



This Helps To Process Qualifying Residential Solar Installations to go Straight from Permit Application to Inspection



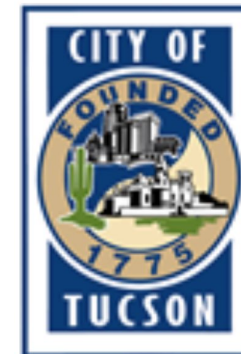
Lead Organization is NREL – National Renewable Energy Lab (Federal Energy Department)

Simulates Plan Review through Entering Technical Data directly in to the APP

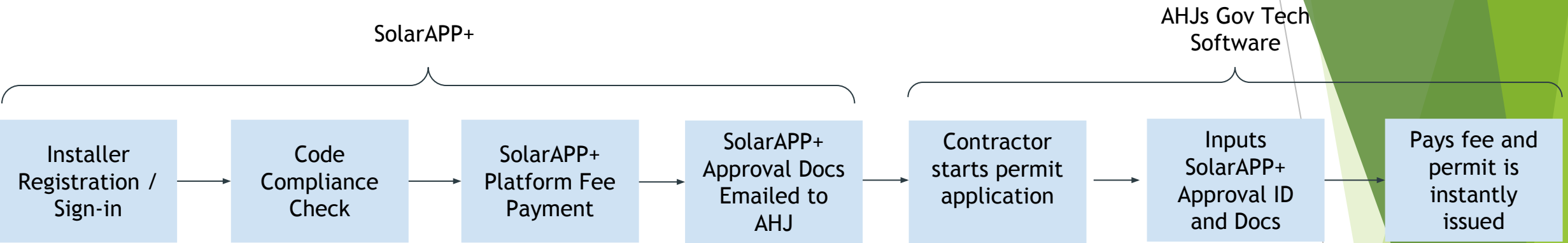
Complex Verifying Database Embedded Within That has Been Built by Code Professional Organizations, and Industry Experts.

Participating Jurisdictional Partners are Currently using the APP.

Pleasant Hill Issued the First SolarApp Permit on Election Day 2020.



Software Implementation Package 1: Automated Plan Review



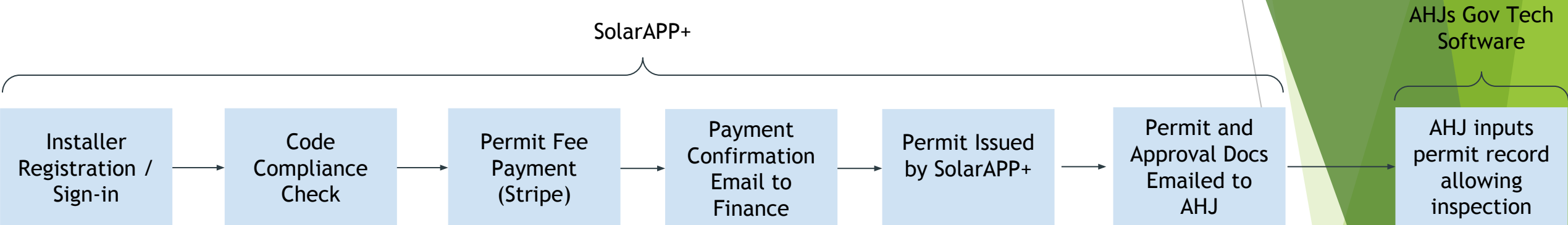
•AHJ Requirements

- AHJ repurposes instant permit process for solar.
- AHJ adds new input for SolarAPP Approval ID
- AHJ accepts via email or uploaded approval document.
 - (IF DESIRED as part of record)
- AHJ maintains permit process for ineligible solar projects.

• Included in SolarAPP+

- Automated plan review for code compliant systems
- Ability to adopt newer model codes.

Software Implementation Package 2: Standalone Permitting System



- **AHJ Requirements**

- AHJ creates a new Stripe account tied to their bank account
- AHJ manually uploads record of SolarAPP+'s issued permit received from email to enable inspection scheduling
- AHJ maintains permit process for ineligible solar projects

- **Included in SolarAPP+**

- Automated plan review for code compliant systems
- AHJ fee collection through Stripe
- Permit and inspection job card issued immediately
- Ability to adopt newer model codes.

Sample Job Card



City of Pleasant Hill, CA
100 Gregory Lane
Pleasant Hill, CA
945239256715214



Scan to open project

Post this Permit on Jobsite

Project

SolarAPP ID
SA20210528-8-23-2-A

PERMIT EXPIRATION
11/24/2021

PERMIT ISSUANCE
05/28/2021

SYSTEM SIZE
4.08

SCOPE OF WORK
4.08kW PV Array

ADDRESS
529 Odin Dr
Pleasant Hill, CA 94523

Contractor

NAME
Tesla

PHONE
3106176411

ADDRESS
47700 Kato Rd
Fremont, CA 94012

STATE LICENSE NUMBER
888104

STATE LICENSE EXPIRATION
12/31/2022

CITY BUSINESS LICENSE
37782

CITY BUSINESS EXPIRATION
08/31/2021

Inspection

PHONE
9256715200

WEBSITE

REQUEST CODE
x1

PROJECT TYPE
PV

Fee Summary

SolarAPP Platform Fee	\$25
Total Paid	\$25

SCHEDULE INSPECTION

When leaving a voice message, please be sure to leave your: SolarAPP+ permit number, phone number, date requesting inspection, AM or PM. Requests will be honored up to 7a.m. the morning of the inspection date requested, pending availability.

Inspection Activities

REQUESTED	COMPLETED	RESULT	SIGNATURE	DESCRIPTION
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

This permit is valid for 180 days and must be present on the jobsite at the time of inspection.

Version: 1.2.1



Approval ID: SA20210528-8-23-2-A

City of Pleasant Hill, CA



2 - 3 Pages Checklist

Inspection Checklist



Address: 529 Odin Dr Pleasant Hill, CA 94523 **Permit #:** 685 **AHJ:** City of Pleasant Hill, CA **Scope of work:** 4.08kW PV Array

Main Service Panel Equipment		Pass
Main Breaker Ampere Rating Size: INPUT AMP	100 AMP	<input type="checkbox"/>
Main Bus Ampere Rating Size: INPUT AMP	100 AMP	<input type="checkbox"/>
Utility Service Rating: INPUT	100	<input type="checkbox"/>

Interconnection at Main Service Panel		Pass
Single Phase Grid Voltage: INPUT Volts	240	<input type="checkbox"/>
System Point of Interconnection Compliance Method At Main Service Panel: 705.12 (B) (2) (3) (b), 120% Rule Where two sources, one a primary power source and the other another power source, are located at opposite ends of a busbar that contains loads, the sum of 125 percent of the power source(s) output circuit current and the rating of the overcurrent device protecting the busbar shall not exceed 120 percent of the ampacity of the busbar.		<input type="checkbox"/>
Backfeed breakers are at opposite load ends of the panel.		<input type="checkbox"/>

Equipment Point of Interconnection		Pass
There is no existing Utility interactive power production source connected to the home's electric service. - Only the utility interactive power production sources and/or photovoltaic modules specified on this inspection checklist list are present on site.		<input type="checkbox"/>
All power production inverter outputs have the same point of connection.		<input type="checkbox"/>
If connected equipment is NOT within line of sight or closer than 10ft to the point of interconnection, disconnect or isolation means are installed.		<input type="checkbox"/>

Inverter		Pass
EGC Wire Size Inverter 1: INPUT	12	<input type="checkbox"/>
Overcurrent Protective Device rating: Inverter 1: INPUT	20AMP	<input type="checkbox"/>
AC Wire size Inverter 1: INPUT	12	<input type="checkbox"/>
AC Circuit Conduit size Inverter 1: INPUT	1/2" trade size	<input type="checkbox"/>
Maximum number of AC current carrying THWN-2 wire conductors in raceway: INPUT	2	<input type="checkbox"/>
Inverter 1 model number: INPUT	1534000-xx-y [240V]	<input type="checkbox"/>
Inverter 1 manufacturer: INPUT	Tesla Inc.	<input type="checkbox"/>



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20 Pages of Deeper Information

FIRE SAFETY CODE REQUIREMENTS

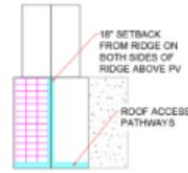
Does the home have sprinkler systems?	No
% of Roof Area covered with PV = Total Array Area/Total Roof Area: {C17}/{I102} = {C15}	9.52%

Roof Access and Ventilation Diagrams

Fire Safety

Ridge Setbacks

PV Less Than 33% Roof Area (66% for homes with sprinkler systems)



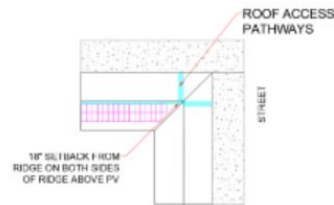
Emergency Escape & Rescue Opening

Minimum 3' Emergency Escape Pathway

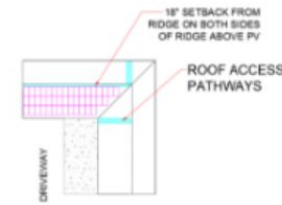


Hips and Valley Setbacks

PV Less Than 33% Roof Area - Street Access (66% for homes with sprinkler systems)



PV Less Than 33% Roof Area - Driveway Access (66% for homes with sprinkler systems)



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Solar APP+
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