

Functional Performance Test

[Project Name]

System: **Variable Air Volume Unit** Tag: **VAV-**

Service:

<i>Functional Performance Test</i>	<i>Pass</i>	<i>Fail</i>	<i>Remarks</i>
FPT Prerequisites			
SVC completed, signed, and dated			
TAB report completed & provided			
Safeties/Alarms			
Room High limit temperature alarm			
Alarm sent to BAS			
Reset alarm			
Room Low limit temperature alarm			
Alarm sent to BAS			
Reset alarm			
High limit terminal unit CFM alarm			
Alarm sent to BAS			
Reset alarm			
Low limit terminal unit CFM alarm			
Alarm sent to BAS			
Reset alarm			
High limit supply air discharge air temperature alarm			
Alarm sent to BAS			
Reset alarm			
Low limit supply air discharge air temperature alarm			
Alarm sent to BAS			
Reset alarm			
Demonstrate high limit discharge air 105°F setpoint reached			
Alarm sent to BAS			
Terminal controller limits DAT by throttling back control valve to maintain high limit DAT			
Reset alarm			
Return to original settings			
Occupied Mode			
Place AHU in Operation Mode			
Demonstrate call for cooling from zone thermostat			
Damper modulates between minimum and maximum air flow to maintain CFM			
Zone temperature setpoint maintained			
Demonstrate further call for cooling			

"This Functional Performance Test document represents FCG's standard test protocol, basic functional test, and FCG's best understanding of the designed sequence of operation. This document DOES NOT define design intent, supersede contract documents, or direct means and methods."

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Occupied Mode (continued)			
Damper modulates to maintain CFM			
CFM setpoint maintained			_____
Demonstrate call for heating from zone thermostat			
Damper modulates to minimum position to maintain CFM			
Hot water valve modulates to maintain space temperature			
Minimum CFM setpoint maintained			_____
Demonstrate temperature 2°F below room temperature setpoint			
Reheat valve modulates to maintain setpoint			
Zone temperature setpoint maintained			_____
VAV Discharge Air Temperature (DAT) monitored			
Demonstrate DAT above ____°F			
Reheat Valve modulates closed			
DAT limited to ____°F			
Monitoring Points			
Room temperature			Critical alarm
Terminal Unit CFM			
Minimum CFM			
Maximum CFM			
Heating temperature setpoint			
Heating minimum CFM setpoint			
Heating maximum CFM setpoint			
Cooling temperature setpoint			
Cooling minimum CFM setpoint			
Cooling maximum CFM setpoint			
Reheat valve			
Supply air discharge air temperature			

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Service:

Number	Date	Remark
1		Participants:
2		
3		
4		
5		
6		
7		
8		
9		
10		