

Copy faxed to TMI 1145 10/22



Atomic Energy  
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Research Company  
Chalk River  
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Chemistry and Materials Division

1979 October 11

Dr. J.T. Collins  
Effluent Treatment Systems Branch  
United States Nuclear Regulatory  
Commission  
WASHINGTON, D.C. 20550  
U.S.A.

Dear Dr. Collins:

I understand that you have studied the behaviour of the iodine released in the accident at Three Mile Island. Would you, or perhaps one of your colleagues, consider submitting a paper on the radiation chemistry aspects of the iodine behaviour in this accident. As shown in the attached notice - which is to appear in Radiation Physics and Chemistry in 3-4 months, we are going to have a special issue on radiation chemistry in nuclear reactor technology and a paper on radiation chemistry at TMI would be a worthwhile addition to this issue.

I would be very pleased to hear from you and hope that, if there is no one in your branch who would consider submitting a paper, then you might be able to suggest others whom I could contact.

Yours sincerely,

AWB:bam

A.W. Boyd  
Physical Chemistry Branch

Enclosure

cc: A. Singh

RADIATION PHYSICS AND CHEMISTRY

RADIATION CHEMISTRY IN NUCLEAR REACTOR TECHNOLOGY

An issue devoted to aspects of radiation chemistry in nuclear technology is planned for publication in 1981. Both review papers\* and those reporting new work on the following topics will be considered.

1. Radiation chemistry measurements or modelling of reactor coolants, moderators, and other gases or liquids in the reactor.
2. Measurements of radiation chemical yields of fast neutrons, fission fragments and other high LET particles.
3. Measurements or modelling of the radiation effects in the short and long term storage of radioactive wastes.
4. Measurements or modelling of the radiation chemistry of reactor accidents.
5. Radiation chemistry of fuel reprocessing.

All papers will be subject to normal refereeing. They are to be sent to:

A.W. Boyd  
Atomic Energy of Canada Limited  
Research Company  
Chalk River Nuclear Laboratories  
Physical Chemistry Branch  
Chalk River, Ontario K0J 1J0  
CANADA

The deadline for receiving these papers is 1980 November 15.

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\*Those planning to submit review papers are invited to discuss the contents with Dr. Boyd.