## **Functional Test**

	Projec	ct:						
	FT SMOKE DAMPER AIR COMPRESSOR							
1.	Participants Party			<u>Participa</u>	ation_			
	rty filling out this forr te of test			9				
a. b	ready for functional tes All control system fun	en started up a sting: Smoknetions for thi	te dampers s and all interl	orts and prefunctional check ocking systems are programs agging, loop tuning and sens	med and opera	able per contract		
d e f		ns for this equal ranges review I sequences of the attached.  The attached review to the at	nipment correct wed. f operation atta he BAS softw		is equipment.	Parameters,		
h.	hPackaged Control Program Review. Review the packaged control program(s) for this equipment.  Parameters, setpoints and logic sequences appear to follow the specified written sequences.							
	Record of All Values Schedules, Etc. Changed			Control Parameters, Limits,	Delays, Locko	outs,		
	Parameter	Pre-Test Values	Returned to Pre-Test Values √	Parameter	Pre-Test Values	Returned to Pre-Test Values √		
	Compr. ON pressure			Compr. OFF pressure				
L	BAS alarm setpoint							
4.	Sensor Calibratio sampling check of calibration IONE Device Calibration IONE	ations done dur	Check the sense ing prefunction	ors listed below for calibration al checklisting. Test the package	and adequate loged controls an	d BAS readings.		
	tes:							

Misc. site checks of the prefunctional checklist and startup reports completed successfully. Pass? Y / N	
Unit mounted securely Unit accessible for servicing No unusual noise or vibration in fan.	
Condensate accumulator or air drier functioning	

6. Functional Testing Record

. <u>Functional</u>		ionai	resung Record					
No Sp	oced. o. & pec. q. ID <sup>1</sup>	Req ID No. <sup>2</sup>	Test Procedure <sup>3</sup> (including special conditions)	Expected and Actual Response <sup>4</sup> [Write ACTUAL response in brackets or circle]	Pass Y/N & Note #			
	<b>1</b> eq. 1		Bleed off air from the system between the compressor and regulator until it reaches the setpoint (currently ON atpsi and OFF atpsi).	Compressor starts.				
	<b>2</b> eq. 1		Low Pressure Alarm. Continue bleeding air until the pressure read by the gage is equal to the BAS alarm setpoint (currentlypsi).	An alarm is registered in the BAS.  All air handlers shut OFF.				
	<b>3</b> eq. 1		Remove bleed.	Observe compressor build pressure to OFF setpoint, then shut OFF.				
	4		TREND LOG. Temporarily change the BAS Low Pressure Alarm setpoint to be 4psi above the ON compressor setpoint so an alarm will be generated every time the compressor comes ON (actually it will alarm twice, once on the way down and once on the way up). Track this for 24 hours during a week day.	Determine the compressor cycling frequency and make recommendations as to adequacy of the current design.				
	4		Return all changed control parameters and conditions to their pre-test values <sup>5</sup>	Check off in Section 2 above when completed				

-- END OF TEST --

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Record Foot Notes

1 Sequences of operation specified in Contract Documents (attached).
2 Mode or function ID being tested, per testing requirements section of the project Specifications.

<sup>&</sup>lt;sup>3</sup>Step-by-step procedures for manual testing, trend logging or data-logger monitoring.

<sup>&</sup>lt;sup>4</sup>Include tolerances for a passing condition.

<sup>&</sup>lt;sup>5</sup>Record any permanently changed parameter values and submit to Owner.