

SANITARY DISTRICT OF DECATUR

501 Dipper Lane Decatur, IL (217) 422-6931

MEMORANDUM

DATE: 1/18/2021

SUBJECT: Maintenance Monthly Activity Report for December 2020

Overall

The entire maintenance staff continues to work on staggered shifts split in to A and B groups. Each crew is assigned specific break and lunch periods to limit interactions. We have assigned each inside maintenance person specific buildings / areas to report to each morning. Everyone is working on completing all open work orders that can be safely completed by one person in each building they are assigned. While they are working in the buildings, they are also looking for any other issues that need attention and having work orders created. Outside maintenance staff is working as normal and limiting interactions between the two crews as much as possible. In the I&C department, we currently have two people reporting to the plant and two taking care of all outside or assigned to specific projects in the plant.

The replacement Ford F450 was picked up at Bob Ridings and a purchase order has been issued to Koenig Body to remove the service body from the old F450 and install it on the new truck. During installation they will also install a replacement wirelessly controlled crane system and new stabilizers. The existing crane is no longer reliable. Upon disassembly the rear bumper also required replacement. Lead time on the bumper was 2-3 weeks. The truck is scheduled to be completed by the end of the month (January 2021).

Work Orders Completed, Total of 1472

66 Corrective
11 Improvement / New
1288 PM
5 Process
1 Project
38 Safety
0 Training / Meeting
3 Asset Management
60 Proactive Work / Issues found during a PM

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Systems Integrator and I&C Monthly Activity

Cleaning up old wiring at the 325 and 043 buildings.

Labeling all Hirschmann switches in plant that are now on business network.

Installing wireless access points in 16 locations around the plant for future CMMS system (completed 013, 325, 259, 009 buildings).

Installed new solar alarm system for the ferrous manhole. This area does not have easy access to power. The solar alarm panel will provide an audio and visual alarm if the manhole fills with water or ferrous (Picture below).



Performing audits on all outside pump stations (two I&C technicians assigned to work in town)

- Verifying and adding proper voltage stickers on all power feeds and panels
- Adding updated laminated I/O lists
- Replacing bad or broken panduit covers inside panels
- Taking pictures of completed work for pump station files to be added to engineering server
- Updating and adding new mcc/plc drawings

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Upgrading plc's for 30 outside minor pump stations. Each I&C technician will be installing at least 5 plc's, updating the programs, and testing new installations for in house training. So far, 13 plc's have been upgraded, 5 plc's have been prepared for the upgrade.

Looking at replacing a soft start at St. Louis bridge with a VFD for better control when slowing down pump and increased reliability.

Testing digital paperless chart recorders to replace old circular models. New model would allow for monitoring and trending of all aspects of major station operations

Completed all routine p.m.'s.

Installed test probes in the grit detritor tanks for Don Miller.

System integrator

Cleaned up pictures for 203 building in SCADA adding new Vulcan washer compactors

Trained Alan Ferriell on how to update firmware on cellular modems for outside communications. Alan upgraded firmware on 50 modems.

Testing digital paperless chart recorders to replace old circular models. New model would allow for monitoring and trending of all aspects of major station operations

Setup 13 Hirschmann switches for the CMMS network to work around entire plant

Mechanical Maintenance Monthly Activity

The outside maintenance crew has taken advantage of the warmer temperatures and cleaned wet wells at many of our outside pump stations and clear off / walk easements.

The inside maintenance group is working through cleaning the fire tubes in all four of the digester heat exchangers. Heat exchanger #2 was completed and put back in to service. Heat Exchanger #1 developed a water leak and was put ahead of #4. During inspection of #1 we found a failure in the fire tubes. Jarvis Boiler & Welding was brought in to replace the fire tubes with new. This work was completed, and the unit was filled 1/19/21 and has been returned to service. Heat exchanger #4 will be the next unit service. During service, the covers are removed / cleaned, all fire tubes are cleared / inspected, and the main burner tube is cleaned.

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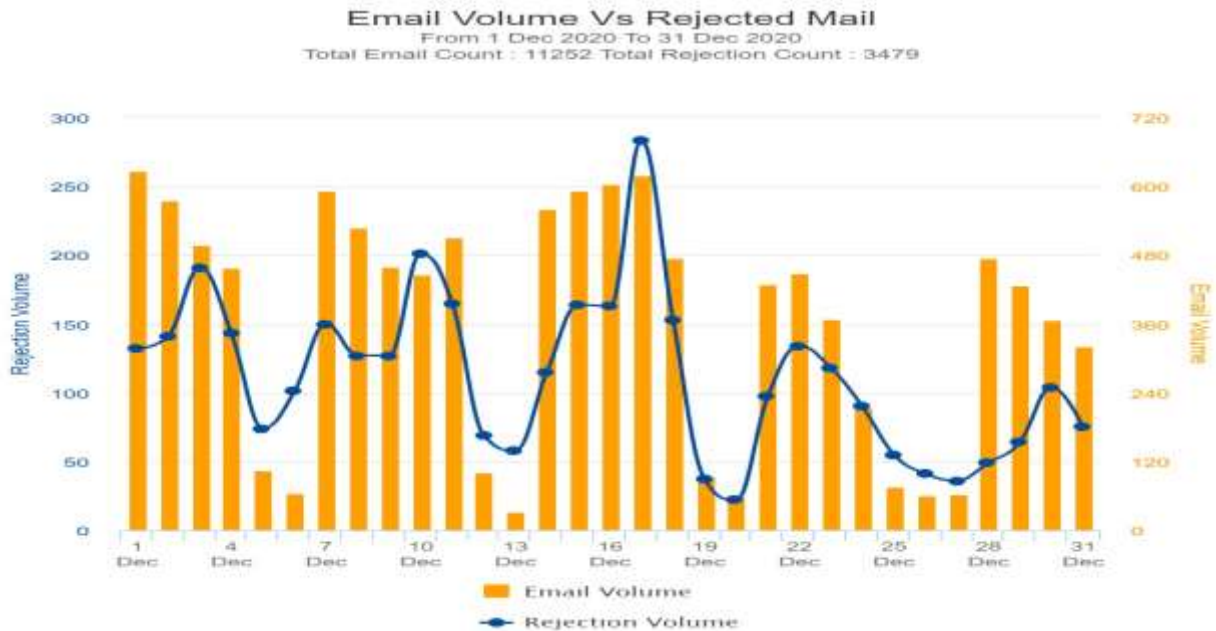
We have begun the process of replacing all potable and seal water lines in the 217-building basement with stainless steel. This area is moist most of the time and the lines are corroding and require frequent paint maintenance.

Effluent Pump #3 was pulled due excessive vibration and our spare pump was installed. Effluent Pump #3 was sent in for repair evaluation. Effluent Pump #1 had an intermittent fault for seal failure and was pulled for evaluation. The sensor cable is defective and will replace the sensor cable, power cables, and all associated glands. The lead time for the repair parts is 6-8 weeks.

M.I.S. Department Monthly Update

- Network Administration, Helpdesk, Troubleshooting and Repair
 - Ongoing network administration.
 - Planning and coordination of installation & set up SDD campus Wi-Fi

Email Security

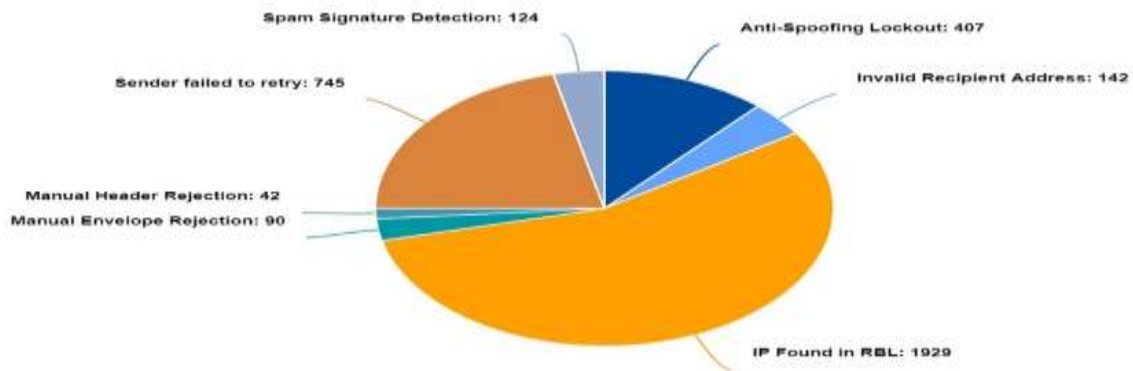


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Rejection Overview
From 1 Dec 2020 To 31 Dec 2020
Total Rejection Count: 3479



Email Statistics Report

From Jan - 2020 To Dec - 2020

Month-Year	Total Inbound email	Rejections (includes viruses & spam)	Legit Inbound Email	% Rejections	Total Outbound email	Total Internal email
Jan - 2020	2,636	1,326	1,310	50.30 %	393	2,134
Feb - 2020	6,553	4,772	3,781	55.79 %	1,582	5,069
Mar - 2020	8,176	3,422	4,754	41.85 %	1,849	6,204
Apr - 2020	7,871	3,984	3,887	49.98 %	1,295	6,787
May - 2020	7,250	3,380	3,870	46.62 %	862	5,473
June - 2020	7,441	3,306	4,135	44.43 %	1,370	5,854
July - 2020	8,416	4,242	4,174	50.40 %	815	5,189
Aug - 2020	7,644	3,806	3,838	49.79 %	1,017	4,504
Sep - 2020	7,999	3,898	4,101	48.73 %	1,373	5,133
Oct - 2020	8,845	4,262	4,583	48.19 %	1,335	6,155
Nov - 2020	8,286	4,335	3,951	52.32 %	1,442	6,150
Dec - 2020	7,758	3,479	4,279	44.84 %	1,164	5,809
Total	90,975	44,212	46,763		14,298	64,481
Mean	7,581.25	3,684.33	3,896.92	48.60 %	1,191.50	5,373.42

If you have any questions or would like additional information about the maintenance department and our activities, feel free to contact me.

Thank you,

James Malone, CPMM

Phone: (217) 422-6931 (x-226)