

May 18, 2006

Mr. Wolfgang Wiesenack,  
General Manager  
Halden Reactor Project  
Os Allé 13, 1777 Halden  
P.O. Box 173, NO-1751 Halden  
Norway

Dear Mr. Wiesenack,

The purpose of this letter is to respond to your letter of February 3, 2006, announcing the release of HWR-667, "The Treatment of Radioactive Fission Gas Release Measurements and Provision of Data for Development and Validation of the ANS 5.4 Model" by J. A. Turnbull. We would like to inform you of our efforts to make this document publicly available.

We have added the document to the Nuclear Regulatory Commission's (NRC's) public document database, ADAMS. The document can be accessed at <http://www.nrc.gov/reading-rm/adams/web-based.html>, and searching for ML060190507. This release was documented in the agency's weekly highlights to the Commission which are available on NRC's public website. The text of the highlight is enclosed. We do not intend to republish this report as an NRC document.

Please note that this version of the report has been modified slightly from the electronic version supplied by Turid Danielsen in your message of January 13<sup>th</sup>. The message: "Error! Unknown document property name" has been changed to the report number (HWR-667) by rescanning a paper copy of the document. The Halden Reactor Project notice on the first page remains intact, notwithstanding your release.

We believe the public use of this document will result in practical application of these results. We thank you for your help in this process.

With best regards,

**/RA/**  
Michelle Flanagan  
Office of Nuclear Regulatory Research  
U.S. Nuclear Regulatory Commission  
MS: T10 E10  
Washington, DC 20555

Enclosure:

Office of Nuclear Regulatory Research Weekly Highlights 2/17/06  
May 18, 2006

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Office of Nuclear Regulatory Research Weekly Highlights 2/17/06

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### **Halden Project Releases Report Related to Alternate Source Terms**

At the request of NRC, the Halden Research Project (HRP), a multinational research organization located in Norway, released its report, "The Treatment of Radioactive Fission Gas Release Measurements and Provision of Data for Development and Validation of the ANS 5.4 Model," into the public domain. The HRP work is associated with Regulatory Guide 1.183 - "Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors." These data will be further used to validate the fission product release models, the first step in quantifying radiological consequences. Recently, the Boiling Water Reactor Owners' Group proposed a method of determining radioactive fission gas release based on efforts of the ANS 5.4 Working Group.