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September 6, 2007

VIA FACSIMILE

Mr. Thomas Thompson  
Division of Nuclear Materials Safety  
Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

Subject: Mail Control No. 140858  
Renewal Application for Material License No. 37-30369-01  
Adolor Corporation  
Exton, Pennsylvania

Mr. Thompson:

In response to the questions raised in your e-mail of August 30, 2007, Adolor and IES provide the following:

1. *Financial Assurance (F.A) for Decommissioning would normally be needed for possession of 25 millicuries of <sup>45</sup>Ca. Adolor would like to lower the possession limit to 5 mCi to avoid the need for Financial Assurance for Decommissioning. Adolor has not had more than a total of 1 mCi of <sup>45</sup>Ca in its possession for the entire life of its Materials License.*

2. *Please indicate the minimum specifications that will be used for fume hoods that may be used for handling volatile radiopharmaceuticals. The minimum specification for the fume hoods used for volatile radioactive material is 90 CFM. All hoods onsite are certified per the AIHA/ANSI lab ventilation standard on at minimum an annual basis.*

Should you have any questions regarding this information, please feel free to contact Robert DeHaven (RSO) at Adolor at 484-595-1048 or our consultant Ms. Jessica Leonard of IES Engineers at 610-828-3078.

Thank you again for your assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard M. Woodward', is written over the word 'Sincerely,'.

Richard M. Woodward  
Vice President, Discovery  
Adolor Corporation

cc: R. DeHaven, Adolor  
J. Leonard, IES

140858

NMSS/RGN1 MATERIALS-002