April 7, 2008

Mr. Cam Abernethy, President
Radium Incorporated
435 Essex Ave. STE 7
Waynesboro, VA 22980

SUBJECT: REQUEST FOR THE REVIEW OF RADIUM INCORPORATED (RADIUM) TOPICAL REPORT (TR) TP-HHS23-01NP, "RADIUM INCORPORATED'S HURRICANE HOOD SYSTEMS" (TAC NO. MD8227)

Dear Mr. Abernethy:

By letter dated February 5, 2008 (Agencywide Documents Access and Management System Accession No. ML080500183), Radium submitted TR TP-HHS23-01NP, "Radium Incorporated's Hurricane Hood Systems," to the U.S. Nuclear Regulatory Commission staff for review.

As we notified you on March 18, 2008, we have completed our acceptance review of your application and all of the supporting information in accordance with the TR program criteria. We have concluded that your report is not acceptable for review because it does not contain complete and detailed information on the specific subject presented, as explained in the four paragraphs below:

1) Radium has not uniquely identified the configuration of each hood system for which approval is being sought. Specifically, a uniquely identifying model number for each suit that is to be combined with each hood needs to be provided.

2) The test data provided in the TR does not support assigning a Protection Factor (APF) of 2000, as requested. The testing provided uses a test acceptance criteria of 250 total inward leakage (TIL). This acceptance criterion only supports an APF of 25 which is usually assigned a value a factor of 10 below the TIL measured in a controlled laboratory environment.

3) No test data is provided for low flow and low battery alarm tests for the Category 3 model of the Hurricane Hood. It is not possible to verify that the Category 2 model passed these tests, since no set points or acceptance criteria are given. The monitored parameter that initiates these alarms, and the principle of operation for the sensing devices need to be described.

4) Product information sheets describing the mechanical and physical properties of following three PVC films/sheets are included in the submittal: a) 0.004" Translucent Yellow (Grade EMS028); b) 0.008" Opaque Yellow (Grade EMO028); and, c) 0.02" Transparent Clear (Grade KGT244). However, no information is provided as to how these materials are used in construction of the Hurricane Hood Systems. No flammability test data is provided for the EMO028 grade material. Although flammability test data is given for the EMS028 and KGT244 materials, no explanation is given for them being tested against two different consensus industry standards (MVSS-302, Federal Flammability Test Procedure; and NFPA-701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films; respectively).

Therefore, your request for the review of TR TP-HHS23-01N P, “Radium Incorporated’s Hurricane Hood Systems,” is denied. This does not preclude you from addressing the deficiencies discussed above and resubmitting the TR at a future date.

Sincerely,

/RA/

Ho K. Nieh, Deputy Director
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 767

Therefore, your request for the review of TR TP-HHS23-01NP, "Radium Incorporated's Hurricane Hood Systems," is denied. This does not preclude you from addressing the deficiencies discussed above and resubmitting the TR at a future date.

Sincerely,

/RA/

Ho K. Nieh, Deputy Director
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 767

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