Request for Additional Information No. 31, Revision 0

7/18/2008

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 05.04.07 - Residual Heat Removal (RHR) System
Application Section: FSAR Ch 5

QUESTIONS

05.04.07-1

Two valves were identified from the RHRS on the P&ID schematic which were not included in Table 2.2.3-1 and/or Figure 2.2.3-1. The valves should be part of ITAAC because they are in the primary flow path or support the safety related functionality of the RHR system. The valves identified are 30JNA*0 AA006 & 30JNA*0AA191 (where * = trains 1 through 4).

Please provide the justification to exclude the two valves from the ITAAC program (Table 2.2.3-3); if not, include the valves in Table 2.2.3-1 and Figure 2.2.3-1.

05.04.07-2

In FSAR 5.4.7.1 it is stated that pump suction lines are self venting. No loop seals are expected to occur; however, it appears that there will be loop seals in both LHSI and MHSI suction lines and that venting capability may be needed. Please justify why a venting capability for the suction lines was not included. If venting will be added, modify the FSAR and provide isometric layout drawings.

05.04.07-3

FSAR p. 5.4-32: SIS/RHRS evaluation makes a reference to Table 6.3-6 SIS piping, which do not contain piping data. Please provide the correct reference.

05.04.07-4

In FSAR 5.4.7.2, p. 5.4-30 it is stated that the SIS/RHRS trains are qualified to appropriate seismic qualification criteria. Please provide reference to the appropriate section of the FSAR that describes the qualification.