Creambrook Farm Sanitary Operating Procedures (SOP)

Preparing for Milking

1. Remove the downpipe from the CIP vat and install on the milkline to the bulk tank.
2. Turn the bulk tank to switch to cool and push the pre-chill button.
3. Turn on the plate chiller.
4. Turn off manure pump throw switch.
5. Turn the milk system on and shut off the wash air valve.
6. Observe that the vacuum is 12 inches and that the receiving jar and plate cooler are operating properly.
7. Pull plugs on the milking claws to the off position.

Milking Procedure

1. Inspect the teats for any manure stuck to the teat. If present, wipe the manure off with a sanitized rag.
2. Apply iodine based pre-dip to the cow's teat. Let it sit for 20-30 seconds before the next step
3. Pre strip each teat of the cow looking for any discoloration, chunks, or other abnormalities. If any of the above is detected the milk is to be segregated in a separate milk can.
4. Take a clean rag and wipe the teat clean inspecting the teat ends for any hidden dirt.
5. Pre-stip all 30 days or less fresh cows that are marked with a yellow leg band inspecting the milk.
6. Apply the milker taking care to make sure all the teats are properly attached.
7. Before removing the milker observe that all of the quarts are milked out properly and there is no abnormal swelling or other udder injury.
8. Once the cow is completely milked out remove the milker and apply a iodine based post-dip.
9. If abnormal or suspect milk is found the cow is to be milked in the designated bucket milker for none bulk tank milk. All such cows must have a red leg band.

Washing Procedure.

1. Thoroughly wash all of the milkers and attach them to their designated CIP spot.
2. Remove the down pipe from the tank and install it in the wash position on the CIP
3. Turn the wash control box to rinse
4. Once the rinse cycle is finished remove the sock filter observing if there are any abnormalities or excess dirt.
5. Fill the detergent and acid sanitizer jars with their designated chemicals.
6. Before leaving the milkhouse observe that the detergent cycle is utilizing hot water in excess of 160 degrees.
7. Once a week use the hot rod detergent instead of the standard detergent.

Setting up for Bottling

1. Add hot water and 1 cup of chlorine to the bottler CIP sink.
2. Turn the milk pump on and circulate the water for 3 min.
3. Drain the water completely from the hoses and pump.
4. Assemble the bottler reservoir and filler valve assembly
5. Sanitize the bottler stand and all bottling tables
6. Install the bottler reservoir and attach the milk hoses to the bulk tank and reservoir
7. Turn on the pump and observe that the reservoir is filling correctly

Bottling

1. Take a clean milk jug from it’s plastic bag and install a label onto the jug
2. Slide the jug onto the bottler placing it with the jug paddle onto the filler lift.
3. Press the foot pedal to lift the jug against the filler valve
4. When the jug is completely full lower the jug and slide it to the capper.
5. When the machine is activated to fill the next jug it will automatically place the cap and push it in place.
6. Observe that the cap is seated properly with no leaks or imperfections
7. Rinse the jug with cold water removing any excess milk before placing in a milk crate
8. Move the filled crates to the walk in cooler.

Cleaning the Bottler

1. Detach the milk hoses from the bottler reservoir and the bulk tank attaching them to the CIP vat
2. Remove the reservoir from the bottler stand and disassemble into the CIP vat.
3. Fill the vat with cold water and rinse all of the individual parts.
4. Turn on the pump and circulate the cold water running it out of the vat
5. Fill the vat with hot water and 1 cup of detergent
6. Turn on the pump and circulate the water for 3 min. Observing that all of the parts are thoroughly covered in the water
7. Drain the detergent water
8. Fill the vat with cold water and add 1 cup of acid.
9. Turn on the pump and circulate the water for 3 min. Observing that all of the parts are thoroughly covered in the water
10. Drain the acid water making sure the hoses and pump are completely dry.
11. Wash the bottler stand and all the tables with hot soapy water

Bulk Tank Washing

1. Rinse the bulk tank with the hose using cold water
2. Remove the tank valve and install the tank washer
3. Fill the detergent and acid sanitizer jars
4. Turn the washer control box to start