

| No. | ITAAC Category/Type | Design Commitment | Inspections, Tests, Analyses | Acceptance Criteria |
|---|--|---|--|--|
| H01 | <u>Design Acceptance Criteria</u> Human Factors Engineering/Main Control Room Design | The Control Room design incorporates human factors engineering principles that minimize the potential for operator error. | An Integrated System Validation (ISV) test will be performed in accordance with the Verification and Validation Implementation Plan. | An Integrated System Validation Report exists and concludes that acceptance criteria associated with each test scenario are satisfied upon initial performance of the scenarios or upon remediation of failures. |
| <p><u>Tier 2 Section 14.3 Discussion</u></p> <p>Section 18.x describes the Integrated System Validation (ISV), which provides a comprehensive performance-based assessment of the design of the Human-System Interface (HSI) resources, based on their realistic operation within a simulator-driven main control room (MCR). The ISV is part of the overall Human Factors Engineering (HFE) program.</p> <p>An ISV test is performed in accordance with the Verification and Validation Implementation Plan. The ISV uses a representative set of scenarios to assess the usability of the MCR and HSI resources and the tolerance of or susceptibility to error. The acceptance criteria associated with each test scenario are satisfied upon initial performance of the scenarios or upon remediation of failures.</p> | | | | |

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| H02 | <u>As-built Inspection</u> Human Factors Engineering/Main Control Room | The as-built Control Room human-system interface is consistent with the final design specifications validated by the Integrated System Validation test. | An inspection will be performed of the as-built configuration of main control room Human System Interfaces. | The as-built configuration of main control room Human System Interfaces is consistent with the as-designed configuration of main control room Human System Interfaces as modified by the Integrated System Validation Report. |
| <p><u>Tier 2 Section 14.3 Discussion</u></p> <p>Section 18.x describes the implementation of HFE aspects of the plant design. An ITAAC inspection is performed to verify that the as-built configuration of main control room Human System Interfaces is consistent with the as-designed configuration of main control room Human System Interfaces as modified by the Integrated System Validation Report.</p> | | | | |