

CF-1R

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD

CF-1R

Page 1

Project Title..... Mizari Room Addition

Date.....10/03/11 14:40:08

Project Address..... 217 McCadden Place

City..... Los Angeles, CA 90004

Documentation Author..... Rick Maurer

Building Permit #

Client Name..... Rick Maurer Title 24, Inc.

Plan Check / Date

Client Address..... 7544 E. Saddlehill Trail

City..... Los Angeles, CA 90048

Client Phone..... 714-711-1507

Field Check/ Date

Climate Zone..... 09

Compliance Method..... MICROPSH v8.1 for 2009 CEC Standards (v03)

User#-MP0357

User-Rick Maurer Title 24, Inc. Run-Room Addition/Remodel

MICROPSH ENERGY USE SUMMARY

Energy Use (KTDW/yr-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating.....	20.01	15.90	4.11	20.5%
Space Cooling.....	59.43	39.32	20.11	33.8%
Ventilation Fans.....	0.57	0.57	0.00	0.0%
Water Heating.....	6.05	6.03	0.02	0.3%
Total	86.06	61.82	24.24	28.2%

\*\*\* Building complies with Computer Performance \*\*\*

GENERAL INFORMATION

HERS Verification..... Not Required

Conditioned Floor Area..... 6996 sq ft

Building Type..... Single Family Detached

Construction Type..... Existing/Alteration

Design Assumptions..... Before 1978

Natural Gas at Site..... Yes

Building Front Orientation..... Front Facing 90 deg (E)

Number of Dwelling Units..... 1

Weather Data Type..... FullYear

Floor Construction Type..... Raised Floor

Number of Building Zones..... 2

Conditioned Volume..... 47052 cf

Slab-On-Grade Area..... 1361 sq ft

Slab-on-Grade Volume..... 16.1 ft of floor area

Average Glazing U-factor..... 0.65 Btu/hr-sq-ft-F

Average Glazing SHGC..... 0.54

Average Ceiling Height..... 9.6 ft

BUILDING ZONE INFORMATION

Zone Type	Floor Area (sq ft)	# of Units	Cond-Volume (cf)	Thermo-Design Type	Vent-Height (ft)	Vent-Area (sq ft)	Verified Leakage (cf/hr)
HOUSE - Existing	2908	26172	0.42	3.4	Yes	Sethack	8.0 Standard No
ADD - New (Added)	9088	40880	0.58	4.6	Yes	Sethack	8.0 Standard No

ATTIC AND ROOF DETAILS

Roof Type	Roof Mass (lb/sqft)	Roof Rise (in/12)	Roof Slope (ft/12)	Roof Eave (in)	Roof Deck (in)	Roof Vent (sq ft)	Roof Area (sq ft)	Roof Ratio	Roof High		
HOUSE - Existing	Gravel	Light	25:12	0.08	0.85	11.5	16	0.00	0.00	1/150	0.30
ADD - New (Added)	Gravel	Light	25:12	0.08	0.85	11.5	16	0.00	0.00	1/150	0.30

OPPOUR SURFACES

Surface	Frame Area (sq ft)	Roof Area (sq ft)	U-factor	Act	Shade	Location/Comments				
HOUSE - Existing	4 Wall	Wood	662	0.356	0	0	90	Yes	Non-Std	Extg. FrontWall
ADD - New (Added)	4 Wall	Wood	478	0.356	0	0	180	Yes	Non-Std	Extg. LeftWall
HOUSE - Existing	4 Wall	Wood	71	0.356	0	0	270	Yes	Non-Std	Extg. BackWall
ADD - New (Added)	4 Wall	Wood	540	0.356	0	0	90	Yes	Non-Std	Extg. RightWall
HOUSE - Existing	12 Attic	Wood	1377	0.079	11	0	0	Yes	Non-Std	Extg. Attic
ADD - New (Added)	12 Attic	Wood	1377	0.079	11	0	0	Yes	Non-Std	Extg. Attic
HOUSE - Existing	17 Floor	Wood	21	0.500	0	0	90	Yes	4.5-1.4	Front Door
ADD - New (Added)	17 Floor	Wood	21	0.500	0	0	90	Yes	4.5-1.4	Front Door
HOUSE - Existing	2 Wall	Wood	36	0.356	0	0	90	Yes	Non-Std	Extg. FrontWall
ADD - New (Added)	2 Wall	Wood	782	0.356	0	0	270	Yes	Non-Std	Extg. BackWall
HOUSE - Existing	10 Wall	Wood	82	0.356	0	0	90	Yes	Non-Std	Extg. RightWall
ADD - New (Added)	10 Wall	Wood	42	0.102	13	0	90	Yes	4.3-1.13	New Front Wall
HOUSE - Existing	5 Wall	Wood	441	0.102	13	0	180	Yes	4.3-1.13	New Left Wall
ADD - New (Added)	5 Wall	Wood	577	0.102	13	0	270	Yes	4.3-1.13	New Back Wall
HOUSE - Existing	11 Wall	Wood	477	0.102	13	0	90	Yes	4.3-1.13	New Right Wall
ADD - New (Added)	11 Wall	Wood	477	0.102	13	0	90	Yes	4.3-1.13	New Right Wall
HOUSE - Existing	13 Attic	Wood	1379	0.032	30	0	0	Yes	4.2-1.48	New/Existed Attic
ADD - New (Added)	13 Attic	Wood	1379	0.032	30	0	0	Yes	4.2-1.48	New/Existed Attic
HOUSE - Existing	16 Floor	Wood	50	0.048	19	0	0	Yes	4.2-1.48	Over Outside
ADD - New (Added)	16 Floor	Wood	50	0.048	19	0	0	Yes	4.2-1.48	Over Outside

PERIMETER LOSSES

Surface	Length (ft)	R2 Factor	Insol. R-value	Appendix J-1	Location/Comments
ADD - New (Added)	160	0.730	R-0.01n	Al	Standard Slab Edge

FENESTRATION SURFACES

Orientation	Area (sq ft)	U-factor	Act	Shade	Location/Comments	
HOUSE - Existing	2 Wind Front (E)	18.4	0.990	0.740	90	Standard FGLA23
ADD - New (Added)	3 Wind Front (E)	22.9	0.990	0.740	90	Standard FGLA23
HOUSE - Existing	31 Wind Front (E)	13.6	1.040	0.760	90	Standard FGLA25
ADD - New (Added)	3 Wind Front (E)	10.6	0.990	0.740	90	Standard FGLA25
HOUSE - Existing	7 Wind Front (E)	18.0	1.040	0.760	90	Standard FGLA27
ADD - New (Added)	7 Wind Front (E)	10.6	0.990	0.740	90	Standard FGLA27
HOUSE - Existing	11 Wind Left (E)	18.4	0.990	0.740	180	Standard FGLA23
ADD - New (Added)	11 Wind Left (E)	10.6	0.990	0.740	180	Standard FGLA23
HOUSE - Existing	12 Wind Left (E)	37.0	0.990	0.740	180	Standard FGLA23
ADD - New (Added)	12 Wind Left (E)	18.4	0.990	0.740	180	Standard FGLA23
HOUSE - Existing	14 Wind Left (E)	18.4	0.990	0.740	180	Standard FGLA23
ADD - New (Added)	14 Wind Left (E)	10.6	0.990	0.740	180	Standard FGLA23
HOUSE - Existing	18 Wind Left (E)	16.3	0.990	0.740	180	Standard FGLA23
ADD - New (Added)	18 Wind Left (E)	10.6	0.990	0.740	180	Standard FGLA23
HOUSE - Existing	20 Wind Left (E)	17.5	0.990	0.740	180	Standard FGLA23
ADD - New (Added)	20 Wind Left (E)	10.6	0.990	0.740	180	Standard FGLA23
HOUSE - Existing	30 Wind Right (E)	15.0	0.990	0.740	270	Standard FGLA23
ADD - New (Added)	30 Wind Right (E)	10.6	0.990	0.740	270	Standard FGLA23
HOUSE - Existing	51 Wind Right (E)	36.0	0.990	0.740	90	Standard FGLA23
ADD - New (Added)	51 Wind Right (E)	36.0	0.990	0.740	90	Standard FGLA23
HOUSE - Existing	1 Wind Back (E)	36.0	0.990	0.740	90	Standard FGLA23
ADD - New (Added)	1 Wind Back (E)	36.0	0.990	0.740	90	Standard FGLA23
HOUSE - Existing	22 Wind Back (E)	54.0	0.990	0.740	270	Standard FGLA23
ADD - New (Added)	22 Wind Back (E)	54.0	0.990	0.740	270	Standard FGLA23
HOUSE - Existing	35 Wind Right (E)	60.0	0.990	0.740	90	Standard FGLA23
ADD - New (Added)	35 Wind Right (E)	60.0	0.990	0.740	90	Standard FGLA23
HOUSE - Existing	9 Wind Left (E)	25.0	0.400	0.400	180	Standard FGLA23
ADD - New (Added)	9 Wind Left (E)	18.4	0.400	0.400	180	Standard FGLA23
HOUSE - Existing	10 Wind Left (E)	18.4	0.400	0.400	180	Standard FGLA23
ADD - New (Added)	10 Wind Left (E)	18.4	0.400	0.400	180	Standard FGLA23
HOUSE - Existing	16 Wind Left (E)	21.4	0.400	0.400	180	Standard FGLA23
ADD - New (Added)	16 Wind Left (E)	21.4	0.400	0.400	180	Standard FGLA23
HOUSE - Existing	17 Wind Left (E)	11.4	0.400	0.400	180	Standard FGLA23
ADD - New (Added)	17 Wind Left (E)	11.4	0.400	0.400	180	Standard FGLA23
HOUSE - Existing	23 Wind Back (E)	25.0	0.400	0.400	270	Standard FGLA23
ADD - New (Added)	23 Wind Back (E)	25.0	0.400	0.400	270	Standard FGLA23
HOUSE - Existing	24 Wind Back (E)	25.0	0.400	0.400	270	Standard FGLA23
ADD - New (Added)	24 Wind Back (E)	25.0	0.400	0.400	270	Standard FGLA23
HOUSE - Existing	26 Wind Back (E)	19.0	0.400	0.400	270	Standard FGLA23
ADD - New (Added)	26 Wind Back (E)	19.0	0.400	0.400	270	Standard FGLA23
HOUSE - Existing	27 Wind Back (E)	19.0	0.400	0.400	270	Standard FGLA23
ADD - New (Added)	27 Wind Back (E)	19.0	0.400	0.400	270	Standard FGLA23
HOUSE - Existing	28 Wind Back (E)	25.0	0.400	0.400	270	Standard FGLA23
ADD - New (Added)	28 Wind Back (E)	25.0	0.400	0.400	270	Standard FGLA23
HOUSE - Existing	29 Wind Back (E)	4.0	0.400	0.400	270	Standard FGLA23
ADD - New (Added)	29 Wind Back (E)	4.0	0.400	0.400	270	Standard FGLA23
HOUSE - Existing	30 Wind Right (E)	12.0	0.400	0.400	270	Standard FGLA23
ADD - New (Added)	30 Wind Right (E)	12.0	0.400	0.400	270	Standard FGLA23
HOUSE - Existing	31 Wind Right (E)	11.2	0.400	0.400	270	Standard FGLA23
ADD - New (Added)	31 Wind Right (E)	11.2	0.400	0.400	270	Standard FGLA23
HOUSE - Existing	40 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	40 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	41 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	41 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	42 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	42 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	43 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	43 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	44 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	44 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	45 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	45 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	46 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	46 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	47 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	47 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	48 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	48 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	49 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	49 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	50 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
ADD - New (Added)	50 Wind Right (E)	24.8	0.400	0.400	90	Standard FGLA23
HOUSE - Existing	52 Sky Horiz	11.3	1.000	0.730	90	None EXIST

REMARKS

1) New HVAC systems and water heaters will be installed for the entire house.

2) All new windows and glass doors will have non-metal frames with a weighted average UFGC U-factor of .40 or less and a weighted average SHGC of .40 or less with Low-E glass. The new skylight will have a metal frame with dual pane glass and default values.

3) Night set-back thermostats are required. Verify sound ordinance req. (if any) prior to A/C set.

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\*\*\* Building complies with Computer Performance \*\*\*

GENERAL INFORMATION

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Building Type..... Single Family Detached

Construction Type..... Existing/Alteration

Design Assumptions..... Before 1978

Natural Gas at Site..... Yes

Building Front Orientation..... Front Facing 90 deg (E)

Number of Dwelling Units..... 1

Weather Data Type..... FullYear

Floor Construction Type..... Raised Floor

Number of Building Zones..... 2

Conditioned Volume..... 47052 cf

Slab-On-Grade Area..... 1361 sq ft

Slab-on-Grade Volume..... 16.1 ft of floor area

Average Glazing U-factor..... 0.65 Btu/hr-sq-ft-F

Average Glazing SHGC..... 0.54

Average Ceiling Height..... 9.6 ft

BUILDING ZONE INFORMATION

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ATTIC AND ROOF DETAILS

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HOUSE - Existing	Gravel	Light	25:12	0.08	0.85	11.5	16	0.00	0.00	1/150	0.30
ADD - New (Added)	Gravel	Light	25:12	0.08	0.85	11.5	16	0.00	0.00	1/150	0.30

OPPOUR SURFACES

Surface	Frame Area (sq ft)	Roof Area (sq ft)	U-factor	Act	Shade	Location/Comments				
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ADD - New (Added)	4 Wall	Wood	478	0.356	0	0	180	Yes	Non-Std	Extg. LeftWall
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HOUSE - Existing	12 Attic	Wood	1377	0.079	11	0	0	Yes	Non-Std	Extg. Attic
ADD - New (Added)	12 Attic	Wood	1377	0.079	11	0	0	Yes	Non-Std	Extg. Attic
HOUSE - Existing	17 Floor	Wood	21	0.500	0	0	90	Yes	4.5-1.4	Front Door
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HOUSE - Existing	11 Wall	Wood	477	0.102	13	0	90	Yes	4.3-1.13	New Right Wall
ADD - New (Added)	11 Wall	Wood	477	0.102	13	0	90	Yes	4.3-1.13	New Right Wall
HOUSE - Existing	13 Attic	Wood	1379	0.032	30	0	0	Yes	4.2-1.48	New/Existed Attic
ADD - New (Added)	13 Attic	Wood	1379	0.032	30	0	0	Yes	4.2-1.48	New/Existed Attic
HOUSE - Existing	16 Floor	Wood	50	0.048	19	0	0	Yes	4.2-1.48	Over Outside
ADD - New (Added)	16 Floor	Wood	50	0.048	19	0	0	Yes	4.2-1.48	