

June 10, 1980

50-320

Nuclear Regulatory Commission  
Washington, D.C.

Attn: Dr. Bernard Snyder  
Director TMI Program Officer

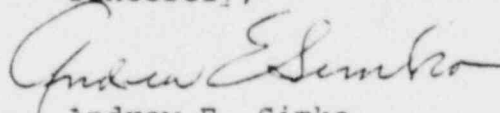
Just as the young boy asked the traffic experts and truck driver why they didn't let the air out of the tires after they spent hours and used expensive equipment to release a truck stuck under a viaduct, I am asking the TMI and NRC officials why they don't vacuum out the Krypton gas at TMI?

There are two methods which come to mind. One is the use of a powerful motor and large bag somewhat similar to that used by firms which clean furnaces and chimneys. Since it will be gas rather than dust or dirt that is to be vacuumed, a plastic or rubberized bag would be preferable to the conventional cloth bag. Precautions would be taken so that no gas would escape into the air while passing through the vacuum pump. Perhaps it could be enclosed in a cocoon-like structure. A procedure to transfer the gas from the lower pressure bag to a pressurized container could be devised for easier transportation and disposal.

The other method is to make a sphere or series of spheres or tanks large enough to hold all the Krypton now in the containment building. This sphere should have an intake and exhaust valve. The exhaust valve is connected to a vacuum pump with an air tight hose. Close the intake valve. Draw out all the air from the sphere making as near a perfect vacuum as possible. When this is finished, close the exhaust valve and disconnect the vacuum pump. Attach another air tight hose to the intake valve and insert the other end into the opening which was to be used to vent the Krypton into the air. When all is ready, open the intake valve. The Krypton gas will evacuate the containment building to occupy the vacuum in the sphere. When all the Krypton is withdrawn close the intake valve. Disconnect the sphere from all apparatus. The sphere with Krypton can then be transported for release in an area where less damage will be done.

Schematic drawings accompany this explanation.  
Doctor Snyder, please give me your evaluation of these ideas.  
Thank you for your time and consideration.

Sincerely,



Andrew E. Simko  
3216 Graham Road  
Falls Church, Virginia 22042

AES:tdw

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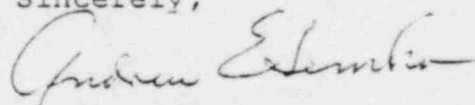
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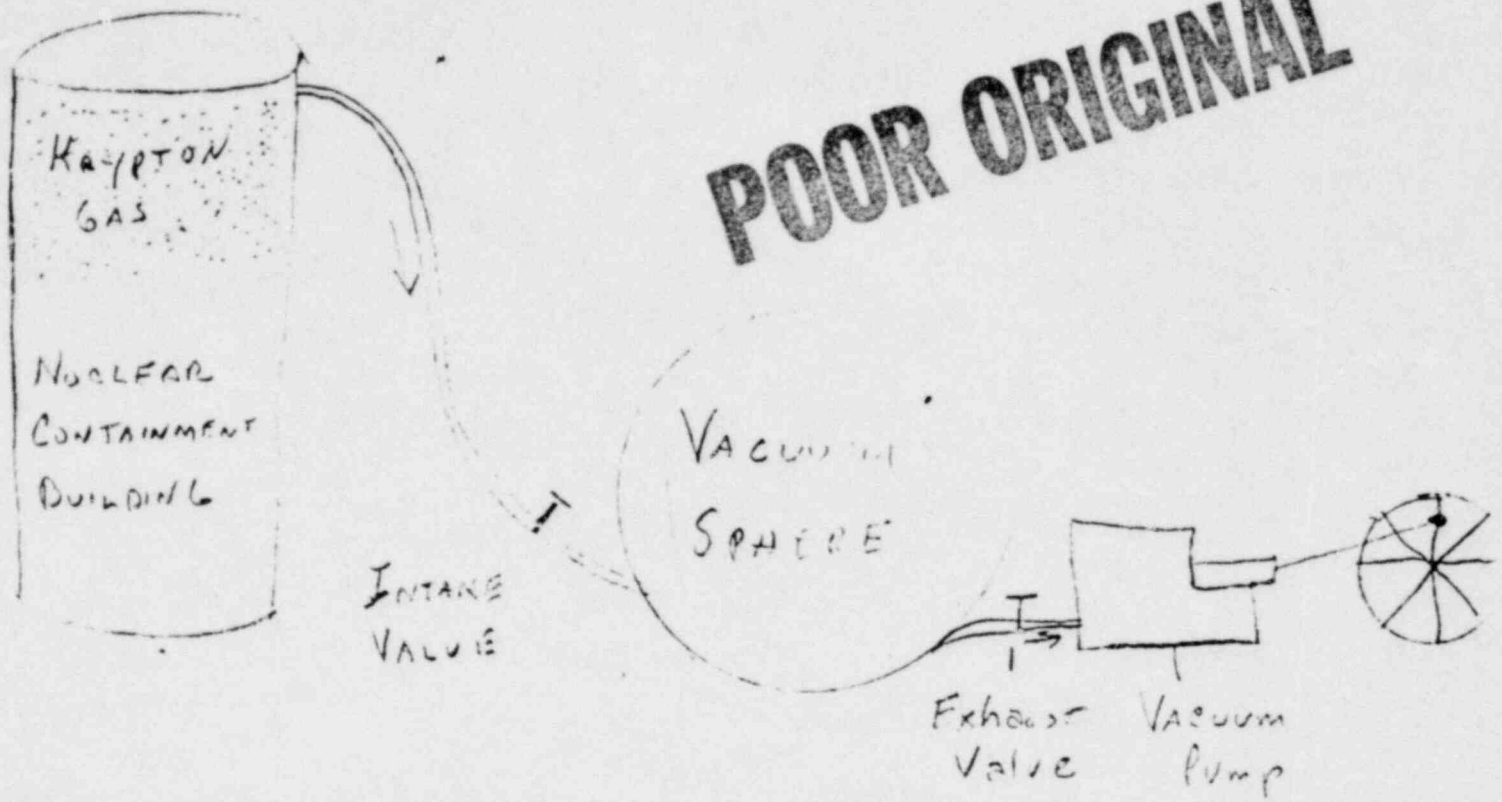
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Method # 2

**POOR ORIGINAL**



Method #1

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