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**Subject:** AP1000 OI 14.2-1.z Followup Question  
**Creation Date:** 08/15/2003 5:34PM  
**From:** Joelle Starefos

**Created By:** JLS1@nrc.gov

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OI 14.2-1.z.wpd	4818	08/15/03 05:29PM
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**From:** Joelle Starefos  
**To:** Corletti, Mike  
**Date:** 08/15/2003 5:34PM  
**Subject:** AP1000 OI 14.2-1.z Followup Question

Mike,

Please see the attached followup question that was identified during our review associated with open item 14.2-1. If you need any further information or would like to have a discussion with the reviewer, please contact me.

Thanks, Joelle

Joelle L. Starefos  
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**CC:** Colaccino, Joseph; Segala, John

**Open Item 14.2-1.z**

Refer to the AP1000 Design Control Document (DCD), Section 14.2.9.1.9, Reactor Vessel Internals Vibration Testing:

In the "Prerequisites" paragraph, DCD Table 3.9-4 is referenced for the specified locations of test instrumentation used for the reactor internals vibration measurement program. However, WCAP-15949-P, Table 7-1, also specifies transducer locations and types to be used for the AP1000 internals vibration measurement program, and is not completely consistent with DCD Table 3.9-4 regarding the number and locations of transducers required.

Please provide the following clarifications and appropriate revisions:

- 1) Identify which set of transducer numbers and locations, either DCD, Table 3.9-4 or WCAP-15949-P, Table 7-1, is intended for the AP1000 internals vibration measurement program.
- 2) Provide appropriate corrections to the DCD and WCAP to eliminate any inconsistencies.
- 3) In the "General Test Method and Acceptance Criteria" paragraph in DCD Section 14.2.9.1.9, provide a cross reference to WCAP-15949-P, Section 7, to ensure that the additional preoperational test criteria for the reactor internals vibration measurement program specified in the WCAP document is included in the Initial Test Program description.

Reference: AP1000 Design Control Document (DCD), APP-GW-GL-701 Rev.3, dated January 2003.

AP1000 WCAP-15949-P, "AP1000 Reactor Internals Flow-Induced Vibration Assessment Program," Revision 1, dated July 2003