PERFORMANCE CERTIFICATE OF COMPLIANCE — Part 3 of 3 — PERF-1

PROJECT NAME: Del Mar High School — DATE: 1/29/2009

ZONE INFORMATION

System Name	Zone Name	Occupancy Type	Floor Area (sqft.)	Inst. LPD (W/sf)[1]	Crd. Credits (W/sf)[2]	Allowed LPD Area (W/sf)[3]	Allowed LPD Tailored (W/sf)[4]	Proc. Loads (W/sf)
25HCA/FX4C	Fitness	Exercise, Gymnasium	1,830	1.469	0.294			2.000

Notes: 1. See LTG-2-C (items marked with asterisk, see LTG-2-C by others) 2. See LTG-4-C 3. See LTG-5-C (by others) 4. See LTG-5-C — Items shown require special documentation

EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

The Roof R-30 Roof Cathedral is a CRRC Certified Roof with Reflectance = 0.30, Emittance = 0.75.

The HVAC System "25HCA/FX4C - Fitness" is designated as 3 Phase, or is Exempted from the NAECA 13 SEER requirement.

The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.

Authorized Signature or Stamp

Run Initiation Time: 01/29/09 16:53:26 — Run Code: 1233276806

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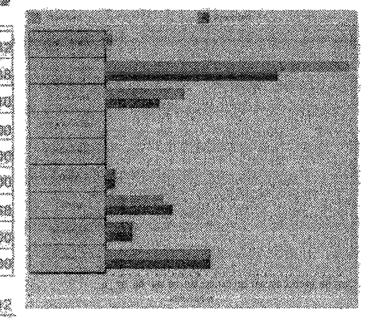
PERFORMANCE CERTIFICATE OF COMPLIANCE — Part 2 of 3 — PERF-1

PROJECT NAME: Del Mar High School — DATE: 1/29/2009

ANNUAL TDV ENERGY USE SUMMARY (kBtu/sqft-yr)

ENERGY COMPONENT	Standard Design	Proposed Design	Compliance Margin
Space Heating	7.98	0.16	7.82
Space Cooling	288.33	202.35	85.98
Indoor Fans	91.31	62.21	29.10
Heat Rejection	0.00	0.00	0.00
Pumps & Misc.	0.00	0.00	0.00
Domestic Hot Water	11.06	11.06	0.00
Lighting	66.35	78.03	-11.68
Receptacle	30.55	30.55	0.00
Process	122.30	122.30	0.00
TOTALS:	617.69	506.57	111.12



Percent better than Standard: 18.0% (22.4% excluding process)

BUILDING COMPLIES

GENERAL INFORMATION

Building Orientation	(N) 0 deg	Conditioned Floor Area	1,830 sqft
Number of Stories	1	Unconditioned Floor Area	0 sqft
Number of Systems	2	Conditioned Footprint Area	1,830 sqft
Number of Zones	1	Fuel Type	Natural Gas

	Orientation	Gross Area	Glazing Area	Glazing Ratio
Front Elevation	(N)	740 sqft	298 sqft	40.3%
Left Elevation	(E)	589 sqft	186 sqft	31.7%
Rear Elevation	(S)	740 sqft	0 sqft	0.0%
Right Elevation	(W)	589 sqft	56 sqft	9.5%
Total		2,658 sqft	540 sqft	20.3%
Roof		1,830 sqft	0 sqft	0.0%

	Standard	Proposed
Lighting Power Density	1.000 W/sqft	1.176 W/sqft
Prescriptive Env. Heat Loss	1,482 Btu/h	506 Btu/h
Prescriptive Env. Heat Gain	90,429 Btu/h-F	45,930 Btu/h-F

Remarks:

Run Initiation Time: 01/29/09 16:53:26 — Run Code: 1233276806

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PERFORMANCE CERTIFICATE OF COMPLIANCE — Part 1 of 3 — PERF-1

PROJECT NAME: Del Mar High School — DATE: 1/29/2009

PROJECT ADDRESS: 312 Del Mar Ave San Gabriel

PRINCIPAL DESIGNER - ENVELOPE: IBI Group — TELEPHONE: (949) 833-5588

DOCUMENTATION AUTHOR: Fundament & Associates — TELEPHONE: (949) 251-1131

Building Permit # — Checked by/Date — Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS: 7/20/08 — BUILDING CONDITIONED FLOOR AREA: 1,830 Sq.Ft. — CLIMATE ZONE: 9

BUILDING TYPE: [X] NONRESIDENTIAL [ ] HIGH RISE RESIDENTIAL [ ] HOTEL/MOTEL GUEST ROOM

PHASE OF CONSTRUCTION: [X] NEW CONSTRUCTION [ ] ADDITION [ ] EXISTING + ADDITION/ALTERATION

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to a Building using the performance compliance approach.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR — SIGNATURE — DATE

The Principal Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building as designed meets the energy efficiency requirements contained in sections 110, 116, through 118, and 140, 142, 143 or 149 of Title 24, Part 6.

ENV. LTG. MECH.

[ ] [ ] [✓] 1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.

[ ] [ ] [ ] 2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

[ ] [ ] [ ] 3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538, and 6737.1. (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

ENVELOPE COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures — Required Forms: ENV-1

PRINCIPAL ENVELOPE DESIGNER - NAME: IBI Group — SIGNATURE — LIC. NO. — DATE

LIGHTING COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures — Required Forms: LTG-1, LTG-2, LTG-4

PRINCIPAL LIGHTING DESIGNER - NAME: FBA Engineering — SIGNATURE — LIC. NO. — DATE

MECHANICAL COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures — Required Forms: MECH-1, MECH-2, MECH-3, MECH-5

PRINCIPAL MECHANICAL DESIGNER - NAME: Fundament & Associates, Inc. — SIGNATURE — LIC. NO.: M21311 — DATE: 02/22/10

Run Initiation Time: 01/29/09 16:53:26 — Run Code: 1233276806

EnergyPro 4.4 by EnergySoft — User Number: 2181 — Job Number: 9118 — Page: 3 of 38

CERTIFICATE OF COMPLIANCE — (Part 1 of 2) — OLTG-1-C

PROJECT NAME: Del Mar High School — DATE: 1/29/2009

PROJECT ADDRESS: 312 Del Mar Ave San Gabriel — Building Permit #

PRINCIPAL DESIGNER - LIGHTING: FBA Engineering — TELEPHONE: 714-852-9995

DOCUMENTATION AUTHOR: Fundament & Associates — TELEPHONE: (949) 251-1131 — Checked by/Date — Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS: 7/20/08 — OUTDOOR LIGHTING ZONE: [ ] LZ1 [ ] LZ2 [X] LZ3 [ ] LZ4

FUNCTION TYPE: [X] OUTDOOR LIGHTING [ ] OUTDOOR SIGNS [ ] INDOOR SIGNS

PHASE OF CONSTRUCTION: [X] NEW CONSTRUCTION [ ] ADDITION [ ] ALTERATION

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the outdoor lighting system specifications need to comply with Title 24, Parts 1 and 6 of the California Code of Regulations.
This certificate applies only to building lighting requirements.
The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR — SIGNATURE — DATE

The Principal Lighting Designer hereby certifies that the proposed outdoor lighting and signs design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in Sections 110, 119, 130 through 132, and 146, and 148 of Title 24, Part 6.

Please Check One: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

[ ] I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

[ ] I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

[ ] I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

PRINCIPAL LIGHTING DESIGNER - NAME: FBA Engineering — SIGNATURE — DATE — LIC. #

LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)

[X] OLTG-1-C: Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.

Either LTG-1-C or OLTG-1-C may be used for signs as follows:
1. Use LTG-1-C if the project consists solely of indoor signs.
2. Use LTG-1-C if the project consists of indoor lighting, outdoor or indoor signs, but no other outdoor lighting.
3. Use OLTG-1-C if the project consists solely of outdoor signs.
4. Use OLTG-1-C if the project consists of outdoor lighting, outdoor or indoor signs, but no other indoor lighting.

[X] OLTG-2-C: LIGHTING COMPLIANCE SUMMARY. Applicable parts required for ALL outdoor lighting allowances (Except Signs).

[X] OLTG-3-C: AREA CALCULATIONS WORKSHEET. Applicable parts required for all outdoor area calculations.

[X] OLTG-4-C: SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

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ENVELOPE MANDATORY MEASURES — ENV-MM

PROJECT NAME: Del Mar High School — DATE: 1/29/2009

	DESCRIPTION	Designer	Enforcement
[X]	§ 118(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.		
[X]	§ 118(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.		
[X]	§ 117(a) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.		
[X]	§ 116(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).		
[X]	§ 116(a)1 Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-E. of the Standards. Manufactured fenestration products must be labeled for U-value according to NFRC procedures.		
[X]	§ 118(e) Demising Walls in Nonresidential Buildings: 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.		

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CERTIFICATE OF COMPLIANCE — (Part 1 of 3) — LTG-1-C

PROJECT NAME: Del Mar High School — DATE: 1/29/2009

INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

	INSTALLED WATTS
INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)	2,689
PORTABLE LIGHTING (From LTG-3-C)	0
LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	538
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	2,151
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	0
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	0
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	0

ALLOWED INDOOR LIGHTING POWER FOR CONDITIONED SPACES

[ ] COMPLETE BUILDING METHOD (From LTG-5-C)
[ ] AREA CATEGORY METHOD (From LTG-5-C)
[ ] TAILORED METHOD (From LTG-5-C) — ALLOWED LIGHTING POWER — ALLOWED WATTS: 2,161

ALTERNATE COMPLIANCE

[X] PERFORMANCE METHOD
[ ] COMMON LIGHTING SYSTEM (From LTG-8-C)

ALLOWED INDOOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C): 0

MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

CONTROL LOCATION (Room #)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, etc.)	SPACE CONTROLLED	Check if Daylighting	NOTE TO FIELD

NOTES TO FIELD - For Building Department Use Only

Run Initiation Time: 01/29/09 16:53:26 — Run Code: 1233276806

EnergyPro 4.4 by EnergySoft — User Number: 2181 — Job Number: 9118 — Page: 7 of 38

San Gabriel Unified School District
408 Junipero Serra
San Gabriel, CA 91776

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Phone 801-532-4233
Fax 801-532-4231

REGISTERED PROFESSIONAL ENGINEER — PAUL C. FUNDAMENT — No. 24311 — MECHANICAL — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-112620
AC ___ FLS SEH SS ___
DATE ___

LICENSED ARCHITECT — KEVIN S. FLEMING — NO. C8668 — 08-31-11 RENEWAL DATE — STATE OF CALIFORNIA

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Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and the Architect shall be informed of any variations from the dimensions and conditions show on the drawing. Shop drawings shall be submitted to the Architect for approval before proceeding with fabrication.

Del Mar High School
312 Del Mar Ave
San Gabriel, CA 91776

FITNESS BUILDING
TITLE 24 REPORTS

Project Number	20318
Date	FEBRUARY, 2010
Drawn By	BM
Checked By	BM

M0.3

Scale: N.T.S.