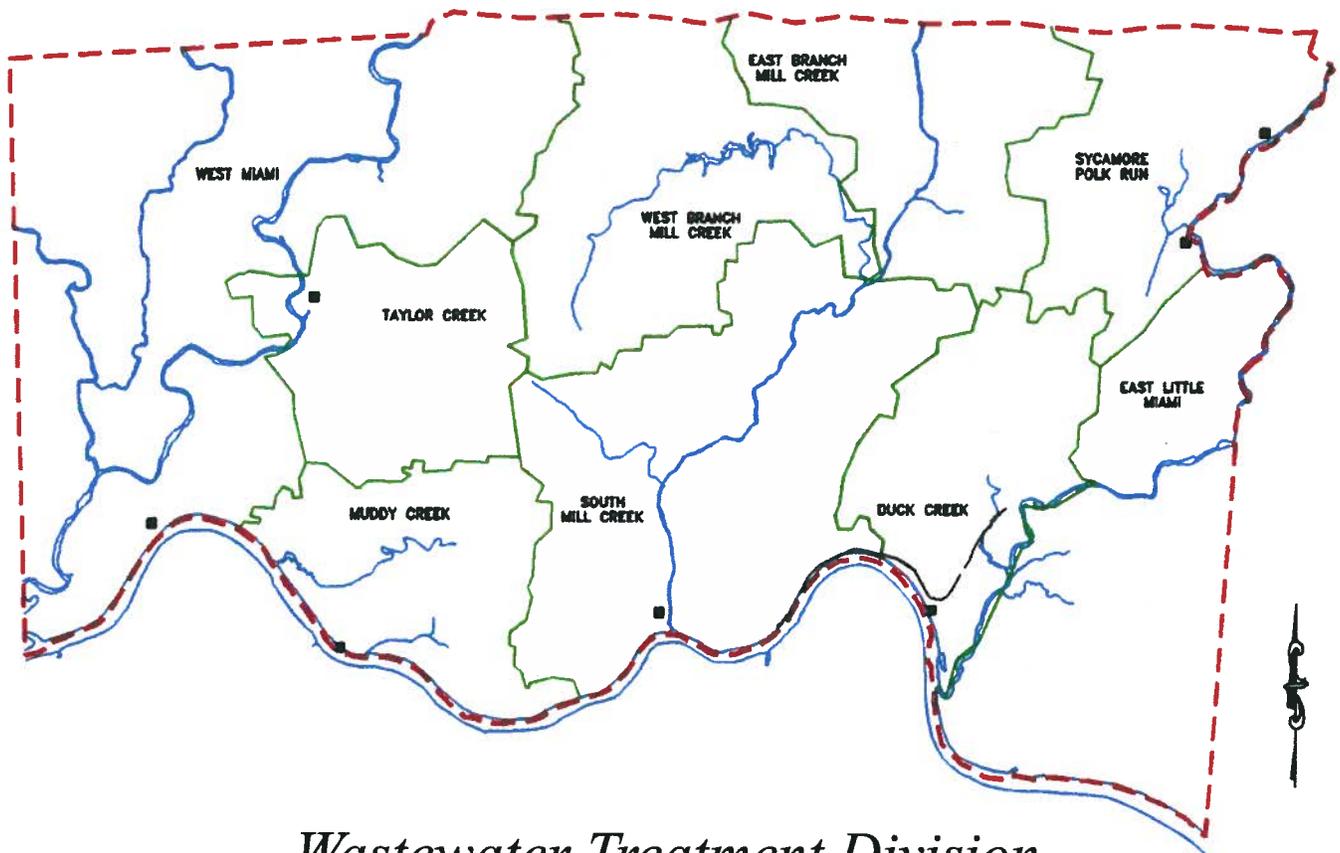


US EPA ARCHIVE DOCUMENT

EXHIBIT 9

Metropolitan Sewer District of Greater Cincinnati

PUMP/LIFT STATION OPERATION AND MAINTENANCE PROCEDURES



Wastewater Treatment Division

DECEMBER 1999
REVISED FEBRUARY 2002
REVISED MARCH 2003



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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 in a cell indicates that a work description is entered in the computerized maintenance management system (CMMS)

APPENDIX C

Revised: 03-Mar-03

Metropolitan Sewer District Pump Station Inspection and Preventive Maintenance Summary

Pump Station	Drain Area	Maint Resp	Type	Inspec. Freq.	Preventive Maintenance Frequency					
					Weekly	2-Weeks	Monthly	Quarterly	Semiann.	Annual
1	Acomb	PoRu	PSG	SUBMERSIBLE		JP0177				JP0181
2	Addyston	MuCr	PSG	DW-HORIZONTAL		JP0178				JP0183
3	Anderson Ferry	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
4	Anderson Woods	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
5	Arrowhead	TaCr	PSG	MON-O-JET	JP0179					JP0184
6	Arrowood	TaCr	PSG	MON-O-JET	JP0179					JP0184
7	Bahama Gardens	TaCr	PSG	DW-VERTICAL		JP0178				JP0183
8	Bailey Place	MuCr	PSG	HTF		JP0177				JP0181
9	Barrington Hills	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
10	Barrington Hills Block F	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
11	Beckman	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
12	Berkley Woods	LiMi	PSG	DW-VERTICAL		JP0178				JP0183
13	Blanchetta	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
14	Britney Acres	LiMi	PSG	DW-VERTICAL		JP0178				JP0183
15	Bruestle	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
16	Camargo Canyon	SyCr	PSG	SUBMERSIBLE		JP0177				JP0181
17	Camberly Acres	TaCr	PSG	DW-VERTICAL		JP0178				JP0183
18	Carpenters Run	SyCr	PSG	DW-VERTICAL		JP0178				JP0183
19	Centurion Estates	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
20	Churchill Downs	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
21	Cornell Woods	SyCr	PSG	SUBMERSIBLE		JP0177				JP0181
22	Country Club Estates	MuCr	PSG	MON-O-JET	JP0179					JP0184
23	Dellers Glen	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
24	Dellwood Estates	MuCr	PSG	MON-O-JET	JP0179					JP0184
25	Diamond Oaks	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
26	Drexel Development	MuCr	PSG	HTF		JP0177				JP0181
27	Dry Run	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
28	Durango Green	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
29	Eastern Avenue	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
30	Estates of Forest Hills	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
31	Fithian	MuCr	PSG	DW-VERTICAL		JP0178				JP0183

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Metropolitan Sewer District Pump Station Inspection and Preventive Maintenance Summary

Revised: 03-Mar-03

Pump Station	Drain Area	Maint Resp	Type	Inspec. Freq.	Preventive Maintenance Frequency					
					Weekly	2-Weeks	Monthly	Quarterly	Semiann.	Annual
32	Foley Forest	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
33	Foley Road	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
34	Fontaine	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
35	Fries Third	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
36	Garden Hills	TaCr	PSG	DW-VERTICAL		JP0178				JP0183
37	Gil Volz	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
38	Glens Landing	SyCr	PSG	SUBMERSIBLE		JP0177				JP0181
39	Glenview	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
40	Greenpine Acres	TaCr	PSG	DW-VERTICAL		JP0178				JP0183
41	Greenridge 5th	TaCr	PSG	DW-VERTICAL		JP0178				JP0183
42	Grooms Road	SyCr	PSG	SUBMERSIBLE		JP0177				JP0181
43	Hageman Street	SyCr	PSG	DW-VERTICAL		JP0178				JP0183
44	Hampton Pointe	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
45	Harcourt Estates	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
46	Hengehold 2nd	MuCr	PSG	MON-O-JET		JP0179				JP0184
47	Hengehold 4th	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
48	Henrienne Court	TaCr	PSG	MON-O-JET		JP0179				JP0184
49	High Meadows	LiMi	PSG	DW-VERTICAL		JP0178				JP0183
50	High Point	SyCr	PSG	SUBMERSIBLE		JP0177				JP0181
51	Homelawn Estates	MuCr	PSG	MON-O-JET		JP0179				JP0184
52	Honnert Ridge	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
53	Hooven	MuCr	PSG	SUBMERSIBLE		JP0177				JP0183
54	Hunterston	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
55	Huntington	PoRu	PSG	SUBMERSIBLE		JP0177				JP0181
56	Johnson Road	SyCr	PSG	SUBMERSIBLE		JP0177				JP0184
57	Jordans Ridge	MuCr	PSG	MON-O-JET		JP0179				JP0184
58	Kemper Mill Village	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
59	Kemper Road Industrial	SyCr	PSG	SUBMERSIBLE		JP0177				JP0181
60	Kenwood Road	SyCr	PSG	SUBMERSIBLE		JP0177				JP0184
61	Kirkridge Acres	MuCr	PSG	DU-O-JET/DW-HORZ MON-O-JET		JP0179/JP0178 JP0179				JP0184

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Metropolitan Sewer District Pump Station Inspection and Preventive Maintenance Summary

Revised: 03-Mar-03

Pump Station	Drain Area	Maint Resp	Type	Inspec. Freq.	Preventive Maintenance Frequency					
					Weekly	2-Weeks	Monthly	Quarterly	Semiann.	Annual
62	Kleeman Green	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
63	Kugler Mill	SyCr	PSG	SUBMERSIBLE		JP0177				JP0181
64	Lasalle Place	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
65	Lawyer Point	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
66	Legends of Carpenters Run	SyCr	PSG	SUBMERSIBLE		JP0177				JP0181
67	Locust View	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
68	Mariemont Promenade	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
69	Marview Terrace	TaCr	PSG	SIMPLEX		JP0179				JP0184
70	Meadows of Wrights Farm	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
71	Miami Heights	MuCr	PSG	HTF		JP0177				JP0183
72	Millbrook #1	TaCr	PSG	DW-VERTICAL		JP0177				JP0184
73	Millbrook #2	TaCr	PSG	MON-O-JET		JP0178				JP0184
74	Mount Airy Oaks	TaCr	PSG	SUBMERSIBLE		JP0179				JP0184
75	Mount Washington	LiMi	PSG	DW-VERTICAL		JP0177				JP0183
76	Newtown	LiMi	PSG	DW-VERTICAL		JP0178				JP0183
77	North Bay Village	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
78	North Bend Crossing	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
79	Orchard Hills #1	TaCr	PSG	DW-VERTICAL		JP0178				JP0183
80	Palisades #1	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
81	Palisades #2	MuCr	PSG	MON-O-JET		JP0179				JP0184
82	Parkwoods	TaCr	PSG	SUBMERSIBLE		JP0177				JP0181
83	Placid Meadows	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
84	Ponderosa	TaCr	PSG	DW-VERTICAL		JP0178				JP0183
85	Ponderosa Woods	TaCr	PSG	MON-O-JET		JP0179				JP0184
86	Prospect Woods	LiMi	PSG	MON-O-JET		JP0179				JP0184
87	Rapid Run	MuCr	PSG	DW-VERTICAL		JP0178				JP0183
88	Ravens Run	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181
89	Regency Ridge (Harrison Av)	MuCr	PSG	SUBMERSIBLE		JP0177				JP0181
90	Retwood Estates/Retview	PoRu	PSG	SUBMERSIBLE		JP0177				JP0181
91	Ridgewood Arsenal	TaCr	PSG	FLUSH VALVE		JP0177				JP0181
92	River Hills	LiMi	PSG	SUBMERSIBLE		JP0177				JP0181

APPENDIX C

Metropolitan Sewer District Pump Station Inspection and Preventive Maintenance Summary

Revised: 03-Mar-03

Pump Station	Drain Area	Maint Resp	Type	Inspec. Freq.	Preventive Maintenance Frequency					
					Weekly	2-Weeks	Monthly	Quarterly	Semiann.	Annual
93	River Oaks	PoRu	PSG			JP0177				JP0181
94	Rollman Estates	SyCr	PSG			JP0177				JP0181
95	Rustic Hills	LiMi	PSG			JP0177				JP0181
96	Shady Lane (Addyston)	MuCr	PSG			JP0177				JP0181
97	Shady Lane Park (Quadrant)	MuCr	PSG			JP0177				JP0181
98	Sharon Industrial Park	SyCr	PSG			JP0178				JP0183
99	Sheldon/Creekside	PoRu	PSG			JP0177				JP0181
100	Sherwood	TaCr	PSG		JP0179					JP0184
101	South Clipping	SyCr	PSG			JP0177				JP0181
102	Spring Leaf	TaCr	PSG			JP0177				JP0181
103	Stanberry Park	LiMi	PSG			JP0177				JP0181
104	Stratford Lake	TaCr	PSG			JP0177				JP0181
105	Streamwood	MuCr	PSG			JP0178				JP0183
106	Taylor Creek	TaCr	PSG			JP0177				JP0181
107	Taylor Road	MuCr	PSG			JP0177				JP0181
108	Tennyson	SyCr	PSG			JP0177				JP0181
109	Timbers	TaCr	PSG			JP0178				JP0183
110	Towers East	TaCr	PSG			JP0178				JP0183
111	Treetops	LiMi	PSG			JP0177				JP0181
112	Turpin Lake	LiMi	PSG			JP0177				JP0181
113	Turpin Woods	LiMi	PSG			JP0177				JP0181
114	Village Woods	SyCr	PSG			JP0177				JP0181
115	Wayside	LiMi	PSG			JP0177				JP0181
116	Weller Woods	SyCr	PSG			JP0177				JP0181
117	West Chase	TaCr	PSG			JP0177				JP0181
118	Westport Village	MuCr	PSG			JP0177				JP0181
119	White Oak Terrace	TaCr	PSG			JP0179				JP0184
120	Willow Ridge	TaCr	PSG			JP0177				JP0181
121	Windmere Third	MuCr	PSG			JP0177				JP0181
122	Winton Woods #1	TaCr	PSG			JP0178				JP0183

APPENDIX C

Metropolitan Sewer District Pump Station Inspection and Preventive Maintenance Summary

Revised: 03-Mar-03

Pump Station	Drain Area	Maint Resp	Type	Inspec. Freq.	Preventive Maintenance Frequency					
					Weekly	2-Weeks	Monthly	Quarterly	Semiann.	Annual
123 Winton Woods #2	TaCr	PSG	MON-O-JET		JP0179					JP0184
124 WynBrook	SyCr	PSG	SUBMERSIBLE							JP0184
125 Yates Third	MuCr	PSG	MON-O-JET		JP0179	JP0177				JP0184
126 Bold Face	MiCr	Cent	DW-HORIZONTAL	1 / day	JP0194					
127 Delta Avenue	LiMi	East	DW-HORIZONTAL	4 / day	JP0178			JP0193		
128 Harper Avenue	PoRu	East	SUBMERSIBLE	1 / week	JP1241					JP0183
129 Polk Run	PoRu	East	DW-HORIZONTAL	1 / week	JP1240					
130 Cleves	MuCr	West	SUBMERSIBLE	2 / day				JP1229	JP1230	JP1231
131 Colerain-Bevis	TaCr	West	SUBMERSIBLE	2 / week				JP1278		
132 Muddy Creek	MuCr	West	DW-HORIZONTAL	2 / day				JP1225	JP1226	JP1227
133 Pleasant Run Central	TaCr	West	DW-VERTICAL	2 / week				JP1253	JP1246	JP1245
134 Pleasant Run East	TaCr	West	DW-VERTICAL	2 / week				JP1255	JP1252	JP1251
135 Pleasant Run West	TaCr	West	DW-VERTICAL	2 / week				JP1254	JP1249	JP1248

Pump Station Elimination Summary

Date Eliminated	Station Eliminated	Drain Area	Maint Resp	Type
09-Aug-01	Elbrook	SyCr	PSG	MON-O-JET
18-Mar-02	Orchard Gate	TaCr	PSG	SUBMERSIBLE
05-Jun-02	White Oak Estates	TaCr	PSG	MON-O-JET
22-Jan-03	St. James Park	LiMi	PSG	SUBMERSIBLE

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.

MAXIMO Job Plan Number – JP 0177
Submersible Pump Preventive Maintenance – Weekly

Prepared January 3, 2002

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.

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Prepared January 3, 2002

Submersible Pump Preventive Maintenance – Weekly

- 160 Close the wet well cover.
Check Generator
- 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

MAXIMO Job Plan Number – JP0178
Dry Well Preventive Maintenance – Weekly

Prepared January 3, 2002

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

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- 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

MAXIMO Job Plan Number – JP0179

Prepared January 3, 2002

Air Lift 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 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.

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Air Lift Preventive Maintenance – Weekly

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- 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.*
Check Control Cabinet
- 200 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

MAXIMO Job Plan Number – JP0181 Prepared January 3, 2002
Submersible Pump 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 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

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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**

MAXIMO Job Plan Number – JP0183

Prepared January 3, 2002

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.

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Air Lift Preventive Maintenance – Annual

Prepared January 3, 2002

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

MAXIMO Job Plan Number – JP0184
Dry Well Preventive Maintenance – Annual

Prepared January 3, 2002

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.

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- 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

JP0193 - BOLDFACE MONTHLY PM

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.

JP0194 - BOLDFACE WEEKLY 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 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 _____
- 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 FIR WEAR AND DAMAGE --X--

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 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 _____
- 40 RAW SEWAGE PUMP #2
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____
- 50 RAW SEWAGE PUMP #3
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____
- 60 RAW SEWAGE PUMP #4
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____

2) CHECK OPERATION OF CONTROLS --X--

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 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 _____
- 50 TROLLEY HOIST
REFER TO O&M MANUAL FOR DETAILED INSTRUCTIONS
- 60 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 _____
- 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 AMPERAGE 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 AMPERAGE 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 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 _____
- 40 RAW SEWAGE PUMP #2
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____
- 50 RAW SEWAGE PUMP #3
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____
- 60 RAW SEWAGE PUMP #4
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____
- 70 AIR COMPRESSOR #1
2) CHECK OPERATION OF CONTROLS --X--
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 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: _____

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: _____

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

- 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

- 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

- 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: _____

MSD DIVISIONAL
PREVENTIVE MAINTENANCE FORM

Procedure Number

PM – 2543 / JOB PLAN - 1240

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 SEAI 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

MSD DIVISIONAL
PREVENTIVE MAINTENANCE FORM

Procedure Number _____ **PM – 2544 / JOB PLAN – 1241**

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 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

TCTP, PLEASANT RUN CENTRAL ANNUAL PM

- 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

TCTP, PLEASANT RUN CENTRAL ANNUAL PM

- 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

TCTP, PLEASANT RUN CENTRAL SEMI-ANNUAL PM

- 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

TCTP, PLEASANT RUN CENTRAL QUARTERLY PM

- 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

TCTP, PLEASANT RUN CENTRAL QUARTERLY PM

- 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 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 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

TCTP, PLEASANT RUN WEST SEMI-ANNUAL PM

- 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 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

TCTP, PLEASANT RUN WEST QUARTERLY PM

- 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 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 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

TCTP, PLEASANT RUN EAST SEMI-ANNUAL PM

- 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 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

TCTP, PLEASANT RUN EAST QUARTERLY PM

- 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 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

TCTP, PLEASANT RUN CENTRAL MONTHLY PM

- 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 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

TCTP, PLEASANT RUN WEST MONTHLY PM

- 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 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 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 _____
- 40 RAW SEWAGE PUMP #2
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____
- 50 RAW SEWAGE PUMP #3
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____
- 60 RAW SEWAGE PUMP #4
1) RECORD MEGGAR READINGS --X--
A _____ B _____ C _____

2) CHECK OPERATION OF CONTROLS --X--

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 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 _____
- 50 TROLLEY HOIST
REFER TO O&M MANUAL FOR DETAILED INSTRUCTIONS
- 60 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 _____
- 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 AMPERAGE 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 AMPERAGE OF MOTOR --X--
A _____ B _____ C _____

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TAYLOR CREEK P.S. MONTHLY PM

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 _____