

136

Murphy, Martin

From: Khanna, Meena *meena*
Sent: Wednesday, September 14, 2011 4:00 PM
To: Murphy, Martin
Cc: Murphy, Emmett; Martin, Robert
Subject: RE: Questions/Issues related to North Anna Seismic Event

Thanks Marty and Emmett

From: Murphy, Martin *meena*
Sent: Wednesday, September 14, 2011 2:28 PM
To: Khanna, Meena; Martin, Robert
Cc: Murphy, Emmett
Subject: FW: Questions/Issues related to North Anna Seismic Event

Question for North Anna/Dominion regarding SGs.

This is an inclusive question and should not be interpreted by the licensee as only pertaining to the Unit going into refueling.

Marty

From: Murphy, Emmett *meena*
Sent: Wednesday, September 14, 2011 1:59 PM
To: Murphy, Martin
Subject: RE: Questions/Issues related to North Anna Seismic Event

OK, Marty, this is what I have:

Describe the evaluations, inspections and analyses of the steam generators (SG) to ensure the acceptable condition of the steam generator (SG) supports, SG tubes and other SG internals (tube support structures, steam separation equipment, J-nozzles, wrapper and wrapper supports, blowdown piping, etc.). Are all steam generators being inspected? If not, what is the justification for limiting the inspection scope? This justification should include a description of the relative alignment of the tube u-bend planes among the different SGs. Are they parallel to one another, or are they at different angles relative to one another? The staff notes that the SGs are not axi-symmetric. For example, the AVBs support the u-bends in the direction normal to the plane of the u-bend, but not against in-plane motion. So, depending on the ground motion, the tube bundles of the different SGs may respond differently depending on how each SG is oriented relative to the ground motion. If the plane of the u-bends are not parallel among the SGs at the site, how has this been taken into account in selecting the most limiting SG or SGs for inspection? If differences in the condition of the SG (or SGs) and its components are noted relative to earlier inspections, what criteria will apply in determining whether the inspection should be expanded to any remaining uninspected SGs?

From: Murphy, Martin
Sent: Wednesday, September 14, 2011 12:59 PM
To: Murphy, Emmett
Subject: FW: Questions/Issues related to North Anna Seismic Event
Importance: High

Can you formulate the questions on the SGs by 2:30 based upon the thoughts you laid out for Cecil?

From: Khanna, Meena
Sent: Wednesday, September 14, 2011 12:14 PM

P/136