human thyroids obtained from Philadelphia, Pennsylvania and Memphis, Tennessee and in sheep thyroids obtained from Birmingham, England.

He also made several statements about his findings and the incident at the Three Mile Island nuclear station. He emphasizes the importance of continuous monitoring of animal thyroids as long as nuclear reactors are used to generate electrical power.

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Enclosure: Research Paper

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