Collapsible, Lockable Tent
Microwave Metal Detector

Red B
Safety & Security
October 2, 2008
The Tent

- Rigid structure collapses into a small package
- Carrying size (3’ x 8” x 2’)
- Becomes full size sturdy tent (6’ x 6’ x 5’)
- Lockable
- Collapsible
- Durable
Emergency Shelter Market

- Hurricane Katrina:
  - 200,000 houses destroyed
  - In 2006, 60,000 trailers and still more waiting
  - $3,322 monthly for trailers

- Customer: FEMA

- Contact: Red Cross

- Major Competitors: Existing temporary solutions (FEMA trailers)
Feasibility

- Technical difficulty
  - Taking a flat sheet and folding into a tent
  - Making solid rigid structure
  - Pinning together

- Practical to make
Design Alternatives

- Customizable DIY Kit
- Sellable Idea with Building instructions
- Structure (Complex geometry)
  - Rounded Tent
- Wall Material
- Locks
- Joining