

**BY ORDER OF THE COMMANDER  
AIR FORCE SPACE COMMAND**



**AIR FORCE SPACE COMMAND  
INSPECTION CHECKLIST 32-19**

**1 AUGUST 2003**

**Civil Engineering**

**CRITICAL UTILITIES**

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This checklist reflects Command requirements for Civil Engineer units to prepare for and conduct internal reviews.

### **SUMMARY OF REVISIONS**

This checklist has been revised to improve the effectiveness of the publication and to update cited references. Most changes involve reference updates in the area of Uninterruptible Power Supply Systems. A bar ( | ) indicates a revision from the previous edition. Title change reflects chronological order of checklist.

1. References have been provided for each critical item. Critical items have been kept to a minimum and are related to public law, safety, security, fiscal responsibility and/or mission accomplishment. While compliance with non-critical items is not rated, these items help gauge the effectiveness/efficiency of the function.
2. This publication establishes a baseline checklist. This checklist is used by the Command IG to evaluate critical utility systems supporting AFSPC missions as outlined in AFI 90-201\_AFSPCSUP1, *Inspector General Activities*, Para A4.2.2.2.5. Use the attached checklist as a guide only. Add to or modify each area as needed, but not less stringent than the specified reference to ensure an effective and thorough review of the unit.

CORNELIUS J. CARMODY, Col, USAF  
Director of Mission Support

**ATTACHMENT 1**  
**CRITICAL UTILITIES**

**Table A1.1. Checklist.**

<b>SECTION 1: CRITICAL UTILITIES</b>			
<b>MISSION STATEMENT:</b> Sustain and restore mission critical utilities during and after outages, contingencies, disasters or hostilities.			
<b>NOTE:</b> All references are from AFI10-211, <i>Civil Engineer Contingency Response Planning</i> ; AFSPCI32-1010, <i>Utility Outage and Incident Reporting</i> ; AFI32-1062, <i>Electrical Power Plants and Generators</i> ; AFI32-1063, <i>Electric Power Systems</i> ; AFI32-1065, <i>Grounding Systems</i> ; NFPA 780, <i>Standard for Installation of Lightning Protection Systems</i> .			
<b>1.1. CRITICAL ITEMS:</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
1.1.1. Are key mission facilities addressed in priority order for sustained and survivable energy support IAW the Civil Engineer Contingency Response Plan? (AFI10-211)			
1.1.2. Are non-power production personnel (users) trained to operate emergency power generators? (AFI32-1062, Para 3)			
1.1.2.1. Are user personnel trained annually or more often as required? (AFI32-1063, Para 1.10)			
1.1.2.2. Does training include safe operation of electrical power systems? (AFI32-1063, Para 1.10)			
1.1.3. Have operating procedures been developed and posted for each emergency power generator? (AFI32-1062, Para 4.4)			
1.1.3.1. Is generator emergency stopping and shutdown of runaway engines detailed in the operation procedures? (AFI32-1062, Para 4.4)			
1.1.4. Did the Uninterruptible Power Supply sustain mission load? (AFSPCI32-1010, Attachment 1)			
1.1.5. Are the Lightning Protection Systems properly installed and maintained? (AFI32-1065 and NFPA 780)			
1.1.6. Do mission critical utilities have enough capacity/redundancy to sustain utility availability requirements? (AFSPCI32-1010 Attachment 1)			
1.1.7. Are maintenance/operations personnel trained on the operation of Uninterruptible Power Supply systems? (AFI32-1063, Para 1.10)			
1.1.8. Are emergency power generators tested monthly using the actual connected load (AFI 32-1063, Para 7.1)?			

<b>CRITICAL ITEMS (Cont):</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
1.1.9. Are automatic transfer switches exercised according to manufacturer's instructions and as a part of monthly generator load testing (AFI 32-1063, Para 7.4)?			
1.1.10. Are emergency power generators available to support prioritized Contingency Response Plan facilities? Are these generators properly exercised (AFI 32-1063, Para 7.2)?			
1.1.11. Are pre-disaster and post-disaster resource requirements available for restoration of utility systems (AFI 10-211, Para 2.2.3)?			
<b>1.2. NON-CRITICAL ITEMS:</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
1.2.1. Are the utility outage databases maintained by each Space Wing being analyzed to determine annual utility availability? (AFSPCI32-1010)			
1.2.2. Is Power Conditioning Continuation Interface Equipment accounted for on a Custodian Account and Custodian Report Log? (AFI32-1063, Para 2)			