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**From:** Barkley, Richard  
**Sent:** Wednesday, January 11, 2012 10:31 AM  
**To:** 'Debbie Grinnell'  
**Subject:** RE: Simple Description of a Generator Stator Cooling System

Hope this helps – I have to shift now to answering the letter from your organization.

1) In May 2006 NextEra did a rewinding of the stator..was the rewinding a possible cause or just a coincidence.

NextEra is looking at the root cause and ways to mitigate this problem going forward, but the past rewinding of the stator strikes me as a pure coincidence versus a cause. Since we focus our time and resources on safety equipment (which this is not), we don't follow such issues very closely.

2) More likely, the cause is an automatic runback to a lower power level as the temperature leaving the stator is too high? Why?

I am told that the plant did not have any automatic runback related to this issue. Think of this system as having a temperature gauge like your car's cooling system. They took it to their mechanic when it read above normal – You don't wait until the coolant system completely overheats and damages your engine (or the generator in their case). To do the cleaning work, they have to lower the power of the generator (and thus the rate at which it generates heat).

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