Stove Safety

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Motivation

Cooking fires are an ongoing source of injury (burns and scalds) of women and children.

Approach

- Safety Engineering
- First World Safety Standards (ANSI)

Hazardous Analysis

- High temperatures
- Open flame
- Stability
- Fuel falls out
- Physical integrity
- Combustion of other materials
- Sharp edges
- Pinch points
- Materials hazardous

Potential Processes

Safe/Unsafe

- Similar to first world standards
- All or nothing approach
- One size fits all

Safety rating (*,**,***,…)

- US autos use similar rating
- Enables improvement and creation of safer stoves
- Does not create a “safe” product

Concerns and thoughts

- Design is compromise
- Puts safety “on the table”
- Some items are hard to check or monitor (material hazards)

Next Steps

- Comment and discussion at PCIA Workshop
- Publication of results
- Development of safety handbook and kit
- Training