

5. **APPENDIX E - BIOSOLIDS COMPOSTING FACILITY BIOSOLIDS PROCESS EQUIPMENT
MAINTENANCE SCHEDULE**

BRRMF Composting Facility Biosolids Composting Facility Maintenance Schedule

Table 1

Supreme 700T Mixer

Unit	Description	O&M Manual Spec Section	Hours of Operation				
Mixer	Mixer operations 24/ hrs / week x 52 weeks x 2 years = 2500 hrs	O&M Spec Section 14551	Every 10	Every 50	Every 100	Every 600	Every year or 1500 whichever comes first
Mixer	Check Oil Reservoir oil level C.O.W. Operator	14551	X				
Mixer	Grease Secondary Drive Line Daily _ COW Operator Contractor to grease every 50 hrs	Refer to PTO Section 14551 In Operator's Manual for lubrication procedures	X	X			
Mixer	Grease telescoping Final Driveline Daily _ COW operator Contractor to grease every 50 hrs	Refer to PTO Section 14551 In Operator's Manual for lubrication procedures	X	X			
Mixer	Check conveyor chain tension	14551		X			
Mixer	Grease conveyor bearings	14551		X			
Mixer	Grease	14551		X			

	second cutter bearings						
Mixer	Check second cutter gearbox oil level	14551			X		
Mixer	Check hydraulic circuits for leakage C.O.W. Operator	14551	X				
Mixer	Check fluid coupler oil level	14551				X	
Mixer	Check driveline steady bearing	14551				X	
Mixer	Check for loose or damaged wiring					X	
Mixer	Check for loose or damaged fasteners					X	
Mixer	Check condition of guards					X	
Mixer	Check Auger knife wear					X	
Mixer	Check Auger knife bolt wear					X	
Mixer	Check Auger Flight wear					X	
Mixer	Check Auger kicker plate wear					X	X
Mixer	Change Axle Oil Bath Oil						X
Mixer	Change Planetary Oil						X
Mixer	Change Planetary Gear box Oil						X
Mixer	Change						X

	Fluid Drive Gearbox oil						
Mixer	Change 2 speed Gearbox oil						X
Mixer	Change Fluid Coupler oil						X
Mixer	Change second cutter gearbox oil						X
Mixer	Grease Planetary Gearbox (if applicable)						X
Mixer	Replace augers with spare set of cutting edges and apply hard surface on bolts heads and auger edges if required						X

Table 2 M1 and M2 Conveyors

Unit	Description	O&M Manual Spec Section	Hours of operation	Hours of operation				
M1&M2 Conveyors	Conveyors operation 24/ hrs/ week x 52 weeks x 2 years = 2500 hrs	14554	10	50 or bi weekly	100 or one month	600 or 6 month	1300 or yearly whichever comes first	2500
M1&M2 Conveyors	Torque Arm reducers Inspect lubricant (oil), add to proper level if necessary	14554			X			
M1 &M2 Conveyors	Torque Arm reducers	14554						X

	Change lubricant							
M1 &M2 Conveyors	Lubricate Dodge Roller Bearings	14554			X			
M1 &M2 Conveyors	Check and adjust conveyor belt tension as required to ensure proper tracking	14554				X		
M1 &M2 Conveyors	Check 10HP Baldor electric motors grease as required	14554					X	

Table 3 Centrifugal Fans

Unit	Description	O&M Manual Spec Section	Hours of Operation	Hours of Operation	Hours of Operation	Hours of Operation
5 Centrifugal Fans	Operation 24hrs x365days = 8760 hrs	Section 15830	City operator to check fan operation for noise and vibration every 50 hrs	Every 2000 or every 3 months whichever comes first	Every 4350 or every 6 months whichever comes first	Every 8700 hours or yearly
Grilles Diffusers	Clean with soapy water or air compressor in winter	Section 15580 Grille Mtce			X	
5 Centrifugal Fans	Check fan wheel for foreign object buildup or wear	Section 15830			X	
1 Centrifugal Fans BF110	Check belts for wear	Section 15830			X	
5	Lubricate	Section		X		

Centrifugal Fans	bearings, lubricate couplings	15830				
4 Centrifugal Fans CF 101 to 104	Check drive shafts for alignment	Section 15830			X	
5 Centrifugal Fans	Lubricate shaft seals	Section 15830		X		
4 Centrifugal Fans Cf101 to CF104	Lubricate electric motor ball bearings	Section 15830		X		
1 Centrifugal Fan BF110	Lubricate Fan Ball bearings	Section 15830		X		
1 Centrifugal Fan BF110	Check and tighten or Replace v belts if worn	Section 15830				X

Table 4 Irrigation Pumps

Unit	Description	O&M Spec Section	Hours	Hours	Hours
		11270 Section 1 Pump and Motor data Sheets Section 2 Pump IO&M 5 Operation 6 Maintenance Section 3 Electric Motor 8.0 Maintenance	Every 250	Every 500	Every 1500 hrs or 6 months whichever comes first
P-101 500 USGPM	Check and change pump lubricants grease	11270 Section 2 Pump Mtce		X	
P-101 500 USGPM	Seasonal pump shut down	11270 Section 2 Pump IO&M			X
P-101 500 USGPM	Check Monitor auxiliary systems	11270 Section 2 Pump IO&M	X		

P-101 500 USGPM	Adjust gland packing to give visible leakage to prevent excessive temperatures	11270 Section 2 Pump Mtce	X		
P-101 500 USGPM	Check for any leaks on gaskets or seals. and correct functioning of shaft seal	11270 Section 2 Pump Mtce	X		
P-101 500 USGPM	Check bearing lubricant level and remaining hours before a lubricant change is required	11270 Section 2 Pump Mtce	X		
P-101 500 USGPM	Check duty condition is in safe operating range for the pump	11270 Section 1 Pump & Motor Data	X		
P-101 500 USGPM	Check vibration, noise level and surface temperature at the bearings to confirm satisfactory operation	11270 Section 2 & 3 Pump & Motor Mtce	X		
P-101 500 USGPM	Check dirt and dust removed from close clearances bearing housing and motors	11270 Sections 2 & 3 Pump IO&M & Electric Motors	X		
P-101 Irrigation Pump	Check coupling alignment and realign if necessary	11270 Section 2 Pump 6.Mtce		X	
P-102 Biofilter pump	Check Biofilter pump irrigation system as per maintenance manuals Startup and shutdown checks	Section 11260 Biofilter Irrigation System			X