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From: Robert Shewmaker - SFPO
To: JXG - Guttman
Subject: PNL PAPER ON CRASH IMPACTS ON STORED FUEL

The main reference in the paper is to DOE STD 3014 and it appears that an "Andrew Barto" worked on the standard for SAIC. Was this our Andy?

I assume the empirical formula used for concrete penetration was based on tests of specific designs being used by DOE for the walls and roof of the concrete storage modules. The only material design property appearing in the formulation is the compressive strength of concrete. This is far from being the only parameter that controls missile penetration in concrete.

Note also that the paper does not address thermal effects from fuel ignition.

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