



Submittal Requirements Bulletin – Solar Pool Heating Installations 30 kWth or Less for One- and Two-Family Dwellings

This information bulletin is published to guide applicants through a streamlined permitting process for solar pool heating (SPH) projects 30 kWth (462 square foot) in size or smaller. This bulletin provides information about submittal requirements for plan review, required fees and inspections.

Note: Language in italics indicates explanatory notes from the authors of this Guidebook.

1. Approval Requirements

The following permits are required to install a SPH system with a maximum thermal output of 30 kWth or less:

- a) Solar Permit

Planning review is required for SPH installations of this size.

2. Submittal Requirements

- a) Completed permit application form. This permit application form can be downloaded at www.huntingtonbeachca.gov
- b) Demonstrate compliance with the eligibility checklist for expedited permitting. These criteria can be downloaded at www.huntingtonbeachca.gov

This Guidebook recommends use of a simple checklist to clearly identify eligibility criteria for expedited permitting, where established.

- b) A completed Standard Plumbing, Electrical and Structural Plan. The standard plan may be used for proposed solar installations 30 kWth in size or smaller and can be downloaded at www.huntingtonbeachca.gov

A standard plan should be submitted that includes the following:

- *Total number of collectors and area*
 - *Make, model and collector certification number*
 - *Major components*
- d) A roof plan showing roof layout and solar collectors with attachment details.
 - e) Standard one-line plumbing diagram of system showing and labeling major components.
 - f) Equipment cut sheets including collectors, controller, motorized valve (if applicable).
 - g) Completed expedited Structural Criteria checklist along with required documentation. Structural Criteria can be downloaded at www.huntingtonbeachca.gov

For systems that do not meet all the requirements in the structural criteria checklist, provide structural drawings and calculations along with the following information.

- The type of roof covering and the number of roof coverings installed
- Type of roof framing, size of members and spacing
- Weight of panels, support locations and method of attachment
- Framing plan and details for any work necessary to strengthen the existing roof structure
- Site-specific structural calculations
- Where a racking system is used, provide documentation showing manufacturer of the rack system, maximum allowable weight the system can support, attachment method to the roof or ground and product evaluation information or structural design for the rack system

This Guidebook recommends that local jurisdictions adopt a prescriptive approach to establishing minimal structural requirements that avoids the need for structural calculations. A simple list of criteria is provided in this Guidebook (SWH Toolkit Document #4). A full explanation of the methods and calculations used to produce these criteria can be found in the Structural Technical Appendix for Residential Rooftop Solar Installations at:

http://www.opr.ca.gov/docs/Solar_Structural_Technical_Appendix.pdf.

3. Plan Review

Permit applications can be submitted to the Building & Safety Division in person at 2000 Main Street (3rd Floor), Huntington Beach, CA 92648.

Permit applications utilizing standard plan should be reviewed within 3 business days.

4. Fees

15 kW or less: \$384 flat fee

More than 15 kW: \$384 + \$10 per kW above 15

5. Inspections

Once all permits to construct the solar installation have been issued and the system has been installed, it must be inspected before final approval is granted. On-site inspections can be scheduled by contacting the Building & Safety Division by telephone at (714) 536-5241 or electronically at <http://www.huntingtonbeachca.gov/services/forms-applications/inspection-request/index.cfm> Inspection requests received within business hours are typically scheduled for the next business day. If next business day is not available, inspection should happen within a five-day window.

Permit holders must be prepared to show conformance with all technical requirements in the field at the time of inspection. The inspector will verify that the installation is in conformance with applicable code requirements and with the approved plans.

The inspection checklist provides an overview of common points of inspection, and the applicant should be prepared to show compliance with these points.

6. Departmental Contact Information

For additional information regarding this permit process, please consult our departmental website at www.huntingtonbeachca.gov or contact the Building & Safety Division at (714) 536-5241.