

MEMO

Subject: Front Range-Midway Solar Project; Summary of Project Lighting

Summary

The Front Range-Midway Solar Project (Project) is a proposed photovoltaic solar facility located approximately nine miles south of the City of Fountain, El Paso County, Colorado. The Project is located on Rancho Colorado Boulevard, approximately 0.5 mi. west of Interstate 25. The Project consists of a 100.2 MW photovoltaic solar array, a transmission line connecting the project with either an existing, adjacent Public Service Company of Colorado (PSCo) or Western Area Power Administration (WAPA) substation, a meteorological station, up to 50 inverters, site access roads, and other necessary ancillary features. Project lighting would be limited to inverter pads and the substation. All project lighting would be positioned to downcast and would be manually turned on only during specific construction activities and maintenance activities during operation. Lighting is also motion sensed to deter trespassing. The proposed lighting would result in 0.1 lumen or less at Project property lines, both during limited nighttime construction activities and Project maintenance during operations. Temporary and permanent lighting would be installed in a manner compliant with Chapter 6 of the El Paso County Land Development Code and regulations of the Occupational Health and Safety Administration and other applicable codes, standards, laws and regulations.

Temporary Construction Lighting

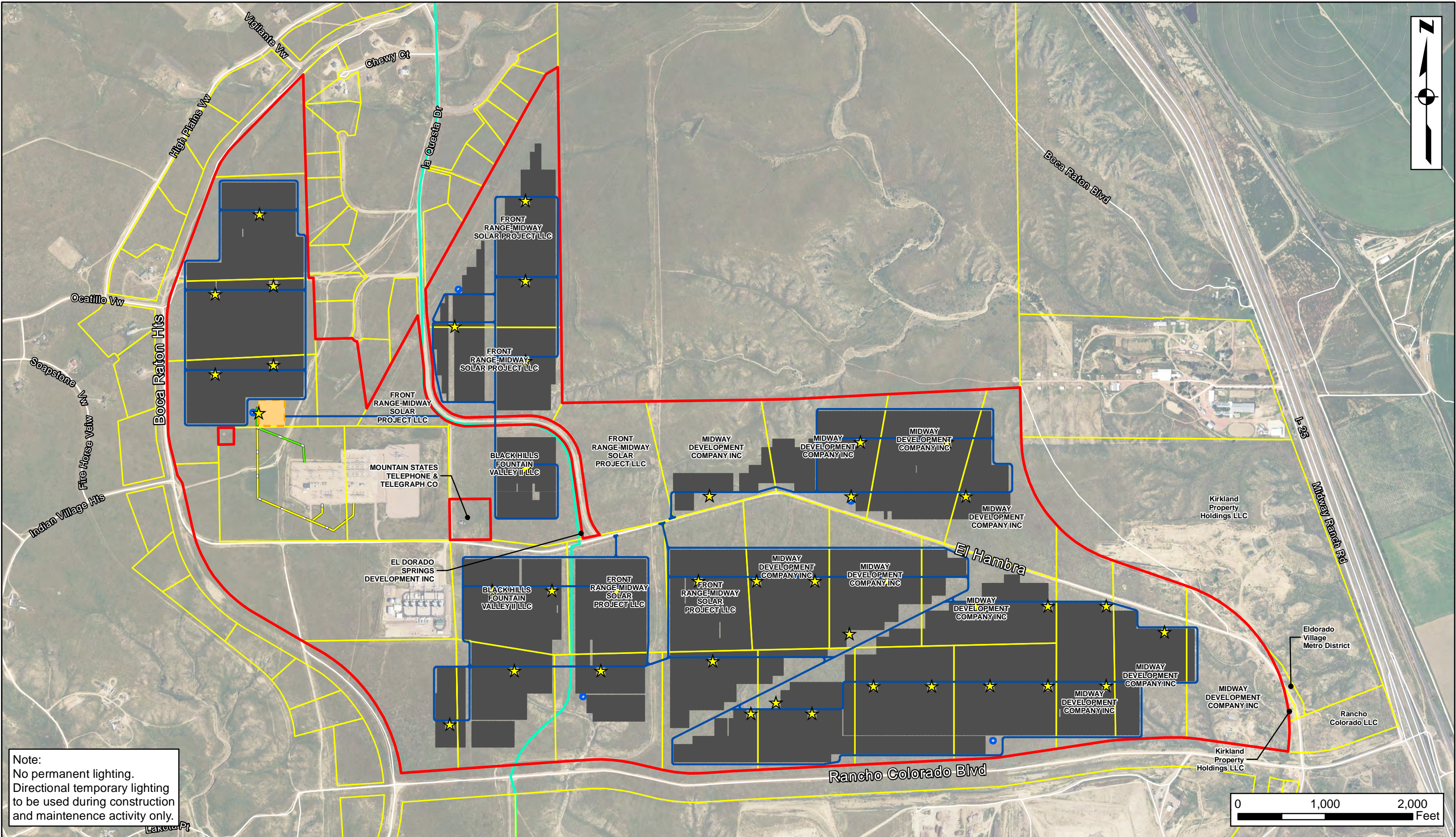
If required during construction, temporary lighting would be positioned and/or shielded from oncoming traffic and residences in the vicinity of the project site, as necessary. Cutoff-type luminaires would be used where possible. Individual light sources would not exceed 150,000 lumens per light source (typical of a 1250W metal halide light) and would project 0.1 lumen or less at Project property lines. Light standards would not exceed 24 feet in height. Generators used to power light sources would not exceed 70 dB at 25 feet from the source.

Project Lighting

Project lighting would be limited to inverter pads and the substation and would be designed to be downcast and manually turned on only during specific construction activities and maintenance activities during operation (see enclosed *Front Range-Midway Lighting Plan*). Up to 50 inverters are proposed for the Project. Project lighting serves as a deterrent to trespass, vandalism and theft as well as an aid in monitoring the facility. Motion sensor triggers would allow lights to turn on for twenty minutes before shutting off.

Interconnection

The above ground portion of the interconnection to the existing, adjacent Public Service Company of Colorado (PSCo) or Western Area Power Administration (WAPA) substation will not be lit.



Note:
No permanent lighting.
Directional temporary lighting
to be used during construction
and maintenance activity only.

- | | |
|---------------------------|----------------------------------|
| Proposed Project Boundary | Proposed Substation |
| Temporary Lighting | Proposed 230kV Transmission Line |
| Proposed Array | Proposed 115kV Transmission Line |
| Proposed Road | Parcel Boundary |
| Proposed MET Station | Wigwam Mutual Water Company |

Front Range Midway Solar Project
Lighting Plan
El Paso County, Colorado



CORE
CONSULTANTS

CIVIL ENGINEERING
DEVELOPMENT CONSULTING
NATURAL RESOURCES CONSULTING
LAND SURVEYING
303.703.4444
1950 W. Littleton Blvd., Ste. 109
Littleton, CO 80120