**Mighty Mite Killer Thermal Treatment Checklist**

**Pre-Treatment Hive Preparation to be done prior to MMK rental**

* Record Mite Count
* Watch Instructional videos
* Set up power source
* Prep bottom Board

**Day of MMK Treatment**

* Cut Coroplast white to correct size – if needed
* Remove queen excluder from hive
* Cut small notch in the rear center top edge of lowermost brood box
* Apply partially-inserted 1/2-5/8” staple to top of the centermost frame of lowermost brood box
* Attach remote sensor by sliding the metal sensor beneath previously installed staple
* Remove anti-moisture protective cap from remote temperature sensor.
* Check outside air temp to determine if additional taping will be required.
* Place the provided Styrofoam insulation board on uppermost brood box.
* Place any honey supers on top of the insulation board.
* Place inner cover & top cover on uppermost box, leaving ventilation hole open in center of inner cover.
* Add brick or large rock on top cover
* Connect remote temperature sensor wire to heater controller unit..
* Insert heater plate (white side up) thru bottom hive entrance.
* Install the provided special entrance reducer and tape into place
* To start heat treatment, plug electric controller into 110/120 v power source
* **Carefully follow Lynn Williams written instructions that come with MMK.**
* When green flashing light replaces blue flashing light, remove special entrance reducer.
	+ At outside temperatures less than 800 F, insert a regular entrance reducer set at larger (approximately 3”) opening
	+ If mite-kill temperature fails to continue (green-flashing light goes back to blue-flashing light), try setting entrance reducer to the smaller (approximately 1/2”) opening.
* After treatment ends, carefully remove heater plate, let cool
* Replace anti-moisture protective cap to quick-connector end on remote temperature sensor.
* Count mites (record & submit data).

**After MMK Treatment**

* Carefully clean heater plate (do not scratch white surface—do not use hive tool! —best to reheat & wipe clean with soft cloth).
* Insert coroplast white board & leave in place for 10 days
* Once cleaned, coroplast white boards can be reused for future heat treatments.
* **Heater plate must be cleaned of all insects, debris, wax, & honey** before returning to Bee Club.
* Do not disassemble the controller or heater plate.  If maintenance is required, return unit to the McDowell Bee Keeper Thermal Hive Treatment Program Chairman.
* Be sure and return all parts and equipment to Program Chairman—be careful not to lose or misplace any parts or instructions.
* Counts mites on white board at 3, 6, & 10 days after heat treatment; record & submit data.