

## Photovoltaic System Permit Application and Checklist

Valuatio	on: <u>\$</u> (including pa	rts & labor)			
Project	Address:				
Applicant's Company Name:		Address:			
Applica	nt's Contact:	Phone:	Email:		
Installin	ng Contractor's Company Name:	A	ldress:		
Installin	ng Contractor's Contact:	Phone:	Email:		
process Signatu	re:  to complete this permit application	Coffey			
Α.	Fill out basic permit form per jurise	diction (this will eithe	r be an electrical or a building	permit form).	
В.	Complete Photovoltaic System Ap	plication and Checklis	t.		
C.	Include site plan showing location of major components on the property. This drawing need not be exactly to scale, but it should represent relative location of components and show elevation. The site plan must also show compliance with International Fire Code minimum access and pathways. Additionally, include a photo that shows the proposed access point to verify compliance with IFC 605.11.3.1.				
D.	Include electrical diagram showing inverter, disconnects, required significant experiences and significant experiences.			protection,	
E.	Include specification sheets and in including, but not limited to PV m		•	•	
F.	Inquire with the jurisdiction to find	d out the number of c	opies of components A-D shou	ıld be submitted.	
Steps	to completing a photovoltaic proj	ect:			

- Step 1 | Concurrently submit this permit application (see all necessary components, above) and the Net Metering/Interconnection Application to electric utility.
- Step 2 | Work can begin after the jurisdiction's permit is approved. Note: Some contractors will not begin work until the Net Metering/Interconnection Application is approved by the utility, although this is not a requirement.
- Step 3 | Notify jurisdiction when ready for inspection.
- Step 4 | Notify electric utility when inspection is passed.
- Step 5 | Electric utility will schedule its inspection and meter exchange.
- Step 6 | Electric utility will provide Permission to Operate (PTO)



# LEE'S SUMMIT M | S | S | O | U | R | Photovoltaic System Permit Application and Checklist - For Residential Systems\* ≤ 15 kW

### **Structural Review of PV Array Mounting System:**

#### **Roof Information**:

This section is for evaluating roof structural members that are site built. This includes rafter systems and site built trusses. Manufactured trusses and roof joist systems, when installed with proper spacing, meet the roof structure requirements as well.

1.	Is the array to be mounted on a defined, permitted roof structure? ☐ Yes ☐ No							
2.	2. Roof Age: Structure: $\square < 5$ yrs $\square$ 5-	10 yrs 🔲 20-30 yrs	☐ 30+ yrs					
	Covering: $\square$ < 5 yrs $\square$ 5-							
3.	3. Is the roofing type lightweight?							
(Yes = composition, lightweight masonry, metal, etc) (No = heavy masonry, slate, etc)								
4.	Does the roof have a single covering? ☐ Yes ☐ No							
5.	Provide method and type of weatherproofing roof penetrations (e.g. flashing, caulk)							
6.	6. Roof Construction: 🔲 Rafters 🔲 Trusse	s 🛘 Other:						
7.	7. Describe rafter or truss system.							
	a. RafterSize:xx	inches						
	b. Rafter Spacing:	inches						
	C. Maximum unsupported span:	feet,	inches					
8.	C. Maximum unsupported span:							
8.	C. Maximum unsupported span:							
	<ul><li>C. Maximum unsupported span:</li><li>B. Are rafters or trusses in good condition, i.e. have no damage? ☐ Yes ☐ No</li></ul>	t been adversely altered an						
9.	<ul><li>C. Maximum unsupported span:</li><li>B. Are rafters or trusses in good condition, i.e. have no damage? ☐ Yes ☐ No</li></ul>	t been adversely altered and?? □ Yes □ No	d no visible					
9. 10.	C. Maximum unsupported span:	t been adversely altered and?? □ Yes □ No lard materials? □ Yes □ I	d no visible No					



# **LEE'S SUMMIT**M | S | S | O | U | R | Photovoltaic System Permit Application and Checklist - For Residential Systems\* ≤ 15 kW

### (Structural Review of PV Array Mounting System—continued:)

#### Mounting System Information:

This section provides information on how the PV modules will be mounted to the roof. It is very important to have enough attachment points to adequately spread the dead load across as many roof-framing members as needed so that the point loads created at attachment points account for additional snow load (the Kansas City region has a 20 psf ground snow load).

12.	Is the mounting structure an engineered product designed to mount PV modules with no more than 18" gap beneath the module frames? ☐ Yes ☐ No						
will	be r	structural engineer's stamp: If you answered 'required by the local jurisdiction issuing the permodetail as well as a framing plan if strengthening	nit. Must include des	sign for uplift including s	•		
13.	Fill	out information on the mounting system below:					
	a.	a. Mounting System Manufacturer Product Name & Model #					
	b.	Total Weight of PV Modules and Rails	lbs				
	C.	Total Number of Attachment Points					
	d.	Weight Per Attachment Points (b÷c)	lbs				
	e.	Maximum Spacing Between Attachment Poi	nts on a Rail	inches. So	ee product		
		manual for maximum spacing allowed based on maximum design wind speed. <u>To ensure</u>					
		proper weight distribution: For each success	per weight distribution: For each successive rail, attachment points should occur on rail				
		ends and then should be staggered based or	n 16" or 24" on cer	nter rafter spacing.			
	f.	Total Surface Are of PV Modules (square fee	et) 326.25				
	g.	Distributed Weight of PV Module on Roof (b	)÷f)	lbs/ft²			
	h.	Mounting Frame to Rafter Framing:	□ Self-Ballasted	□ Penetrating			
		If penetrating, please provide for fasteners:					
	Туре	e:Size:	Number:				
	Spac	cing: inches	_				
15.		itionally, please attach a cross-section detail that s	hows rafter size, spac	ing, number of attachm	ent points,		

### **Electrical Review of PV System (Calculations for Electrical Diagram)**

In order for a PV system be processed using this application, the following must be true:

- PV modules, utility-interactive inverters, and combiner boxes are identified for use in PV systems. 1.
- 2. The PV array is composed of four(4) series strings or less per inverter.
- The AC interconnection point is on the load side of service disconnecting means (690.64(B)) 3.
- A standard electrical diagram can be used to accurately represent the PV system.