

HISTORIC AND DESIGN REVIEW COMMISSION

July 20, 2016

Agenda Item No: 25

HDRC CASE NO: 2016-257
ADDRESS: 114 E HUISACHE AVE
LEGAL DESCRIPTION: NCB 1703 BLK 8 LOT E, 41.5 FT OF 4
ZONING: R4 H
CITY COUNCIL DIST.: 1
DISTRICT: Monte Vista Historic District
APPLICANT: David Libby
OWNER: David Libby
TYPE OF WORK: Solar panel installation
REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to:

1. Locate fourteen (14) panels on the west facing roof slope, visible from the public right of way on E Huisache.
2. Locate thirteen (13) panels on the east facing roof slope, visible from the public right of way on E Huisache.
3. Locate three (3) panels on the south facing roof slope, not visible from the public right of way on E Huisache.

APPLICABLE CITATIONS:

Historic Design Guidelines, Chapter 3, Guidelines for Additions

C. SOLAR COLLECTORS

- i. Location—Locate solar collectors on side or rear roof pitch of the primary historic structure to the maximum extent feasible to minimize visibility from the public right-of-way while maximizing solar access. Alternatively, locate solar collectors on a garage or outbuilding or consider a ground-mount system where solar access to the primary structure is limited.
- ii. Mounting (sloped roof surfaces)—Mount solar collectors flush with the surface of a sloped roof. Select collectors that are similar in color to the roof surface to reduce visibility.
- iii. Mounting (flat roof surfaces)—Mount solar collectors flush with the surface of a flat roof to the maximum extent feasible. Where solar access limitations preclude a flush mount, locate panels towards the rear of the roof where visibility from the public right-of-way will be minimized.

FINDINGS:

- a. The applicant has proposed to mount a solar panel system at 114 E Huisache in the Monte Vista Historic District. The applicant has proposed to mount the panels of the west, east and south facing roof slopes.
- b. According to the Guidelines for Additions 6.C.i, solar collectors should be located on the side or rear roof pitch of the primary historic structure to the maximum extent feasible to minimize visibility from the public right of way while maximizing solar access. Additionally, solar collectors may be located on garages or other accessory structures where access to the primary structure is limited. The applicant has proposed to locate fourteen (14) panels on the west facing roof slope and thirteen (13) panels on the east facing roof slope. Both locations are visible from the public right of way and are not consistent with the Guidelines.
- c. On the rear roof of the primary historic structure, the applicant has proposed to mount three (3) solar panels, not visible from the public right of way. This location is appropriate and consistent with the Guidelines.

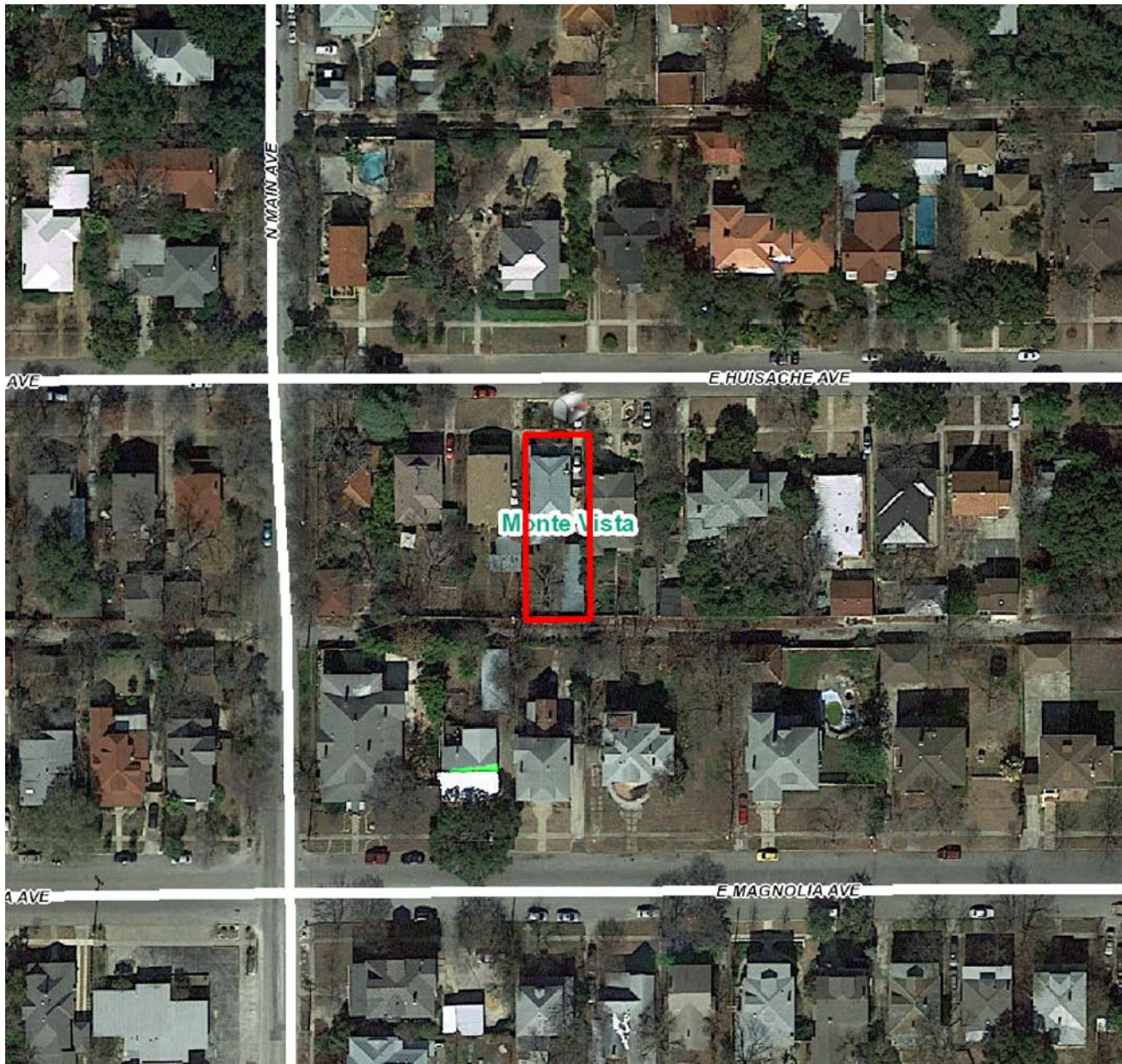
RECOMMENDATION:

Staff does not recommend approval of items #1 and #2 based on finding b.

Staff recommends approval of item #3 based on finding c. Staff recommends the applicant study mounting solar panels on the roof of the accessory structure and the roof of the rear addition, both of which will not be visible from the public right of way on E Huisache.

CASE MANAGER:

Edward Hall



Flex Viewer

Powered by ArcGIS Server

Printed: Jun 17, 2016

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E Huisache Ave

E Huisache Ave

114 E Huisache Ave

Huisache Ave



114 E Huisache Ave

E Huisache Ave

E Huisache Ave



CITY OF SAN ANTONIO
OFFICE OF REAL ESTATE
MARKETING & DESIGN
REVIEW COMMENTS

ADDRESS: 114 W. [REDACTED]
PROPERTY: [REDACTED]
REMARKS: [REDACTED]
DATE: 10/10/2023
TIME: 1:00 PM
FOR MORE INFORMATION, CONTACT
CITY OF SAN ANTONIO
ALL INFORMATION IS SUBJECT TO THE CITY OF SAN ANTONIO

114 W



SITE VERIFIED - PV SYSTEM LAYOUT



OWNER INFORMATION		SYSTEM INFORMATION	
David Libby		SYSTEM SIZE (KW-DC)	9.81
114 East Huisache Ave, San Antonio, TX 78212		MODULE MODEL NO.	SPR-E20-327-C-AC
(210) 573-7974		QTY OF MODULES	30
CONTRACTOR INFORMATION		INVERTER MODEL NO.	NA
FREEDOM SOLAR LLC, TECL# 28621		QTY OF INVERTERS	NA
4111 TODD LN, STE 100		AZIMUTH	270 90 180
AUSTIN, TX 78744		TILT	18



PV Installation
Professional

Josh Meade
Cert #PV-041115-010201



SunPower® E20-327-C-AC | Residential AC Module Series

Design-Driven Advantages

- #1 module aesthetics and efficiency¹
- Unmatched module reliability²
- No electrolytic capacitors
- 25-year Combined Power and Product Warranty

Maximize Value for Roof

- Size system for roof, not for string inverter
- Optimize performance of each module

Expand Deployment Options

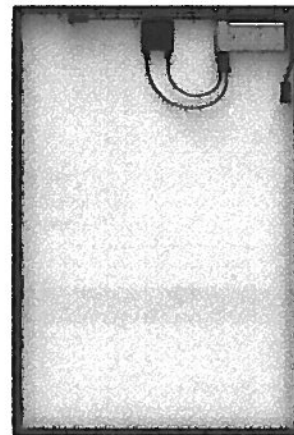
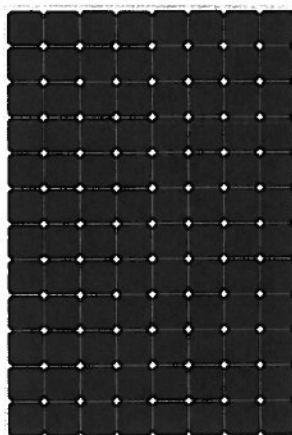
- Complex roofs and partial shading
- Small systems
- System expandability

Simplify & Speed Installation

- Factory-integrated microinverter
- Robust, double-locking AC connectors
- Design flexibility offsite and onsite
- No DC string sizing process
- Fewer installation steps than competing systems
- Intuitive commissioning

Component of Complete System

- Built for use with SunPower® InvisiMount™ and SunPower Monitoring System
- Superior system reliability and aesthetics



Optimize System and Installation Efficiency

SunPower® AC Modules, which include a factory-integrated SunPower microinverter, provide a revolutionary combination of high efficiency, high reliability, and module-level DC-to-AC power conversion. Designed specifically for use with SunPower InvisiMount™ and SunPower Monitoring System, SunPower AC Modules enable rapid installation, best-in-class system aesthetics, and intuitive visibility into system performance. All this comes with the best Combined Power and Product Warranty.



¹Highest of over 3,200 silicon solar panels, Photon Module Survey, Feb. 2014

²#1 rank in "PV Module Durability Initiative Public Report," Fraunhofer ISE, Feb. 2013. Five out of the top eight largest manufacturers were tested. Campeau, Z et al. "SunPower Module Degradation Rate," SunPower white paper, Feb. 2013. See www.sunpowercorp.com/facts for details.



sunpower.com



SunPower® E20-327-C-AC | Residential AC Module Series

Model: E20-327-C-AC

DC Electrical Data		
Measured at Standard Test Conditions (STC): Irradiance = 1000 W/m ² , AM 1.5, Cell Temperature 25° C		
Nominal Power ³	P _{nom}	327 W
Power Tolerance	P _{tol}	+5/-0%
Avg. Power Efficiency ⁴	η	20.4%
Temperature Coefficient (Power)	P	-0.38 % / °C
Shade Tolerance	<ul style="list-style-type: none"> • Three bypass diodes • Integrated panel-level maximum power point tracking 	

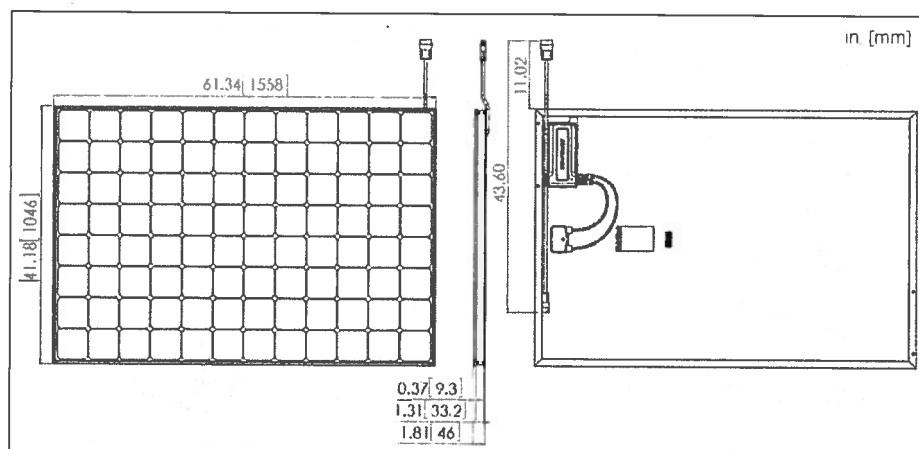
AC Electrical Data	
Output @ 240 V (min./nom./max.)	211/240/264 V
Output @ 208 V (min./nom./max.)	183/208/229 V
Operating Frequency (min./nom./max.)	59.3/60.0/60.5 Hz
Output Power Factor (min.)	0.99
AC Max. Continuous Output Current @ 240 V	1.33 A
AC Max. Continuous Output Current @ 208 V	1.54 A
AC Max. Continuous Output Power	320 W
DC/AC CEC Conversion Efficiency	96.0%
Max. Units Per Branch Circuit @ 240 V	12 (single phase)
Max. Units Per Branch Circuit @ 208 V	10 (two pole)

Mechanical Data	
Solar Cells	96 Monocrystalline Maxeon® Gen III
Front Glass	High-transmission tempered glass with anti-reflective (AR) coating
Environmental Rating	Outdoor Rated
Frame	Class 1 black anodized (highest AAMA rating)
Weight	45.5 lbs (20.6 kg)
Max. Recommended Module Spacing	1.3 in. (33 mm)

Tested Operating Conditions	
Operating Temp.	-40° F to +185° F (-40° C to +85° C)
Max. Ambient Temp	133° F (56° C)
Max. Load	Wind: 3000 Pa (62.6 psf, 305.6 kg/m ²) front & back Snow: 6000 Pa (125.3 psf, 611.7 kg/m ²) front
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)

Warranties and Certifications	
Warranties	<ul style="list-style-type: none"> • 25-year limited power warranty • 25-year limited product warranty
Certifications	<ul style="list-style-type: none"> • UL 1741, including compliance with applicable requirements of IEEE 1547 and IEEE 1547.1 • Alternating Current (AC) Module designation enables installation in accordance with NEC 690.6 • Type 2 Fire Rated

Dimensions



³Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration standard: SONS current, LACUS FI and voltage.

⁴Based on average of measured power values during production.

See www.sunpower.com/facts for more reference information. For more details, see extended datasheet www.sunpower.com/datasheets. Read safety and installation instructions before using this product.

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