

INDOOR LIGHTING POWER ALLOWANCE  
PROJECT: CHESTNUT SQUARE  
DATE: 01/24/13  
PAGE: 1 OF 3

1. GENERAL INFORMATION  
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3. GENERAL INFORMATION  
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11. GENERAL INFORMATION  
12. GENERAL INFORMATION

INDOOR LIGHTING - LIGHTING CONTROLS  
PROJECT: CHESTNUT SQUARE  
DATE: 01/24/13  
PAGE: 2 OF 3

A. Mandatory Lighting Control Declaration Statements (Indicate if the answer applies for checking job or not below)

YES	NO	Control Description
		1. All lighting systems shall be designed to meet the minimum lighting levels as specified in the applicable code.
		2. All lighting systems shall be designed to meet the maximum lighting levels as specified in the applicable code.
		3. All lighting systems shall be designed to meet the minimum lighting levels as specified in the applicable code.
		4. All lighting systems shall be designed to meet the maximum lighting levels as specified in the applicable code.
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INDOOR LIGHTING  
PROJECT: CHESTNUT SQUARE  
DATE: 01/24/13  
PAGE: 3 OF 3

A. General Information  
1. Project Name: CHESTNUT SQUARE  
2. Project Address: 1665 CHESTNUT STREET, LIVEMORE, CA  
3. Project Description: OFFICE BUILDING

B. Lighting System Information  
1. System Type: OFFICE  
2. System Description: OFFICE LIGHTING SYSTEM

C. Declaration of Required Controls of Acoustics  
1. The acoustics shall be designed to meet the minimum sound levels as specified in the applicable code.

INDOOR LIGHTING POWER ALLOWANCE  
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PAGE: 1 OF 3

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INDOOR LIGHTING - LIGHTING CONTROLS  
PROJECT: CHESTNUT SQUARE  
DATE: 01/24/13  
PAGE: 2 OF 3

A. Mandatory and Prescriptive Indoor Lighting Control Schedules, PAR Calculations, and Field Inspection Checklist

1. Lighting Control Schedules

Area	Control Description	Field Inspection Checklist
OFFICE	1. All lighting systems shall be designed to meet the minimum lighting levels as specified in the applicable code.	1. Check for minimum lighting levels.
RECEPTION	1. All lighting systems shall be designed to meet the minimum lighting levels as specified in the applicable code.	1. Check for minimum lighting levels.
CONFERENCE	1. All lighting systems shall be designed to meet the minimum lighting levels as specified in the applicable code.	1. Check for minimum lighting levels.
RESTROOM	1. All lighting systems shall be designed to meet the minimum lighting levels as specified in the applicable code.	1. Check for minimum lighting levels.

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REVISIONS

NO.	DATE	DESCRIPTION
01	01/24/13	ISSUED FOR PERMIT
02	01/24/13	ISSUED FOR PERMIT
03	01/24/13	ISSUED FOR PERMIT
04	01/24/13	ISSUED FOR PERMIT
05	01/24/13	ISSUED FOR PERMIT
06	01/24/13	ISSUED FOR PERMIT
07	01/24/13	ISSUED FOR PERMIT
08	01/24/13	ISSUED FOR PERMIT
09	01/24/13	ISSUED FOR PERMIT
10	01/24/13	ISSUED FOR PERMIT

REVIEWED BY: BLAKE YOUNG  
DATE: FEB 27, 2013

ENERGY CODE COMPLIANCE  
FEB 11 2013

SCALE

**INDOOR LIGHTING POWER ALLOWANCE**  
 PROJECT: CHESTNUT SQUARE  
 PREPARED BY: JES  
 CHECKED BY: JES  
 DATE: 02/03/20

**A. SUMMARY TABLE OF EXISTING POWER ALLOWANCES**

TYPE OF BUILDING	TYPE OF SPACE	POWER ALLOWANCE (VA/FT <sup>2</sup> )
Office	Office	1.5
Office	Conference Room	2.0
Office	Reception	1.5
Office	Break Room	2.0
Office	Storage	1.0
Office	Restroom	1.0
Office	Janitor	1.0
Office	Stairwell	1.0
Office	Elevator	1.0
Office	Corridor	1.0
Office	Exit	1.0
Office	Unoccupied	1.0
Office	Other	1.0

**C. AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCE**

AREA CATEGORY	AREA (FT <sup>2</sup> )	POWER ALLOWANCE (VA/FT <sup>2</sup> )	TOTAL POWER (VA)
Office	1000	1.5	1500
Conference Room	200	2.0	400
Reception	100	1.5	150
Break Room	100	2.0	200
Storage	500	1.0	500
Restroom	50	1.0	50
Janitor	50	1.0	50
Stairwell	50	1.0	50
Elevator	50	1.0	50
Corridor	500	1.0	500
Exit	500	1.0	500
Unoccupied	500	1.0	500
Other	500	1.0	500
<b>TOTAL</b>	<b>5000</b>	<b>1.5</b>	<b>7500</b>

**INDOOR LIGHTING - LIGHTING CONTROLS**  
 PROJECT: CHESTNUT SQUARE  
 PREPARED BY: JES  
 CHECKED BY: JES  
 DATE: 02/03/20

**A. Mandatory Lighting Control (See Table 110.1.1 for the measures taken by checking one or more of the following)**

**YES NO General Requirements**

- Lighting controls shall be provided for all interior spaces, except for the following:
  - Emergency lighting
  - Exit lighting
  - Signage lighting
  - Security lighting
  - Specialty lighting
  - Other lighting
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  - Security lighting
  - Specialty lighting
  - Other lighting

**INDOOR LIGHTING**  
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 DATE: 02/03/20

**A. Summary of Existing Lighting**

EXISTING LIGHTING	TYPE OF LIGHTING	POWER ALLOWANCE (VA/FT <sup>2</sup> )
Office	Office	1.5
Office	Conference Room	2.0
Office	Reception	1.5
Office	Break Room	2.0
Office	Storage	1.0
Office	Restroom	1.0
Office	Janitor	1.0
Office	Stairwell	1.0
Office	Elevator	1.0
Office	Corridor	1.0
Office	Exit	1.0
Office	Unoccupied	1.0
Office	Other	1.0

**INDOOR LIGHTING POWER ALLOWANCE**  
 PROJECT: CHESTNUT SQUARE  
 PREPARED BY: JES  
 CHECKED BY: JES  
 DATE: 02/03/20

**C. AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE**

AREA CATEGORY	AREA (FT <sup>2</sup> )	POWER ALLOWANCE (VA/FT <sup>2</sup> )	TOTAL POWER (VA)
Office	1000	1.5	1500
Conference Room	200	2.0	400
Reception	100	1.5	150
Break Room	100	2.0	200
Storage	500	1.0	500
Restroom	50	1.0	50
Janitor	50	1.0	50
Stairwell	50	1.0	50
Elevator	50	1.0	50
Corridor	500	1.0	500
Exit	500	1.0	500
Unoccupied	500	1.0	500
Other	500	1.0	500
<b>TOTAL</b>	<b>5000</b>	<b>1.5</b>	<b>7500</b>

**INDOOR LIGHTING - LIGHTING CONTROLS**  
 PROJECT: CHESTNUT SQUARE  
 PREPARED BY: JES  
 CHECKED BY: JES  
 DATE: 02/03/20

**A. Mandatory and Prescriptive Indoor Lighting Control (See Table 110.1.1 for the measures taken by checking one or more of the following)**

**YES NO General Requirements**

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**INDOOR LIGHTING**  
 PROJECT: CHESTNUT SQUARE  
 PREPARED BY: JES  
 CHECKED BY: JES  
 DATE: 02/03/20

**C. Summary of Proposed Lighting**

PROPOSED LIGHTING	TYPE OF LIGHTING	POWER ALLOWANCE (VA/FT <sup>2</sup> )
Office	Office	1.5
Office	Conference Room	2.0
Office	Reception	1.5
Office	Break Room	2.0
Office	Storage	1.0
Office	Restroom	1.0
Office	Janitor	1.0
Office	Stairwell	1.0
Office	Elevator	1.0
Office	Corridor	1.0
Office	Exit	1.0
Office	Unoccupied	1.0
Office	Other	1.0

**INDOOR LIGHTING POWER ALLOWANCE**  
 PROJECT: CHESTNUT SQUARE  
 PREPARED BY: JES  
 CHECKED BY: JES  
 DATE: 02/03/20

**C. AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE**

AREA CATEGORY	AREA (FT <sup>2</sup> )	POWER ALLOWANCE (VA/FT <sup>2</sup> )	TOTAL POWER (VA)
Office	1000	1.5	1500
Conference Room	200	2.0	400
Reception	100	1.5	150
Break Room	100	2.0	200
Storage	500	1.0	500
Restroom	50	1.0	50
Janitor	50	1.0	50
Stairwell	50	1.0	50
Elevator	50	1.0	50
Corridor	500	1.0	500
Exit	500	1.0	500
Unoccupied	500	1.0	500
Other	500	1.0	500
<b>TOTAL</b>	<b>5000</b>	<b>1.5</b>	<b>7500</b>

**INDOOR LIGHTING - LIGHTING CONTROLS**  
 PROJECT: CHESTNUT SQUARE  
 PREPARED BY: JES  
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Office	Stairwell	1.0
Office	Elevator	1.0
Office	Corridor	1.0
Office	Exit	1.0
Office	Unoccupied	1.0
Office	Other	1.0

**INDOOR LIGHTING - LIGHTING CONTROLS**  
 PROJECT NO. 1665 CHESTNUT STREET  
 CLIENT: CHESTNUT SQUARE  
 DATE: 01/20/2016

**1. Description of System**  
 A. General Information  
 B. System Description  
 C. Control System Description

**2. Discussion of Required Conditions of Acceptance**  
 A. System Description  
 B. System Description  
 C. System Description

**3. Lighting Schedule and Peak Inclusive Energy Checks**

DATE: 01/20/2016

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 PROJECT NO. 1665 CHESTNUT STREET  
 CLIENT: CHESTNUT SQUARE  
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**3. Lighting Schedule and Peak Inclusive Energy Checks**

DATE: 01/20/2016

**REVISIONS**

NO.	DATE	DESCRIPTION
1	01/20/2016	ISSUE
2	01/20/2016	REVISED
3	01/20/2016	REVISED
4	01/20/2016	REVISED
5	01/20/2016	REVISED
6	01/20/2016	REVISED
7	01/20/2016	REVISED
8	01/20/2016	REVISED
9	01/20/2016	REVISED
10	01/20/2016	REVISED

DATE: FEB 27 2016  
 BY: [Signature]

**ENERGY CODE COMPLIANCE**  
 SCALE: 1/8" = 1'-0"





**CHESTNUT SQUARE**  
1665 CHESTNUT STREET  
LIVERMORE, CA

STATE OF CALIFORNIA Electrical Power Distribution CERTIFICATE OF COMPLIANCE Electrical Power Distribution Project: CHESTNUT SQUARE Date: 11/08/2018		COMPARISON TO CODE BOOK: NRECC-ICC-01-C Page 3 of 5	
B. Separation of Electrical Circuits for Electrical Energy Monitoring Check all items below if the electrical power distribution system is in compliance with Section 180.503. 1. The electrical power distribution system meets the separation of electrical circuits for electric energy monitoring equipment of Section 180.503 of the 2014 NEC. 2. The electrical power distribution system meets the separation of electrical circuits for electric energy monitoring equipment of Section 180.503 of the 2014 NEC. 3. Use of the electrical power distribution system is in compliance with the requirements of Section 180.503 of the California Code of Regulations. 4. Use of the electrical power distribution system is in compliance with the requirements of Section 180.503 of the California Code of Regulations.			
General Information	Electrical Power Distribution System Information and Method of Compliance	Electrical Service Rating	Enforcement Agency
01 Designator/Location/Description	02 Design of the electrical power distribution system checked for the correct method used	03 kVA	04 Check that the system complies
Field Inspector Initial: _____ California Energy Efficiency Standards - 2016 National Electrical Code Book January 2016			

STATE OF CALIFORNIA Electrical Power Distribution CERTIFICATE OF COMPLIANCE Electrical Power Distribution Project: CHESTNUT SQUARE Date: 11/08/2018		COMPARISON TO CODE BOOK: NRECC-ICC-01-C Page 4 of 5	
C. Voltage Drop Check all items below if the electrical power distribution system is in compliance with Section 180.504. 1. The voltage drop across the conductors in the wiring does not exceed the maximum permitted voltage drop on feeder conductors or branch circuit conductors in the wiring connected to the load. 2. Voltage drop calculations show compliance with Section 180.504 and all test reports of the compliance document 00000000.			Enforcement Agency Check that the system complies <input type="checkbox"/> <input type="checkbox"/>
D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles Check all items below if the electrical power distribution system is in compliance with Section 180.505 for the maximum number of receptacles per circuit. 1. The receptacles are installed in accordance with the requirements of Section 180.505 of the California Code of Regulations. 2. There are at least two receptacles per branch circuit in each receptacle outlet. Where receptacles are installed in accordance with the requirements of Section 180.505, the receptacles are installed in accordance with the requirements of Section 180.505 of the California Code of Regulations. 3. Receptacles installed in accordance with the requirements of Section 180.505 of the California Code of Regulations are installed in accordance with the requirements of Section 180.505 of the California Code of Regulations. 4. Receptacles installed in accordance with the requirements of Section 180.505 of the California Code of Regulations are installed in accordance with the requirements of Section 180.505 of the California Code of Regulations. 5. Receptacles installed in accordance with the requirements of Section 180.505 of the California Code of Regulations are installed in accordance with the requirements of Section 180.505 of the California Code of Regulations. 6. Receptacles installed in accordance with the requirements of Section 180.505 of the California Code of Regulations are installed in accordance with the requirements of Section 180.505 of the California Code of Regulations. 7. Receptacles installed in accordance with the requirements of Section 180.505 of the California Code of Regulations are installed in accordance with the requirements of Section 180.505 of the California Code of Regulations.			Field Inspector Check that the system complies <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
California Energy Efficiency Standards - 2016 National Electrical Code Book January 2016			

STATE OF CALIFORNIA Electrical Power Distribution CERTIFICATE OF COMPLIANCE Electrical Power Distribution Project: CHESTNUT SQUARE Date: 11/08/2018		COMPARISON TO CODE BOOK: NRECC-ICC-01-C Page 5 of 5	
A. Mandatory Outdoor Lighting Control Schedules and Field Inspection Checklist 1. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 2. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 3. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 4. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 5. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 6. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 7. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 8. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 9. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 10. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations.			
California Energy Efficiency Standards - 2016 National Electrical Code Book January 2016			

STATE OF CALIFORNIA Electrical Power Distribution CERTIFICATE OF COMPLIANCE Electrical Power Distribution Project: CHESTNUT SQUARE Date: 11/08/2018		COMPARISON TO CODE BOOK: NRECC-ICC-01-C Page 1 of 1	
A. Mandatory Outdoor Lighting Control Schedules and Field Inspection Checklist 1. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 2. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 3. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 4. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 5. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 6. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 7. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 8. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 9. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations. 10. The lighting control system is installed in accordance with the requirements of Section 220.12 of the California Code of Regulations.			
California Energy Efficiency Standards - 2016 National Electrical Code Book January 2016			

OUTDOOR LIGHTING CONTROLS		N. Mandatory Outdoor Lighting Control Schedules and Field Inspection Checklist			
OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS
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OUTDOOR LIGHTING CONTROLS		O. Outdoor Lighting Power Allowances			
OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS
OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS
OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS

OUTDOOR LIGHTING CONTROLS		P. Outdoor Lighting Power Allowances			
OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS	OUTDOOR LIGHTING CONTROLS
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DATE: 02/27/2019  
CHECKED BY: JF  
PROJECT NO: 16230

DATE	ISSUE
02/27/19	ISSUE 01
03/06/19	ISSUE 02
03/06/19	ISSUE 03
03/06/19	ISSUE 04
03/06/19	ISSUE 05
03/06/19	ISSUE 06
03/06/19	ISSUE 07
03/06/19	ISSUE 08
03/06/19	ISSUE 09
03/06/19	ISSUE 10
03/06/19	ISSUE 11
03/06/19	ISSUE 12
03/06/19	ISSUE 13
03/06/19	ISSUE 14
03/06/19	ISSUE 15
03/06/19	ISSUE 16
03/06/19	ISSUE 17
03/06/19	ISSUE 18
03/06/19	ISSUE 19
03/06/19	ISSUE 20
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03/06/19	ISSUE 38
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03/06/19	ISSUE 41
03/06/19	ISSUE 42
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03/06/19	ISSUE 44
03/06/19	ISSUE 45
03/06/19	ISSUE 46
03/06/19	ISSUE 47
03/06/19	ISSUE 48
03/06/19	ISSUE 49
03/06/19	ISSUE 50

REVIEWED BY: JF  
DATE: FEB 27 2019

PROJECT NO: 16230

EMERALD CITY ENGINEERS, INC.  
3150 KENNEDY BLVD  
LIVERMORE, CA 94550  
925-701-1200

ENERGY CODE COMPLIANCE  
FEB 12 2019

SCALE: E7.4



**CHESTNUT SQUARE**  
**1665 CHESTNUT STREET**  
**LIVERMORE, CA**

DATE ISSUED BY AT

PROJECT NO 1638

DATE	ISSUE
1/20/17	NOI DD-001
1/20/17	NOI DD-002
2/02/17	NOI DD-003
2/02/17	NOI DD-004
2/02/17	NOI DD-005
2/02/17	NOI DD-006
2/02/17	NOI DD-007
2/02/17	NOI DD-008
2/02/17	NOI DD-009
2/02/17	NOI DD-010
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2/02/17	NOI DD-098
2/02/17	NOI DD-099
2/02/17	NOI DD-100

REVIEWED  
 02/07/2017  
 FEB 27 2018  
 BY: HARE ENGINEERING

ENERGY CODE  
 COMPLIANCE  
 2015  
 FEB 12 2018  
 REVIEWED

SCALE  
**E7.5**

**OUTDOOR LIGHTING POWER ALLOWANCES**

PROJECT NO: 1638  
 SHEET NO: E7.5  
 DATE: 02/07/2017

**C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS**

1. The table below lists the maximum power allowances for the following applications. The power allowances are based on the maximum power allowances for the applications listed in the table below.

2. The table below lists the maximum power allowances for the following applications. The power allowances are based on the maximum power allowances for the applications listed in the table below.

APPLICATION	MAXIMUM POWER ALLOWANCE (WATTAGE)
1. Signage	1000
2. Security Lighting	1000
3. Landscape Lighting	1000
4. Flood Lighting	1000
5. Other	1000

**C.2. WATTAGE ALLOWANCE PER UNIT LENGTH (POWER FOOTING) FROM TABLE 1603.7.6**

TYPE OF LIGHTING	WATTAGE ALLOWANCE PER UNIT LENGTH (POWER FOOTING)
1. Signage	1000
2. Security Lighting	1000
3. Landscape Lighting	1000
4. Flood Lighting	1000
5. Other	1000

**OUTDOOR LIGHTING POWER ALLOWANCES**

PROJECT NO: 1638  
 SHEET NO: E7.5  
 DATE: 02/07/2017

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**OUTDOOR LIGHTING POWER ALLOWANCES**

PROJECT NO: 1638  
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