

MINUTES OF THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA



9.11

During the oral communication section of the agenda for Tuesday, February 9, 2010, William Larsen spoke about a lighting issue in the unincorporated area of Corona and submitted documents.

**ATTACHMENTS FILED WITH
CLERK OF THE BOARD**

**AGENDA NO.
9.11**

William E. Larsen
2112 Rancho Corona Drive
Corona, CA 92882
February 9, 2010

Members of the Board of Supervisors
County of Riverside
4080 Lemon Street
Riverside, CA 92502

Dear Supervisor:

Thank you for hearing my concern relative to Light Trespass. I hope that the County already has an ordinance that addresses it but in my discussions with the County Sheriff and the Code Enforcement offices, neither were aware of one.


While the light trespass issue I have with my neighbor currently *appears* to be under control, nobody should endure unwanted light invading their personal space: yards, living rooms, and especially their bedrooms. At its lowest common denominator, light trespass is in direct conflict with the right of "Quiet Enjoyment" of their home and should not be tolerated for any reason.

Riverside County has several Ordinances that control many aspects of light trespass and light pollution. Ordinance 655 covers properties within 45 miles of Palomar Observatory. (But I live 57 miles from it.) Other ordinances cover commercial (but not residential) light pollution ... or lights related just to parking ... public thoroughfares ... or senior citizen structures. As I read them, however, none specifically address light trespass in a County (non-city) area such as mine. But if the neighboring Counties of San Bernardino and San Diego have such ordinances, why shouldn't we?

A copy of my presentation at today's Board of Supervisors Meeting is enclosed ... as well as a DVD-Media with some of the ordinances that other Cities, Counties, and States have used to address Light Trespass and Light Pollution ... as well as many other references (see attachment).

I thank Susan Swieca of Supervisor Tavaglione's staff. She has been very supportive and concerned but unable to find a solution to my concern for Light Trespass as of this date. This to volunteer my time in assisting the County affect such an ordinance if one does not already exist. Thank you for your consideration and concern.

Sincerely,

A handwritten signature in blue ink, appearing to read "William E. Larsen", is written over a horizontal line.

Name	Type
 Advanced Lighting Guidelines - See Section 3.2.4 on Lighting Trespass	Adobe Acrobat Document
 Beaumont California Ordinance 876	Adobe Acrobat Document
 Branford Connecticut - Examples of Acceptable & Unacceptable Light Fixtures	Adobe Acrobat Document
 Breast Cancer Implications	Adobe Acrobat Document
 Calaveras County California Lighting Ordinance	Adobe Acrobat Document
 City of Glendale California Light Rules CC_7b_021704	Adobe Acrobat Document
 City of San Luis Obispo California Ordinance 1527 on Nightsky Preservation	Adobe Acrobat Document
 Clinton New Jersey Township Ordinance	Adobe Acrobat Document
 County of San Bernardino Ordinance Regarding Glare and Outdoor Lighting 83.07	Adobe Acrobat Document
 Dark Skies Brochure	Adobe Acrobat Document
 Dark Sky Society Flyer	Adobe Acrobat Document
 Example of Good & Bad Lighting from Institution of Lighting Engineers in the United Kingdom	Adobe Acrobat Document
 Fairfax County Virginia Chapter 9. Noise Light Pollution & Visual Blight	Adobe Acrobat Document
 Framework for Outdoor Lighting	Adobe Acrobat Document
 Full Cutoff Lighting Benefits by Douglas Paulin	Adobe Acrobat Document
 Hancock County Ellsworth Maine Lighting Ordinance	Microsoft Word 6.0 Document
 Helotes Texas Light Ordinance	Adobe Acrobat Document
 How does light pollution harm us	Adobe Acrobat Document
 International Dark Sky Association Flyer PG3 on Residential Lighting	Adobe Acrobat Document
 International Dark Sky Information Sheet 192	Adobe Acrobat Document
 Ithaca New York Light Law	Adobe Acrobat Document
 Light Pollution & the Law in the United Kingdom #2 JPEL2006_08	Adobe Acrobat Document
 Light Pollution & the Law in the United Kingdom #3	Adobe Acrobat Document
 Light Pollution & the Law in the United Kingdom JPEL2006_08	Adobe Acrobat Document
 LIGHT POLLUTION TECHNICAL PAPER by Carl Shaflik - Professional Engineer	Adobe Acrobat Document
 Light Trespass One Page Overview from Green Earth Lighting	Adobe Acrobat Document
 Lighting Sciences Night Meter Datasheet	Adobe Acrobat Document
 Livingston County Michigan Ordinance	Adobe Acrobat Document
 National Electrical Manufacturers Association Lighting Standards 2002-03-06_	Microsoft Word 6.0 Document
 NEMA_OUTDOOR_LIGHTING_MODEL_REGS	Adobe Acrobat Document
 New England Good Neighbor Lighting Suggestions	Adobe Acrobat Document
 Pennsylvania Outdoor Lighting Council	Adobe Acrobat Document
 PICTURES FROM LARSEN - Comparison of Lighting on Ajimine Property 250ft away	Adobe Acrobat Document
 PICTURES FROM LARSEN - Comparison of Lights on Larsen Master Bedroom 200 ft away	Adobe Acrobat Document
 PICTURES FROM LARSEN - Comparison on Larsen House Opposite side 200 ft away	Adobe Acrobat Document
 Raleigh North Carolina Lighting Ordinance	Adobe Acrobat Document
 San Diego Astronomy Association1999-05	Adobe Acrobat Document
 San Diego County California Lighting Code	Adobe Acrobat Document
 San Diego County Light Pollution Code	Adobe Acrobat Document
 San Gabriel Generating Station 7.4 Application for Land Use	Adobe Acrobat Document
 Saskatchewan Light Pollution Abatement BP	Adobe Acrobat Document
 Scottsdale Arizona Outdoor Lighting Code 7.600	Adobe Acrobat Document
 State of California 2003 - Including Light Trespass and Glare A-18_CA_ODL_Assessment_7.7.2	Adobe Acrobat Document
 State of California 2004-09-07_NOTICE_LIGHTING	Adobe Acrobat Document
 State of California 2004-09-30_LIGHTING_ZONES	Adobe Acrobat Document
 State of California 2010 Building Energy Efficiency Standards CEC-400-2008-001-CMF	Adobe Acrobat Document
 STATE OF CALIFORNIA - Requiring Shielding Cutoffs NRCM_Chapter_6_Outdoor_Lighting	Adobe Acrobat Document
 State of California Advanced Lighting Guidelines 2003 - SEE SECTION 3.2.4 ON LIGHT TRESPASS	Adobe Acrobat Document
 State of California Energy 2005 Commission Low Glare Luminare Report CEC-500-2005-141-A19	Adobe Acrobat Document
State of California Memo re El Segundo and Light Trespass p9 2002-12-31_2ND-AGREED_TO	Adobe Acrobat Document
State of California re Rancho Cucamonga Light - SEE PAGE 7.4-12	Adobe Acrobat Document
State of Georgia HB 645 - Natural resources	Adobe Acrobat Document
State of Texas Bexar County Lighting Order 090820	Adobe Acrobat Document
ThreeTypes of Light Pollution - Summary Visual	Adobe Acrobat Document
What is light pollution in Riverside County	Adobe Acrobat Document
What is Light Trespass	JPEG Image
What is Light Trespass - per Green Earth Lighting	JPEG Image

Board of Supervisors Meeting February 9, 2010 Discussion on LIGHT TRESPASS

William Larsen
2112 Rancho Corona Drive
Corona, CA 92882

38 Year Resident of Riverside County

28 Years at this address

An unincorporated area of Riverside County

1

Has Riverside County Adequately Addressed The Issue of Light Trespass ?



2

What is light trespass?

Light Pollution

Light trespass occurs when **spill light** is cast where it is not wanted. Light trespass is somewhat subjective because it is difficult to define when, where, and how much light is unwanted. An example of light trespass is when spill light from a streetlight or floodlight enters a window and illuminates an indoor area. Figures 4 and 5 depict examples of light trespass. The light trespass shown in Figure 4 would be significantly reduced if a shield were placed on the luminaire. In Figure 5, the floodlight on the hotel casts light on the home across the street. Proper aiming of the floodlight and shielding would significantly reduce the light trespass shown in this example.

Figure 4. Example of light trespass



Source: David Fernández-Barba, Dept. d'Astronomia i Meteorologia, Universitat de Barcelona, SPAIN

Figure 5. Example of light trespass from a floodlight installed by a hotel that casts light onto a house across the street



3

Is This Light Trespass Allowed?

Over 150 Feet
from the Offending
Light Sources



4

Viewed from Another Angle ...



Note how dark the ambient light is ---->



5

Is This Light Trespass Allowed ?



Over 250 Feet from
the Offending Light
Sources



6

The Offending Light Sources ...



7

County of Riverside - ORDINANCE 655

REGULATING LIGHT POLLUTION

INTENT:

The intent of this ordinance is to restrict the permitted use of certain light fixtures emitting into the night sky undesirable light rays which have a detrimental effect on astronomical observation and research. This ordinance is not intended to restrict the use of low pressure sodium lighting of single family dwellings for security purposes.

H. Zone A means the circular area fifteen (15) miles in radius centered on Palomar Observatory

I. Zone B means the circular ring area defined by two circles, one forty-five (45) miles in radius centered on Palomar Observatory

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ORDINANCE 348

Land Use Ordinance of Riverside County (Planning Area 31A)

Amended through Ordinance No. 348.4647

August 20, 2009

Section 17.73.140 "D"

15. All lighting fixtures, including spot lights, electrical reflectors and other means of illumination for signs, structures, landscaping, parking, loading, unloading and similar areas, shall be focused, directed and arranged to prevent glare or direct illumination on residential uses.

9

Other Riverside County Plan References

ARTICLE IXe, R-VC ZONE

SECTION 9.83. DEVELOPMENT STANDARDS, n. Site Lighting.

(1) Illumination from on-site fixtures may not spill over onto adjacent private property

SECTION 12.4. DEVELOPMENT STANDARDS, k. Lighting.

All lighting fixtures, including spot lights, electrical reflectors and other means of illumination for signs, structures, landscaping, parking, loading, unloading and similar areas, shall be focused, directed, and arranged to prevent glare or direct illumination on streets or adjoining property

ARTICLE XVIII, GENERAL PROVISIONS

SECTION 18.12. OFF-STREET VEHICLE PARKING.

g. Development Standards For off-Street Parking Facilities,

7) Lighting.

a) Parking area lighting is not required. However, if parking areas are lighted, such lighting facilities shall be located to prevent lights from shining directly onto adjoining properties or streets

10

What I Request :

- Confirmation that the County of Riverside has an Ordinance (or Law) in place that prohibits LIGHT TRESPASS as shown in the prior slides.

... Or ...

- Action by the Board of Supervisors to Immediately affect such an Ordinance or Law.

11

THANK YOU

William Larsen
2112 Rancho Corona Drive
Corona, CA 92882
951-734-1417

eMail: bill@octu.com

12



2112 RANCHO CORONA DRIVE
CORONA, CA 92882

GENERAL PLAN FOUNDATION COMPONENTS AND LAND USE DESIGNATIONS COMMUNITY DEVELOPMENT

- Estate Density Residential (2 acre minimum lot size)
- Very Low Density Residential (1 acre minimum lot size)
- Low Density Residential (One-half acre minimum lot size)
- Medium Density Residential (2 - 5 D.U./acre)
- Medium High Density Residential (5 - 8 D.U./acre)
- High Density Residential (8 - 14 D.U./acre)

Corona

ONTARIO AVE

TAYLOR AVE



William E. Larsen
Emeritus

2112 Rancho Corona Drive
Corona, CA 92882

Tel 951 734 1417
Mobile 951 317 4122
bill@octu.com

Submitted by William Larsen
2/9/10 Item oral com
(date)

DVD

9.11

2-9-10

Coral

**Riverside County Board of Supervisors
Request to Speak**

Submit request to Clerk of Board (right of podium),
Speakers are entitled to three (3) minutes, subject
Board Rules listed on the reverse side of this form.

SPEAKER'S NAME:

WILLIAM LARSEN

Address:

2112 RANCHO CORONA DRIVE

(only if follow-up mail response requested)

City:

CORONA

Zip:

92882

Phone #:

951-734-417

Date:

2/9/2010

Agenda #

N/A (SEE BELOW)

PLEASE STATE YOUR POSITION BELOW:

Position on "Regular" (non-appealed) Agenda Item:

 Support

 Oppose

 Neutral

Note: If you are here for an agenda item that is filed
for "Appeal", please state separately your position on
the appeal below:

 Support

 Oppose

 Neutral

I WISH TO SPEAK ON THE ISSUE OF
I give my 3 minutes to: LIGHT TRESPASS

2-9-09

9.11