

# Planning, Design & Construction Campus Facilities

117 General Services Building Columbia, MO 65211-3200

PHONE (573) 882-1133 FAX (573) 882-1175 **Date:** 

#### **Automatic Transfer Switch Construction Checklist**

Project:							
Date:							
Building:							
Location:							
Submittal / Approvals	S						
testing. The checklist knowledge of the even checklist is submitted to A Statement of Correct	items are comp at, as marked be for approval, su tion will be sub	plete and have below, respective bject to an attacmitted upon com	ral to them are complete and ready een checked off only by parties hav to each responsible contractor. The hed list of outstanding items yet to lapletion of any outstanding areas. Note that tests being performed.  List	ing direct is construction be completed. None of the			
Electrical Contractor		Date	Controls Contractor	Date			
Other Party:		Date	General Contractor	Date			
<ul> <li>Construction checklist items are to be completed as part of startup &amp; initial checkout, preparatory to performing test procedures.</li> <li>This checklist does not take the place of the manufacturer's recommended checkout and startup procedures or report.</li> <li>If this form is not used for documenting, one of similar rigor shall be used.</li> <li>Contractors assigned responsibility for sections of the checklist shall be responsible to see that checklist items by their subcontractors are completed and checked off.</li> <li>Approvals. This filled-out checklist has been reviewed. Its completion is approved with the exceptions noted below.</li> </ul>							
Commissioning A	Authority	Date	Owner's Representative	Date			



PROJECT:

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			Panel Inforn	nation						
Panel Tag			Pane	el Locat	ion					
System / Equip			20	8-120 <b>o</b>	r	48	0-277	Normal or	Eme	ergency
Manufacturer			Mod	el Numi	oer					
Serial Number			Sho	rt Circui	t Ca	ра	city			
Volts/Phase Rating			Amp	erage F	Ratin	g				
Service Area										
Comments:										
			Associated C	hecklist	S					
Emergency Generato	r		Panels				Other			
Comments:										
Requeste	ed docum	entati	on submitted	i	Rec'	d		Commer	nts	
Manufacturer's cut she		Ciliali	on submitted	<u>'</u>		u		Comme	เเอ	
Installation and startup manual and plan										
O&M manuals		<u> </u>								
Factory test results										
Sequences and control strategies										
Warranty Certificate										
Comments:										
			Distribution Panel En	closure/0	Cabir	neti	ry			
Check if Accep	table; Pro	vide co	mment if unacceptable	е	N/	Α		Commer	ıt	
Equipment installed per specifications	manufactu	rer's ins	structions and			]				
Equipment installed agrees with shop drawings and specifications						]				
Verify mounting, location										



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Date:

Inspect for physical, electrical and mechanical condition of equipment and cabinet. No damage evident			
Inspect panels and doors for proper fit and alignment			
Equipment labels permanently affixed			
Cabinet is clean and clear of dust or dirt			
Verify the application of manufacturer recommended torque values applied to bolted connections			
Seismic anchoring installed and functional where applicable (non-short circuiting)			
Alarm contact is properly installed and wired			
Communications cable installed and connected			
Protective relays properly installed and wired (frequency, over/under voltage)			
Emergency power control system installed, powered and diagnostics performed			
Inspect insulators, barriers and shields for damage or contamination			
Verify that enclosure is properly grounded and resistance to ground meets grounding specifications			
Metering installed, properly sized for desired voltage and amperage ranges and properly wired			
Inspect mechanical linkage or tie connections – operate switch manually			
By-pass switch operates correctly in all positions			
Verify phase relationships			
ATS is exercised in auto mode without line voltage or loads applied			
Megger test of switch current carrying components – phase to phase and phase to ground. Test voltage per manufacturer's recommendations			
Operational Che	cks		
Check if Acceptable; Provide comment if unacceptable		NA	Comment
Specified sequences of operation and operating schedules have been provided with all variations documented			
Specified point-to-point checks have been completed and documentation record submitted for this system			

#### **Sensor and Actuator Calibration**

All field-installed sensors and gages, and all actuators (dampers and valves) on this piece of equipment shall be calibrated in accordance with Specification Section 01810. All test instruments shall have had a certified calibration within the last 12 months: **Y/N**\_\_\_\_\_\_. Sensors installed *in* the unit at the factory with calibration certification provided need not be field calibrated.



Location

PROJECT:

**Sensor or Actuator Tag** 

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Final Gage or

**Pass** 

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Date:

Instrument

& Location	ок	BAS Value	Measured Value	BAS Value	Y/N
			<del> </del>		<u> </u>
	+		<del> </del>	+	
Comments:					
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ı					
*Fill out all form field	ds before signing!				
				Sign	¥
Name	Organization	1 10	itle	Sign	nature
Un <sup>i</sup>	niversity of Missouri	<u>ri Commissionin</u>	g Authority		

1<sup>st</sup> Gage or