

From: Gareth Parry
To: Diane Jackson, Glenn Kelly, Mark Rubin, Michael...
Date: Wednesday, June 02, 1999 08:38 AM
Subject: Re: RG 1.174

I'm not sure there's much of a distinction to be made between the effects of slow versus fast fuel damage events. The slower developing events give a greater chance of recovery, but that should already be factored into the frequencies. They also give an increased likelihood of successful evacuation but the early fatality risk seems small anyway, and the latent fatalities are not much affected by evacuation. Remember LERF is a surrogate for early fatalities, and is supposed to take into account the effectiveness of the barriers (containment, EP) as well as the frequency of core damage. Since there is no effective containment and the benefits of EP are small, perhaps the focus should be on prevention, i.e., keeping the frequency of zircalloy fires as low as possible. In other words, LERF does not apply, but rather an equivalent to CDF. However, the CDF goal may not be the correct value to use for the pool. It seems to me you could use latent fatalities as the basic risk measure, and work backwards to establish what is the acceptable level of zircalloy fire events that meets the latent fatality safety goal.

CC: Gary Holahan

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