

Maintenance Monthly Activity Report for August 2023

Overall

We are continuing to work with Kirby Risk and alternate vendors to obtain competitive quotes for the motor control center replacement projects. I will provide updates in the following months on the progress.

Ford is slowly opening the ordering windows for Illinois State Bid Vehicles. We can now place orders for Ford F250 Trucks along with Ford Transit Cargo Vans. In old business includes a request to issue a purchase order for a new Ford F250 and two Ford Transit Cargo vans. We will also be placing an order for a new Ford Maverick for use inside the plant. This vehicle is below the amount requiring Board Approval.

I am working with Hach to increase the reliability of our online chlorine analyzers. We had a conference call and discussed the operational issues we are having with the units. We have altered our daily maintenance procedures as Hach recommended. The overall operation of the units has improved slightly. We will continue to work with Hach to resolve the drifting issues.

The fully reconditioned Neuros Blower repair has been received. We will begin to put together a project to install the blower and get it piped in. The goal is to have the blower installed and in operation by the end of this fiscal year.

Maintenance and operations staff have been coordinating to get digester #2 pumped down for evaluation. We were experiencing high methane levels in the attic space of digester #2 that created a safety concern. The contents of digester #2 are being pumped in to digester #3 at a slow rate due to the thickness of the material. Digester #3 is now fully in service.

Blake Dotson and Sam Mattox completed CDL ELDT (Entry Level Driver Training) Trainer Certification 9/15/23. We will utilize a program developed by JJ Keller to provide our staff with the required ELDT Training so they can obtain their CDL. The training is federally required for anyone who is obtaining a CDL for the first time or adding additional endorsements to their existing license.

Systems Integrator and I&C Monthly Activity

- Creating monthly spreadsheets for Black & Veatch Power BI with SCADA and Lab data
- Front Gate project drawings and controls
- Working with Farnsworth on the FRAC Tank project programming and High-Performance SCADA graphics
- Working with I&C on the installation and configuration of Digital Paperless Chart recorders at the Major pump stations around town

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- Updating Fiber Optic drawings for the plant and training several I&C techs on our fiber optic layout
- Extended the Admin network throughout the plant for cameras and upgraded Wi-Fi access
- Created documentation for the new Admin plantwide network showing VPN's and port availability for I&C tech use
- Adding PLC watchdog tags to Win 911 and SCADA for Operator notifications
- Working with Gray Matter Systems on upgrading SCADA and Historian along with adding Proficy WebSpace for secure remote access
- Digester #3 startup
- Developed new controls for the Pneumatic Sludge pump #5 at the 210 building since the control boards are now obsolete
- Supervising the I&C shop
 - Finished rewiring the 210 basement heaters
 - Bringing digester #3 back online
 - Chlorine analyzers
 - Installing new control panels for the East Barge at Wyckles
 - Installing new VFD's and reversing starters at Lost Bridge Pump Station

Mechanical Maintenance Monthly Activity

The Sewer Cleaning Crew along with Outside Maintenance Staff have been working with Engineering and Tele-Scan to locate manholes for pre-televising. There are two manholes that had been covered by fill (deeper than the easement allowed for) over the years. This made them very difficult to locate. Staff excavated to get to the manholes and installed risers to get them to the proper levels.

The mechanical maintenance group has completed or is working on the following:

- Preventive Maintenance Work Orders
- Helping w/ mowing and groundskeeping projects
- Recommissioning Digester #3 Heat Exchanger
- Cleaning 259 Building Ventilation Screens and installing new ventilation fan motors.
- Finished cleaning up the lay down area.

M.I.S. Department Monthly Update

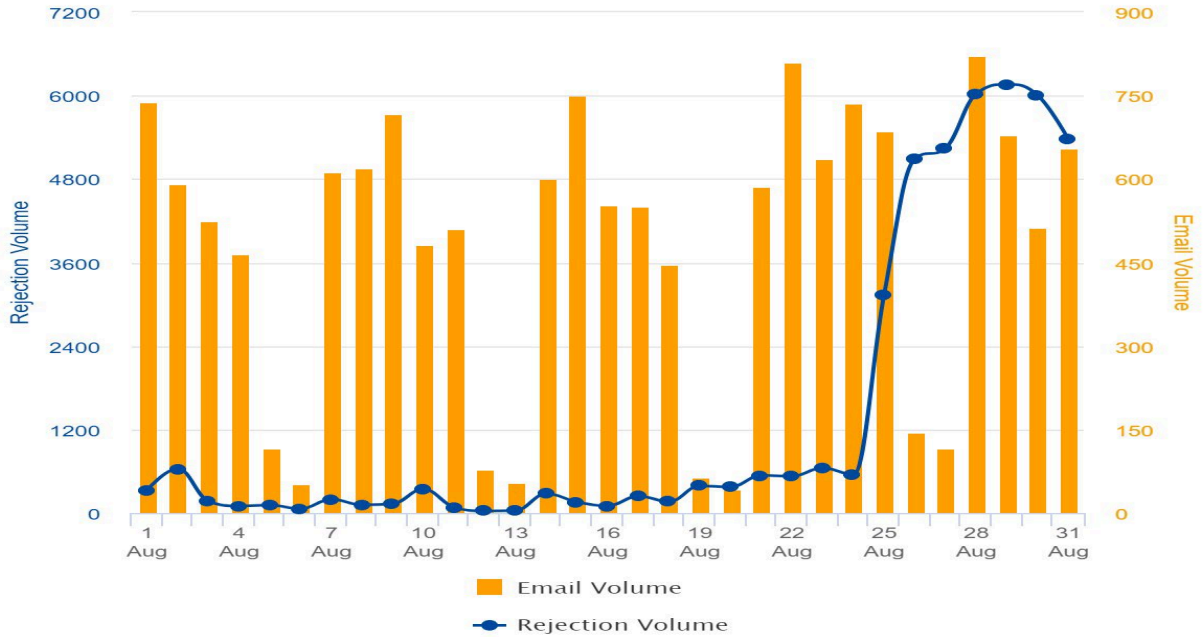
- Network Administration, Helpdesk, Troubleshooting and Repair
 - Ongoing network administration.
 - Tablet Tech Support and Setup for Beehive CMMS
 - Working on network security protocol rollout
 - Informed staff of new email phishing threat

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Email Security

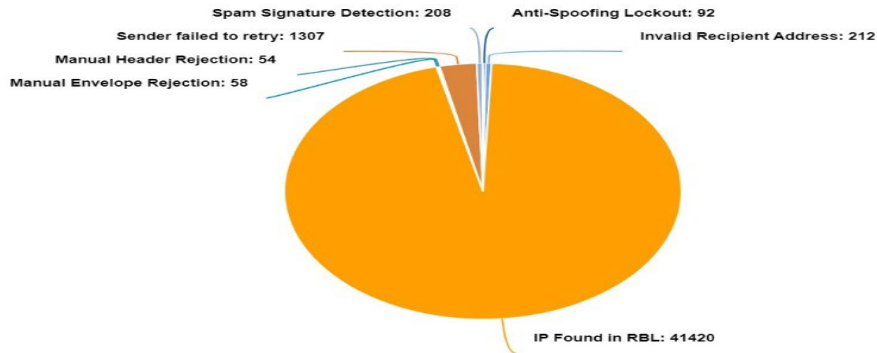
Email Volume Vs Rejected Mail

From 1 Aug 2023 To 31 Aug 2023
Total Email Count : 14958 Total Rejection Count : 43358



Rejection Overview

From 1 Aug 2023 To 31 Aug 2023
Total Rejection Count: 43358



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Email Statistics Report

From Sep - 2022 To Aug - 2023

Month-Year	Total Inbound email	Rejections (includes viruses & spam)	Legit Inbound Email	% Rejections	Total Outbound email	Total Internal email
Sep - 2022	4,807	1,685	3,122	35.05 %	1,060	4,100
Oct - 2022	7,063	1,861	5,202	26.35 %	1,897	6,191
Nov - 2022	7,451	2,809	4,642	37.70 %	1,301	7,029
Dec - 2022	7,208	2,970	4,238	41.20 %	1,242	6,017
Jan - 2023	7,158	2,490	4,668	34.79 %	1,142	6,666
Feb - 2023	7,413	2,960	4,453	39.93 %	1,132	6,509
Mar - 2023	9,775	4,234	5,541	43.31 %	1,465	9,092
Apr - 2023	7,803	3,116	4,687	39.93 %	1,181	6,268
May - 2023	55,625	50,888	4,737	91.48 %	1,269	6,932
June - 2023	47,612	42,780	4,832	89.85 %	1,149	7,685
July - 2023	11,445	6,632	4,813	57.95 %	1,203	6,541
Aug - 2023	48,703	43,358	5,345	89.03 %	1,430	8,183
Total	222,063	165,783	56,280		15,471	81,213
Mean	18,505.25	13,815.25	4,690.00	52.21 %	1,289.25	6,767.75

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)