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From: Jang Hwan Jheon [jheonn@kopec.co.kr]
Sent: Tuesday, July 07, 2009 4:51 AM
To: NRCREP Resource
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Below is the result of your feedback form. It was submitted by

Jang Hwan Jheon (jheonn@kopec.co.kr) on Tuesday, July 07, 2009 at 04:51:22

Document_Title: Seismic Qualification of Electric and Active Mechanical Equipment and Functional Qualification of Active Mechanical Equipment for Nuclear Power Plants

Comments: The draft Redulatory Guide still does not give any necessary information about the method how the dynamic loads other than the earthquake should be considered together with the earthquake. I think some more detailed guides are needed to be added.

Mostly the earthquakes last more than 15 seconds, but the pipe rupture dynamic loads, one of the non-seismic(hydrodynamic) loads last about 1 or 2 seconds. There is a big difference in the durations.

And also the frequency contents of the excitations are different, i.e., the pipe rupture dynamic loads contain much higher frequencies(upto about 200 Hz). So the response spectra from the pipe rupture dynamic loads have the zero-period acceleration around those high frequencies.

These 2 big differences make a problem. For a seismic qualification test, a single time history excitation can be generated using the combined response spectra of those 2 excitations. In this case, the pipe rupture dynamic loads unnecessarily extended in duration.

Here is my question. Can any guide be set up in the sense of duration. For example, like my case, if there is a big(?) difference in the durations, those events can be tested separately(not simultaneously) or not.

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