

From: Richard Barrett *NRR*  
To: Chung, Jin; Reinhart, F. Mark *NRR*  
Date: 11/27/01 1:11PM  
Subject: Re: Fwd: DAVIS-BESSE OPERATING TEMPERATURE CHANGE

Davis-Besse claims that the temperature reduction would result in a 16% reduction in growth rate. So, if our Dec 31 date would allow one unit of crack growth (one month at 605 degrees) and their original March 31 date would allow 4 units of crack growth (four months at 605 degrees), then their new proposal of Feb 16 at reduced temperature would allow 2.1 units of crack growth (2.5 months at .84 times the growth rate). That's a pretty good compromise.

--Rich

>>> F. Mark Reinhart 11/27/01 12:48PM >>>  
Jin,

Let's think about this a minute. If the reduction would be 0.8 degrees per month, and Oconee generated about a 50 degree (or a bit less) circumferential crack in 7 months, would this equate to a rate reduction of 5.6/50 or about an 11% reduction in growth rate?

The good result I see is that Davis-Besse is reducing head temperature and taking compensatory measures NOW and proposing to shut down 1.5 months later that we asked. That's about 3 months at "improved" conditions. In the other scenario, they would continue to run as normal until the end of December.

Mark

>>> Jin Chung 11/27/01 12:02PM >>>  
Here is the information on expected change of the crack propagation by decreasing the operating temperature.

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