**Standard Sanitary Operating Procedures for Flowered Cow Dairy LLC**

When entering the milk room to work, please have clean boots, wash hands, and put on an apron!

**Morning Milking (5:15 am)**

1. Put on towel apron and fill with towels, grab milking caddy with dry rags and 1-2 wet rags and check if teat dip needs filled.
2. Assemble milk filter/strainer by putting the flat metal piece on the bottom, filter, and domed metal piece on top and secure with the squeeze wire thing. Set back on shelf
3. Assemble milker by putting the seals.
4. Take milker and caddy out to stanchions.
5. Bring in cows
6. Feed 1/2 scoop feed with 1 oz Lassahol per cow
7. Put on latex gloves
8. Rub udder down with dry rag, wipe teats with damp rag if needed, use Uddermint if needed, dip teats with iodine teat dip, wait 30+ sec to wipe off, and strip into strip cup and taste milk for saltiness
9. Start the vacuum pump, attach the hose and pull up the black valve on the claw to create pressure.
10. Attach milker and milk/finish milking and remove milker when milk has slowed to a very small stream or has stopped. If you are not sure if she is completely milked out, hand strip her teats after removing milker to be sure.
11. Begin prepping next cow while previous cow is milking
12. Carry milker into milk room
13. Fit strainer on top of the tank and pour in the milk.
14. When the bucket is empty, attach the lid, take out to stanchions, and repeat the process.
15. When all cows are milked, post dip their teats with iodine teat dip.
16. After finishing milking cows, empty milker for the last time, take the strainer off the tank and put the lid back on
17. Let the cows out. Wash down stanchion floor with hose and sprayer. Sweep the walkway.

\*When the milker bucket is sitting on the floor, put a cutting board underneath it

**Milker Cleaning Protocol**

1. Bring vacuum line into milk room.
2. Run 4-5 gallons cool water through milker, empty milker bucket pouring out of both sides
3. Wipe down inflations/tubing with the cleaner solution. Take seals out and wash around them with rag and reassemble. Run hot soapy water (4 gallons hot water/3 oz Chlorinated Pipeline Cleaner) through milker 3x, empty milker bucket.
4. While the cleaner is cycling, wipe off bulk tank, wipe out caddy, and run rag down vacuum line and spray out the teat dip cup.
5. Run 5 gallons hot water through lines.
6. Run acid rinse 2x (1 oz Power Team/5 gal. hot water), empty milker bucket\*
7. Pour acid rinse into the sink and rinse off strainer
8. Scrub out milker bucket in sink of hot, soapy water and place upside down to dry
9. Hang claw up to dry and remove seals, and unscrew claw

\*Note: Monday and Friday mornings use 4 gal hot water/2 oz Power Team

See Afternoon Milking for **Other Equipment Cleaning**

**Afternoon Milking (4 pm)**

1. Clamp on valve and plate on the bulk tank and start the tank by pressing red button.
2. Put on towel apron and fill with towels, grab milking caddy with dry rags and 1-2 wet rags
3. Assemble milk filter/strainer by putting the flat metal piece on the bottom, filter, and domed metal piece on top and secure with the squeeze wire thing. Set back on shelf
4. Assemble milker by putting the seals.
5. Take milker and caddy out to stanchions.
6. Bring in cows
7. Feed 1/2 scoop feed per cow
8. Put on latex gloves
9. Rub udder down with dry rag, wipe teats with damp rag if needed, use Uddermint if needed, dip teats with iodine teat dip, wait 30+ sec to wipe off, and strip into strip cup and taste milk for saltiness
10. Start the vacuum pump, attach the hose and pull up the black valve on the claw to create pressure
11. Attach milker and milk/finish milking and remove milker when milk has slowed to a very small stream or has stopped. If you are not sure if she is completely milked out, hand strip her teats after removing milker to be sure.
12. Begin prepping next cow while previous cow is milking
13. Carry milker into milk room
14. Fit strainer on top of the tank and pour in the milk.
15. When the bucket is empty, attach the lid, take out to stanchions, and proceed with the next cow
16. When all cows are milked, post dip their teats with iodine teat dip.
17. After finishing milking cows, empty milker for the last time, take the strainer off the tank and put the lid back on
18. Let the cows out. Wash down stanchion floor with hose and sprayer.

\*When the milker bucket is sitting on the floor, put a cutting board underneath it

**Milker Cleaning Protocol**

1. Bring vacuum line into milk room.
2. Run 4-5 gallons cool water through milker, empty milker bucket pouring out of both sides
3. Wipe down inflations/tubing with the cleaner solution. Take seals out and wash around them with rag and reassemble. Run hot soapy water (4 gallons hot water/1 scoop Duo Pfan) through milker 3x, empty milker bucket.
4. Run 5 gallons hot water through lines.
5. Run acid rinse 2x (1 oz Power Team/5 gal. hot water), empty milker bucket
6. Pour acid rinse into the sink and rinse off strainer
7. Scrub out milker bucket in sink of hot soapy water and place upside down to dry
8. Hang claw up to dry and remove seals, and unscrew claw

**Other Equipment Cleaning**

1. Empty milker apron pockets and spray off. Hang upside down to dry
2. Rinse strainer and any other equipment with cool water sprayer while buckets are filling in the sink
3. Scrub with hot soapy water and rinse with acid rinse
4. Set upside down to dry

**Jar Cleaning**

1. Scrub all encrust milk and mold off of jars and lids
2. Place jars and lids in dishwasher, fill detergent, and run on Heavy Boost
3. When finished, take jars out of dishwasher and label with date and put on cart. If not using right away, put on the bottom shelf of the cart upside down on a clean towel.
4. Put clean lids in the dishpan

**Milk Bottling (Bottle between morning and afternoon milking)**

1. Have clean jars ready with date on them
2. Set the lid dishpan on top of the tank
3. Attach bottling fitting. First attach the adapter, then the spout
4. Fill jars and cap
5. Once all jars are filled and the tank is empty, transfer jars to a refrigerator

**Bulk Milk Storage**

1. Run milk into clean metal storage cans
2. Place cans in refrigerator
3. After emptying the cans and lids, thoroughly scrub out with hot soapy water, acid rinse, and place upside down to dry

**Bulk Tank Cleaning**

1. Begin running 5 gallons hot water/1 oz Power Team into a 5-gal bucket
2. Spray tank out with cool water, valve open
3. Spray tank with hot water, add Heavy Duty Dairy Utensil Cleaner and scrub the tank and lid, inside and out with valve shut
4. Rinse clean with valve open
5. Shut valve, and pour in the acid rinse. Take the small chemical measuring cup and pour the acid rinse over the sides, paddle, and lid.
6. Drain acid rinse into a bucket and remove tank valve
7. Scrub the tank outlet with soap and the outlet brush; spray to rinse
8. Scrub all parts of the valve with hot soapy water and brush, drop into the acid rinse
9. Set all valve parts on shelf to dry and put the lid back on the tank
10. Leave the bottom outlet open

**Every week:**

* Conduct 2 milk test using on farm lab.
* Sweep & dust milk room
* Every week on Thursday:
1. Break down milker completely
2. Soak parts (except pulsator) in hot soapy water for 15 minutes
3. Scrub each piece
4. Rinse with water
5. Air dry and reassemble

**As needed:**

* Clip hair on cows’ udders
* Conduct CMT test
* Every 6 months replace inflations

**Yearly:**

* Replace all Y’s and tubing