AmerenUE's Response to
State of MO - Atty General Data Request
MPSC Case No. ER-2007-0002
AmerenUE's Tariff Filing to Increase Rates for Electric Service
Provided to Customers in the Company's Missouri Service Area

Requested From: Mike Brosch

Data Request No. AG/UTI-189

Ref: Direct Testimony of Charles D. Naslund, page 9 (Callaway Relicensing) According to Mr. Naslund's testimony, ¿The single most critical consideration in determining whether or not relicensing may be feasible is the condition of the reactor vessel itself. Extensive monitoring is in place to measure neutron embrittlement of the vessel wall.¿ Please respond to the following:
a. Based upon available information to date, does Mr. Naslund or AmerenUE believe that the condition of the Callaway reactor vessel compares unfavorably to the condition of the Wolf Creek reactor vessel?
b. If your response to part (a) is affirmative, please explain each measure of embrittlement or other condition that is worse for Callaway than known conditions at Wolf Creek.
c. Using available qualitative and quantitative monitoring information for Callaway, how does the current condition of the reactor vessel compare to existing NRC standards for license extension?

Response:

a) Callaway's reactor vessel is periodically surveiled through a capsule specimen surveillance program. Callaway's most recent surveillance results show shelf life energies that equate to a vessel life good for greater than 80 years. We are not aware of Wolf Creeks vessel status.

b) See response to item a.

c) As noted in item a. above, Callaway's reactor vessel is good for greater than 80 years life meeting the NRC standard for relicensing the vessel for 60 years use. While the reactor vessel proper is acceptable, the alloy 600 welds on the bottom mounted instrument tubes penetrating the vessel bottom will have to be mitigated by weld overlays. In addition, the reactor vessel alloy 600 nozzle welds will also have to be mitigated with weld overlays before relicensing can be pursued. Finally the reactor vessel head for Callaway's vessel will have to be replaced due to numerous high stress alloy 600 weld penetrations in the head. Reactor vessel head replacement will be required before license extension will be accepted.

Prepared By: Charles Naslund
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Date: November 22, 2006