

HIGH ENERGY DEVICES

Kevin Null
USNRC Region III
2443 Warrenville Rd Ste 210
Lisle IL 60532

License Number 24-26366-01

Dear Mr Null
Here are the answers to your question that needed to be addressed.

What are the performance characteristics of the fume hood?

Face velocity and total volume - 100 linear ft per minute when spotting tubes, exhaust volume at this rate is 500 cubic feet per minute.

Will you be using the same hood and exhaust in the new facility, or getting a new blower? – same hood and blower will be used.

Is the hot lab under negative pressure? – No

What is the maximum amount of activity spotted on a single device - .637uc Ni63 is the only spotting work performed.

Is cesium 137 no longer used in production? – We have stopped using Cesium-137 in our product line but still have some inventory of sealed units in inventory. You will be notified when the products with Cesium-137 have been depleted at which time we will amend our license to reflect this change.

Do you have any air sampling program for environmental releases? – No

Do you do any air sampling within the hot lab? – No

Have you ever done breathing zone monitoring? – No

Is the radioactive material used in a volatile form? – The Cesium-137 was spotted in a liquid form, stays in the hot lab until the spot is dry. Kr-85 is not used in the hot lab. It is put on a glass station that is sealed and induced into a glass tube that is sealed on the station so it cannot be released into the air. The individual spark arrester units are flame sealed at the time that they are torch cut from the manifold.

How many locations within the hot lab do you process or have open radioactive materials? – 1, All work performed in the hot lab is done under the fume hood.

Please confirm that the hot lab at the new facility will be identical to the current hot lab in Maryland Heights. The room size and setup will be the same at the new facility.

Do you have a current bio-assay program? – No It was deleted 2-7-92 per NRC

Sincerely
Michael C Brower/RSO

Michael C Brower 10-4-06

HIGH ENERGY DEVICES, LLC
45D Progress Parkway • Maryland Heights, MO 63043

Phone: 314.434.5191 • Fax: 314.434.8184
Email: info@highenergydevices.com

www.highenergydevices.com

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