

## **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.

