E1

E2

E3

F4

E5

E6

Solar Submittal Checklist

For: Thermal, Photovoltaic, and Hybrid Systems

Additional information may be required depending upon the project scope. All drawings must be to scale, sealed and signed by the Design Professional

Submittal Documents Solar Thermal: Photovoltaic: Hybrid System: ■ Solar Permit Application ■ Solar Permit Application ■ Solar Permit Application ☐ Plumbing Worksheet ☐ Plumbing Worksheet Electrical Worksheet ☐ Three sets of construction ☐ Three sets of construction ☐ Electrical Worksheet documents and plans documents and plans ☐ Three sets of construction documents ☐ Three sets of roof plans indicating ☐ Three sets of roof plans indicating and plans the location of the panel installations the location of the panel installations ☐ Three sets of roof plans indicating the location of the panel installations **Required Construction Documents and Plans** ☐ For All Systems: Report with structural calculations from an Illinois State Licensed Architect or Structural Engineer verifying that the roof structure can support all imposed loads. If the roof is found to be structurally inadequate, reinforcement drawings by an architect or an engineer, and framing details are required. Specification sheets and installation manuals for all components, such as recirculation pumps, panels, supporting frames and mounting. Provide the attachment details, flashing details, construction design for the unit and any supporting frame members for the Wind Zone, additional loading, and any site conditions. ☐ All documentation must be sealed and signed by the Design Professional. □ Solar Thermal Systems: ☐ Plumbing riser diagram showing the piping system schematic. Specifications for the storage tank, heat exchanger (double wall), expansion tank, thermostatic mixing valve and controller module. □ Photovoltaic Systems: 🗖 1-line electric schematic of the PV array configuration, inverter, power supply, disconnect, overcurrent protection, electrical panel, meter and ground. ☐ For battery backup systems, summarize the standby load Electrical calculations showing that all wire sizing has been determined with proper ampacity, conduit fill and ambient derating factors. ☐ Written specifications for the inverter and power supply. ☐ Proof of the system's compliance with NEC Article 690. □ Hybrid Photovoltaic-Thermal Systems: Please complete all of the above portions. All electrical services must comply with the code sections listed below. Any electrical service that fails to meet those requirements must be brought into compliance prior to or at the same time the PV system is installed. For additional clarification please call 847 448-4311 to schedule an onsite consultation or contact Claude Garesche Electrical Inspector (847 448-8018). Also see ComEd 's Residential Electric Service Installation Guide (Redbook). 2011 NEC 110.26 Working clearances at electrical panel and meter fitting must be maintained. 2011 NEC 250.50 The Electrical Service shall have a compliant Grounding Electrode System. 2011 NEC 230 and ComEd red book Electrical service drop, service riser, weather head, drip loop, point of attachment, meter must meet the minimum required clearances from structures, roofs, above walkways, driveways, operable windows and pools. Service entrance cable not permitted for riser and service entrance to panel. Evanston amendment A Base and ring style meter fittings must be upgraded to ring less style meter fitting. ComEd requirement Electrical meters, PV inverters, disconnects switches cannot be located over stairs or in areas subject to physical damage. If all submittal documents are complete and revisions are not required, the permit shall be issued within 3 business days. Residential permits only. Projects in historical districts may require additional review time. Revisions In order to facilitate prompt review, revisions will be accepted only after all plans examiners have completed reviewing the previous submittal. □ Submit only the sheets that are being revised (3 copies of each sheet). Narrative – Identifying purpose of revision and what is being revised (attached to each set) on company's letterhead paper. ☐ Provide permit number or address of project. □ All revisions shall be identified and clouded. **Contractors** □ Solar Contractor- Provide contact information ☐ Plumbing Contractor - Provide a State of Illinois Plumbing License and contact information ☐ Electric Contractor - Provide a license from testing municipality and contact information Inspections More than one inspection may be performed during any inspection visit (by inspector properly licensed in the trade they are inspecting).

Solar Thermal: Photovoltaic: Hybrid System: □ Plumbing - Final ☐ Electrical - Rough and Final □ Electrical - Rough and Final ☐ Plumbing - Final

Solar Permit Application

For: Thermal, Photovoltaic and Hybrid Systems

Please type or print in ink. All applicable lines must be completed.

		General I	nformation
Property Address (1234 Main Street format	only, please):	Floor/Unit #:
Scope of Work:			
Applicant Name: _		Email Address:	Phone Number: X
Property Owner:		Phone #:	Address (if different):
Email Address:		Wo	rk Valuation (required): \$
Architecture Firm: _			Phone #:
Architect Email Add	dress:		
		Buildi	ng Use
(Check all that apply)			24 LIQUID EMEDOENCY CONTACT
-	ntal: # of units		24 HOUR EMERGENCY CONTACT
☐Single Family	☐ Commercial	□Addition	DURING CONSTRUCTION HOURS
□Garage	Office	Condo	NAME:
□ Restaurant□ Exterior Reno.□ Other:	□ Educational □ Interior Reno.	□Retail □Health Care	PHONE NUMBER
General Contractor Address: Evanston License Plumber Contractor Address: IL State License # Electrical Contractor Address:	or: #: or: t: ttor:	er this job. If the contracts are out t	Information o bid, this portion can be completed prior to permit issuance Phone #:
Are there any <u>exter</u> If YES, you	rior modifications to th	e property where the panel(s) is to a e property? ificate of Appropriateness ere:	Historic District be installed is a landmark or is in a historic district.
		SIGN HERE	PRINT NAME HERE
I have complete	ed this application on shall be in stric	n honestly and to the best of	my knowledge. I understand that all work performed pursuan ons of the City of Evanston statutes, laws, rules, regulations
Applicant Signa	ature:		Date:
	FOR OFFICE USE	ONLY PERMIT #	