

Functional Performance Test

[Project Name]

System: **Supply Fan**

Tag: **SF-Clean Rm**

Service:

<i>Functional Performance Test</i>	<i>Pass</i>	<i>Fail</i>	<i>Remarks</i>
FPT Prerequisites			
TAB complete and approved			
SVC completed, signed, and dated			
Safeties/Alarms			
High limit – room temperature alarm			
Alarm sent to BAS			
Reset alarm			
Low limit – room temperature alarm			
Alarm sent to BAS			
Reset alarm			
Supply fan – no airflow alarm			
Alarm sent to BAS			
Reset alarm			
Primary air – no airflow alarm			
Alarm sent to BAS			
Reset alarm			
HEPA filter – dirty filter alarm			
Alarm sent to BAS			
Reset alarm			
HEPA filter – high limit alarm			
Alarm sent to BAS			
Reset alarm			
Room pressure monitor – high limit alarm			
Alarm sent to BAS			
Reset alarm			
Room pressure monitor – low limit alarm			
Alarm sent to BAS			
Reset alarm			
Room pressure monitor – low limit alarm			
Alarm sent to BAS			
Reset alarm			
Relative pressure status – high limit alarm			
Alarm sent to BAS			
Reset alarm			
Air differential – high limit alarm			
Alarm sent to BAS			

"This Functional Performance Checklist 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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Reset alarm			

Safeties/Alarms (continued)			
Air differential – low limit alarm			
Alarm sent to BAS			
Reset alarm			
Demonstrate fan failure alarm issued when value is less than 0.05" WC			
Alarm generated at DDC			
Reset alarm			
Return to normal occupied operation			
Demonstrate differential pressure on laboratory supply valve exceeds 3.0" W.C.			
Alarm generated at DDC indicating a high static pressure differential			
Reset alarm			
Return to normal occupied operation			
Demonstrate differential pressure on laboratory supply valve below 0.7" W.C.			
Alarm generated at DDC indicating a low static pressure differential			
Reset alarm			
Return to normal occupied operation			
Operation Mode			
Unit in normal occupied operation			
Demonstrate setpoint below space temperature of the room thermostat			
SF-Clean Rm indexed on by central computer			
SF-Clean Rm on and running continuously			
Outside air louver damper open			
Lab supply valve reheat coil modulates to maintain setpoint			
Demonstrate setpoint above space temperature			
SF-Clean Rm on and running continuously			
Outside air louver damper open			
Place SF-Clean Rm disconnect in off position			
SF-Clean Rm off			

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Outside air louver damper closed			
Status verified			
Place disconnect in on position			
Operation Mode (continued)			
Outside air louver damper open			
SF-Clean Rm operates continuously			
Monitoring Points			
Room temperature			Critical alarm
Cooling temperature setpoint			
Heating temperature setpoint			
Supply fan			Run time, critical alarm, maintenance, staggered start
Supply fan air CFM			
Primary air CFM			
HEPA filter			Run time, critical alarm, maintenance
Reheat valve			
Room pressure monitor			
Relative pressure status (+ or -)			Critical alarm
Air diff. (for clean room & ante room)			

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

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FCG Sample Document