

PMNorthAnna3COLPEmails Resource

From: Harry Ruth [hc.ruth@louisiana.net]
Sent: Monday, March 28, 2011 12:33 PM
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Subject: Minimize two potential disasters at Lake Anna by having 3rd reactor dry air-cooled

Letter to Editor:

Minimize two potential disasters at Lake Anna by having 3rd reactor dry air-cooled

The Nuclear Regulatory Commission says the North Anna site is 7th out of 104 nuclear U.S. sites to potentially have an earthquake disaster. Dominion says the two Lake Anna Reactors are only designed for a 6.0 magnitude, while Virginia has earthquake history of 5.7.

The 1970 Lake Anna computer modeling said there would be plenty of water in Lake Anna to provide cooling for four nuclear reactors. VDEQ Water Resources studies question if there is sufficient water to provide cooling for the proposed 3rd reactor since this is an extremely small watershed that does not have an abundant supply of water from free flowing rivers or oceans that most other nuclear power plants have.

The Lake Anna plans ASSUME there will always be water in the lake. The computer modeling *did not* take into account that just like the Japanese scenario, it is possible that two disasters could occur in close proximity: (1) an earthquake of greater than containment building designed values and (2) an earthquake or terrorist attack that could breach the Lake Anna dam, causing all water to drain from the lake. There is an on-site pond to be used to cool the current reactors if there is a nuclear malfunction; but is not an abundant supply of water fed by a free flowing river or ocean should the dam breach eliminate lake water. If the lake water drains and the on-site pond does not have sufficient water to cool the first two reactors - What happens? Where are the computer modeling statistics that prove, beyond a shadow of a doubt, that there will be sufficient amount of water in the on-site pond, (with no water in the lake), to cool three reactors if a dual disaster strikes? Who protects the Lake Anna dam against earthquakes or terrorist attacks? How long will the on-site pond water last to provide emergency cooling to shut down 3 reactors? **These calculations should be provided to the public for their comments prior to any consistency review or water permit processing by VDEQ in April 2011 for a reactor design not to be completed by the NRC until 2013**

The dual disaster scenario dictates the proposed 3rd reactor should use exclusively DRY AIR COOLING (similar to Dominion's proposal for its 4th reactor). Using dry air cooling insures that at a minimum one nuclear reactor (the 3rd), would be operational if the lake was drained. Note 1970 plans said it would take approximately 3 years to fill Lake Anna which is the time that all three reactors would be out-of service if the 3rd reactor cooling is not changed to dry cooling and a dual disaster struck the North Anna site.

FOLA supports the 3rd reactor, but wants assurance that *all environmental concerns are first addressed in a responsible manner.* This could be a win-win project for all if Dominion provides 100% dry cooling for its 3rd reactor.

Sincerely,

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