## Ortalan, Emin

Subject: Location:	Containment testing method for EC 75221 trailer 1 confirm
Start: End:	Mon 2/1/2010 1:00 PM Mon 2/1/2010 2:00 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer: Required Attendees:	Ortalan, Emin Pugh, C-Glenn; Portmann, Rick; Holliday, John; Knott, Ronald; Souther, Martin; McEwan, Ken; Tolan, Brent; Powell, Sid; Hill, Howard(CR3); Fagan, Paul

To discuss the path to take based on our licensing basis

ASME Section XI, Par. IWL-5220 states that the post-repair pressure test is to be done at design basis accident pressure, P<sub>a</sub>. However, since the reactor building design is modified to some extent by the repair work (the original concrete in the restored composite wall is effectively fully pre-stressed while the new concrete is partially pre-stressed), it could be concluded that the conduct of the pressure test is more properly governed by Section III, Division 2 than by Section XI. Division 2 Par. CC-6110 specifies that the pressure test is to be done at 1.15 times the design pressure. In the first case, test pressure is 54 psig. In the second, it is 63.3 psig.

If the requirements of Section XI are determined to govern, the code pressure test and the ILRT will be concurrent activities with the time at pressure determined by the leakage test. If Division 2 is determined to govern, the ILRT will follow the structural test and overall test duration will be extended. The extension results from an ANSI / ANS 56.8 (containment leakage testing standard, a 10CFR50, Appendix J sub-tier reference) requirement that the ILRT can be done following the SIT only after pressure has been reduced below 0.85 P<sub>a</sub> for a minimum of 24 hours (a precaution against leakage being masked by release of air compressed into concrete voids and other volumes with small openings at the higher SIT pressure). The added test duration will be on the order of 36 hours.

The decision as to whether Section XI or Section III, Division 2 is invoked for the post-repair pressure test involves technical, administrative and regulatory considerations. A dialog on this issue should be initiated and a decision made in the near future to facilitate planning for test work.