18E ABWR Human-System Interface Design Implementation Process

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

STD DEP T1 3.4-1 (Table 18E-1, Item (V)(2)(d)).

STD DEP 1.8-1 (Table 18E-1, Item (V)(1)(a)(vi)).

Table 18E-1 Human Factors Engineering Design Team and Plans

(V) Task Analysis Implementation Plan

(1) (Satisfaction of the requirements presented herein shall result in the creation of a Task Analysis Implementation Plan which is in full compliance with the Item 4.a Acceptance Criteria presented in Table 3.1 of the Tier 1 Design Certification material for the GE ABWR design). The Task Analysis Implementation Plan shall establish:

(a) The methods and criteria for conduct of the task analysis which are consistent with accepted HFE practices and principles. Within the context of performing task analysis, accepted HFE methods and criteria are presented in the following documents:

(vi) ~~*MIL-STD-1478, Task Performance Analysis, (Dept. of Defense)*~~ Not used

(2) The Task Analysis Implementation Plan shall include:

(d) The methods for identification of critical tasks. The identified critical tasks shall include, at the minimum; those operator actions which have significant impact on the PRA results, as presented in Section 19D.7, and; the operator actions to isolate the reactor and inject water for the postulated event scenarios of a common mode failure of the Safety System Logic and Control System and/or the essential ~~*Multiplexing System*~~ communications function *concurrent with a design basis main steamline, feedwater line or shutdown cooling line break LOCA.*