

## 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 no ~~departures or the following~~ supplements. 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.

