

From: Ellen Thomas
To: FOIA Resource
Subject: [External_Sender] Re: FOIA/PA-2017-00659 Acknowledgment Letter
Date: Saturday, August 26, 2017 2:23:17 PM

Dear Margo Stevens,

Thank you for your email of August 22, 2017, acknowledging my earlier FOIA request, and **thank you for allowing me to substitute the following request for the one I filed earlier.**

The new FOIA requests relate to an October 14, 1970 Atomic Energy Commission (AEC) report entitled "Detailed Statement on the Environmental Considerations Related to the Proposed Barnwell Nuclear Fuel Plant by Allied Gulf Nuclear Services." The NRC has this report. It is on microfiche.

Following the AEC report is the environmental report of Allied Gulf Nuclear Services for the Barnwell Nuclear Fuel Plant. It is identified as Appendix A.

The directions on how to manage the nitric acid left over from separating uranium and plutonium are given on page A39, A40, and A41 of Section 7.32 - Liquid Waste Management. At the Chalk River facility in Ontario, Canada, a similar process is used to extract molybdenum-99 from the nitric acid. It is evident from the description that the operation of recovering uranium and plutonium from nitric acid is similar to the process of extracting molybdenum-99, and even more in need of handling on-site, with similar directions.

Description of Records now requested, based on the above -

- 1) **Provide evidence on how the design features maintain the integrity of the HEUNL containers in the event of an earthquake.**
- 2) **Provide evidence on how the design features maintain the integrity of the HEUNL containers in the event of a tornado-force wind of 300 mph.**
- 3) **Provide evidence on how the design features maintain the integrity of the HEUNL containers in the event of airborne missiles.**
- 4) **Provide evidence on how the design features maintain the integrity of the HEUNL containers in the event of a major accident.**
- 5) **Provide a detailed description of how the heat from the self-generated fission products is cooled.**
- 6) **Provide a detailed description of the backup plans for supplying cooling in case of failure of the original cooling system.**
- 7) **Provide evidence which shows how non-condensable gasses and airborne particulates, including radiolytic H₂, are controlled. If such gases and particulates are somehow released, what plans are there to protect the public and the environment?**

Thanks for your help.

Ruth Thomas
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