Table 140.9-A

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ATE OF CALIFORNIA		No.
OMMERCIAL KITCHEN EXHAUST SYSTEM ACCEPTANCE		
C-NRCA-PRC-02-F (Revised 12/15)	CALIFORNIA ENERGY COMMISSION	A LEGIST COMMISSION I

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CERTIFICATE OF ACCEPTANCE		NRCA-PRC-02-F
Commercial Kitchen Exhaust System Acceptance		(Page 1 of 3)
Project Name:	Enforcement Agency:	Permit Number:
Project Address:	City:	Zip Code:

Note: Submit one Certificate of Acceptance for each system that must demonstrate compliance.	Enforcement Agency Use: Checked by/Date

inten	t. Verify that diside economizers function properly
A. Cor	nstruction Inspection
1. Supp	orting documentation needed to perform test includes:
a	2013 Building Energy Efficiency Standards Nonresidential Compliance Manual (NA7.5.4 Air Economizer Controls
	Acceptance At-A-Glance).
b.	2013 Building Energy Efficiency Standards.
2. Instr	umentation to perform test includes:
a	Space differential pressure sensor
	Calibration Date:(must be within last year)
b.	Recording Analog Manometer with Pitot Tube and VelGrid
	Calibration Date:(must be within last year)
3. In	stallation: (all of the following boxes should be checked)
	Exhaust and make-up air systems and installed and fully functional.
	Demand Ventilation Control systems (if installed) are fully functional and have been set up and calibrated by the installing contactor
	For Kitchens with >5,000 cfm of Type I and Type II kitchen hood exhaust, All Type I hoods meet the requirements of

B. F	Functional Testing	Results
	following acceptance test applies to systems with and without demand control ventilation exhaust systems.	These tests shall
be c	conducted at full load conditions for each hood.	
Step	o 1: Setup:	
a.	Operate all sources of outdoor air providing replacement air for the hoods	
b.	Operate all sources of recirculated air providing conditioning for the space in which the hoods are	
_ ·	located	
c.	Operate all appliances under the hoods at operating temperatures	
Step	2: Verify the following:	
a.	Verify that the thermal plume and smoke is completely captured and contained within each hood at full	
	load conditions by observing smoke or steam produced by actual cooking operation and/or by visually	
	seeding the thermal plume using devices such as smoke candles or smoke puffers. Smoke bombs shall	
	not be used (note: smoke bombs typically create a large volume of effluent from a point source and do	
	not necessarily confirm whether the cooking effluent is being captured). For some appliances (e.g.,	
	broilers, griddles, fryers), actual cooking at the normal production rate is a reliable method of generating	
	smoke). Other appliances that typically generate hot moist air without smoke (e.g., ovens, steamers)	
	need seeding of the thermal plume with artificial smoke to verify capture and containment.	
b.	Verify that space pressurization is appropriate (e.g. kitchen is slightly negative relative to adjacent spaces	
	and all doors open/close properly).	
c.	Verify that each Type 1 hood has an exhaust rate that is at or below the maximum allowed.	

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Step 3: Make adjustments as necessary until full capture and containment and adequate space pressurization ar	e achieved and
maximum allowable exhaust rates are not exceeded. Adjustments may include: adjust exhaust hood airflow rate	s; Add hood side
panels; Add rear seal (back plate); Increase hood overhang by pushing hood back; and Relocate supply outlets to	improve the
capture and containment performance	

The f	following additional acceptance test shall be performed on all exhaust hoods with demand control ventilatio	n exhaust
syste	ms.	
Step	5: Turn off all kitchen hoods, makeup air and transfer systems	
Step	6: Turn on one of the appliances on the line and bring to operating temperature. Confirm that::	
a.	DCV system automatically switches from off to the minimum flow setpoint.	Y/N
b.	The minimum flow setpoint does not exceed the larger of: 50% of the design flow, or; the ventilation rate required per Section 120.1.	Y/N
c.	The makeup air and transfer air system flow rates modulate as appropriate to match the exhaust rate	Y/N
d.	Appropriate space pressurization is maintained.	Y/N
Step	7:	
	Press the timed override button. Confirm that system ramps to full speed and back to minimum speed after override times out.	Y/N
Step	8: Operate all appliances at typical conditions. Apply sample cooking products and/or utilize smoke	
puffe	ers as appropriate to simulate full load conditions. Confirm that:	
a.	DCV system automatically ramps to full speed.	Y/N
b.	Hood maintains full capture and containment during ramping to and at full-speed.	Y/N
c.	Appropriate space pressurization is maintained.	Y/N

C. Testing Results		PASS / FAIL	
Step 1: Smoke was fully captured?			
Step 2: All Type I hoods are drawing exhaust at less than or equal to the values in Table 140.9-A.			
Step 3: DCV and MUA system respond (all Yes).			
Step 4: Timed override works			
Step 5: DCV and MUA systems respond to full load conditions (all Yes)			

D. Evaluation
PASS: All Construction Inspection responses are complete and all Testing Results responses are "Pass"
Notes:

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COMMERCIAL	KITCHEN EXHAUST	SYSTEM ACCEPTANCE

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COMMISSION	PROPERTY LABOR.

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CERTIFICATE OF ACCEPTANCE		NRCA-PRC-02-F	
Commercial Kitchen Exhaust System Acceptance		(Page 3 of 3)	
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Project Address:	City:	Zip Code:	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT						
1. I certify that this Certificate of Acceptance documentation is accurate and complete.						
Documentation Author Name:	Documentation Author Signature:	Documentation Author Signature:				
Documentation Author Company Name:	Date Signed:					
Address:	CEA/HERS/ATT Certification Identification (If applicable):					
City/State/Zip:	ty/State/Zip: Phone:					
FIELD TECHNICIAN'S DECLARATION STATEMENT						
 I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Acceptance is true and correct. I am the person who performed the acceptance verification reported on this Certificate of Acceptance (Field Technician). The construction or installation identified on this Certificate of Acceptance complies with the applicable acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and signed by the responsible builder/installer and has been posted or made available with the building permit(s) issued for the building. 						
Field Technician Name:	Field Technician Signature:	Field Technician Signature:				
Field Technician Company Name:	Position with Company (Title):					
Address:	CEA/HERS/ATT Certification Identification (If applicable):					
City/State/Zip:	Phone:	Date Signed:				
RESPONSIBLE PERSON'S DECLARATION STATEMENT						
 I certify the following under penalty of perjury, under the laws of the State of California: I am the Field Technician, or the Field Technician is acting on my behalf as my employee or my agent and I have reviewed the information provided on this Certificate of Acceptance. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Acceptance and attest to the declarations in this statement (responsible acceptance person). The information provided on this Certificate of Acceptance substantiates that the construction or installation identified on this Certificate of Acceptance complies with the acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and is posted or made available with the building permit(s) issued for the building. I will ensure that a completed, signed copy of this Certificate of Acceptance shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Certificate of Acceptance is required to be included with the documentation the builder provides to the building owner at occupancy. 						
Responsible Acceptance Person Name:	Responsible Acceptance Person Signature:					
Responsible Acceptance Person Company Name:	Position with Company (Title):					
Address:	CSLB License:					
City/State/Zip:	Phone:	Date Signed:				