

From: Joseph Staudenmeier *NLR*
To: Christopher Gratton *NLR*
Date: Thu, Jan 27, 2000 9:35 AM
Subject: Re: Info request from Gary

Chris,

Time to Zr fire: ~ 1hr or less
Assumptions: SWAG, no calculations for less than 30 days
Reference for 30 day calculation: NUREG/CR-0649

I can probably do a calculation within a weeks time if Gary wants a better guess.

Joe

>>> Christopher Gratton 01/25 11:15 AM >>>

Gary asked the TWG to fill out a comparison matrix regarding operating plant and decommissioned plant spent fuel storage. I thought one block you may be able to help with. Gary wants to know the "typical" time for the Zr fire for a freshly offloaded core given a loss of coolant inventory in the pool (ie use generic assumptions about the SFP fuel inventory).

You can email me the results or pencil them in the appropriate block on the matrix on my desk. I dont plan on being here tomorrow. Please include:

The time to Zr fire in hours
Set of assumptions used in the evaluation
Any references

Also, should there be a fire, has there been any evaluations that quantify the **source term** that would be involved? And how much of the spent fuel in the SFP would be involved in the fire? You can see what Gary estimated on the matrix. I am just trying to make sure his estimations are consistent with what is already out there.

Thanks, you can touch base with George if you have questions on Wed. I think he needs the info as soon as reasonably possible

Chris

9/14/02