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**The TEXT indicated with < > is to be selected or filled in by the Specifier to meet the requirements of the project.**

**If any of the SECTIONS (i.e. 1.02, 1.03, etc.) below are not required for the project do NOT delete the Section, but rather change the title of the Section to “NOT USED” (i.e. 1.02 NOT USED) so that numbering of specification references is preserved, and delete the specification language in this Section below the title.**

## **PART 1 GENERAL**

### 1.01 SECTION INCLUDES

- A. Field performance tests.
- B. Submittals.

### 1.02 FIELD PERFORMANCE TESTS

- A. Notify UTILITIES <and Engineer> when Work is considered to be complete, in operating condition, and ready for inspection and tests.
- B. UTILITIES <and Engineer> will conduct tests it deems necessary to determine if equipment or system functions properly.
- C. If any equipment or system fails to function properly, CONTRACTOR shall make necessary corrections, including replacement, at no cost to UTILITIES, and after such corrections are completed, demonstrate to UTILITIES <and Engineer> that equipment or system functions properly.
- D. If equipment or system fails to function properly, or guaranteed performance is not indicated, CONTRACTOR shall make necessary corrections, including replacement, at no cost to UTILITIES, and after such corrections are completed, demonstrate to UTILITIES <and Engineer> that the equipment or system functions properly and guaranteed performance has been obtained.
- E. After system or equipment necessary for operation of Work has been demonstrated to operate as required by the Contract Documents, CONTRACTOR shall supervise operation of equipment or system for period sufficient to assure proper functioning, and make necessary observations, investigations, and adjustment.
- F. CONTRACTOR shall notify UTILITIES <and Engineer> when Work is considered to be complete, in operating condition, and ready for inspection and tests.
- G. UTILITIES <and Engineer> will conduct tests it deems necessary to determine if equipment or systems function properly.
- H. If equipment or systems fail to function properly, CONTRACTOR shall make necessary corrections, including replacement, at no cost to UTILITIES, and after such corrections are completed, demonstrate to UTILITIES <and Engineer> that the equipment or system functions properly.
- I. If equipment or systems fail to function properly, or guaranteed performance is not indicated, CONTRACTOR shall make necessary corrections, including replacement, at no cost to UTILITIES, and after such corrections are completed, and demonstrate to UTILITIES <and Engineer> that the equipment or system functions properly and guaranteed performance has been obtained.

- J. UTILITIES <and Engineer> intends to conduct, simultaneously, performance tests on all heat cycle and electric generating equipment components. These include the steam generator, turbine-generator, condenser, feedwater heaters, and related equipment.
- K. These performance tests will be scheduled as soon as practicable but not later than <90> <120> <\_\_> days after all associated equipment has been placed in "on-line" generating service and proved capable for continuous normal operation. Shutdowns of limited duration for normal operational checks, inspections, and adjustments will not be considered as causing equipment to be incapable of continuous operation.
- L. Delayed testing:
1. If any individual equipment component or portion of Work is operable but is not declared ready for testing within the time limit stated above and cannot be tested during initial scheduled performance tests, UTILITIES will conduct delayed performance tests as soon as reasonably possible under the circumstances.
  2. All costs incidental to conducting delayed performance tests, except for UTILITIES' operating personnel, shall be borne by CONTRACTOR.
- M. Performance tests:
1. <UTILITIES and Engineer> <CONTRACTOR> will coordinate and schedule for all performance tests. Upon establishment of test schedule, all parties will give minimum of <10> <\_\_> days' notice prior to performing tests.
  2. UTILITIES <and Engineer> will conduct such performance tests as are deemed necessary by UTILITIES <and Engineer> to establish that equipment components function properly and that performance guarantees are met.
  3. <UTILITIES will furnish fuel, water, and operating personnel for tests.>
  4. CONTRACTOR shall witness tests and assist in their performance.
  5. All costs for initial performance tests, except for costs of CONTRACTOR's personnel or as specified in the Contract Documents will be borne by UTILITIES.
- N. If guaranteed performance is not achieved in initial or delayed performance tests, CONTRACTOR shall make necessary changes and adjustments to equipment at no cost to UTILITIES and notify UTILITIES <and Engineer> when ready for retesting or supplemental testing.
- O. Retesting or supplemental testing:
1. UTILITIES <and Engineer>, after giving notice to CONTRACTOR, will perform retesting or supplemental testing it deems necessary to further check performance of equipment.
  2. All costs associated with such retesting or supplemental testing, except for costs of fuel, water, and UTILITIES' operating personnel, shall be borne by CONTRACTOR.
  3. UTILITIES <and Engineer> will invoice CONTRACTOR for all costs incurred as a result of the retesting or supplemental testing, except as noted herein.
- P. If CONTRACTOR disagrees with the accuracy of test results and considers tests of greater refinement necessary or desirable, UTILITIES, at CONTRACTOR's request, may direct that further tests be performed. If so directed:
1. CONTRACTOR shall make arrangements and provide facilities necessary for performance of tests.
  2. <UTILITIES will furnish fuel, water, and operating personnel for tests.>
  3. CONTRACTOR shall witness and assist in performance of tests.
  4. UTILITIES shall reimburse CONTRACTOR for the actual cost of labor and materials resulting from providing and installing testing facilities only, as listed on an itemized statement of costs to be submitted by CONTRACTOR, only if the ASME Power Test Codes tests reveal that equipment is performing in accordance with the performance guarantees.
  5. If ASME Power Test Codes tests indicate that equipment is not performing in accordance with guarantees, all costs related to the further testing in accordance with the ASME Power Test Codes (including costs of UTILITIES <and Engineer>) except for fuel, water, and UTILITIES' operating personnel, shall be borne by CONTRACTOR.

- Q. CONTRACTOR shall pay all invoices submitted by UTILITIES to CONTRACTOR for delayed testing, retesting and supplemental testing directly to UTILITIES within <30> <\_\_> days from issuance of the invoice by UTILITIES. CONTRACTOR's failure to pay such invoices shall be cause for withholding an amount equal to such invoice in CONTRACTOR's next Application for Payment.
1. Engineer's costs, when applicable, will be determined at Engineer's current per diem rates included in the contract between UTILITIES and Engineer, plus direct expenses.

**PART 2 PRODUCTS**

NOT USED

**PART 3 EXECUTION**

3.01 SUBMITTALS

- A. Submittals to be provided by the CONTRACTOR shall include but are not limited to the following:
1. Field Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

END OF SECTION