

SWS Variance Request Form
(complete one form for each request)

<p>Proposed State Standard</p>	<p>The [REDACTED] WAP Field Standards shall require the following:</p> <p>1.11 Knob and tube electrical wiring is often found in the walls and attics of older homes. The possibility that insulation may trap heat produced by overloaded knob and tube wiring circuits requires insulation shall be kept 3 inches away from any live knob and tube wiring. Depending on agency policy, [REDACTED] Building Code allows insulation to be installed over, around or in contact with knob and tube wiring if the following conditions are satisfied. (Article 394, 2011 [REDACTED] Electrical Specialty Code). Contractor, assessor, auditor, or similar will inspect and assess the house to identify knob and tube wiring. Non-contact testing method will be used to determine if wiring is live. (SWS 2.0601.1a-c)</p> <p style="text-align: center;">When active Knob & Tube wiring is present, A warning sign must be posted at all entries to the attic indicating the presence of knob and tube wiring. (SWS 2.0601.1c)</p> <p>1.12 If knob and tube wiring exists in an attic space and is known to be dead (verified and documented by a licensed electrician) then the wiring may be covered by insulation.</p> <p>1.13 A licensed electrical contractor will inspect and certify wiring to be safe. This includes repairs, alterations or extensions to the electrical system. (SWS 2.0601.1c)</p> <ol style="list-style-type: none">1. All defects found during the inspection shall be repaired prior to the installation of insulation.2. All knob and tube circuits shall have over-current protection in compliance with the 60°C column of Table 310-16 of National Fire Protection Agency (NFPA) 70-1 990. Over-current protection shall be 15 amp circuit breakers or Type S fuses. The Type S fuse adapters shall not accept a fuse of an ampacity greater than that permitted in this chapter.
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	<p>1.14 <i>Fiberglass and cellulose insulation are acceptable for use in contact with approved knob and tube wiring. Foamed-in place insulation shall not be used with knob and tube wiring.</i></p> <p>1.15 <i>Non-soldered exposed splices or connections shall be protected by installing solid flame resistant enclosure, securely attached with at least 3 inch clearance from insulation.</i></p> <p>1.16 <i>When existing knob and tube wiring will not be upgraded, it shall not be covered. (SWS 2.0601.1c)</i></p> <p>1. <i>It is allowable to insulate below the knob & tube wiring with nothing above. An unfaced fiberglass batt of highest R-value possible shall be placed under the knob and tube wiring.</i></p> <p>2. <i>To maintain a minimum 3 inch air space to the sides of the knob and tube wiring. A dam shall be created using unfaced fiberglass batts at least 14 ½ " in width and equivalent to an R-38 to prevent attic insulation from covering the knob & tube wiring.</i></p> <p>3. <i>The balance of the attic may be blown to full insulation depth. Taking precautions not to cover any protected knob & tube wiring.</i></p>
<p>Relevant SWS(s)</p>	<p>SWS 2.0601.1</p>
<p>Objective of Relevant SWS</p>	<p><i>To ensue unsafe K&T wiring is identified and brought to local codes</i></p>
<p>Difference between Proposed and SWS Language</p>	<p><i>Article 394 in the [REDACTED] Electrical Specialty Code allows insulation to be installed over, around or in contact with knob and tube wiring if a licensed electrician inspects and certifies the K&T for insulation cover. [REDACTED] would like to continue to offer this option to our sub-grantees.</i></p> <p><i>When wiring cannot be deemed safe, K&T wiring will be protected as per the SWS to prevent insulation contact. All other conditions of the SWS K&T requirements will apply. K&T wiring will be identified and signage will be posted.</i></p> <p><i>The SWS does not offer the option of insulation cover.</i></p>

Specific Conditions Where Variance will Apply	<i>Homes with K&T Wiring in attic spaces.</i>
Reasoning/Justification (Include supporting technical materials as appropriate)	<p><i>K&T wiring is routinely found in attics in [REDACTED] To simply dam K&T wiring is allowable, but the option to have the wiring certified for insulation cover allows [REDACTED] to provide full R-value over the entire attic area. Thus providing a more effective, safe and thorough end product to the client. Below is a link to the 2011 Electrical Specialty Code:</i></p> <p><i>http://www.nfpa.org/codes-and-standards/document-information-pages/free-access?mode=view</i></p>

DOE Review Notes:

Required Signatures:

[REDACTED]

Grantee Representative submitting request

[REDACTED]

Date

DOE Technical Approval

Date

Variance Request Instructions

Proposed State Standard - Include specific standards language and references where available.

Relevant SWS(s) - Link to relevant SWS; indicate specific row where appropriate.

Objective of Relevant SWS - Copy text from relevant SWS(s).

Difference between Proposed and SWS Language - Describe difference between proposed standard and SWS.