





SOLAR PHOTOVOLTAIC (PV) SYSTEM PERMIT APPLICATION CHECKLIST

This Permit Application Checklist is intended to be used as a best management practice when establishing local government requirements for residential and commercial solar photovoltaic (PV) system permits. Local governments may modify this checklist to accommodate their local ordinances, code requirements, and permit procedures. The following application items may, at the community's discretion, be replaced by an expedited process such as those published by the Solar America Board for Codes and Standards or referenced as examples in the Solar Ready II materials posted at www.nctcog.org/solar.

1.	REQUIRED INFORMATION		
Тур	e of A	Application	
		Residential	
		Commercial (Also see Part 2: Commercial Building Requirements)	
Тур	e of S	Solar PV System	
		Roof Top	
		Ground Mount	
		Other: Click here to enter text.	
	Size	e of System (kW): Click here to enter text.	
	Completed permit application(s) and supplement information sheet, if required. Select all that apply: (Please contact Building Department for standards)		
		Roof Top: An electrical permit is required	
		Ground Mount: Building and electrical permits are required	
		Other: Building and/or electrical permits may be required	
	Installed in accordance with the National Fire Protection Association National Electrical Code (NFPA 70) as adopted by the State of Texas, applicable ordinances, districts, and/or special use categories (e.g.: zoning or special use, etc.); subject to plan approval.		
		TE: The National Electrical Code (NEC) is the Texas state electrical code. The state adopts the NEC as the te Code on September 1 of any year in which the new NEC Code book is published (every three years).	
		TE: Potential impacts of solar PV projects to other development such as airports should be considered and luated by the local government as appropriate.	
	Construction Documents: Two copies of construction documents shall include, but are not limited to, the following items:		
		Site specific, stamped engineering drawings (reviewed or designed, and sealed by a licensed professional engineer, if determined to be necessary by the building official or their appointed designee), assembly installation plans, manufacturer's installation instructions, and/or equipment manufacturer's data sheets.	
		Make, model, and quantity of module, inverter, and racking system certified to the UL 2703, UL 62109, or UL	

1741 standard by a Nationally Recognized Testing Laboratory as appropriate.

		Framing plans		
		Method of sealing/flashing for roof penetrations		
		Connection details to building or ground mount		
		Structural calculations or load diagram (required only when the PV array weight exceeds 5 lbs./sq. ft) \Box (may require engineer design if deemed applicable by Building Official)		
		Data cut sheets for battery storage if applicable (including type of battery)		
	Site	Site Plan: Include the PV array layout in compliance with the local government design criteria including:		
		Roof plan showing location of equipment and, if required, fire setbacks		
		Existing site easements, property lines, building setback lines, zoning setbacks		
		Typical side view detail of the solar PV system mount on the roof		
		Location of all existing structures and proposed PV system equipment (including modules, disconnects, inverters, panel boards, combiner boxes, storage batteries, utility meters, etc.)		
		Plumbing vent termination: Vent termination is not allowed under solar installations and must be relocated or modified, or an air admittance valve may be utilized in accordance with the International Plumbing Code (IPC) and/or the International Residential Code (IRC).		
		e Code Requirements: Installation complies with Section 605.11 of the 2012 International Fire Code (IFC), or a se recent IFC version.		
meets the determine TDLR; de		ctrical Plans: In addition to the construction documents, include a three line diagram, or a line diagram that ets the requirements of the local government, and complies with the state NEC. The local government should ermine appropriate level of professional design requirements (e.g. preparation by a master electrician licensed by LR; designed and sealed by an engineer, if required by the Texas Engineering Practice Act; or PV equipment nufacturer's engineered line diagram). A proper line diagram should include:		
		AC and/or DC circuit arc fault protection as required by the NEC or ordinance (if any)		
		Inverter listed to the UL 62109 or UL 1741 Safety Standard; photovoltaic module(s) listed to the UL 1703 safety standard. Listings conducted by a Nationally Recognized Testing Laboratory.		
		Inverter AC output disconnect location, utility disconnect location, and AC output over-current protection device rating.		
		Location of combiner box(es), disconnect switch, size of source circuit overcurrent protection, if required		
		Service panel bus rating and main circuit breaker/fuse ampere rating		
		Circuit diagram with conduit, wire type and sizes, and/or cable type and wire sizes		
		Equipment grounding and bonding conductors and grounding electrode conductor, if applicable		
		Battery disconnect and overcurrent protection, if applicable		
		List of all appropriate labels and marking per NEC and IFC requirements		
2.	ADDI	ITIONAL COMMERCIAL BUILDING INFORMATION		
	Build	ding Information: Information about the building the PV system will be attached to:		
	Occ	Occupancy Group: Click here to enter text.		
	Nun	Number of Stories: Click here to enter text.		
	Yea	Year Built: Click here to enter text.		
	Con	Construction Type: Click here to enter text.		
	Area	Area (Square Feet): Click here to enter text.		
	Roo	Roof Type: Click here to enter text.		
	Fire	Fire Sprinkler System (for fully sprinkled building only)		