ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name: *Get Air Trampoline Park - Pomona* | Date: *12/9/2015*

DESCRIPTION

Building Envelope Measures:

§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.^{2} of window area, 0.3 cfm/ft.^{2} of door area for residential doors, 0.3 cfm/ft.^{2} of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.^{2} for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a) :	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 3 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

G. FENESTRATION PROPOSED AREAS AND EFFICIENCIES

1	2	3	4	5	6	7	8	9	10	11	12
Tag/ID	Fenestration Type	Surface Area	Orientation N, S, W, E or Roof	# of Panes	Max U-Factor	Overhang	Max (R)SHGC	Min VT	Label	Conditions Status	Comments
10	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
11	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
12	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
13	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
14	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
15	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
16	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
17	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	

H. ENVELOPE MANDATORY MEASURES

Indicate location on building plans of Mandatory Envelope Measures Note Block: ENV-MM

INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (check box if worksheet are included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Compliance Manual.

☑	NRCC-ENV-01-E	Certificate of Compliance. Required on plans for all submittals.
☐	NRCC-ENV-04-E	Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans.

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 1 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

A. GENERAL INFORMATION

1	Project Location:	S.E. Quadrant, Pomona 60 Fwy at Corona Expre	6	Compliance Method:	☑ Component ☐ Unconditioned (file Affidavit)
2	CA City and Zip Code:	Pomona, 91766	7	Building Front Orientation (deg or cardinal):	0 deg
3	Climate Zone:	10	8	Phase of construction	☐ New Construction ☐ Addition ☐ Alteration
4	Total Conditioned Floor Area:	38,560	9	Building Type(s)	☑ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
5	☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☑ Conditioned Spaces ☑ Unconditioned Spaces ☐ Skylight Area for Large Enclosed Space > 5000 ft^2 (If checked include the NRCC-ENV-04-E with submittal)				

B. ENVELOPE DETAILS – Framed

1	2	3	4	5	6	7	8	9	10	11
Tag/ID	Assembly Type	Frame Material	Frame Depth	Frame Spacing	Appendix JA4 Reference	Cavity R-value	Continuous Insulation R-value	Proposed U-Factor	Required U-Factor From Tables, B, C, D	Field Inspection Comments
1	Roof	Metal	2x12 @ 2-		4.2.5-A35	30	0.0	0.061	0.061	(E) R-30 Roof Mtl

C. ENVELOPE DETAILS – Non-framed

1	2	3	4	5	6	7	8	9	10
Tag/ID	Assembly Type	Assembly Materials	Thickness (inches)	Interior or Core Insulation R-value	Continuous Insulation R-value	Appendix JA4 Reference	Proposed U-Factor	Required U-Factor from Tables, B, C, D	Field Inspection Comments

D. ENVELOPE DETAILS – Mass

1	2	3	4	5	6	7	8	9	10	11
Tag/ID	Mass Type	Density (lb/ft^3)	Mass Thickness (inches)	Furring Strip Thickness (inches)	Interior Insulation R-value	Exterior Insulation R-value	Appendix JA4 Reference	Proposed Insulation U-factor	Required U-Factor from Tables, B, C, D	Field Inspection Comments
1	Wall	15.7			0.0	0.0	4.3.5-A9/4.3.1	0.360	0.360	(E) 8" CMU

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 1 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual
Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Form/Worksheet #	Title
☑	☐	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
☑	☐	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02A to 11A). Required on plans for all submittals.
☑	☐	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12A to 18A). Required on plans where applicable.
☑	☐	NRCC-MCH-02-E (Part 1 of 2)	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
☑	☐	NRCC-MCH-02-E (Part 2 of 2)	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
☑	☐	NRCC-MCH-03-E	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
☑	☐	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
☑	☐	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 4 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Steven Johnson	Documentation Author Signature:	Steven Johnson
Company:	Design West Engineering	Signature Date:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be 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 completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:		Responsible Designer Signature:	
Company :	Wheeler & Wheeler Architects	Date Signed:	
Address:	133 South Spring Street	License:	
City/State/Zip:	Claremont, CA 91711	Phone:	9096245095

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 2 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

E. ROOFING PRODUCTS (COOL ROOF)

1	2	3	4	5	6	7	8	9	10	11
				Proposed			Minimum Required			
Mass Roof 25 lb ft2 or greater	Roof Pitch	CRRC Product ID Number	Product Type	Aged Solar Reflectance	Thermal Emittance	SRI[2] (Optional)	Aged Solar Reflectance	Thermal Emittance	SRI (optional)	Comments
☐				☐[1]						
☐				☐[1]						
☐				☐[1]						

☐ An aged solar reflectance less than 0.63 is allowed provided the maximum roof / ceiling U-factor in TABLE 140.3 is not exceeded

☐ High-rise residential buildings and Hotels and Motels with low-sloped roofs in Climate Zones 1 through 8, 12 and 16 are exempted from aged Solar Reflectance and emittance requirements.

☐ High-rise residential buildings and Hotels and Motels with steep-sloped roofs in Climate Zones **1** and 16 are exempt from aged Solar Reflectance and emittance requirements.

☐ The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are exempt from aged Solar Reflectance and emittance requirements.

To apply **Liquid Field Applied Coatings,** the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §110.8(j)4. Select the applicable coating:

☐ Aluminum-Pigmented Asphalt Roof Coating ☐ Cement-Based Roof Coating ☐ Other _____

NOTES:

1. *Check the box if the aged Solar reflectance was not available in the Cool Roof Rating Council's Rated Product Directory, Then use the* equation in Section 110.8(j)2 where *the Initial Reflectance value from the same directory and use the equation (0.2+**B**($\rho_{Initial}$ – 0.2) to obtain a calculated aged value. Where **ρ** is the Initial Solar Reflectance and **B** is either set to 0.65 for Field-Applied Coatings or it is set to 0.70 for all other roofing products* <u>*other than*</u> *Field-Applied Coating.*
2. *Calculate the SRI Value by using the SRI-Worksheet at (TBD) and enter the resulting value in the SRI Column above and attach a copy for the SRI-Worksheet NRCC-ENV-03-E to the to this form.*

F. Air Barrier

1	2	3	4	5
NameName	Air Barrier Material Type	Air Barrier Assembly Type	Whole Building Air Leakage Testing	Comments

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 3 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

G. FENESTRATION PROPOSED AREAS AND EFFICIENCIES

1	2	3	4	5	6	7	8	9	10	11	12
Tag/ID	Fenestration Type	Surface Area	Orientation N, S, W, E or Roof	# of Panes	Max U-Factor	Overhang	Max (R)SHGC	Min VT	Label	Conditions Status	Comments
1	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
2	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
3	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
4	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
5	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
6	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
7	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
8	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	
9	Skylights	40	Roof	2	0.88	No	0.83	0.64		New	

H. ENVELOPE MANDATORY MEASURES

Indicate location on building plans of Mandatory Envelope Measures Note Block: ENV-MM

INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (check box if worksheet are included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Compliance Manual.

☑	NRCC-ENV-01-E	Certificate of Compliance. Required on plans for all submittals.
☐	NRCC-ENV-04-E	Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans.

STEVEN M. JOHNSON No. 33209 EXP. 9-30-2017 MECHANICAL STATE OF CALIFORNIA

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MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

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NO.	DATE	REVISION
1	0.28.15	PLAN CHECK SUBMITTAL
2	12.14.15	PLAN CHECK REVISIONS

WHEELER & WHEELER
ARCHITECTS
ARCHITECTURE ■ INTERIORS ■ PLANNING
133 South Spring Street, Claremont, California 91711 909-624-5095 FAX 909-621-7757
PAUL R. WHEELER AIA Architect C17180 MICHAEL A. WHEELER AIA Architect C14183

TITLE-24 COMPLIANCE DOCUMENTS

TENANT IMPROVEMENT & EXTERIOR FACADE IMPROVEMENTS for:

Get Air

S.E. Quadrant, Pomona 60 FWY at Corona Expressway
Pomona, California 91766

APN NO. 8331-016-021

DATE	JOB NO.	DRAWN BY
03.04.15	AIR-2521	SJ

DRAWING NO.
EN-0.0

15-355

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 06/14)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Wet System Requirements	(Page 3 of 3)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Steven Johnson	Documentation Author Signature:	Steven Johnson
Company:	Design West Engineering	Signature Date:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be 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 completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Steven Johnson	Responsible Designer Signature:	Steven Johnson
Company :	Design West Engineering	Date Signed:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	License:	33209
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 06/14)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Dry System Requirements	(Page 1 of 3)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

A. Equipment Tags and System Description[1]		Existing RTU Unit	New DSS for Tele	
B. MANDATORY MEASURES	***T-24 Sections***	***Reference to the Requirements in the Contract Documents[2]***		
Heating Equipment Efficiency[3]	110.1 or 110.2(a)			
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)			
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)			
Furnace Standby Loss Control	110.2(d)			
Low leakage AHUs	110.2(f)			
Ventilation[9]	120.1(b)			
Demand Control Ventilation[5]	120.1(c)4			
Occupant Sensor Ventilation Control[6]	120.1(c)5, 120.2(e)3			
Shutoff and Reset Controls[7]	120.2(e)			
Outdoor Air and Exhaust Damper Control	120.2(f)			
Isolation Zones	120.2(g)			
Automatic Demand Shed Controls	120.2(h)			
Economizer FDD	120.2(i)			
Duct Insulation	120.4			
C. PRESCRIPTIVE MEASURES				
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	Y Y/N	Y Y/N	Y/N
Supply Fan Pressure Control	140.4(c)			
Simultaneous Heat/Cool[8]	140.4(d)			
Economizer	140.4(e)			
Heat and Cool Air Supply Reset	140.4(f)			
Electric Resistance Heating[9]	140.4(g)			
Duct Leakage Sealing and Testing.[10]	140.4(l)			

Notes:
1. *Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.*
4. *Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more space is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E form.*
5. *If one or more space has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.*
6. *If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation*
7. *If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).*
8. *Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E form.*
9. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
10. *If duct leakage sealing and testing is required, a MCH-04-A form must be submitted.*

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 2 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required forms)

Test Performed By:
Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.
Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.
Enforcement Agency:
Plancheck – The NRCC-MCH-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
(N) Fujitsu AOU	1	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 1 of 2)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)							AREA BASIS				OCCUPANCY BASIS			MINIMUM		VAV Reheated Primary Air CFM				VAV Deadband Primary Air CFM			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
ROOM NAME	DESIGN PRIMARY CONDITIONING (YES/ NO)	DESIGN PRIMARY HEATING (YES/ NO)	DESIGN PRIMARY COOLING (YES/ NO)	DDC CONTROL (YES/ NO)	DESIGN PRIMARY VENTILATION (YES/ NO)	AREA (SQ FT)	AREA PER PERSON (SQ FT/ PERSON)	AREA BASED VENTILATION (CFM)	NUM. OF PEOPLE	CFM PER PERSON	AREA VENTILATION (CFM)	RESET START (DEGREES F)	RESET STOP (DEGREES F)	PRIMARY AIR CFM MAX	PRIMARY AIR CFM MIN	MINIMUM PRIMARY AIR CFM	CFM/SQ FT	DDC DEADBAND (YES/ NO)	VAV DEADBAND MIN. PRIMARY AIR CFM	CFM/SQ FT
New C						400	0.15	60	4.0	15.0	60	60	Y								
(E) Re						1,010	0.15	152	10.1	15.0	152	152	Y								
New R						685	0.15	103	6.9	15.0	103	103	Y								
Party F						2,075	0.50	1,038	138.3	7.5	1,038	1,038	Y								
New C						190	0.15	29	1.9	15.0	29	29	Y								
Tramp						34,000	0.15	5,100	340.0	15.0	5,100	5,100	Y								
											Total	6,480									
Tele. E						200	0.15	30	0.6	50.0	30	30	Y								
											Total	30									

Yellow shaded cells require user input. Remaining cells are protected and automatic
B. The largest amount of primary air supplied by the terminal unit when it's operating in the cooling mode.
C. The smallest amount of primary air supplied by the terminal unit in the deadband mode.
D. The largest amount of primary air supplied by the terminal unit when it's operating in the heating mode.
E. A terminal unit can be controlled with DDC controls, or non-DDC controls. Each control category has different reheat limitations in code.
F. Transfer Air must be provided where Required Ventilation Airflow (Column M) is greater than the Design Primary Deadband Airflow (Column C).
H. Minimum ventilation rate per Section §120.1. Table 120.1-A.
J. Based on number of fixed seats where applicable or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
M. Required Ventilation Airflow (Req'd Ventilation Airflow) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column I or L)
N. This column identifies whether or not the Design Primary Deadband Airflow complies or not. It compares the value in column M to the value in column C and column F.
O. Design Primary Cooling Airflow * 0.50 for DDC, Design Primary Cooling Airflow * 0.30 for Non-DDC. If the Design Primary Cooling Airflow is less than 300 cfm, then this is not applicable.
P. Maximum of Column M and Column O. If the Design Primary Cooling Airflow is 300 cfm or less, then this is not applicable.
Q. This column identifies whether or not the Design Primary Reheat Airflow at the zone level, complies or not. It compares the value in column P to the value in column D.
R. Design Primary Cooling Airflow * 0.20 for DDC. Not applicable for Non-DDC zones or zones where Design Primary Cooling Airflow is 300 cfm or less.
S. Maximum of Column M and Column R. Not applicable if the Design Primary Cooling Airflow is 300 cfm or less.
T. This column identifies whether or not the Design Primary Deadband Airflow at the zone level, complies or not. It compares the value in column S to the value in column C.

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 3 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required forms)

Test Performed By:
Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.
Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.
The following tests require a
Enforcement Agency:
Plancheck – The NRCC-MCH-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A
Equipment Requiring Testing or Verification	# of units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
(N) Fujitsu AOU	1	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 2 of 2)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Steven Johnson	Documentation Author Signature:	Steven Johnson
Company:	Design West Engineering	Signature Date:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be 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 completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Steven Johnson	Responsible Designer Signature:	Steven Johnson
Company :	Design West Engineering	Date Signed:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	License:	33209
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

STATE OF CALIFORNIA
HVAC WET SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 06/14)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Wet System Requirements	(Page 2 of 3)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

A. Equipment Tags and System Description[1]				
B. MANDATORY MEASURES	***T-24 Sections***	***Reference to the Requirements in the Contract Documents[2]***		
Heating Hot Water Equipment Efficiency[3]	110.1			
Cooling Chilled and Condenser Water Equipment Efficiency[3]	110.1, 140.4(i)			
Open and Closed Circuit Cooling Towers conductivity or flow-based controls	110.2(e) 1			
Open and Closed Circuit Cooling Towers Maximum Achievable Cycles of Concentration (LSI)[3]	110.2(e) 2			
Open and Closed Circuit Cooling Towers Flow Meter with analog output	110.2(e) 3			
Open and Closed Circuit Cooling Towers Overflow Alarm	110.2(e) 4			
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators	110.2(e) 5			
Pipe Insulation	120.3			
C. PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	140.4(h)2, 140.4(h)5	Y/N	Y/N	Y/N
Cooling Tower Flow Controls	140.4(h)3			
Centrifugal Fan Cooling Towers[4]	140.4(h)4			
Air-Cooled Chiller Limitation[5]	140.4(j)			
Variable Flow System Design	140.4(k)			
Chiller and Boiler Isolation	140.4(k)			
CHW and HHW Reset Controls	140.4(k)			
WLHP Isolation Valves	140.4(k)			
VSD on CHW, CW & WLHP Pumps >5HP	140.4(k)			
DP Sensor Location	140.4(k)			

Notes:
1. *Provide equipment tags (e.g. CH 1 to 3) or system description (e.g. CHW loop) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. For chillers operating at non-standard efficiencies provide the Kadj values. For chillers also note whether the efficiencies are Path A or Path B.*
4. *Identify if cooling towers have propeller fans. If towers use centrifugal fans document which exception is used.*
5. *If air-cooled chillers are used, document which exceptions have been used to comply with 140.4(j) and the total installed design capacity of the air-cooled chillers in the chilled water plant.*
6. *Identify the existence of a completed MCH-06-E \when open or closed circuit cooling towers are specified to be installed, otherwise enter "N/A".*

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 4 of 4)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Steven Johnson	Documentation Author Signature:	Steven Johnson
Company:	Design West Engineering	Signature Date:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	CEA/ HERS Certification Identification (if applicable):	
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RESPONSIBLE PERSON'S DECLARATION STATEMENT

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3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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Responsible Designer Name:	Steven Johnson	Responsible Designer Signature:	Steven Johnson
Company :	Design West Engineering	Date Signed:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	License:	33209
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

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NO.	DATE	REVISION
1	0.28.15	PLAN CHECK SUBMITTAL
2	12.14.15	PLAN CHECK REVISIONS

WHEELER & WHEELER
ARCHITECTS
ARCHITECTURE ■ INTERIORS ■ PLANNING
133 South Spring Street, Claremont, California 91711 909-624-5065 FAX 909-621-7757
PAUL R. WHEELER AIA Architect C-12180 MICHAEL A. WHEELER AIA Architect C-14483

TITLE-24 COMPLIANCE DOCUMENTS
TENANT IMPROVEMENT & EXTERIOR FACADE IMPROVEMENTS for:
Get Air
S.E. Quadrant, Pomona 60 FWY at Corona Expressway
Pomona, California 91766
APN NO. 8331-016-021

DATE	JOB NO.	DRAWN BY
03.04.15	AIR-2521	EJ

DRAWING NO.
EN-0.1

REGISTERED PROFESSIONAL ENGINEER
STEVEN M. JOHNSON
No. 33209
EXP. 9-30-2017
MECHANICAL
STATE OF CALIFORNIA

DESIGN WEST ENGINEERING
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STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

Constant Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
New DSS for Telecom - Supply Fan	0.050	85.5 %	97.0 %	1.0	64

Variable Air Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	64	W
	2) SUPPLY DESIGN AIRFLOW	540	CFM
A) If filter pressure drop (SP_p) is greater than 1 inch W. C. or 245 Pascal then enter SP_p on line 4. Enter Total Fan pressure drop across the fan (SP_t) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]		W/CFM
	4) SP_p		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_p - 1)/SP_f$		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.119	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 07/14) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 0 of 2)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

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Company:	Design West Engineering	Signature Date:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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Company :	Design West Engineering	Date Signed:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	License:	33209
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

Equipment Tag(s)[1]		Existing RTU Units		New DSS for Telecom			
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[2]	*As Scheduled*[3]	*Requirement*[2]	*As Scheduled*[3]	*Requirement*[2]	*As Scheduled*[3]
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	78% TE	81% TE	7.70 HSPF	10.00 HSPF		
Cooling Equipment Efficiency[5]	110.1 or 110.2(a)	9.5 EER	12.2 EER	13 SEER	19.2 SEER / 11		
Thermostats[6]	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback		
Furnace Standby Loss Control[6]	110.2(d)	Req	IID	n/a			
Low Leakage AHU	110.2(f)	NR	none	NR	none		
Ventilation[7]	120.1(b)	6,480	6,480	30	30		
Demand Control Ventilation[8]	120.1(c)4	NR	No	NR	No		
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable	Req	Programmable		
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto		
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none		
Economizer FDD	120.2(i)	NR		NR			
Duct Insulation	120.4	R-8	R-8.0	R-8	R-8.0		
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	836,525 Btu/h 1,247,657 Btu	1,931,800 Btu/ 1,296,544 Btu/	11,007 Btu/hr 14,678 Btu/hr	13,491 Btu/hr 16,564 Btu/hr		
Economizer	140.4(e)	Req	No Economize	NR	No Economizer		
Electric Resistance Heating[10]	140.4(g)	No	No	No	No		
Duct Leakage Sealing and Testing.[11]	140.4(l)	NR	No	NR	No		

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard in the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at >=225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 2 of 2)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

*11. If duct leakage sealing and testing is required, a **MCH-04-A** form must be submitted.*

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 1 of 3)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

MECHANICAL COMPLIANCE FORMS & WORKSHEETS (indicate if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual Note: The Enforcement Agency may require all forms to be incorporated onto the building plans. Forms NRCC-MCH-04-E and NRCC-MECH-05-E are alternative forms to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title
✔		NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.
✔		NRCC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans when used.
✔		NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.
✔		NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 2 of 3)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:

Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements. .

The NRCC-MCH-04-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance forms shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed forms before the building can receive final occupancy.

Test Description		MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	Test Performed By:
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	
(N) Fujitsu	1	✔	✔									

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 3 of 3)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Steven Johnson	Documentation Author Signature:	Steven Johnson
Company:	Design West Engineering	Signature Date:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be 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 completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Steven Johnson	Responsible Designer Signature:	Steven Johnson
Company :	Design West Engineering	Date Signed:	12/9/2015
Address:	275 W Hospitality Ln Suite 100	License:	33209
City/State/Zip:	San Bernardino, CA 92408	Phone:	909-890-3700

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: Get Air Trampoline Park - Pomona	Date Prepared: 12/9/2015

Constant Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
Existing RTU Units - Supply Fan	20.000	93.6 %	97.0 %	1.0	16,433

Variable Air Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	16,433	W
	2) SUPPLY DESIGN AIRFLOW	50,400	CFM
A) If filter pressure drop (SP_p) is greater than 1 inch W. C. or 245 Pascal then enter SP_p on line 4. Enter Total Fan pressure drop across the fan (SP_t) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]		W/CFM
	4) SP_p		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_p - 1)/SP_f$		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.326	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

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MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

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NO.	DATE	REVISION
1	02.28.15	PLAN CHECK SUBMITTAL
2	12.14.15	PLAN CHECK REVISIONS

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TITLE-24 COMPLIANCE DOCUMENTS
TENANT IMPROVEMENT & EXTERIOR FACADE IMPROVEMENTS for:
Get Air
S.E. Quadrant, Pomona 60 FWY at Corona Expressway
Pomona, California 91766

APN NO. 8331-016-021

DATE	JOB NO.	DRAWN BY
03.04.15	AIR-2521	SJ

DRAWING NO.
EN-0.2

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