



"william..simmons"@fakeaddress.net on 10/19/2001 11:02:26 AM

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Subject: SER Comment

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--> Comment Text :
The geologic setting for this facility makes it an unsafe siting to store the type of casks proposed.

Similar to the failure that caused the spontaneous chain reaction to the World Trade Center, a seismic occurrence of just medium magnitude will trigger the collapse of the manmade structures carved into the geologic strata at depth storing the casks.

Geologic strata that is unstable such as that at Yucca Mountain is not suitable for the type of structures proposed.

Once any portion of the underground structures are weakened by seismic event, failure will be initiated and the resulting geologic strata overhead will come down on the casks with enough force to rupture the casks.

Such a concentration of radioactive material opened to the underground environment will gather into a suitable mass for migration downward because of its high level of specific gravity, through existing fissures to any and all ground water sources surrounding Yucca Mountain.

Similar to the effect from the DoE catastrophe now happening at and around INEEL and the radioactive contamination and damage it is doing to the Snake River Aquifer.

Because of the unstabilness caused by the seismic activity to the underground storage areas upon the casks, the damaged areas will be impossible to remedy and massive contamination will progress beyond the realms of human control.

Making this particular siting scientifically unsuitable for this type of facility.

Based on gravity, seismic instability, inherent vulnerability of the casks, radioactive migration that will be initiated and supported by seismic history of the area, geologic strata type and proven by what is already underway at Idaho provides more than enough scientific data not to put this facility at Yucca Mountain.

A geologic siting in a less active seismic area say in the north eastern US would have been much more suitable from the beginning.

And it is the failure of organizations like the National Academy of Sciences that have misled Congress into going forward with this particular site to begin with that has led the DoE down the wrong path.

Remember this that the best method to deal with radioactive waste is not storing it, the Army tried that with nerve agents and blister agents and they now see that such material cannot be stored and has started an elimination process of all those stockpiles at places like TOCDF in Tooele, Utah.

So too, the DoE must see that storing is not the answer, specifically when new breakthrough technologies are currently developed (AAD Process) that will eliminate radioactivity safely and at a much lower cost than storing and disposal.

The Army agrees that storing doesn't work.

The INEEL proves that storing doesn't work.

The geologic setting of Yucca Mountain models both scenarios.

No matter the storing regime, over time they all fail.

Rather it is elimination of the lethality of the material that is the only method that does work.

Storage of casks in underground manmade structures> failure of those structures due to seismic event of even medium magnitude> collapse of the structures upon the casks> rupture of the casks> concentration of the highly radioactive material from the ruptured casks> latent heat growing in magnitude> migration of the radioactive material due to highest specific gravity through existing fissures and seams to ground water> contamination >heat enough to vaporize any moisture> heat enough to breed radioactive prodigy> heat enough to produce hydrogen from the water> pressure from the geologic strata upon the mix>.....there is data to support all these models.

Do the right thing. You have a moral obligation when scientific data can model actual failure beyond manmade proportions.

The site is not safe.

Thank you.

William Simmons

AAD Process
