SECTION **01 91 27**

**COMMUNICATIONS COMMISSIONING**

1. GENERAL
   * + 1. RELATED DOCUMENTS
          1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
       2. SUMMARY
          1. Section includes the contractor commissioning responsibilities.
          2. Related Sections:

Materials, Equipment and Systems included in commissioning scope are identified in other Division 23 Specification Sections:

Section 01 91 00 Commissioning

Section 01 91 07 Building Envelope Commissioning

Section 01 91 21 Fire Suppression Commissioning

Section 01 91 22 Plumbing Commissioning

Section 01 91 23 HVAC Commissioning

Section 01 91 26 Electrical Commissioning

Section 01 91 28 Electronic Safety and Security Commissioning

Section 01 77 00 Closeout Procedures

Section 01 79 00 Demonstration and Training

* + - * 1. Additional Demonstration and Training requirements for commissioned materials, equipment and systems are defined in Section 01 91 79 Demonstration and Training for Commissioned Systems.

1. PRODUCTS
   * + 1. TEST EQUIPMENT
          1. As specified in Section 01 91 00 Commissioning.
2. EXECUTION
   * + 1. COMMISSIONED SYSTEMS
       2. REPORTS, CHECKLISTS AND TESTS
          1. In addition to specific reports, checks and tests identified in each Division 27 specification sections, the table below identifies commissioned materials, equipment and systems that require the Receiving Reports (RR), Prefunctional Checks (PFC) and Functional Performance Testing (FPT).

| Material/Equipment /System | Section | RR | PFC | FPT | Notes |
| --- | --- | --- | --- | --- | --- |
| Communications General | 27 00 10 | NR | NR | NR |  |
| Communications Performance Verification | 27 00 90 | NR | Req | Req |  |
| Structured Cabling Systems | 27 10 00 | NR | Req | Req |  |
| Broadband Cabling Systems | 27 11 00 | NR | Req | Req |  |
| Projection Screens | 27 41 14 | NR | Req | Req |  |
| Audio Visual General | 27 40 10 | NR | Req | Req |  |
| AV Performance Verification | 27 40 90 | NR | Req | Req |  |
| Audio Systems | 27 41 10 | NR | Req | Req |  |
| Video Systems | 27 41 11 | NR | Req | Req |  |
| Media Control Systems | 27 41 12 | NR | Req | Req |  |
| Projection Screens | 27 41 14 | NR | Req | Req |  |
| Distributed Antenna System (DAS) | 27 53 19 | NR | Req | Req |  |
| Integrated Testing |  |  |  | Req |  |

* + - 1. FUNCTIONAL PERFORMANCE TESTS
         1. Georgia Tech requires 100% end-to-end testing of cabling which is not to be performed by the CxA. The CxA shall only be required to review the testing results and include those final results in the Final Commissioning Report.
         2. Audio/Visual, Functional Testing in accordance with NFPA 3. AV Installation Handbook: Best Practices For Quality Audiovisual Systems, Second Edition, Infocomm International (www.infocomm.org.) Appendix J: Audiovisual Systems Commissioning Tests Checklist dated November 20, 2008.

Available online at: <http://www.google.com/url?sa=t&rct=j&q=&esrc=s&frm=1&source=web&cd=1&cad=rja&ved=0CB4QFjAA&url=http%3A%2F%2Fwww.infocomm.org%2Fcps%2Frde%2Fxbcr%2Finfocomm%2FAV_SystemsCommissioningTestsChecklist.pdf&ei=emKNUMOfGMGa0QWahYDwCw&usg=AFQjCNGsUg8o4WJDx5GITsACaKoZt3R5fw>

* + - * 1. Schedule functional tests a minimum of two weeks before building acceptance. Ensure the communications rooms have operational permanent air conditioning and electrical, rooms are clean of all construction materials and dust free. The owners testing agent will not test the communications system until these conditions are met.

END OF SECTION