

## 19B Resolution of Applicable Unresolved Safety Issues and Generic Safety Issues

The information in this appendix of the reference ABWR DCD, including all subsections and tables, is incorporated by reference with the following departures and supplement.

STD DEP T1 2.14-1

STD DEP 8.3-1

### 19B.2 Safety Issues

#### 19B.2.11 A-35: Adequacy of Offsite Power System

STD DEP 8.3-1

##### Resolution

The ABWR onsite power systems are described in Section 8.3, and include three redundant and independent ~~6.9kV~~4.16kV Class 1E safety buses. The incoming source breakers trip upon loss of normal power, and emergency power is provided to each Class 1E bus by separate and independent diesel generator (DG) units. A combustion turbine generator automatically assumes the plant investment protection loads, but can be used to manually provide back-up power for any Class 1E bus, should a DG fail or be out of service.

#### 19B.2.18 A-48: Hydrogen Control Measures and Effects of Hydrogen Burns on Safety Equipment

STD DEP T1 2.14-1

##### Acceptance Criteria

An inerted containment ~~and the provision for permanently installed hydrogen recombiners are~~ is acceptable as a hydrogen control measures.

##### Resolution

The issue of a large amount of hydrogen being generated and burned within containment was resolved as stated in the NRC document SECY 89-122 dated April 19, 1989 (Reference 19B.2.18-3). This issue covers hydrogen control measures for recoverable degraded core accidents for all BWRs. Extensive research in this area has led to significant revision of the Commission's hydrogen control regulations, given in 10 CFR 50.44, published ~~December 2, 1981~~ September 16, 2003.

#### 19B.3.1 COL Applicant Safety Issues

The following standard supplement addresses COL License Information Item 19.28

All information in Appendix 19B that refers to COL Applicant is addressed in FSAR 1.9S.

### **19B.3.2 Testing of Isolators**

The following standard supplement addresses COL License Information Item 19.28a.

The inspection and test program for fiber optic-type isolators used between safety-related and non-safety-related systems and will be established prior to fuel loading. If other types of isolators are used (those subject to electrical leakage due to maximum credible electrical faults), the required testing, inspection and replacement guidance will be developed prior to fuel loading (COM 19B-1).