

4.0 Reactor

4.1 Summary Description

The information in this section of the reference ABWR DCD, including all subsections and figures, is incorporated by reference with the following supplement. A computer code that is used for analysis of reactor internal components is added to Section 4.1.4.1.

4.1.4.1 Reactor Internal Components

Computer codes used for the analysis of the internal components are as follows:

(10) ACSTIC2

4.1.4.1.10 ACSTIC2

ACSTIC2 is a Westinghouse computer code which is used for predicting the amplitudes of pump-induced acoustic pressures in fluid-handling systems using a node-flow path discretization methodology and a harmonic analysis algorithm. The pump is represented as what has been referred to in the literature as a “volumetric forcing function.” With this program, the fluid system is broken into nodes (pressure) and flow paths (mass flow), the latter connecting the former in multi-dimensional arrays or networks. The computer code is used to calculate pump-induced pressure pulsation loads on reactor internals.

