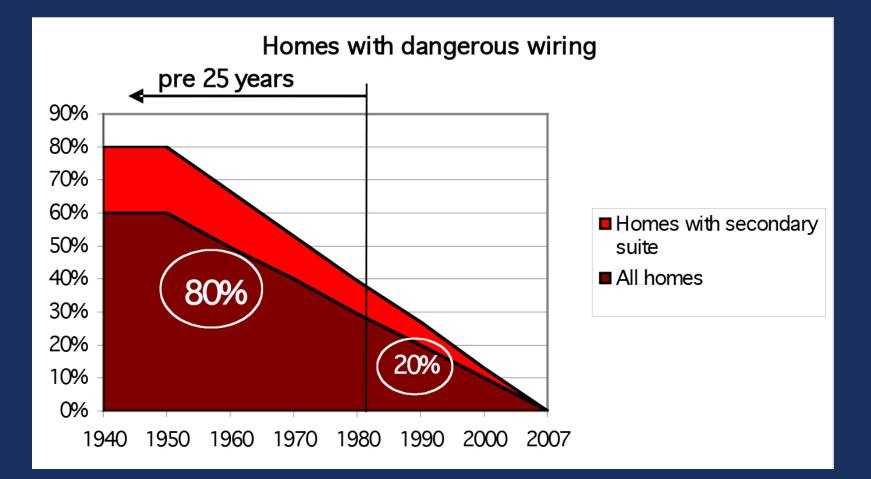
ELECTRICAL FIRE RISKS IN OLDER HOMES

Houses built Pre-1960









Key causes of electrical fires in houses built pre-1960

- Lack of maintenance/ deterioration
- DIY Work
- Faulty equipment without ground protection
- Occupant actions





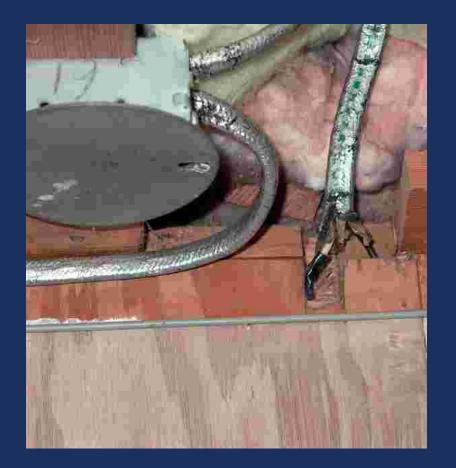
Lack of Maintenance

Build up of debris is due to age and openings.

No sparks, no fire.

In literally every house we see built pre-1960 there is a build up of debris in the electrical boxes!





DIY Work

In literally every house built pre-1960 we find hazardous Do-It-Yourself (DIY) work present.

As such, for every report we are writing, the house is rated **"High Risk".**



DIY Work

In almost every house with DIY work we find open knock-outs.

Open knock-outs attract spiders and debris.



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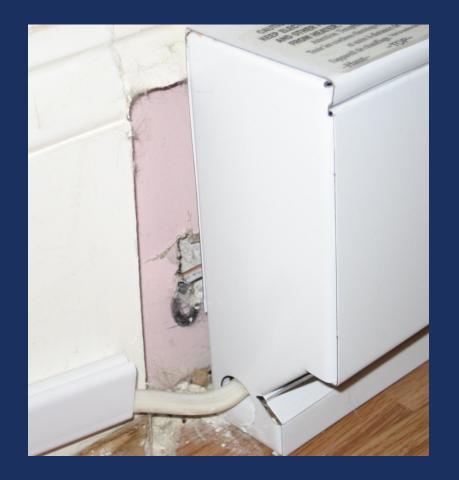


DIY Light Installation

Connections loose & not in a junction box.

In 30% of houses we find lights hazardously installed.





DIY installed baseboard heater

Cable without box connectors can lead to fire.

In 10% of houses baseboard heaters are hazardously installed or are in hazardous locations.





DIY Garage Feeder

In 20% of houses garage feeders are hazardous.



Ungrounded wiring

In almost every house we see built pre-1960 ungrounded wiring is present:

- "Knob and tube" in houses pre-1950
- "Ungrounded cable" in houses
 1950 to as late as 1962

In every house we find the original outlets swapped for modern 3-prong.

Not safe, as no ground protection of modern equipment.



Knob & tube (pre-1950)



Ungrounded cable, NMD-1 (1950 - 1962)





Knob & tube solution

In nearly all houses the knob-and-tube wiring is in fine shape, not requiring replacement.

Fortunately there is an excellent and inexpensive solution, providing groundfault protection of modern equipment:

GFCI protection of the outlets!



A concern with cloth-jacket (older style) NMD cables







Occupant actions can also be dangerous!

Extension cord stapled to wall/ overloaded/ through walls/ under rugs.

Found in 30% of houses built pre-1960.



SUMMARY Key causes of electrical fires:

- 1. Deterioration due to age
- 2. DIY work
- 3. Faulty equipment without ground protection
- 4. Occupant actions

What is the main indicator for HIGH Risk homes?

Age of house

