Metropolitan Sewer District of Greater Cincinnati

PUMP/LIFT STATION OPERATION AND MAINTENANCE PROCEDURES

Wastewater Treatment Division

DECEMBER 1999
REVISED FEBRUARY 2002
REVISED MARCH 2003
Pump/Lift Station
Operation and Maintenance Procedures

Responsibility:

Maintain all pump stations in a reliable and ready condition. Respond and make repairs quickly to prevent or minimize any negative environmental impact, if a problem does occur. Take quick decisive action to (1) stop the incident and (2) to protect the public from potential health risks in the event of an overflow.

Definitions:

For the purpose of this document, “section” refers to the sections within Metropolitan Sewer District, Wastewater Treatment Division. The sections involved in pump station operation and maintenance are the:

- East Operating Section (Little Miami TP, Sycamore TP, Polk Run TP),
- West Operating Section (Muddy Creek TP, Taylor Creek TP, Indian Creek TP),
- Central Operating Section (Mill Creek TP), and
- Central Services Section

For the purpose of this document, the term “emergency” will be used only to refer to situations that are immediately dangerous to the life and health (IDLH) of responders or nearby personnel, such as fire or explosion. The term "unplanned event" will be used to refer to other situations which may have environmental or public health significance, such as failure of electricity or failure of dedicated pump station equipment leading to release of sewage, etc.

Additional References:

MSD will use appropriate procedures and implement work in accordance with appropriate schedules necessary to meet the purposes of this plan. MSD is currently following the plans and schedules in APPENDIX C and APPENDIX D.

APPENDIX C - Pump Station Inspection and Preventive Maintenance Summary
This appendix summarizes pump station and lift station inspections and preventive maintenance frequencies in effect as of the date of this document.

APPENDIX D - Pump Station Preventive Maintenance Procedures
This appendix includes copies of the preventive maintenance procedures in place as of the date of this document.

In its annual report, MSD will notify US EPA and Ohio EPA if there are any changes to the Appendices of this section.
Operation and Maintenance Procedures:

Continuous Monitoring of Pump Stations (Telemetry)

Each station is continuously monitored through the MSD radio telemetry system. Monitoring parameters include, but are not limited to:

- Power status (power failure)
- Wet well status (high well)
- Dry well status (where applicable)
- Generator status
- Entry alarm (on the Remote Terminal Unit)

The signals from the telemetry system are monitored at the following locations.

- The section responsible for the operation and maintenance of the station.
- Station 10 located at the Mill Creek Treatment Plant
- The Little Miami Treatment Plant

The telemetry system is maintained in proper working order by MSD maintenance staff. Additionally the aid of the electrical engineering staff is available to assist in maintaining the radio telemetry system.

Pump Station Inspection

In addition to the continuous monitoring, each station is inspected on a regular schedule. The frequency of these inspections is determined on a station-by-station basis, and is based on factors such as age, operating history, size and potential for negative environmental impact.

Pump Station Maintenance

Preventive Maintenance:

A schedule listing the PM and inspection frequency is maintained for each station. PM activities typically include, but are not limited to the following:

- Periodic service and calibration of all instrumentation, such as flow meters, level sensors, alarms, elapsed time meters and telemetry equipment.
  - Routine inspection and service for all station equipment including:
    - Engines and generators
    - Motors
    - Pumps
    - Wet wells
    - Impellers
    - Seals
    - Bearings
    - Wear clearances
    - Couplings
    - Drives
    - Air release valves
    - Related equipment

Records of all PM activities are kept on file. Where available, these records are kept in a computerized maintenance management system (CMMS).
Corrective Maintenance:

A procedure for performing corrective maintenance is maintained in each operating section. This procedure includes, but is not limited to:

- Work order writing procedures
- Operator inspection procedures
- Emergency response procedures
- Call in procedures
- Notification procedures if an environmental incident is involved

A summary of resources available to the operating sections is described in Appendix A.

Unplanned Events:

Response Procedures

Each operating section has a procedure that includes the proper response for various alarm conditions from the pump stations. Alarm response is determined by personnel availability in the operating section, weather conditions and the characteristics of the station involved. When called for, maintenance personnel are dispatched to the station to evaluate and correct the condition. If the operating section cannot make this response, personnel from another section or from the Central Services section are called in.

For any incident that involves an overflow, an Environmental Event Report is filled out. A sample is collected and sent to the laboratory along with an MSD Overflow Monitoring form. The incident is also reported in accordance with the Reporting Procedures listed below. Examples of an Environmental Event Report and an Overflow Sample Collection Form are located in Appendix B.

Reporting and Notification Procedures

All non-permitted overflows are reported to the Ohio EPA’s 24 hour emergency response number 1-800-282-9378 and are followed up with a detailed letter, in accordance with the guidelines established by that agency, including, when appropriate, whether failure to comply with the Pump Station Operation and Maintenance procedure caused or contributed to an SSO. The OEPA emergency response phone number is posted at each of the treatment facilities. In addition, for any overflow that may affect public health or safety, the health department with local jurisdiction is notified.

In the event of a fish or wildlife kill attributed to the overflow, the Ohio Department of Natural Resources is notified.

OEPA emergency response, Health Department, and Ohio Department of Natural Resources numbers are available from the dispatcher at Station 10.

Unplanned Event Mitigation

Any area impacted by an overflow is flushed or cleaned as needed to remove debris, prevent odors and preserve the environment.
Personnel Training:

MSD and the Division of Wastewater Treatment require that all employees receive OSHA-required training that is related to their job. In the case of pump and lift station maintenance, this training includes confined space entry, CPR, first aid and emergency response.

In addition, employees are encouraged to attend skills training which is pertinent to their job duties.

Record keeping:

Each operating section keeps records of operation and maintenance performance indicators such as:

- Equipment run hours
- Reliability history
- Maintenance and calibration history

Revisions:

This plan will be subject to modification by the Director of MSD. The Director will do so to account for relevant changes in circumstances. Such changes may include configuration of MSD facilities, purchase and installation of new equipment, changes in regulatory requirements, development and implementation of new technologies, or changes in industry standards and best management practices.

MSD will notify the US EPA and Ohio EPA of any such modifications to this Plan in the annual report required by Paragraph IX.C of the Consent Decree.
Appendix A - Resources Available to Operating Sections
Resources Available to Operating Sections
(Appendix A)

All operating sections have equipment such as boom trucks, general maintenance tools, pick-up trucks, vans and portable gasoline powered pumps. In addition, the West Operating Section has three vacuum tankers and the Central Operating Section has two Vactor trucks. Trailer mounted portable hydraulic pumps are kept in the East and West Operating Section. In addition, the Wastewater Collection Division has a number of large hydraulic pumps available for bypass pumping in the event of an emergency.

Central Service Section Support

MSD has a Central Service Section, which provides additional support. This section can provide mechanical, electrical, stand-by generator, telemetry, machine shop, weld shop, paint shop, HVAC, and engineering support. This support augments the capabilities of the operating sections. Central Service has heavy equipment including a truck-mounted crane (60-foot boom), a back-hoe/loader with trailer and a skid-loader (Bobcat) with trailer. Additionally, there are contracts in place for renting various types of heavy equipment.

Besides the electricians on staff, the Electric Shop has a specialist whose full-time responsibility is to repair or rebuild pumps and motors. In most cases, this technician can quickly return units to service, saving days or weeks of delay. He has the services of a fully equipped machine shop to aid him. Larger pumps are sent to the MSD Machine Shop for repair while a contractor handles large motor repairs.

The Electric Shop also has a full-time generator technician. The generators are on a timer for weekly exercise to maintain readiness. The technician times his visits as much as possible to observe the satisfactory operation on the units. However, the units are also monitored via telemetry which keeps the operating staff informed of the status of the units at all times. The generator technician performs scheduled maintenance on his rounds. He also responds to emergency calls.

MSD has two trailer-mounted diesel generators. The generators can be transported to stations experiencing a power failure. The two generators are primarily for emergency use but are also used when station maintenance requires a shutdown of utility power. MSD also has a load bank for load testing all generators on a preventive maintenance schedule. In addition, MSD has a contract with a company that specializes in generators. They can be called in for emergencies that exceed the capabilities of MSD staff. This contractor is also used for scheduled maintenance.

For technical support, the Wastewater Treatment Division has environmental, mechanical and electrical engineers. The engineering staff assists operating and maintenance personnel with design, installation, repair, and troubleshooting of the stations, their equipment, and their control systems. Additionally, consulting and engineering firms can be hired to assist, if needed.
Appendix B - Sample Forms
Environmental Event Report

Facility Name: ____________________________________________________

Event Type: _______________________ Operating Area: _____________

Date Discovered: ___________________ Time Discovered: ____________

Date Began: _______________________ Time Began: ________________

Date Resolved: _____________________ Time Resolved: _____________

Cause of Event: __________________________________________________

________________________________________________________________

Material Involved: __________________________________________________

Amount: _________________________________________________________

What actions were taken to correct the problem: _________________________

________________________________________________________________

Was the event preventable? _____ Yes _____ No. If Yes, what steps should have been taken to prevent the event? _________________________________

________________________________________________________________

What steps will be taken to prevent recurrence? _________________________

________________________________________________________________

Was the event reported? _____ Yes _____ No. If Yes, to whom and when was the event reported? _________________________________

________________________________________________________________

Additional Comments: ______________________________________________

________________________________________________________________

Completed by: ________________________________ Date: ____________

Revised: 03/03/03

Distribution: Operating Area File, WWT Division Office, Beverly Head
Overflow Monitoring Form

Sampler’s Name (print): ______________________________________
Sampler’s Signature: _________________________________________

Date Sampled: __________________________
Time Sampled: __________________________

Sample Location: _________________________________________________
________________________________________________________________
________________________________________________________________

Comments: ______________________________________________________
________________________________________________________________
________________________________________________________________

Received By: _____________________________________________________

Date: ______________________________
Time: ______________________________

Analytical Results:  SS: ____________________
                    BOD: ____________________

Revised: 03/03/03
Appendix C - Pump Station Inspection and Preventive Maintenance Summary
Pump Station Inspection and Preventive Maintenance Summary

The attached spreadsheet summarizes pump station and lift station inspection and preventive maintenance frequency. Inspections and preventive maintenance are performed to maintain the station in a reliable and ready condition. Each operating section determines how to best maintain the stations in their area based on factors, such as, age, operating/maintenance, history, size and potential for negative environmental impact. In addition to onsite inspections telemetry monitors all stations. Telemetry alerts the plant staff of problems that may require an immediate response.

Spreadsheet Notes:
Drain Area - Drain Area column identifies approximate location of a pump station within MSD. Location is abbreviated as:
LiMi – Little Miami
MiCr – Mill Creek
MuCr – Muddy Creek
PoRu – Polk Run
SyCr – Sycamore Creek
TaCr – Taylor Creek

Maint Resp – The Maint Resp column identifies which operating section is responsible for preventive maintenance:
PSG – Pump Station Group
East – East Operating Section
West – West Operating Section
Central – Central Operating Section

Type – The type column designate the type of station
Submersible – submersible pumps
“DW” prefix – dry well station
“JET” suffix – air lift station
“SL” prefix – dry well station, suction lift
CANTEX – brand name, type of dry well station
Flush Valve – Similar to a toilet tank, chamber fills up, valves open and flow moves by gravity
SIMPLEX – brand name, type of air station
HTF – holding tank/flush

Preventive Maintenance Frequency
A “JP” number is a cell indicates that a work description is entered in the computerized maintenance management system (CMMS)
## Pump Station Inspection and Preventive Maintenance Summary

<table>
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<th>Maint Area</th>
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EXHIBIT 9 PUMP/LIFT STATION OPERATION AND MAINTENANCE PROCEDURES
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## Pump Station Inspection and Preventive Maintenance Summary

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## APPENDIX C

### Metropolitan Sewer District

Pump Station Inspection and Preventive Maintenance Summary

<table>
<thead>
<tr>
<th>Pump Station</th>
<th>Drain Area</th>
<th>Maint Type</th>
<th>Type</th>
<th>Inspec. Freq.</th>
<th>Preventive Maintenance Frequency</th>
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EXHIBIT 9  PUMP/LIFT STATION OPERATION AND MAINTENANCE PROCEDURES
### Pump Station Inspection and Preventive Maintenance Summary

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<th>Pump Station</th>
<th>Drain Area</th>
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### Pump Station Elimination Summary

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Notes:
1. These notes apply to all the pump stations.
2. Inspections are performed by operations personnel. If no inspection frequency is noted, the inspection frequency is the same as the PM frequency.
3. PM is performed by maintenance personnel.
4. The "JP" number in the Preventive Maintenance Frequency section identifies a job plan in the CMMS database.
Appendix D -
Pump Station Preventive Maintenance Procedures
Pump Station Inspection and Preventive Maintenance Procedures

This packet includes preventive maintenance procedures and checklists used to maintain pump stations. The preventive maintenance procedures are organized by job plan (JP) number. Generator information is also included.
At CMF or Station 10 – Before beginning station route

01 At a telemetry computer check the status of each station on the route for alarms and any operating problems.

At Each Station

10 Call Station 10 upon arrival at the pump station. Use code “2” “7” with Sta.10. Confirm with Station 10 that the pump station is communicating with Sta. 10.

20 Unlock and open all cabinets and pit covers

Check Telemetry

30 Red LED light number 08 should be flashing.
40 Green LED light in middle of the panel should be flashing.

*This means that the telemetry system is working.*

50 Press the intrusion alarm switch.
Red LED light number 02 should light.
60 Release the intrusion alarm switch.
The red led lights in the CA1511 board should sequence.

*This means that the intrusion alarm signal is being sent to Station 10.*

70 Power supply LED light should be on.
80 If there is a fault in the telemetry panel, reset the telemetry panel.

*See telemetry panel reset job aide.*

Check Control Cabinet

90 Test any “push to test” lights.
100 Check seal failure light

110 Ensure all breakers are on.

*If a breaker is not on, investigate panel to try to determine why the breaker tripped.*

*If there is no obvious reason to explain why the breaker tripped, reset the breaker.*

*If the reset breaker trips again, contact the crew leader or SOM.*

*If there is an obvious reason to explain why the breaker tripped, contact an electrician.*

*If repairs cannot be made, contact the crew leader or SOM.*

120 Visually inspect control panel wiring for obvious signs of electrical problems, such as, burned wiring, wire off terminal, and burn spots on cabinet.

*If this is observed investigate reason. Call an electrician, if necessary.*

130 Operate pump in manual mode.
Check wet well for turbulence, unusual noise and inspect the check valve to see if it has moved.
After the pump has been tested, turn off pump and place back in AUTO mode.

Check Wet Well

140 Check wet well for grease and debris.

150 Tilt and hold the high level float upside down for 30 seconds.
Then lower the float to normal position.
Submersible Pump Preventive Maintenance – Weekly

160 Close the wet well cover.
170 Open generator covers.
180 Check oil level.
190 Check water level, if a level gauge is installed.
200 Check fuel level.
210 Inspect hoses and belts
220 Check piping for leaks
230 Check battery condition
240 Check charging system
250 Check that the generator is warm.
260 Check the generator control panel for generator fault lights.
270 Replace generator covers.
280 If you have any generator problems, contact the generator repair person.

Housekeeping
290 Clean up any spills found at the site.
300 Wipe down station as needed.
310 Pick up any litter found at the site

Leaving pump station
320 Ensure that all switches, controls and valves are in the correct position.
330 Ensure the pumps are in AUTO mode.
340 Record results of inspection in the logbook.
   Note any problems found. If no problems were found, note that no problems were found.
350 Record run times in the logbook.
360 Record run times on the work order.
370 Ensure all cabinets and pits are closed.
380 Ensure all locks are in place.
390 Ensure the gate is locked.
400 Call Station 10 and verify that they received a high wet well and an intrusion alarm.
410 Have Station 10 clear all alarms
420 Use code “2” ”6” with Station 10.
430 Continue to your next station or assignment.

At CMF – At the end of the station route
440 Inform Crew Leader or SOM of any problems found at the pump station.

Special Tools – No special tools required
Dry Well Preventive Maintenance – Weekly

At CMF or Station 10 – Before beginning station route

01 At a telemetry computer check the status of each station on the route for alarms and any operating problems.

At Each Station

10 Call Station 10 upon arrival at the air lift station. Use code “2” “7” with Sta.10. Confirm with Station 10 that the pump station is communicating with Sta. 10.
20 Unlock and open all cabinets and pit covers.
   Check Telemetry
30 Red LED light number 08 should be flashing.
40 Green LED light in the middle of the panel should be flashing.
   This means that the telemetry system is working.
50 Press the intrusion alarm switch.
   Red LED light number 02 should light.
60 Release the intrusion alarm switch.
   The red led lights in the CA1511 board should sequence.
   This means that the intrusion alarm signal is being sent to Station 10.
70 Power supply LED light should be on.
80 If there is a fault in the telemetry panel, reset the telemetry panel.
   See telemetry panel reset job aide.

Check Wet Well

90 Using sewer hook, remove the manhole cover for the wet well and observe the wet well for debris and grease.
100 Remove the ON/OFF float from the wet well
110 Tilt and hold the ON/OFF float in the ON position
120 Remove the LEAD float from the wet well.
130 Tilt and hold the LEAD float to turn on the lead pump.
140 Remove the LAG float from the wet well.
150 Tilt and hold the LAG float to turn on the lag pump.
160 Remove the HIGH WET WELL float.
170 Tilt and hold the HIGH WET WELL float in the on position.
180 Clean floats if needed.
190 Hang ON/OFF, LEAD, LAG and HIGH WET WELL floats back in the wet well.

Check Dry Well

200 Fill out confined space entry form.
210 Lower gas meter to bottom of station to check air quality.
220 Check exhaust fan from top of station.
230 Set up fall protection/confined space equipment.
240 Climb down access ladder to the station floor.
250 Observe the surroundings for leaks and unusual noise.
260 Tilt the DRY WELL float.
270 Check dehumidifier
Dry Well Preventive Maintenance – Weekly

280 Exercise all four gate valves, inlet and discharge.
   *Exercise a gate valve by closing the valve 90% and the reopening.*
290 Check sump pump float to ensure sump pump operation.
300 Place DRY WELL float in normal position.
   **Check Control Cabinet**
310 Open the cabinet doors exposing the inside of the control panel.
320 Check visually for any wiring problems, such as, burnt wires, black marks on inside of cabinet, smell of ozone, etc.
   *If this is observed investigate reason. Call an electrician, if necessary.*
330 Manually turn on Pump #1.
   *Make sure the check valve handle rises, check for leaks and unusual noise.*
340 Open volute pet cock and bleed.
350 Manually turn on Pump #2.
   *Make sure the check valve handle rises, check for leaks and unusual noise.*
360 Open volute pet cock and bleed.
370 Close cabinet doors.
   **Housekeeping**
380 Clean up all spills.
390 Wipe down station as needed.
400 Pick up any litter found at the site.
   **Leaving pump station**
410 Ensure that all switches, controls and valves are in the correct position.
420 Record results of inspection in the logbook.
   *Note any problems found. If no problems were found, note that no problems were found.*
430 Record run times in the logbook.
440 Record run times on the work order.
450 Ensure all cabinets and pits are closed.
460 Ensure all locks are in place.
470 Call Station 10 and verify that they received a high wet well and dry well alarm.
480 Have Station 10 clear all alarms
490 Use code “2” “6” with Station 10.
500 Continue to your next station or assignment.

**At CMF – At the end of the station route**
510 Inform the Crew Leader or SOM of any problems found at the drywell station.

**Special Tools – No special tools required**
At CMF or Station 10 – Before beginning station route
01 At a telemetry computer check the status of each station on the route for alarms and any operating problems.

At Each Station
10 Call Station 10 upon arrival at the air lift station. Use code “2” “7” with Sta.10. Confirm with Station 10 that the pump station is communicating with Sta. 10.
20 Unlock and open all cabinets and pit covers.
   Check Telemetry
30 Red LED light number 08 should be flashing.
40 Green LED light in the middle of the panel should be flashing.
   This means that the telemetry system is working.
50 Press the intrusion alarm switch.
   Red LED light number 02 should light.
60 Release the intrusion alarm switch.
   The red led lights in the CA1511 board should sequence.
   This means that the intrusion alarm signal is being sent to Station 10.
70 Power supply LED light should be on.
80 If there is a fault in the telemetry panel, reset the telemetry panel.
   See telemetry panel reset job aide.
Check influent manhole
90 Using sewer hook, remove the manhole cover and observe the manhole for debris.
   Under normal operation the channel at the bottom of the influent manhole should be free flowing.
100 Tilt and hold the high level float upside down for 30 seconds. Then lower the float to normal position and replace manhole cover.
Check Air Lift Station
110 Open the lift station cover and observe top chamber for anything out of the ordinary, such as, unusual noise, air leaking, oil or water in the bottom of the station, or oil on the compressor platform.
   When cause is found, write a WO so repair can be scheduled.
120 Climb down access ladder to grating. Caution: Be careful not to slip and fall climbing down the access ladder.
130 Turn the HAND/OFF/AUTO switches of both compressors to the OFF position.
140 Check the oil level in both compressors.
   Add oil if needed. Use 30w dyna lube synthetic oil.
150 Check the belt tension on both compressors.
   You should be able to push in the belt about ½ inch.
160 Turn one compressor to the ON position.
   Make sure that the compressor unloads.
   You will hear a change in the sound of the compressor when it does.
   If it doesn’t unload check the oil pressure gage on the lower part of the compressor. It should read between 15 psi and 20 psi.
170 Repeat step 160 with the second compressor.
Air Lift Preventive Maintenance – Weekly

180  Check all gauges.
     The pressure for the center holding tank should read between 35 – 60 lbs.
     The gauge for the line pressure should read 25-45 lbs. depending on station.
     Please note: One compressor will come on if the pressure drops below 45 lbs.
     The second compressor will come on if the holding tank pressure drops below
     35 lbs. Both compressors should shut off at about 60 lbs.

190  Cycle test the station.
     Turn the ON/OFF/AUTO switch to the TEST position. As you turn this switch
     you should see the bright green light dim.
     This shows that the electrode is grounded.
     Listen for a loud popping sound coming from the wet well. This sound will let
     you know that the three-way valve is working properly.

200  Check Control Cabinet
     Open the cabinet doors exposing the inside of the control panel.

210  Check visually for any wiring problems, such as, burnt wires, black marks on
     inside of cabinet, smell of ozone, etc.
     If this is observed investigate reason. Call an electrician, if necessary.

220  Check alternator. Replace if necessary.

230  Close cabinet doors.

Housekeeping

240  Clean up all spills.

250  Wipe down station as needed.

260  Pick up any litter found at the site.

Leaving pump station

270  Ensure that all switches, controls and valves are in the correct position.

280  Record results of inspection in the logbook.
     Note any problems found. If no problems were found, note that no
     problems were found.

290  Record run times in the logbook.

300  Record run times on the work order.

310  Ensure all cabinets and pits are closed.

320  Ensure all locks are in place.

330  Call Station 10 and verify that they received a high wet well and an intrusion
     alarm.

340  Have Station 10 clear all alarms

350  Use code “2” ”6” with Station 10.

360  Continue to your next station or assignment.

At CMF – At the end of the station route

370  Inform the Crew Leader or SOM of any problems found at the airlift station.

Special Tools – No special tools required
At CMF or Station 10 – Before beginning station route
01 At a telemetry computer check the status of each station on the route for alarms and any operating problems.

At Each Station
10 Call Station 10 upon arrival at the pump station. Use code “2” “7” with Sta.10.
20 Unlock and open all cabinets and pit covers
   Check Control Cabinet
30 Clean starter contacts.
40 Check electrical connections using IR gun.
   Repair as needed.
   Check Wet Well
50 Check pump performance
   See Checking Pump Performance job aid
Readings
80 Record Pump #1 hours __________
90 Record Pump #2 hours __________
100 Record Pump #1 voltage __________
110 Record Pump #2 voltage __________
120 Record Pump #1 amps __________
130 Record Pump #2 amps __________
260 Record motor #1 Meggar reading X_____ Y_____ Z_____ 
270 Record motor #2 Meggar reading X_____ Y_____ Z_____ 
140 Record Pump #1 flow, gpm __________
150 Record Pump #2 flow, gpm __________
Structure
330 Check anode connection.
340 Inspect station for paint needs.
   Write WOs for paint needs.
Housekeeping
350 Clean up in and around the site.
360 Wipe down station as needed.
370 Pick up any litter found at the site.
Leaving pump station
190 Ensure that all switches, controls and valves are in the correct position.
200 Ensure the pumps are in AUTO mode.
210 Record results of inspection in the logbook.
   Note any problems found. If no problems were found, note that no problems were found.
220 Record run times in the logbook.
230 Ensure all cabinets and pits are closed.
240 Ensure all locks are in place.
250 Ensure the gate is locked.
260 Call Sta. 10 and verify that they received a high wet well and an intrusion alarm.
270 Have Station 10 clear all alarms
Submersible Pump Preventive Maintenance – Annual

280 Use code “2” ”6” with Station 10.
290 Continue to your next station or assignment.

At CMF – At the end of the station route
300 Inform Crew Leader or SOM of any problems found at the pump station.

Special Tools – 1. Meggar
2. 50 ft. tape
Air Lift Preventive Maintenance – Annual

At CMF or Station 10 – Before beginning station route
01 At a telemetry computer check the status of each station on the route for alarms and any operating problems.

At Each Station
10 Call Station 10 upon arrival at the air lift station. Use code “2” “7” with Sta.10.
20 Unlock and open all cabinets and pit covers.
30 When climbing down the access ladder to grating be careful not to slip and fall.
   Check Compressors
40 Check belts for wear. Replace if necessary.
50 Change oil in compressors.
   Refer to compressor oil change job aid.
60 Replace compressor air filter.
70 Check regulator. Repair/replace if necessary.
80 Grease compressor motor bearings.
90 Check and adjust pressure switches.
100 Check air gauges.
   Check Three-Way Valve
110 Clean and inspect three-way valve
120 Check timer setting and operation.
130 Check air blow back into well.
   Check Electrode
140 Pull electrode.
150 Clean or change electrode.
   Check Station
160 Check for leakage in air holding tank.
   Check Heater
170 Check operation.
180 Clean heater
   Check Exhaust Fan
190 Check operation.
200 Clean exhaust fan.
   Check Control Cabinet
210 Open the cabinet doors exposing the inside of the control panel.
220 Check panel lights.
230 Clean starter contacts.
240 Check GFI outlets.
250 Check electrical connections using IR gun.
   Repair as needed.
Air Lift Preventive Maintenance – Annual

Readings
260 Record motor #1 Meggar reading X____  Y____  Z____
270 Record motor #2 Meggar reading X____  Y____  Z____
280 Record motor amps – compressor #1 _______________.
290 Record motor amps – compressor #2 _______________.
300 Record motor #1 voltage _______________.
310 Record motor #2 voltage _______________.
320 Record readings in logbook.

Structure
330 Check anode connection.
340 Inspect station for paint needs.
   Write WOs for paint needs.

Housekeeping
350 Clean up in and around the site.
360 Wipe down station as needed.
370 Pick up any litter found at the site.

Leaving pump station
380 Ensure that all switches, controls and valves are in the correct position.
390 Record results of inspection in the logbook.
   Note any problems found. If no problems were found, note that no
   problems were found.
400 Record run times on the work order.
410 Ensure all cabinets and pits are closed.
420 Ensure all locks are in place.
440 Have Station 10 clear all alarms
450 Use code “2” ”6” with Station 10.
460 Continue to your next station or assignment.

At CMF – At the end of the station route
470 Inform the Crew Leader or SOM of any problems found at the airlift station.

Special Tools – 1. Meggar
At CMF or Station 10 – Before beginning station route
01 At a telemetry computer check the status of each station on the route for alarms and any operating problems.

At Each Station
10 Call Station 10 upon arrival at the pump station. Use code “2” “7” with Sta.10.
20 Unlock and open all cabinets and pit covers
   Check Control Cabinet
30 Fill out confined space entry form.
40 Lower gas meter to bottom of station to check air quality.
50 Check exhaust fan from top of station.
60 Set up fall protection/confined space equipment.
70 Climb down access ladder to the station floor.
80 Clean starter contacts.
90 Check electrical connections using IR gun.
   Repair as needed.
Check Pump Performance
100 Check pump performance
   See Checking Pump Performance job aid
Readings
110 Record Pump #1 hours __________
120 Record Pump #2 hours __________
130 Record Pump #1 voltage __________
140 Record Pump #2 voltage __________
150 Record Pump #1 amps __________
160 Record Pump #2 amps __________
170 Record Pump #1 flow, gpm __________
180 Record Pump #2 flow, gpm __________
190 Record Pump #1 Meggar reading X____ Y____ Z____
200 Record Pump #2 Meggar reading X____ Y____ Z____
210 Record readings in the logbook.
Structure
220 Check anode connection.
230 Inspect station for paint needs.
   Write WOs for paint needs.
Housekeeping
240 Clean up in and around the site.
250 Wipe down station as needed.
260 Pick up any litter found at the site.
Leaving pump station
270 Ensure that all switches, controls and valves are in the correct position.
280 Ensure the pumps are in AUTO mode.
290 Record results of inspection in the logbook.
   Note any problems found. If no problems were found, note that no problems were found.
300 Ensure all cabinets and pits are closed.
310 Ensure all locks are in place.
Dry Well Preventive Maintenance – Annual

320 Have Station 10 clear all alarms
330 Use code “2” ”6” with Station 10.
340 Continue to your next station or assignment.

At CMF – At the end of the station route
350 Inform Crew Leader or SOM of any problems found at the pump station.

Special Tools
1. Meggar
2. 50 ft. tape
STANDARD JOB STEPS FOR THE MONTHLY PM AT BOLDFACE PUMP STATION

1. NOTIFY OPERATIONS THAT YOU ARE DOING THE PM ON THE STATION.
2. GREASE BEARINGS ON SEWAGE PUMPS. (188-2) A. BE SURE TO PURGE THE BEARING HOUSING WHEN GREASING.
3. LUBRICATE GUIDES ON CONE VALVES. (SPRAY MOLY OR EQUIVALENT)
4. NOTIFY OPERATIONS THAT YOU HAVE COMPLETED THE PM.
STANDARD JOB STEPS FOR THE WEEKLY PM ON BOLDFACE PUMPING STATION.

1. NOTIFY OPERATIONS THAT YOU ARE DOING THE PM AT BOLDFACE.
2. INSPECT SEWAGE PUMPS AND REPORT ANY PROBLEMS.
3. GREASE FITTING AT THE REAR OF THE CONE VALVE YOKE. (188-2)
4. FILL OIL CUPS ON THE EXHAUST AND SUPPLY AIR FANS. (167-225)
   A. CHECK FAN BELT, IF IT NEEDS TO BE REPLACED, REPORT BACK TO YOUR SUPERVISOR.
   B. ***CHECK BOILER AND HOT WATER RECIRCULATING PUMP DURING THE HEATING SEASON ONLY.***
5. DRAIN WATER FROM AIR TANKS AND BALANCE THE SYSTEM
6. CHECK HYDRAULIC FLUID IN MUFFIN MONSTER GRINDER ON LEVEL 3. ADD OIL AS NEEDED. (ARIES)
7. WHEN YOU ARE SATISFIED THAT ALL THE ABOVE STEPS ARE COMPLETED PROPERLY CLEAN UP ALL TOOLS AND DEBRIS.
8. DOCUMENT YOUR TIME, ADD COMMENTS AND CLOSE WORK ORDER IN THE CMMS.
9. NOTIFY YOUR SUPERVISOR WHEN ALL THE ABOVE IS COMPLETED.
Job Steps

10 RAW SEWAGE PUMP #1
1) INSPECT PUMP INSTALLATION.
   - CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   - CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   - CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--
2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--
3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--
4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--
5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS
6) RECORD MEGGAR READINGS
   A__________ B__________ C__________
7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
8) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________

20 RAW SEWAGE PUMP #2
1) INSPECT PUMP INSTALLATION.
   - CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   - CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   - CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--
2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--
3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--
4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--
5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS
6) RECORD MEGGAR READINGS
   A__________ B__________ C__________
7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
8) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________

30 RAW SEWAGE PUMP #3
1) INSPECT PUMP INSTALLATION.
   - CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   - CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   - CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--
2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--
3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--
4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--
5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS
6) RECORD MEGGAR READINGS
   A__________ B__________ C__________
7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
8) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
40  RAW SEWAGE PUMP #4
   1) INSPECT PUMP INSTALLATION.
      CHECK THAT GUIDE RAILS ARE VERTICAL --X--
      CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
      CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--
   2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--
   3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--
   4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--
   5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF IT IS OBVIOUS
      THERE IS WATER IN IT, CHANGE OIL --X-- PUMP RUN HOURS__________
   6) RECORD MEGGAR READINGS
      A__________  B__________  C__________
   7) RECORD RESISTANCE BETWEEN WINDINGS
      A-B__________  A-C__________  B-C__________
   8) RUN PUMP AND TAKE AMPERAGE READINGS
      A__________  B__________  C__________

50  CHANNEL MONSTER
    REFER TO O&M MANUAL FOR DETAILED INSTRUCTIONS

   1) INSPECT MOTOR STARTER CONTACTS, REPLACE IF PITTED --X--
   2) REMOVE AND CLEAN UNIT --X--
      INSPECT BEARINGS AND SEAL ASSEMBLIES --X--
   3) CHANGE OIL IN HYDRAULIC RESERVOIR, KEEP SAMPLE IN JAR AND MARK --X--

60  GATE OPERATOR
   1) CHECK CONDITION OF BELTS, REPLACE IF NECESSARY --X--
   2) CHECK AND OPERATE MANUAL DISCONNECT --X--
   3) CHECK ALL NUTS AND BOLTS, TIGHTNESS --X--
   4) INSPECT ENTIRE UNIT FOR WEAR AND DAMAGE --X--
Job Plan Number – JP1172

COLEMAIN-BEVIS SEMI-ANNUAL PM

Job Steps

10 RAW SEWAGE PUMP #1
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) RECORD AMPERAGE READINGS --X--
      A___________ B___________ C___________
   3) CLEAN AND INSPECT MCC BUCKET --X--
   4) CHECK WIRE CONNECTIONS AND CONDITION OF CONTACTS --X--

20 RAW SEWAGE PUMP #2
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) RECORD AMPERAGE READINGS --X--
      A___________ B___________ C___________
   3) CLEAN AND INSPECT MCC BUCKET --X--
   4) CHECK WIRE CONNECTIONS AND CONDITION OF CONTACTS --X--

30 RAW SEWAGE PUMP #3
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) RECORD AMPERAGE READINGS --X--
      A___________ B___________ C___________
   3) CLEAN AND INSPECT MCC BUCKET --X--
   4) CHECK WIRE CONNECTIONS AND CONDITION OF CONTACTS --X--

40 RAW SEWAGE PUMP #4
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) RECORD AMPERAGE READINGS --X--
      A___________ B___________ C___________
   3) CLEAN AND INSPECT MCC BUCKET --X--
   4) CHECK WIRE CONNECTIONS AND CONDITION OF CONTACTS --X--

50 GATE OPERATOR
   1) LUBRICATE CHAIN --X--
   2) CHECK & ADJUST CLUTCH AS NECESSARY --X--

60 TROLLEY HOIST

70 VARIOUS EQUIPMENT
   REFER TO O&M MANUAL FOR DETAILED RECOMMENDED PM

   1) CHECK OPERATION OF BUILDING LOUVERS --X--
   2) CHECK HVAC OPERATION AND EQUIPMENT --X--
   3) CHECK EXHAUST FAN OPERATION --X--
   4) LUBRICATE AND OPERATE ALL VALVES --X--
   5) CHECK OIL IN RELIEF VALVE OIL RESERVOIR --X--
   6) LUBRICATE STEM ON SLUICE GATE --X--

80 CHANNEL MONSTER
   1) CHANGE OIL IN GEAR BOX --X--
Job Plan Number – JP1173
COLERAINE-BEVIS QUARTERLY PM

Job Steps

10 GATE OPERATOR
   1) CHECK DRIVE CHAIN FOR EXCESSIVE SLACK --X--
   2) CHECK AND ADJUST BRAKE AS NECESSARY --X--
   3) CHECK SPROCKETS AND SET SCREW --X--

20 CHANNEL MONSTER
   REFER TO O&M MANUAL FOR DETAILED PM
   1) CHECK FOR CONTROLLER CABINET MOISTURE --X--
   2) CLEAN CONTROLLER CABINET AS NECESSARY --X--
   3) EXERCISE EQUIPMENT IN REVERSE --X--
   4) CHECK FLUID LEVEL IN RESERVOIR --X--
   5) CHECK FOR WATER CONTAMINATION, DRAIN IF NECESSARY --X--

30 RAW SEWAGE PUMP #1
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
      2) CHECK OPERATION OF CONTROLS --X--

40 RAW SEWAGE PUMP #2
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
      2) CHECK OPERATION OF CONTROLS --X--

50 RAW SEWAGE PUMP #3
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
      2) CHECK OPERATION OF CONTROLS --X--

60 RAW SEWAGE PUMP #4
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
      2) CHECK OPERATION OF CONTROLS --X--
Job Plan Number – JP1174
TAYLOR CREEK P.S. ANNUAL PM

Job Steps

10 RAW SEWAGE PUMP #1

1) INSPECT PUMP INSTALLATION.
   CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--

2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--

3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--

4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--

5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS____________

6) RECORD MEGGAR READINGS
   A__________  B__________  C__________

7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________

8) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________

20 RAW SEWAGE PUMP #2

1) INSPECT PUMP INSTALLATION.
   CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--

2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--

3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--

4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--

5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS____________

6) RECORD MEGGAR READINGS
   A__________  B__________  C__________

7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________

8) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________

30 RAW SEWAGE PUMP #3

1) INSPECT PUMP INSTALLATION.
   CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--

2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--

3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--

4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--

5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS____________

6) RECORD MEGGAR READINGS
   A__________  B__________  C__________

7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________

8) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
40 Raw Sewage Pump #4
1) Inspect Pump Installation.
   - Check that guide rails are vertical --X--
   - Check condition of lifting mechanism and cables/chain --X--
   - Check all screws, bolts for tightness --X--
2) Inspect Motor Housing and Pump Housing --X--
3) Inspect power and control cables, entrance fittings --X--
4) Record wear ring clearance if possible --X--
5) Take sample of seal oil, save and mark container, if it's obvious there is water in it, change oil --X-- PUMP RUN HOURS____________
6) Record meggar readings
   A__________ B__________ C__________
7) Record resistance between windings
   A-B__________ A-C__________ B-C__________
8) Run pump and take ampereage readings
   A__________ B__________ C__________

50 Trolley Hoist
Refer to O&M Manual for Detailed Instructions

1) Change oil in gear box --X--

60 Air Compressor #1
1) Check condition of belts, replace if necessary --X--
2) Change oil in compressor --X--
3) Record meggar readings of motor --X--
   A__________ B__________ C__________
4) Record ampereage of motor --X--
   A__________ B__________ C__________

70 Air Compressor #2
1) Check condition of belts, replace if necessary --X--
2) Change oil in compressor --X--
3) Record meggar readings of motor --X--
   A__________ B__________ C__________
4) Record ampereage of motor --X--
   A__________ B__________ C__________

80 Channel Monster
Refer to O&M Manual for Detailed Instructions

1) Inspect motor starter contacts, replace if pitted --X--
2) Remove and clean unit --X--
   Inspect bearings and seal assemblies --X--
3) Change oil in hydraulic reservoir, keep sample in jar and mark --X--

90 Sluice Gate #1
Refer to O&M Manual for Details of PM

1) Change oil in gearbox --X--
2) Meggar motor --X--
   A__________ B__________ C__________
3) Record ampereage of motor --X--
   A__________ B__________ C__________
100  SLUICE GATE #2
REFER TO O&M MANUAL FOR DETAILS OF PM

1) CHANGE OIL IN GEARBOX --X--
2) MEGGAR MOTOR --X--
   A_____________ B_____________ C_____________
3) RECORD AMPERAGE OF MOTOR --X--
   A_____________ B_____________ C_____________
Job Plan Number – JP1192
TAYLOR CREEK P.S. QUARTERLY PM

Job Steps
10 SLUICE GATE #1
   1) CHECK OPERATION, LUBRICATE IF NECESSARY--X--
   2) CHECK CONDITION OF MOVING PARTS --X--
20 SLUICE GATE #2
   1) CHECK OPERATION, LUBRICATE IF NECESSARY--X--
   2) CHECK CONDITION OF MOVING PARTS --X--
30 RAW SEWAGE PUMP #1
   1) RECORD MEGGAR READINGS --X--
       A___________ B___________ C___________
   2) CHECK OPERATION OF CONTROLS --X--
40 RAW SEWAGE PUMP #2
   1) RECORD MEGGAR READINGS --X--
       A___________ B___________ C___________
   2) CHECK OPERATION OF CONTROLS --X--
50 RAW SEWAGE PUMP #3
   1) RECORD MEGGAR READINGS --X--
       A___________ B___________ C___________
   2) CHECK OPERATION OF CONTROLS --X--
60 RAW SEWAGE PUMP #4
   1) RECORD MEGGAR READINGS --X--
       A___________ B___________ C___________
   2) CHECK OPERATION OF CONTROLS --X--
70 AIR COMPRESSOR #1
   1) CHECK OPERATION OF PRESSURE SWITCHES__X__
   2) CHECK CONDITION OF BELTS__X__
   3) CHECK OIL LEVEL__X__
80 AIR COMPRESSOR #2
   1) CHECK OPERATION OF PRESSURE SWITCHES__X__
   2) CHECK CONDITION OF BELTS__X__
   3) CHECK OIL LEVEL__X__
90 EXHAUST FAN
   1) CHECK OPERATION__X__
   2) CLEAN BLADES AND MOTOR AS NEEDED__X__
Job Steps

10 SLUICE GATE #1
   1) CHECK OPERATION, LUBRICATE IF NECESSARY --X--
   2) CHECK CONDITION OF MOVING PARTS --X--

20 SLUICE GATE #2
   1) CHECK OPERATION, LUBRICATE IF NECESSARY --X--
   2) CHECK CONDITION OF MOVING PARTS --X--

30 RAW SEWAGE PUMP #1
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) RECORD AMPERAGE READINGS --X--
      A___________ B___________ C___________
   3) CLEAN AND INSPECT MCC BUCKET --X--
   4) CHECK WIRE CONNECTIONS AND CONDITION OF CONTACTS --X--

40 RAW SEWAGE PUMP #2
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) RECORD AMPERAGE READINGS --X--
      A___________ B___________ C___________
   3) CLEAN AND INSPECT MCC BUCKET --X--
   4) CHECK WIRE CONNECTIONS AND CONDITION OF CONTACTS --X--

50 RAW SEWAGE PUMP #3
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) RECORD AMPERAGE READINGS --X--
      A___________ B___________ C___________
   3) CLEAN AND INSPECT MCC BUCKET --X--
   4) CHECK WIRE CONNECTIONS AND CONDITION OF CONTACTS --X--

60 RAW SEWAGE PUMP #4
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) RECORD AMPERAGE READINGS --X--
      A___________ B___________ C___________
   3) CLEAN AND INSPECT MCC BUCKET --X--
   4) CHECK WIRE CONNECTIONS AND CONDITION OF CONTACTS --X--

70 AIR COMPRESSOR #1
   1) CHECK OPERATION OF PRESSURE SWITCHES --X--
   2) CHECK CONDITION OF BELTS --X--
   3) CHECK OIL LEVEL --X--

80 AIR COMPRESSOR #2
   1) CHECK OPERATION OF PRESSURE SWITCHES --X--
   2) CHECK CONDITION OF BELTS --X--
   3) CHECK OIL LEVEL --X--

90 EXHAUST FAN
   1) CHECK OPERATION --X--
   2) CLEAN BLADES AND MOTOR AS NEEDED --X--
Job Plan Number – JP1225
MCTP, MUDDY CREEK PS MONTHLY PM

Job Steps

215  MCPS INFLUENT GATE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

220  MCPS RSP #1 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

225  MCPS RSP #2 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

230  MCPS RSP #3 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

235  MCPS RSP #1
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

240  MCPS RSP #2
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

245  MCPS RSP #3
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

250  MCPS INTAKE FAN
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

255  MCPS EXHAUST FAN #1
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

260  MCPS EXHAUST FAN #2
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

265  SUMP PUMP, MCPS
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

270  AIR COMPRESSOR, MCPS
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________
Job Plan Number – JP1226
MCTP, MUDDY CREEK PS QUARTERLY PM

Job Steps

215 MCPS INFLUENT GATE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

220 MCPS RSP #1 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

225 MCPS RSP #2 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

230 MCPS RSP #3 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

235 MCPS RSP #1
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

240 MCPS RSP #2
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

245 MCPS RSP #3
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

250 MCPS INTAKE FAN
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

255 MCPS EXHAUST FAN #1
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

260 MCPS EXHAUST FAN #2
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

265 SUMP PUMP, MCPS
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

270 AIR COMPRESSOR, MCPS
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________
Job Plan Number – JP1227
MCTP, MUDDY CREEK PS SEMI-ANNUAL PM

Job Steps
215 MCPS INFLUENT GATE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

220 MCPS RSP #1 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

225 MCPS RSP #2 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

230 MCPS RSP #3 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

235 MCPS RSP #1
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

240 MCPS RSP #2
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

245 MCPS RSP #3
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

250 MCPS INTAKE FAN
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

255 MCPS EXHAUST FAN #1
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

260 MCPS EXHAUST FAN #2
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

265 SUMP PUMP, MCPS
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

270 AIR COMPRESSOR, MCPS
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________
Job Steps

215 MCPS INFLUENT GATE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

220 MCPS RSP #1 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

225 MCPS RSP #2 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

230 MCPS RSP #3 CONE VALVE
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

235 MCPS RSP #1
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

240 MCPS RSP #2
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

245 MCPS RSP #3
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

250 MCPS INTAKE FAN
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

255 MCPS EXHAUST FAN #1
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

260 MCPS EXHAUST FAN #2
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

265 SUMP PUMP, MCPS
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________

270 AIR COMPRESSOR, MCPS
1) CHECK O&M MANUAL FOR SUGGESTED PM PROCEDURES
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
COMMENTS:____________________________________________________
<table>
<thead>
<tr>
<th>Job Steps</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
</table>
| 10        | CLEVES PS CHANNEL GRINDER | 1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES  
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.  
COMMENTS: | |
| 15        | CLEVES P.S. CHANNEL AUGER | 1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES  
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.  
COMMENTS: | |
| 20        | CLEVES PS EXHAUST FAN | 1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES  
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.  
COMMENTS: | |
| 25        | CLEVES PS INTAKE FAN | 1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES  
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.  
COMMENTS: | |
| 30        | CLEVES PS RSP#1 | 1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES  
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.  
COMMENTS: | |
| 35        | CLEVES PS RSP#2 | 1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES  
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.  
COMMENTS: | |
| 40        | CLEVES PS RSP#3 | 1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES  
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.  
COMMENTS: | |
| 45        | CLEVES PS RSP#4 | 1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES  
2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.  
COMMENTS: | |
Job Plan Number – JP1230
ICTP, CLEVS PS QUARTERLY PM

Job Steps

10  CLEVES PS CHANNEL GRINDER
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS: ______________________________________

15  CLEVES P.S. CHANNEL AUGER
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS: ______________________________________

20  CLEVES PS EXHAUST FAN
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS: ______________________________________

25  CLEVES PS INTAKE FAN
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS: ______________________________________

30  CLEVES PS RSP#1
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS: ______________________________________

35  CLEVES PS RSP#2
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS: ______________________________________

40  CLEVES PS RSP#3
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS: ______________________________________

45  CLEVES PS RSP#4
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS: ______________________________________
## Job Steps

1. **CLEVES PS CHANNEL GRINDER**
   1. Check O&M manual for proper PM procedures
   2. Note any unusual conditions, noises or vibrations.
   
   **COMMENTS:**

2. **CLEVES P.S. CHANNEL AUGER**
   1. Check O&M manual for proper PM procedures
   2. Note any unusual conditions, noises or vibrations.
   
   **COMMENTS:**

3. **CLEVES PS EXHAUST FAN**
   1. Check O&M manual for proper PM procedures
   2. Note any unusual conditions, noises or vibrations.
   
   **COMMENTS:**

4. **CLEVES PS INTAKE FAN**
   1. Check O&M manual for proper PM procedures
   2. Note any unusual conditions, noises or vibrations.
   
   **COMMENTS:**

5. **CLEVES PS RSP#1**
   1. Check O&M manual for proper PM procedures
   2. Note any unusual conditions, noises or vibrations.
   
   **COMMENTS:**

6. **CLEVES PS RSP#2**
   1. Check O&M manual for proper PM procedures
   2. Note any unusual conditions, noises or vibrations.
   
   **COMMENTS:**

7. **CLEVES PS RSP#3**
   1. Check O&M manual for proper PM procedures
   2. Note any unusual conditions, noises or vibrations.
   
   **COMMENTS:**

8. **CLEVES PS RSP#4**
   1. Check O&M manual for proper PM procedures
   2. Note any unusual conditions, noises or vibrations.
   
   **COMMENTS:**
Job Plan Number – JP1232
ICTP, CLEVS PS ANNUAL PM

Job Steps
10 CLEVES PS CHANNEL GRINDER
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS:____________________________________________

15 CLEVES P.S. CHANNEL AUGER
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS:____________________________________________

20 CLEVES PS EXHAUST FAN
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS:____________________________________________

25 CLEVES PS INTAKE FAN
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS:____________________________________________

30 CLEVES PS RSP#1
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS:____________________________________________

35 CLEVES PS RSP#2
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS:____________________________________________

40 CLEVES PS RSP#3
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS:____________________________________________

45 CLEVES PS RSP#4
   1) CHECK O&M MANUAL FOR PROPER PM PROCEDURES
   2) NOTE ANY UNUSUAL CONDITIONS, NOISES OR VIBRATIONS.
   COMMENTS:____________________________________________
TITLE: POLK RUN PUMP STATION – WEEKLY PM PROCEDURE

Perform the ___WEEKLY___ PM for the equipment listed below using the standard job steps for that equipment. If additional work is required to repair the equipment, other than PM, initiate a separate work order for that equipment. Complete all PM task first Before attempting any repairs.

If you find additional steps are necessary to complete the PM, write the steps in the comment Section and alert your supervisor of the additional steps.

DAY OF THE WEEK: __FRIDAY____________
COST CENTER OR EQUIPMENT NUMBER: _P01-01.01-A001__
CRAFT: 25 & 27 _ NUMBER OF MEN __2____
ESTIMATED HOURS: __3.5

JOB STEPS

Standard job steps for the _WEEKLY___ PM on the ____POLK RUN PUMP STATION EQUIPMENT___ in the ____POLK RUN PUMP STATION BUILDING AND OUTSIDE AREA__ LOCATION :

FROM Loveland Madeira Road and Kemper Road.

Go (1/10) mile south on Loveland Madeira Road. The station is on the right. Fenced area.

*** VISUALLY INSPECT EQUIPMENT AND AREA AND NOTE ANY PROBLEMS ***

0) NOTE : SAFETY – CHECK VENTALATION FAN UNIT IN BACK OF STATION FOR CONTINUOUS OPERATION (BEFORE ENTERING) BUILDING. OPEN ACCESS DOOR IN FRONT OF BUILDING FOR POSSIBLE WATER IN BASEMENT ( DRY WELL AREA ), CHECK WET WELL FOR POSSIBLE FLOODING CONDITION. ( RESET FOR VENTALATION FAN IS ONE LEVEL DOWN AT MOTOR CONTROL CENTER).

1) Check Endress & Hauser ( West level Transmitter ) level transmitter reading with control room operator level reading.
2) Check Endress & Hauser (East level Transmitter) level transmitter reading with control room operator level reading.
3) Check backup Air Compressor inside door to ensure (AC Power is on, Unit is plugged into AC outlet, Air Compressor switch is [on], pressure switch is set to come automatically)
4) Open the equipment access hatch to the dry well and check for water or flooding condition. Report to Maintenance immediately.
5) Go one level down – Check Inverter for power. Check controller for power, during normal operation (RED) indicator for pump failure is (ON), selector dial for pump sequence is set on (1-3).

During normal operation the pump settings will have pump #3 (ON) with selector set to (VAR SPD) variable speed being controlled by computer analog signals and pump #1 will not be running selector set to (AUTO FS) auto full speed being controlled as a backup by bubbler system. Check control panel to ensure both air compressors set to (ON) position.

6) Check Regulated Battery Charger (SENS UNIT) for (25 volts reading).
7) Check Elevator light, replace if needed.
8) Check Elevator (PHONE FOR DIAL TONE), before using elevator.
9) Check (VFD’s) lights (Push to Test) and air filters.
10) Check MCC (Motor Control Center) lights (Push to Test).
11) Air Compressors (2) – check pressure gauges (3) should read (80 PSI) each. Check (oil level, belts, air filter & oil filter).
12) Air Compressors (2) – Drain condensation from tanks.
13) Raw Sewage Pumps (3) – basement – Check (SEALS, SHAFTS, NOISE FROM PUMPS, GAUGES & CHECK ANTI-FREEZE LEVEL USED FOR SEAL LUBRICATION).
14) Check Sump Pumps (2) for proper operation & test floats.
15) Check lights in ceiling and emergency lighting units. Replace as needed.

Prepared by: Jim Winn, George Hobdy, Tim Lester & Dennis Edwards
Date: 1-2002

Master File Name PMDESCMS.DOC
7-9-98
File each new file as PM_____.doc The space is for each plant use plant letters and then 4 digits. Once this procedure is entered into Maximo save as PM_____.doc the spaces for Maximo Number. Also enter Maximo procedure number at the top of this form. Behind Procedure Number
TITLE: HARPER PUMP STATION – WEEKLY PM PROCEDURE

Perform the ___WEEKLY__ PM for the equipment listed below using the Standard job steps for that equipment. If additional work is required to repair the equipment, other than PM, initiate a separate work order for that equipment. Complete all PM tasks first Before attempting any repairs.

If you find additional steps are necessary to complete the PM, write the steps in the comment Section and alert your supervisor of the additional steps.

DAY OF THE WEEK : __FRIDAY_________
COST CENTER OR EQUIPMENT NUMBER : _P02-01.01-A001_______
CRAFT: 11 & 27.____ NUMBER OF MEN __2_____
ESTIMATED HOURS: __2.0

JOB STEPS

Standard job steps for the ___WEEKLY_- INSPECTION____ PM on the ___EQUIPMENT ____ in the __HARPER PUMP STATION BUILDING AND OUTSIDE AREA__ LOCATION :

FROM WEST LOVELAND AVE. AND WALL STREET.
Go north on Wall St. and turn right on Harper Ave. The station is at the end of Harper Ave. To get to station go through Park, drive to end of road through Park, station is on right side.

*** VISUALLY INSPECT EQUIPMENT AND AREA AND NOTE ANY PROBLEMS ***

1) Check Foxboro chart recorder for movement and reading.(gpm & ft) ( verify level (FT) with control room operator)
2) Check Foxboro transmitter for reading that will match recorder reading. ( GPM) ( verify flow with control room operator)
3) Motor Control Center – Check all light bulbs on ( VFD)& (MCC) panels and mechanical totalizer (6) for proper operation. (Push to Test)
4) MCC – Check drive speed display for operation.
5) MCC – Check bearing temperature display (low bearing temperature) for pumps (1, 2 & 3).
6) MCC – Check logic controller for display operation and reading.
7) VFD’s – Check and replace air filters as needed. (17 total)
8) Check and replace building air filters (2) as needed.
9) Check building exhaust damper for constant fan operation.
10) Check emergency light unit on wall for proper operation. (TEST)

11) MUFFIN MONSTER- #2 Hydraulic Power Unit checks.
   Check power on lights and green run lights at panel.
   Oil level in sight glass up to black line.
   Temperature in sight glass between (60 & 140 Degrees F).
   The pressure gauges should be less than (2000 PSI) – two gauges.
   Oil filter gauges LESS THAN (15 PSI).
   Check for oil leaks in hydraulic lines.

12) OUTSIDE – Check wet well for sewage build up or grease. Open access doors, USE PROPER SAFETY PROCEDURES.

13) At the Kohler Generator box on the wall next to MCC, check that the (System Ready) and (Line Power) lights are lit.

Prepared by: Tim Lester, Jim Winn, George Hobdy & Dennis Edwards
Date: Jan. 2002

Master File Name PMDESCMS.DOC
7-9-98
File each new file as PM_____.doc The space is for each plant use plant letters and then 4 digits.
Once this procedure is entered into mapcon save as PM_____.doc the spaces for Mapcon Number.
Also enter Mapcon procedure number at the top of this form. Behind Procedure Number
Job Plan Number – JP1244
TCTP, PLEASANT RUN CENTRAL ANNUAL PM

Job Steps

5 GARAGE DOOR
  1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
  1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
  1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
  1) INSPECT MOTOR HOUSING
  2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
  1) INSPECT MOTOR HOUSING
  2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
  1) INSPECT MOTOR HOUSING AND PUMP HOUSING
  2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
  1) INSPECT MOTOR HOUSING AND PUMP HOUSING
  2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
  1) INSPECT MOTOR HOUSING AND PUMP HOUSING
  2) RECORD MEGGAR READINGS
     A__________  B__________  C__________
  3) RECORD RESISTANCE BETWEEN WINDINGS
     A-B__________  A-C__________  B-C__________
  4) RUN PUMP AND TAKE AMPERAGE READINGS
     A__________  B__________  C__________
  5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
  1) INSPECT MOTOR HOUSING AND PUMP HOUSING
  2) RECORD MEGGAR READINGS
     A__________  B__________  C__________
  3) RECORD RESISTANCE BETWEEN WINDINGS
     A-B__________  A-C__________  B-C__________
  4) RUN PUMP AND TAKE AMPERAGE READINGS
     A__________  B__________  C__________
  5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
  6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

RAW SEWAGE PUMP #4
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

RAW SEWAGE PUMP #5
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
75 ODOR CONTROL BLOWER
1) INSPECT MOTOR HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B___________ C___________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A_________ B_________ C_________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B________ A-C________ B-C________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A______ B______ C______
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

55 RAW SEWAGE PUMP #4
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A_________ B_________ C_________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B________ A-C________ B-C________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A______ B______ C______
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 RAW SEWAGE PUMP #5
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A_________ B_________ C_________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B________ A-C________ B-C________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A______ B______ C______
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A_________ B_________ C_________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B________ A-C________ B-C________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A______ B______ C______
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

70 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A_________ B_________ C_________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B________ A-C________ B-C________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A______ B______ C______
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
75 ODOR CONTROL BLOWER
1) INSPECT MOTOR HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1246

TCTP, PLEASANT RUN CENTRAL QUARTERLY PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

55 RAW SEWAGE PUMP #4
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 RAW SEWAGE PUMP #5
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

70 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
75 ODOR CONTROL BLOWER
1) INSPECT MOTOR HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1247
TCTP, PLEASANT RUN WEST ANNUAL PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

55 RAW SEWAGE PUMP #4
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1248
TCTP, PLEASANT RUN WEST SEMI-ANNUAL PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

55 RAW SEWAGE PUMP #4
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1249
TCTP, PLEASANT RUN WEST QUARTERLY PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

55 RAW SEWAGE PUMP #4
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1250
TCTP, PLEASANT RUN EAST ANNUAL PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1251

TCTP, PLEASANT RUN EAST SEMI-ANNUAL PM

Job Steps

5  GARAGE DOOR
   1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
   1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
   1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
   1) INSPECT MOTOR HOUSING
   2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
   1) INSPECT MOTOR HOUSING
   2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
   1) INSPECT MOTOR HOUSING AND PUMP HOUSING
   2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
   1) INSPECT MOTOR HOUSING AND PUMP HOUSING
   2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
   1) INSPECT MOTOR HOUSING AND PUMP HOUSING
   2) RECORD MEGGAR READINGS
      A__________  B__________  C__________
   3) RECORD RESISTANCE BETWEEN WINDINGS
      A-B__________  A-C__________  B-C__________
   4) RUN PUMP AND TAKE AMPERAGE READINGS
      A__________  B__________  C__________
   5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
   1) INSPECT MOTOR HOUSING AND PUMP HOUSING
   2) RECORD MEGGAR READINGS
      A__________  B__________  C__________
   3) RECORD RESISTANCE BETWEEN WINDINGS
      A-B__________  A-C__________  B-C__________
   4) RUN PUMP AND TAKE AMPERAGE READINGS
      A__________  B__________  C__________
   5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
   6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1252
TCTP, PLEASANT RUN EAST QUARTERLY PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1253

TCTP, PLEASANT RUN CENTRAL MONTHLY PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

55 RAW SEWAGE PUMP #4
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 RAW SEWAGE PUMP #5
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

70 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
75 ODOR CONTROL BLOWER
1) INSPECT MOTOR HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B___________  C___________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1254

TCTP, PLEASANT RUN WEST MONTHLY PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________  B__________  C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________  A-C__________  B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________  B__________  C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

55 RAW SEWAGE PUMP #4
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

60 SEAL WATER PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

65 SEAL WATER PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1255
TCTP, PLEASANT RUN EAST MONTHLY PM

Job Steps

5 GARAGE DOOR
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

10 TROLLEY HOIST
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

15 GAS FURNACE
1) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
2) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

20 EXHAUST FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

25 INTAKE FAN
1) INSPECT MOTOR HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

30 SUMP PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

35 SUMP PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
3) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

40 RAW SEWAGE PUMP #1
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS

45 RAW SEWAGE PUMP #2
1) INSPECT MOTOR HOUSING AND PUMP HOUSING
2) RECORD MEGGAR READINGS
   A__________ B__________ C__________
3) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________
4) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
50 RAW SEWAGE PUMP #3  
1) INSPECT MOTOR HOUSING AND PUMP HOUSING  
2) RECORD MEGGAR READINGS  
   A__________  B__________  C__________  
3) RECORD RESISTANCE BETWEEN WINDINGS  
   A-B__________  A-C__________  B-C__________  
4) RUN PUMP AND TAKE AMPERAGE READINGS  
   A__________  B__________  C__________  
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT  
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS  

60 SEAL WATER PUMP #1  
1) INSPECT MOTOR HOUSING AND PUMP HOUSING  
2) RECORD MEGGAR READINGS  
   A__________  B__________  C__________  
3) RECORD RESISTANCE BETWEEN WINDINGS  
   A-B__________  A-C__________  B-C__________  
4) RUN PUMP AND TAKE AMPERAGE READINGS  
   A__________  B__________  C__________  
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT  
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS  

65 SEAL WATER PUMP #2  
1) INSPECT MOTOR HOUSING AND PUMP HOUSING  
2) RECORD MEGGAR READINGS  
   A__________  B__________  C__________  
3) RECORD RESISTANCE BETWEEN WINDINGS  
   A-B__________  A-C__________  B-C__________  
4) RUN PUMP AND TAKE AMPERAGE READINGS  
   A__________  B__________  C__________  
5) CHECK O&M MANUAL FOR DETAILED PM PROCEDURES FOR THIS EQUIPMENT  
6) CHECK FOR ANY UNUSUAL NOISES OR VIBRATIONS
Job Plan Number – JP1278

Job Steps

10 GATE OPERATOR
   1) CHECK DRIVE CHAIN FOR EXCESSIVE SLACK --X--
   2) CHECK AND ADJUST BRAKE AS NECESSARY --X--
   3) CHECK SPROCKETS AND SET SCREW --X--

20 CHANNEL MONSTER
   REFER TO O&M MANUAL FOR DETAILED PM
   1) CHECK FOR CONTROLLER CABINET MOISTURE --X--
   2) CLEAN CONTROLLER CABINET AS NECESSARY --X--
   3) EXERCISE EQUIPMENT IN REVERSE --X--
   4) CHECK FLUID LEVEL IN RESERVOIR --X--
   5) CHECK FOR WATER CONTAMINATION, DRAIN IF NECESSARY --X--

30 RAW SEWAGE PUMP #1
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) CHECK OPERATION OF CONTROLS --X--

40 RAW SEWAGE PUMP #2
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) CHECK OPERATION OF CONTROLS --X--

50 RAW SEWAGE PUMP #3
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) CHECK OPERATION OF CONTROLS --X--

60 RAW SEWAGE PUMP #4
   1) RECORD MEGGAR READINGS --X--
      A___________ B___________ C___________
   2) CHECK OPERATION OF CONTROLS --X--
Job Plan Number – JP1279
TAYLOR CREEK P.S. MONTHLY PM

Job Steps

10 RAW SEWAGE PUMP #1
1) INSPECT PUMP INSTALLATION.
   CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--
2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--
3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--
4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--
5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS--
6) RECORD MEGGAR READINGS
   A_______  B_______  C_______
7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B_______  A-C_______  B-C_______
8) RUN PUMP AND TAKE AMPERAGE READINGS
   A_______  B_______  C_______

20 RAW SEWAGE PUMP #2
1) INSPECT PUMP INSTALLATION.
   CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--
2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--
3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--
4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--
5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS--
6) RECORD MEGGAR READINGS
   A_______  B_______  C_______
7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B_______  A-C_______  B-C_______
8) RUN PUMP AND TAKE AMPERAGE READINGS
   A_______  B_______  C_______

30 RAW SEWAGE PUMP #3
1) INSPECT PUMP INSTALLATION.
   CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--
2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--
3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--
4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--
5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF ITS OBVIOUS THERE IS WATER IN IT, CHANGE OIL--X-- PUMP RUN HOURS--
6) RECORD MEGGAR READINGS
   A_______  B_______  C_______
7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B_______  A-C_______  B-C_______
8) RUN PUMP AND TAKE AMPERAGE READINGS
   A_______  B_______  C_______
RAW SEWAGE PUMP #4

1) INSPECT PUMP INSTALLATION.
   CHECK THAT GUIDE RAILS ARE VERTICAL --X--
   CHECK CONDITION OF LIFTING MECHANISM AND CABLES/CHAIN --X--
   CHECK ALL SCREWS, BOLTS FOR TIGHTNESS --X--

2) INSPECT MOTOR HOUSING AND PUMP HOUSING --X--

3) INSPECT POWER AND CONTROL CABLES, ENTRANCE FITTINGS --X--

4) RECORD WEAR RING CLEARANCE IF POSSIBLE --X--

5) TAKE SAMPLE OF SEAL OIL, SAVE AND MARK CONTAINER, IF IT'S OBVIOUS THERE IS WATER IN IT, CHANGE OIL --X-- PUMP RUN HOURS

6) RECORD MEGGAR READINGS
   A__________ B__________ C__________

7) RECORD RESISTANCE BETWEEN WINDINGS
   A-B__________ A-C__________ B-C__________

8) RUN PUMP AND TAKE AMPERAGE READINGS
   A__________ B__________ C__________

TROLLEY HOIST

REFER TO O&M MANUAL FOR DETAILED INSTRUCTIONS

1) CHANGE OIL IN GEAR BOX --X--

AIR COMPRESSOR #1

1) CHECK CONDITION OF BELTS, REPLACE IF NECESSARY --X--

2) CHANGE OIL IN COMPRESSOR --X--

3) RECORD MEGGAR READINGS OF MOTOR --X--
   A__________ B__________ C__________

4) RECORD AMPERAGE OF MOTOR --X--
   A__________ B__________ C__________

AIR COMPRESSOR #2

1) CHECK CONDITION OF BELTS, REPLACE IF NECESSARY --X--

2) CHANGE OIL IN COMPRESSOR --X--

3) RECORD MEGGAR READINGS OF MOTOR --X--
   A__________ B__________ C__________

4) RECORD AMPERAGE OF MOTOR --X--
   A__________ B__________ C__________

CHANNEL MONSTER

REFER TO O&M MANUAL FOR DETAILED INSTRUCTIONS

1) INSPECT MOTOR STARTER CONTACTS, REPLACE IF PITTED --X--

2) REMOVE AND CLEAN UNIT --X--

   INSPECT BEARINGS AND SEAL ASSEMBLIES --X--

3) CHANGE OIL IN HYDRAULIC RESERVOIR, KEEP SAMPLE IN JAR AND MARK --X--

SLUICE GATE #1

REFER TO O&M MANUAL FOR DETAILS OF PM

1) CHANGE OIL IN GEARBOX --X--

2) MEGGAR MOTOR --X--
   A__________ B__________ C__________

3) RECORD AMPERAGE OF MOTOR --X--
   A__________ B__________ C__________
1) CHANGE OIL IN GEARBOX --X--
2) MEGGAR MOTOR --X--
   A_____________ B_____________ C_____________
3) RECORD AMPERAGE OF MOTOR --X--
   A_____________ B_____________ C_____________