**Brief Report on the Mock Transfer and Opening of Gallium Target**

We received the mock deliver package of Gallium from the J-lab in its shipping system to simulate real radioactive Gallium containing Copper 67. The shipment was intact.

The shipment was received by the VCU radiation Safety lab personal, and taken to their lab for inspection. The shipment was unsealed down to the plastic jar containing the lead shipping pig and wipe tested and resealed.

It was then transported from the safety office to the radiochemistry lab. (Time 15 minutes). Once in the lab the package was then unsealed and opened, this was performed on a table in front of the open shields of the hot cell. The plastic jar with the pig was lifted out and placed inside the hot-cell. The jar was unscrewed and the lead pig was pulled out and placed near the inside of the Hot-cell in the front area just inside of the shield doors of the cell. The clips on the lead pig was opened using a long pair of plyers. The doors to the hot-cell were closed. Remote manipulators were used to remove the top of the pig to expose the crucible. The manipulators where used to grasp the top of the side of the crucible and lift it up out of the lead pig and placed it in the dose calibrator to simulate measurement of the total activity. Using the manipulators the crucible was removed from the dose calibrator and placed into the turn table to un-skrew the crucible plug. It was determined that griping of the plug was sufficient to unscrew the plug from the crucible as the turn table turned. The boron nitride material of the crucible was flakey upon gripping with the manipulator arm. The crucible was then lifted the rest of the way up so as to the bottom clears the turn table and moved over the receiving flask and the gallium poured out. The empty crucible will then be placed in the turn table to re-screw the plug in and then placed into dose calibrator to simulate measurement of residual activity left in the crucible.