From: Michael Reimer
To: Koenick, Stephen
Subject: [External_Sender] phone call appreciation
Date: Friday, April 26, 2019 1:17:17 PM

Dear Mr. Koenick:

Thank you for our phone discussion yesterday concerning possession license SUC-1593. I appreciated your willingness to follow up with the U.S. Army the question in my December 31, 2018 letter to you about it having the depleted uranium pieces that had been removed from the Radiation Controlled Areas at Pohakuloa, Hawaii tested for traces of isotopes that would indicate if the DU came from reprocessed nuclear materials. It is also important to ascertain that these pieces had been placed and remain in strictly controlled, secured safe storage areas.

We also addressed my concern about proper methodologies for monitoring and analytical techniques. It is easy to select a methodology that gives the appearance of addressing an issue but if that methodology is not comprehensive or if the issue is inadequately or inappropriately defined, then the approach is meaningless. For example, the issue of exposure is one that concerns many residents and has been thoroughly articulated by Hawai'i resident Dr. Lorrin Pang, M.D. Whole body exposure is not a valid substitute for lung tissue exposure if DU oxide particulates, the form of concern, are inhaled. Similarly, if an analytical method used for the isotopes of interest does not have adequate sensitivity for detection or unrealistic action targets are chosen, then it can lead to inaccurate extrapolation of risk.

Hawai'i is a special place in many regards including the environment and cultural realities. For any toxin, a simple broad-based monitoring and risk model for sites on the mainland may fall short of appropriateness for Hawai'i. There is a genuine concern expressed by the residents of a radiation hazard from military activities. A rigorous study would go a long way for reassurance that any risk is minimal. It seems probable that such a study will have to be grass-roots initiated.

My thanks again for your willingness to follow up on my questions.

Sincerely,

Michael Reimer, Ph.D.

Retired Geologist

GeoMIke5@att.net

April 26, 2019