

PUBLIC UTILITIES COMMISSION
WALLINGFORD ELECTRIC DIVISION
100 JOHN STREET
WALLINGFORD, CT 06492

The Public Utilities Commission meeting of April 21, 2020 will take place **REMOTELY** only. It shall commence at 6:30 p.m. At least 24 hours ahead of the meeting, a notice will be posted on the Town's website providing specific instructions on how to access and participate in the meeting. Materials for this meeting will also be posted on the Town's website for viewing prior to the meeting.

TUESDAY, APRIL 21, 2020

6:30 P.M.

AGENDA

1. Pledge of Allegiance
2. **ANNUAL REORGANIZATION OF THE PUBLIC UTILITIES COMMISSION**
3. **Consent Agenda**
 - a. Consider and Approve Meeting Minutes of March 17, 2020.
 - b. Consider and Approve Electric Division Budget Transfer – A/C 932.
 - c. Consider and Approve Water Division Budget Transfer – Misc. General Expenses.
 - d. Consider and Approve Sewer Division Budget Transfer – Maint. of Treatment Equipment.
4. Items Removed from Consent Agenda,
5. Discussion and Action: Approval of the Director's Report for the Month of March, 2020.

WATER/SEWER

6. Discussion; Update on Sewer Treatment Plant Upgrades Construction.

Individuals in need of auxiliary aids for effective communication in programs and services of the Town of Wallingford are invited to make their needs and preferences known to the ADA Compliance Coordinator at 203-294-2070 five days prior to meeting date.

RECEIVED FOR RECORD

AT

4-16-2020
1:55

AND RECEIVED BY

Patricia Thompson

TOWN CLERK

1 **DRAFT**

2 PUBLIC UTILITIES COMMISSION

3 WALLINGFORD ELECTRIC DIVISION

4 100 JOHN STREET

5 WALLINGFORD, CT

6 Tuesday, March 17, 2020

7 6:30 P.M.

TOWN OF
WALLINGFORD

MAR 23 2020

DEPARTMENT OF
PUBLIC UTILITIES

8 **MINUTES**

9 **PRESENT:** Chairman Robert Beaumont; Commissioners Patrick Birney and Joel Rinebold;
10 Director Richard Hendershot; Electric Division General Manager Tony Buccheri, Office Manager
11 Tom Sullivan; Water and Sewer Divisions General Manager Neil Amwake; Office Manager
12 William Phelan; Comptroller for the Town James Bowes; Recording Secretary Bernadette Sorbo

13 Members of the public – none

14 Mr. Beaumont called the Meeting to order at 6:30 P.M., and the pledge of Allegiance was
15 recited.

16 **1. Pledge of Allegiance**

17
18 **2. Consent Agenda**

19 a. Consider and approve Minutes of March 3, 2020

20 **Motion to approve the Consent Agenda:**

21 **Made by: Mr. Birney**

22 **Seconded by: Mr. Rinebold**

23 **Votes: 3 ayes**

24
25 **3. Items Removed from Consent Agenda – None**

26
27 **4. Discussion and Action: Approval of Director's Report for the Month of**
28 **February 2020**

29
30 Mr. Hendershot referenced the February 2020 Directors Report and asked if there were any
31 questions.

32
33 Mr. Beaumont stated that the life of solar is typically good for 12-14% of the time. He is
34 concerned with getting energy. He stated that he knows it is controllable switching.

35
36 Mr. Buccheri stated that the way this was designed the energy will never leave the system. It is
37 absorbed by the system. It will never back feed through the transformers into the transmission.
38 It will all be handled through settlement metering. When there was a 10 MW connection there
39 was a risk of back feed. The solution would be to monitor the system and determine when it

will be needed to do temporary switching. With the reduction from 10 MW to 4.999 MW there should be no issue but it will continue to be monitored.

Mr. Beaumont commented on the street light replacements being one of the most productive months since October.

Mr. Beaumont commented on the responses to the Water Division RFQ. He believes that this may be a good outcome. Mr. Amwake stated that there is a lot to read and that there is now a page limit. Even with the page limit people are still maximizing.

Mr. Beaumont commented on the Water Division Metrics. He stated that the water production for January totaled 80.2 – million gallons, which was a decrease of 17.5% from February 2019.

Motion to approve the Director's Report

Made by: Mr. Birney

Seconded by: Mr. Rinebold

Votes: 3 ayes

5. Discussion and Action: Electric Division - Approval of the Electrical Division Budget – 2020 -2021

Mr. Sullivan commented that there will be a revision incorporated into the Mayor's proposal. It will be a change to the interest rates. Mr. Bowes commented that there is a reduction to the interest rate.

Motion to approve the Electric Division Budget 2020-2021

Made by: Mr. Birney

Seconded by: Mr. Rinebold

Votes: 3 ayes

6. Discussion: Update on John Street Renovations

Mr. Buccheri presented a PowerPoint on the proposed renovations for the Wallingford Electric Division. The presentation is attached for review.

The Agenda included:

- Reviewing changes from the existing layout
- Discuss the needs
- Discuss stages of construction
- Discuss budgetary estimated and next steps

Mr. Rinebold questioned if the copy room is for customer copies or for the whole building. Mr. Buccheri responded that the copy room in the customer service area will be for the customers.

Mr. Birney questioned on the plans for construction. Mr. Buccheri responded that this will happen in phases. The phases will be as follows:

- Preparing the garage bay area for office space
- Move business office (accountant and account clerks) to new garage bay office area

- Build the new customer service area and move the old customer service area over to new location
- Turn old customer service area into the conference room (Pending approval from Mr. Amwake, PUC meetings to be held next door until this is completed)

Mr. Birney questioned on the timeline. Mr. Buccheri estimated about four to five years. It is something that will need to be done in phases as this is not something that will happen overnight.

Mr. Hendershot asked will this come from the 391 account? Mr. Sullivan responded the 390 account.

Mr. Rinebold requested for more information on the pricing of \$1.9M to 2.9M and why is it needed as these will be questions asked. He stated that he has these characterized as security, customer privacy and utilization of unused space.

Mr. Rinebold questioned on how long the layout has been this way. Mr. Hendershot commented that the layout has been this way since 2000. Mr. Rinebold commented that the existing term of this building lasted twenty years before it has been rendered obsolete due to security requirements.

Mr. Rinebold questioned how much is needed as to how much is wanted. Mr. Buccheri commented that all of the phases listed above are all needed. He had not put anything into the phase that was not needed.

Public Question and Answer Period

No members of the public present. Public question and answer period closed.

7. Discussion and Action: Water Division – Updates and Revisions for Proposed Water and Sewer Rate Charges for FY 21 24

Mr. Awake reviewed the memo dated March 11, 2020. He advised that the updates to the rates are very minor. The revisions are as follows:

- Updated water meter installation fees based on a review and refinement of materials and appurtenances that are required, or not needed, for installation of a water meter based on each specific meter size.
- Clarification of miscellaneous charges text, including the addition of the following text, "...as a result of customer action or negligence..." as requested by the Public Utilities Commission at the March 3, 2020 rate workshop.
- Refinement of the sewer usage rate for FY 23-24 due to interest accrued for the advancement of Clean Water Fund loan monies.

Mr. Rinebold questioned if this is what will be used to move forward with at the Public Hearing. Mr. Amwake responded that is correct.

136 **Motion to Advance or Propose Water and Sewer Rates to the Public Hearing**

137 **Made by: Mr. Birney**

138 **Seconded by: Mr. Rinebold**

139 **Votes: 3 ayes**

140
141 **8. Discussion and Action: Water Division – Set Date and Time for Public**
142 **Hearing on Proposed Revisions to Water and Sewer Charges**

143
144 **Motion to approve the Public Hearing for Proposed Revisions to Water and Sewer**
145 **Charges on April 14, 2020 at 6:30 P.M. at the Library Community Room**

146 **Made by: Mr. Birney**

147 **Seconded by: Rinebold**

148 **Votes: 3 ayes**

149
150 **9. Discussion: WPCF Upgrades Project**

151
152 Mr. Amwake reviewed the logistics. The third party review of shop drawings associated with
153 specific building elements (fire alarm, fire sprinkler, etc.) for the Town Building Department and
154 Fire Marshal is going slower than anticipated though we continue to reach out to the reviewer.

155
156 Mr. Amwake reviewed the building and facility construction. He stated that the west wall of the
157 Anaerobic Basin has been poured. The three elevated walkways across the Anaerobic Basin
158 have been formed and poured as well.

159
160 All of the reinforcing steel at the Intermediate Pump Station has been placed with the concrete
161 forms installed. The lower concrete walls have been poured. Next is to pour the midlevel deck
162 and the upper concrete walls at the IPS.

163
164 The entire base slab reinforcing steel has been installed at the Tertiary Phosphorous Building
165 and approximately 75% of the concrete for the base slab has been poured. The Contractor is
166 constructing the forms for the elevated floor slab at the southern end of the Tertiary
167 Phosphorous Building.

168
169 All of the base slab reinforcing steel is installed at the UV Disinfection/Post Aeration Building
170 and the entire base slab is poured. The Contractor is currently constructing the forms for the
171 UV base slab.

172
173 Mr. Beaumont questioned on how far along the project is. Mr. Amwake responded about 17 to
174 18%.

175
176 Mr. Rinebold questioned the costs for the small change orders in regards to the UV system. Mr.
177 Amwake advised that Mr. Nickerson has not billed for those yet. There will be change orders
178 and there will be price changes.

179
180 **10. Discussion and Action: Water Division – Approval of the Water Division**
181 **Budget – 2020-2021**

182
183 Mr. Beaumont noted the decrease in dividend interest income.

Mr. Phelan advised that at the first budget presentation to the PUC the interest rate was based on the current fiscal year's interest rate. Information from the Comptroller was received with reference to the percentage to use in the next fiscal year budget. This was updated however there will be another correction to the interest dividend rate based on current financial markets.

Mr. Beaumont commented that the bulk of changes are the result of insurance and benefits. Mr. Phelan responded that this is correct.

Motion to approve the Water Division Budget 2020-2021

Made by: Mr. Birney

Seconded by: Rinebold

Votes: 3 ayes

11. Discussion and Action: Sewer Division – Approval of the Sewer Division Budget – 2020-2021

Mr. Beaumont commented that nothing unusual is noted with the exception for the out years that lists an extra 250k going into account 343 in years 21-22, 22-23, 23-24 and 24-25 vs the last time they were reviewed.

Mr. Phelan advised that there was a revision to the five-year capital to reflect what was included in the sewer rate model at this point and time.

Motion to approve the Sewer Division Budget 2020-2021

Made by: Mr. Birney

Seconded by: Rinebold

Votes: 3 ayes

12. Discussion and Action: PUC – Approval of the PUC Budget – 2020-2021

Mr. Beaumont noted that there were no revisions to this from what was previously reviewed.

Motion to approve the PUC Budget 2020-2021

Made by: Mr. Birney

Seconded by: Rinebold

Votes: 3 ayes

Correspondence

Mr. Hendershot provided the PUC with copies of the Energy Efficiency and Conservation Specialist Annual Report. This was transmitted to the Chair and Vice Chairman of the Connecticut Energy Efficiency Board on March 11, 2020.

232 **ADJOURNMENT**

234 **Motion to adjourn**

235 **Made by: Mr. Birney**

236 **Seconded by: Mr. Rinebold**

237 **Votes: 3 ayes**

238
239 The meeting was adjourned at approximately 7:43 p.m.

240 Respectfully submitted,

Respectfully submitted,

241
242
243
244 Bernadette Sorbo

245 Recording Secretary

Joel Rinebold
Secretary



Town of Wallingford, Connecticut

THOMAS SULLIVAN
BUSINESS OFFICE MANAGER

DEPARTMENT OF PUBLIC UTILITIES
ELECTRIC DIVISION
BUSINESS OFFICE
100 JOHN STREET
WALLINGFORD CT 06492
PHONE 203-294-2030
FAX 203-294-2027

Memo

To: Tony Buccheri, General Manager
Cc: Richard Hendershot, Director of Public Utilities
From: Thomas Sullivan, Business Office Manager
Date: April 15, 2020
Re: Fiscal 2019-2020 budget transfer
Account 932 – Maintenance of General Plant

Attached for your review is a request for a budget transfer in fiscal year 2019-2020 in the amount of \$31,700 to account 932, Maintenance of General Plant. The Electric Division, as a result of precautions taken during the COVID-19 pandemic, has experienced an increase in costs charged and expected to be charged to account 932 which covers the maintenance of our buildings and offices. The increase is the result of the utilization of our own labor resources as well as the use of outside contractors and materials in cleaning, sanitizing and modifying offices and workspaces. In a matter unrelated to the pandemic, the Division will also need to make some repairs to an office which suffered water damage in recent rainfalls.

Funds are available for this transfer from account 920 – Administrative and General Salaries, where a personnel vacancy will leave funds unexpended.

Please review the attached budget transfer request and forward as appropriate for action by the Public Utilities Commission and Town Council.

ITEM NO. 3b-1
PUC AGENDA 4/21/20

TOWN OF WALLINGFORD, CONNECTICUT

Honorable William W. Dickinson, Jr. Mayor
Wallingford, CT 06492

Date: April 15, 2020

1. Request for X transfer of funds
 appropriation of funds

Fiscal year 2019-2020


Funds: Electric X operating capital project
Water operating capital project
Sewer operating capital project

\$ 31,700 From: Administrative & General Salaries Acct. No. 920

\$ 31,700 To: Maintenance of General Plant Acct. No. 932

Explanation: See attached memo

Certified as to Availability of Funds:


Office Manager

Date: 4-15-20

Submitted by:


Division Head

Date: 4/15/20


Department Head

Date: 4/16/20

Approved by vote of the Public Utilities Commission subject to the approval of the Mayor and Town Council

Chairman, Public Utilities Commission

Date: _____

Certified as to Availability of Funds:

Comptroller

Date: _____

Approved – subject to the approval of the Town Council

Mayor

Date: _____

II Certification of the Financial Transaction:

The transfer or appropriation of \$ _____ as detailed and authorized above and as approved by a vote of the Town Council in session is hereby certified.


I hereby certify that this is the motion approved by the Town Council at its meeting of _____, 20____.

Town Clerk

ITEM NO. 36-2
PUC AGENDA 4/21/20

TOWN OF WALLINGFORD
WATER & SEWER DIVISIONS
DEPARTMENT OF PUBLIC UTILITIES

INTEROFFICE MEMORANDUM

TO: NEIL H. AMWAKE, P.E., GENERAL MANAGER
FROM: WILLIAM J. PHELAN, OFFICE MANAGER 
SUBJECT: REQUEST FOR BUDGET TRANSFER – ADVERTISING - WATER DIVISION

DATE: APRIL 13, 2020
CC:

Due to the number of personnel vacancies in the Water Division during FY 2019/2020, advertising expenses to fill these positions have depleted current budget appropriations. Over the past several months seven (7) positions have been advertised in various newspapers and internet trade websites (CTAWWA, NEWEA). As a result, in order to provide sufficient funds for the ads and additional expenses for the remainder of the fiscal year, a budget transfer will be required.

Therefore, a budget transfer increasing account #43100930 (Miscellaneous General Expenses) in the amount of \$7,800 and a corresponding decrease to account #43100923 (Outside Services Employed) is respectfully requested. Funds for this transfer are available due to unexpended funds associated with the Division's Water Supply Plan update.

Upon your approval please forward this request to the Public Utilities Commission for their consideration.

H:/GeneralManager/AdvertisingTransfer

ITEM NO. 3c-1
PUC AGENDA 4/21/20

TOWN OF WALLINGFORD, CONNECTICUT

Honorable William W. Dickinson, Jr., Mayor
Wallingford, CT 06492

Date: April 15, 2020

I. Request for: X Transfer of funds
 Appropriation of funds

Funds: Electric Operating Capital project
 Water X Operating Capital project
 Sewer Operating Capital project

Amount	Description	Account No.
\$7,800 To:	Miscellaneous General Expenses	43100930
\$7,800 From:	Outside Services Employed	43100923

Explanation: See enclosed correspondence.

Certified as to Availability of Funds:

William J. Pile
Division Business Manager

Date: 4/15/2020

Submitted by:

Neil M. Amato
Division General Manager

Date: April 15, 2020

Director, Department of Public Utilities

Date: _____

Approved by vote of the Public Utilities Commission, subject to the approval of the Mayor and the Town Council

Chairman, Public Utilities Commission

Date: _____

Certified as to Availability of Funds:

Comptroller, Finance Department

Date: _____

Approved – Subject to the Approval of the Town Council

Mayor

Date: _____

II. Certification of the Financial Transaction:

The transfer or appropriation of \$ _____ as detailed and authorized above and as approved by a vote of the Town Council in session is hereby certified.

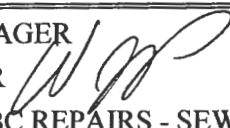
I hereby certify that this is the motion approved by the Town Council at its meeting of _____, 20____.

Town Clerk

FILE NO. 3C-2
PUC AGENDA 4/21/20

TOWN OF WALLINGFORD
WATER & SEWER DIVISIONS
DEPARTMENT OF PUBLIC UTILITIES

INTEROFFICE MEMORANDUM

TO: NEIL H. AMWAKE, P.E., GENERAL MANAGER
FROM: WILLIAM J. PHELAN, OFFICE MANAGER 
SUBJECT: REQUEST FOR BUDGET TRANSFER – RBC REPAIRS - SEWER DIVISION

DATE: APRIL 13, 2020
CC:

New England Pump and Valve has been awarded a bid to repair RBC shafts damaged by bearing failure. Specifically, the bid requires cutting and sleeving the damaged shafts at a quoted cost of \$9,110.00 each. This type of repair also requires replacement of the bearings and bearing housings at an additional cost of approximately \$6,300.00 per shaft.

During the current fiscal year the Sewer Division has budgeted for and repaired two damaged RBC shafts. However, it has been determined that two additional repairs must be made. Unfortunately, the full cost of these additional repairs will deplete the approved appropriation. As a result, a budget transfer will be required to complete the repairs and provide the necessary funding required for the remainder of the fiscal year.

Therefore, a budget transfer increasing account #46100652 (Maintenance of Treatment Equipment) in the amount of \$21,750 along with a corresponding decrease to account #46100641 (Chemicals) is respectfully requested. Funds for this transfer are available due to lower than budgeted expenditures for Aluminum Sulfate during the current fiscal year.

Upon your approval please forward this request to the Public Utilities Commission for their consideration.

TOWN OF WALLINGFORD, CONNECTICUT

Honorable William W. Dickinson, Jr., Mayor
Wallingford, CT 06492

Date: April 15, 2020

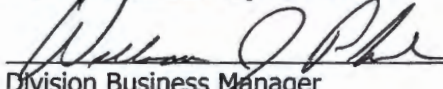
I. Request for: X Transfer of funds
 Appropriation of funds

Funds: Electric Operating Capital project
 Water Operating Capital project
 Sewer X Operating Capital project

Amount	Description	Account No.
\$21,750 To:	Maintenance of Treatment Equipment	46100652
\$21,750 From:	Chemicals	46100641

Explanation: See enclosed correspondence.

Certified as to Availability of Funds:


Division Business Manager

Date: 4/15/2020

Submitted by:


Division General Manager

Date: April 15, 2020

Director, Department of Public Utilities

Date: _____

Approved by vote of the Public Utilities Commission, subject to the approval of the Mayor and the Town Council

Chairman, Public Utilities Commission

Date: _____

Certified as to Availability of Funds:

Comptroller, Finance Department

Date: _____

Approved – Subject to the Approval of the Town Council

Mayor

Date: _____

II. Certification of the Financial Transaction:

The transfer or appropriation of \$ _____ as detailed and authorized above and as approved by a vote of the Town Council in session is hereby certified.

I hereby certify that this is the motion approved by the Town Council at its meeting of _____, 20____.

Town Clerk

ITEM NO. 3d-2
PUC AGENDA 4/21/20



Town of Wallingford, Connecticut

DIRECTOR'S REPORT March 2020

RICHARD HENDERSHOT
DIRECTOR

DEPARTMENT OF PUBLIC UTILITIES
100 JOHN STREET
WALLINGFORD, CONNECTICUT 06492

TELEPHONE 203-284-4016
FAX 203-294-2267

DIRECTOR'S OFFICE/DEPARTMENT-WIDE

While I'm sure that all of the divisions worked on things other than our reaction to Covid-19, I really can't recall what they might be. Responding to this unprecedented pandemic occupied much of our collective energies and efforts during the month. I am very impressed with the innovative and creative efforts of both General Managers in this regard, often in the face of significant obstacles. Some very interesting lessons have been learned, which may affect future plans and operations.

During the first half of March, we also spent considerable time and effort completing the budgets for fiscal 2021. All have been finalized, approved by the PUC, and submitted to the Mayor and Comptroller.

ELECTRIC DIVISION

Office Building Review

The Architect has updated the plan-view drawings per staff's comments. The next step is for the WED to work with the Architect to determine if the first piece of work in this effort should be a new roof for the entire WED building, vs. converting the empty garage bays into office space.

Wallingford Renewable Energy ("WRE") Solar-PV Interconnection

WRE continues to hold its expected "go live" date of December 2020, with an overall scope for the PV-array of 15-MWs. The WED continues to refine its Facility Plan, especially as it pertains to system protection issues. This has resulted in WRE needing to install fiber optic lines on certain WED distribution poles for use by the WED, to adequately address the WED's distribution system protection requirements.

Service work during March included nine (9) new services, seven (7) service changes, and one (1) retired service.

Street light work included 122 LED street light conversions and eight (8) street light repairs. To date, 2,401 LED streetlights have been installed, with 2,234 HPS streetlights remaining to be replaced.

During March, 25 poles were replaced, along with eight (8) aged overhead transformers. In fiscal 2020, the Division has replaced 103 poles to date.

As of the end of the month, 76 A-base meter installations have been updated, three (3) have been removed, three (3) others have been removed but not yet upgraded, and 217 remain to be addressed.

Personnel

The second new Meter Technician Apprentice started work on March 2.

The preferred candidate for Distribution Engineer began work on March 23.

First Class Lineman Fred Andrulat was awarded the vacant Chief Lineman position. An Employment Authorization form to address the Lineman vacancy created by Fred's promotion was submitted February 10. The position has been advertised, and the Division now awaits a candidates list from HR.

The Division awaits, from HR, a list of candidates for the vacant System Operator position. This posting closed February 18.

HR received over 100 applications for the vacant Meter Reader position, and is now working to schedule the merit exam, an effort complicated by the Covid-19 pandemic.

The revised Job Description for the Accountant was reviewed with the Mayor, and HR has discussed it with the Union. HR now needs to take it to Town Council.

Electric System Metrics

System input for March totaled 46,418-MWh, which was 0.6% less than March 2019. Maximum system demand for the month was 79.87-MW, a decrease of 8.9% from last year.

Average System Availability Index ("ASAI") for February was computed at 99.991%. Monthly values for the other tracked indices for the month are as follows:

SAIDI (System Average Interruption Duration Index):	3.906 minutes
SAIFI (System Average Interruption Frequency Index):	0.0608
CAIDI (Customer Average Interruption Duration Index):	64.3 minutes

February Wholesale Power Supply

95% of the WED's total energy was hedged. The forecasted hedging level for February was 92.1%.

WED's all-in purchased power costs per MWh:

- February actual = \$87.49
- 2018/2019 FY budget forecast (1/15/18) for February = \$107.80
- Prevailing six-month average PCA forecast (7/1/19-12/31/19) = \$90.84

WED's generation cost per MWh:

- Average cost for hedged volume = \$40.31
- Average cost for total volume = \$39.28

The WED purchased 2,378 MWhs of "short" energy at an average price of \$26.17, and it realized a \$16,642 net benefit due to locational spread. The result was the total cost of energy was \$1.03 (2.6%) less than the cost of hedged energy.

WATER DIVISION

Water Division experienced no (0) water main breaks and one (1) service leak during February.

Stand-by Generators for Well 1, and Wells 2/3.

The generator for Well No. 1 has been delivered to the site. Next step will be to finalize arrangements for the new electric service, which includes replacement of an obsolete A-base meter.

The Bid to replace the underground oil storage tank at the Pistapaug Water Treatment Plant with an above-ground tank has been awarded. A preconstruction meeting was held on April 14, and work is expected to begin the first week of May.

Eight (8) responses were received to the RFQ for the engineering study to determine if maximum water level at the Ulbrich Reservoir can be raised, and staff continues to review the proposals, including checking references. Once staff concludes its analysis of the submissions, the Division will be back to the PUC and the Town Council for approval of the QBS.

Water Division Crews began to prepare for upcoming water main replacement Contract 36R, by locating, repairing and adjusting valve boxes along Pond Hill Road, Wallace Street, Bonnie Court and Ward Street.

By mid-March, inspection of all 160 of the Division's stream and bridge crossings had been completed.

Personnel

As noted last month, the preferred candidate for the vacant Electrical Technician (Water Treatment Plant) position began work on March 16.

The posting for the vacant Operator I position (there is one (1) posted vacancy) will close on April 6. An Employment Authorization for the vacant Operator II position was submitted on March 4, and was advertised April 9.

The Division submitted an Employment Authorization to fill the vacant Junior Engineer position on December 17. This vacancy was posted and advertised on February 7 and closed March 10. The Division continues to await a candidates list from HR.

The Division submitted an Employment Authorization for a pending Chief Maintainer vacancy; the Mayor approved this form on February 4. HR has advertised this opening with a closing date of March 3. The Division awaits a candidates list from HR.

An Employment Authorization Form was submitted to HR on January 3 for filling the vacant Water Treatment and Pumping Supervisor position. The position was advertised beginning February 21 and closed March 10. The Division awaits a candidates list from HR.

Water Division Metrics

Water production for March totaled 90.4-million gallons, a decrease of 11.9% from March 2019.

Reservoir storage at month's end was at 90.8% of total effective impoundment. The historical average for March is 91.3%.

Precipitation for the month totaled 4.0 inches, which is 0.4 inches below the historical average for March.

SEWER DIVISION

Sewer Division staff responded to and resolved a total of 12 WWTP alarms, collection system trouble calls and vehicle issues during February.

WWTP Phosphorus Treatment Project

Staff will next provide a written update of the status of this effort at the telephonic PUC meeting on April 21.

During February, the collection system staff televised 9,402 linear feet of sewer main, and flushed 1,550 feet of sewers during the month. Staff also cleared and/or maintained 16,135 feet of easements and right-of-way during March.

Personnel

On February 4 the Mayor approved the Employment Authorization for the vacant Sewer Superintendent. HR may now proceed with advertising / posting for this position.

Wastewater Division Metrics


At the Wastewater Treatment Plant, the average daily flow during March was 6.12-MGD, which is 0.4-MGD less than the average daily flow of March 2019. The 12-month rolling average daily flow is 5.49-MGD, which is below the 90% permit threshold of 7.2-MGD.

Nitrogen discharge for the month averaged 497 pounds per day. This amount is below the March 2019 discharge rate of 602 pounds per day, but is over the permit level of 269 pounds per day.

Private Side I/I Mitigation Program

During February, Division staff conducted 31 inspections, which identified four (4) properties with one or more connections. Two (2) issues were corrected. Since inception, the I/I program has conducted 1,783 inspections, identified 213 locations with connections, and corrected 142 issues.

Respectfully submitted,



Richard Hendershot
Director – Public Utilities

RAH/kaw
RAHCorrespondence/director's report/Directors



Town of Wallingford, Connecticut

TONY BUCCHERI
GENERAL MANAGER

DEPARTMENT OF PUBLIC UTILITIES
100 JOHN STREET
WALLINGFORD, CONNECTICUT 06492

TELEPHONE 203-294-2265
FAX 203-294-2267

MEMORANDUM

To: Richard Hendershot, Director of Public Utilities
Public Utilities Commission

From: Tony Buccheri, General Manager-Electric Division

Date: April 15, 2020

Re: **Monthly Report – March 2020**

Below is a summary of reports and statistics from Electric Division Management staff for the month of March.

PROJECT UPDATES

Architectural Services RFP

- Next step will be to work with architect to determine if phase one should be the roof replacement.

Expansion of 51 John Street into 228 East Street

- 20/21 Budget will include dollars to clean up the property and install the fence and shrubs that were approved by Planning & Zoning.

WED Primary Underground Facilities

- Ashlar Village – Ashlar Village has obtained surveying and legal services to document the required easement for WED facilities.
 - Surveying work was done in February 2019.
 - Surveying results have been submitted to WED engineering for review.
- Capital carry forward funds are available to support construction in the upcoming fiscal year.
- Chief Engineer will transition the work to his engineering group to move forward with finalizing the easement and engineering.

Wallingford Renewable Energy

- WED is working on finalizing the Facility Study. After an internal review of the protection settings, Engineering is going to work with PLM to revise the settings to better protect our customers and workforce in the event the WRE's protection schemes fail to operate properly. The design drawings and a material list has been issued.
- WED still needs to review the fiber optic scope of work necessary for WED protection and control schemes. When the WRE's EPC contractor brings a fiber contractor on board, a walk down will be scheduled for this review.

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CT DOT

- WED received the upcoming paving schedule from CDOT and is currently determining if any facilities will be impacted.

Town Roads

- None at this time.

Personnel

- Jim Hutt presented the Accountant I job description changes to the management union. The final step will be to obtain Town Council approval.
- The second Apprentice Meterman started work on March 2, 2020
- The Distribution Engineer started on March 23, 2020.
- The First Class Lineman position was posted and has since closed. Waiting for HR.
- The System Operator position posting closed on February 18, 2020. HR is still reviewing the list for qualified candidates.
- The Meter Reader position was posted on January 23, 2020. There were in excess of 100 applicants. HR scheduled the examinations, but has since cancelled due to COVID-19.

Statistics/Metrics

- Total system energy input was 46.418 MwHr. This is a 0.6% decrease when compared to March 2019.
- System peak was recorded at 1400 hours on March 23, at 79.866 MW (a decrease of 8.9% compared to March 2019).

- Service Reliability Indices

ASAI	Average System Availability Index	0.99991
SAIDI	System Average Interruption Duration Index	3.9055 Minutes
SAIFI	System Average Interruption Frequency Index	0.0608
CAIDI	Customer Average Interruption Duration Index	64.3 Minutes

- Total incidents for March were 16 affecting 1541 customers for a total customer hours out of 1650.65 - hours.
- A-Base Meters: As of March 31, 2020 76 services have been upgraded, 3 services have been removed, 3 meters removed but not yet upgraded, and 217 remain.
- March Services: 21 applications, 9 new installations, 7 service changes, 0 temporary services, and 1 retired.
- March Street Lights: 121 LED conversions, 8 repairs. To date 2400 LED's have been installed and 2235 HPS's remain.
- There were 25 pole replacements and 2 new poles installed in March.
- There were 8 pole top transformers replaced and 5 new transformer installations in March.

Energy Conservation

Residential

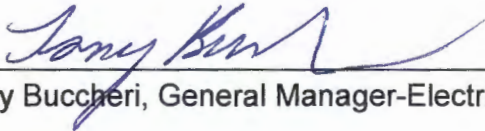
- There were 2 heat pump water heater rebates paid in March in the amount of \$1000.
- There were 19 HES visits to residences in March resulting in customers receiving \$21,217.33 worth of energy efficiency products and services.

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- There were 0 attic insulation rebates paid in March.
- There were 2 higher efficiency HVAC projects completed in March resulting in customers receiving \$800 in rebates.

Commercial & Industrial

- There were 7 lighting retrofit project completed in March resulting in customers receiving \$101,197 in incentive payments.
- There were no higher efficiency HVAC projects completed in March.

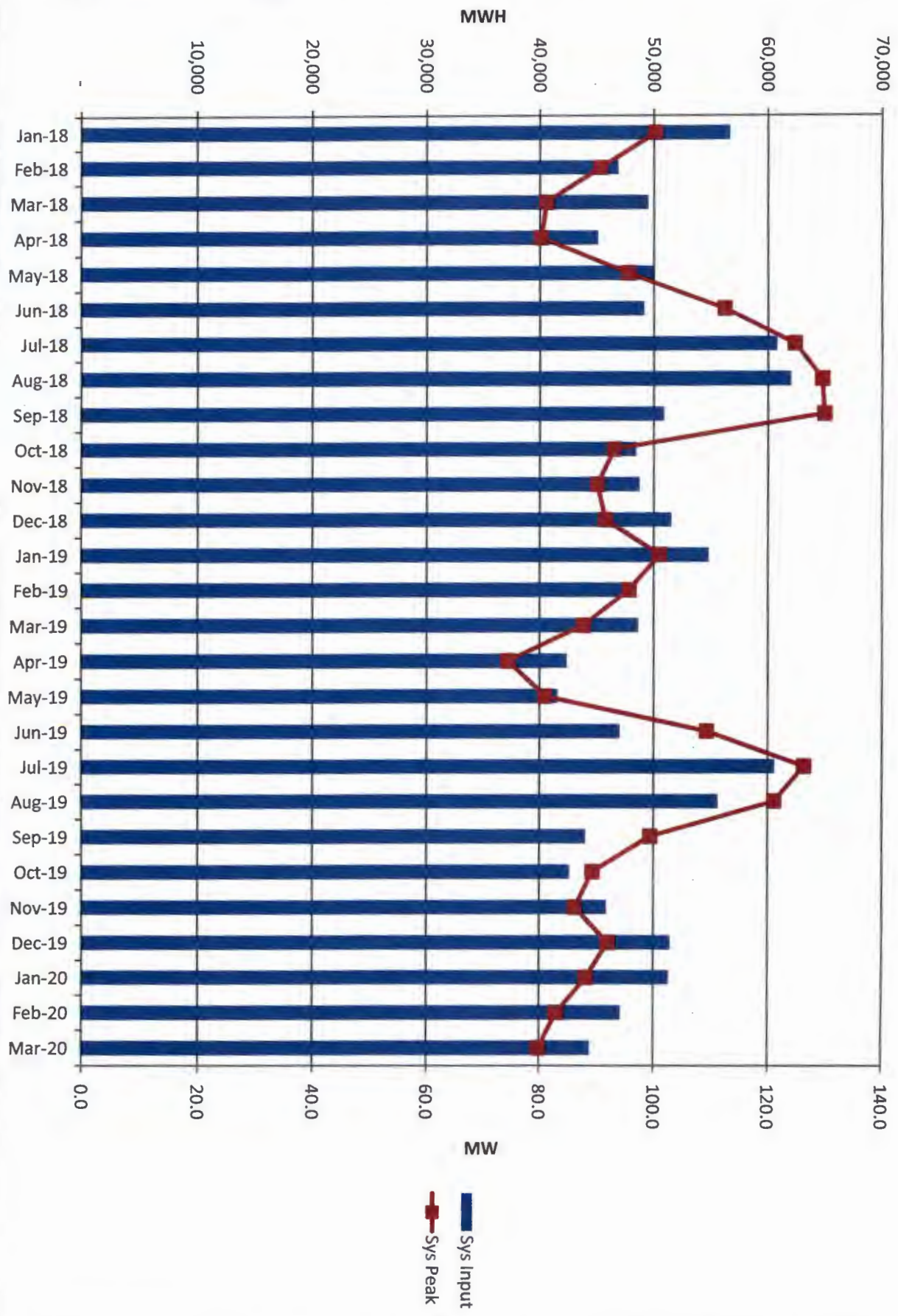


Tony Buccheri, General Manager-Electric

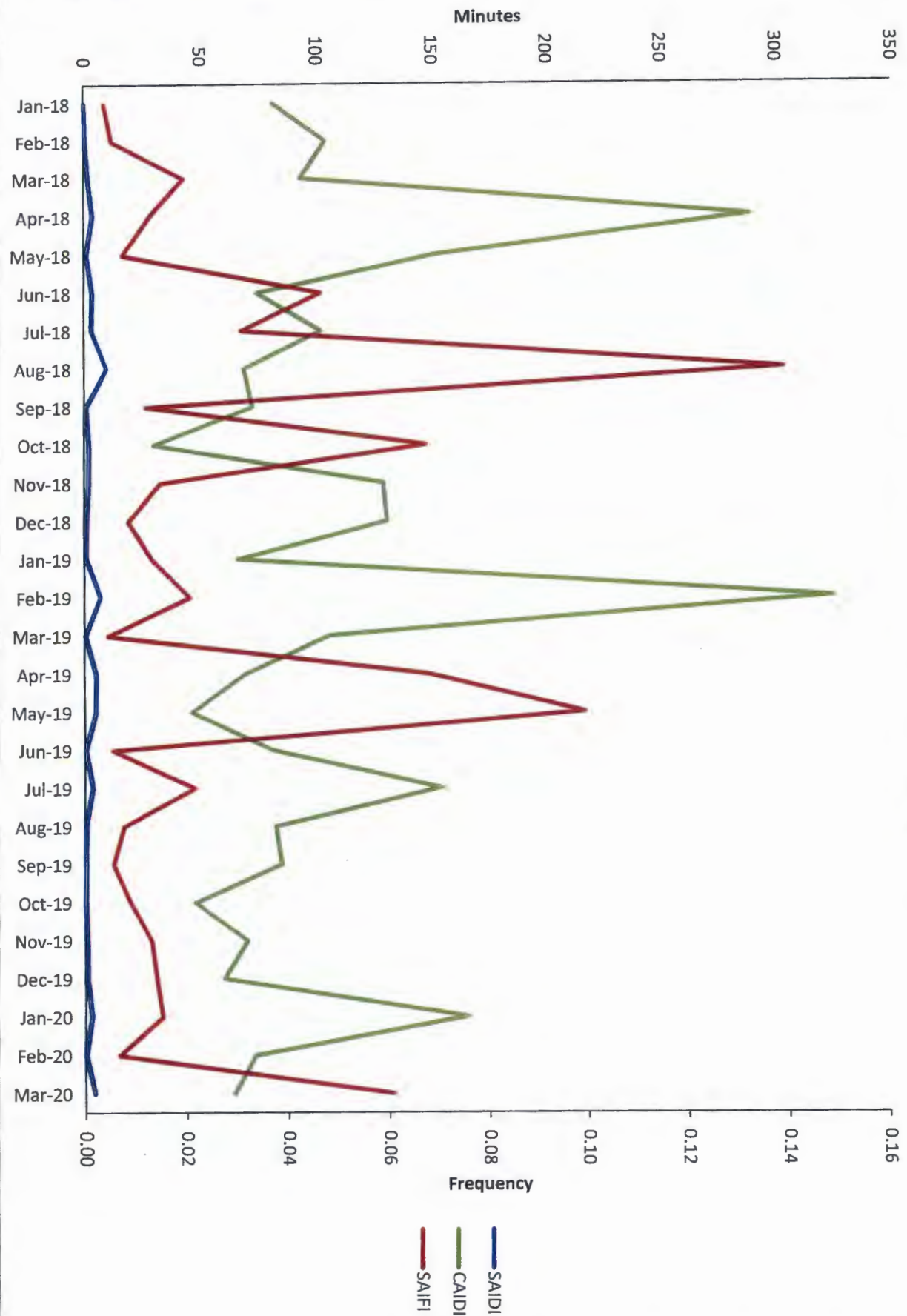
TB/mhl

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Sys Input & Sys Peak



WED Reliability Data (excluding storms)



ITEM NO. 5-9
PUC AGENDA 4/21/20

WALLINGFORD ELECTRIC DIVISION

FEBRUARY

PRESENTED ON APRIL 3, 2020

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HEDGING RESULTS DISCUSSION

This memorandum summarizes the actual results for February from a portfolio hedging perspective. The analysis and statistics provided exclude the market price load for NuCor. While there is some market discussion involved to frame the spot market purchasing results, this is not intended to be a full settlements discussion, but rather to pick up on key aspects of the hedging policy including:

1. Hedge coverage levels
2. Market risk tolerance to and impact of spot market purchases
3. Locational price impacts to WED – congestion or LMP spreads
4. Treatment of unit contingent resources

In sum, the positions and approach for the month were in accordance with WED's Hedging Policy. The impact of the costs of the open position will inform hedging decisions going forward.

WED Power Cost Actual vs Budget Feb-20			
a	Forecast Load MWH on 1/15/19		48,163
b	Actual Load MWH		44,654
c	Load Forecast Accuracy %		-7.3%
d	Total Energy Cost Ave \$/MWH	\$	39.28
e	1/15/19 Projected Total Energy Cost Cost Ave \$/MWH	\$	57.31
<u>Metric 1</u>			
	DA Net Forecast Deviation % (Absolute Value)		2.24%
1.a	MWH Purchased in Real Time (DA forecast < Actual Load)		276
1.b	DA Net Forecast Deviation (of Total Load)		0.6%
1.c	MWH Sold in Real Time (DA Forecast > Actual Load)		(718)
1.d	DA Net Forecast Deviation (of Total Load)		-1.6%
<u>Metric 2</u>			
2.a	% Hedged (Total Resources/Load)		95.0%
2.b	% Hedged Forecasted (Forecasted Resources/Forecasted Load) on 1/15/20		92.1%
2.c	Average Energy Cost of Hedged Load (includes NYPA Capacity & Transmission)	\$	40.31
<u>Metric 3</u>			
3.a	Cost of Hourly Short Position (\$/MWH)	\$	26.17
3.b	MWH		2,378
3.c	Cost (Short MW * DA LMP @ HUB)	\$	62,233.59
<u>Metric 4</u>			
4.a	Basis \$/MWH for Resources purchased at HUB/Roseton node	\$	(0.50)
4.b	Total Energy Purchased MWH		33,327.45
4.c	Locational Spread Penalty (+) /Benefit (-)	\$	(16,641.67)
<u>Metric 5:</u>			
5.a	Value of Hourly Long Position (\$/MWh)	\$	(23.22)
5.b	MWH		(167)
5.c	Cost (-)/Benefit (+) (Long MW *(Ave Purchase \$ - DA LMP @ HUB))	\$	(3,875.27)

Table 1 Wallingford's Monthly Power Cost Actual vs Budget and Demand bidding results

* All information provided excludes the MWH consumption and the pass-through costs for the market NuCor special market contracts.

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Actual versus Projected Total Energy Cost

Actual load came in 7.3% less than the monthly projection from January 15, 2019. Actual average of the total energy cost per MWH was 31.47% less than projected total Energy cost from the January 15, 2019 budget.

Overall Load Coverage

WED's Hedging Policy calls for between 80 and 100% of its energy requirements to be hedged for the current quarter, and there is a threshold limiting WED from being long energy on a must-take basis by more than 5% of its monthly native load requirements. Beyond that point, ENE is required to provide a report to WED describing the situation and the net impacts to WED.

WED's resources consist of NYPA, blocks and the load following purchases with PSEG, Exelon, NextEra, and Shell. Whereas both PSEG and Shell have bilaterals settling at the CT zone.

The hedged position for the month was 95.0% (does not include Pierce), and daily load coverage ranged between 88.36% and 100.21%. The forecasted hedged position from January 15, 2020 monthly projection was 92.1%.

The energy load following purchases WED made in its own name provides specific percentages of WED's hourly load requirements less the market price load. WED has also made some block bilateral purchases. Thus, on colder days as WED's load increased the load follow purchase volumes increased while the fixed block energy purchases remained constant volume, leading to lower hedged percentages on those days. The opposite will occur on milder temperature, lower load days.

WED's load forecast model, which is utilized for demand bidding, performed within an average absolute value percent of a 2.24% error rate for the month. This resulted in 441.92 MWH of WED's load being sold in the real-time market.

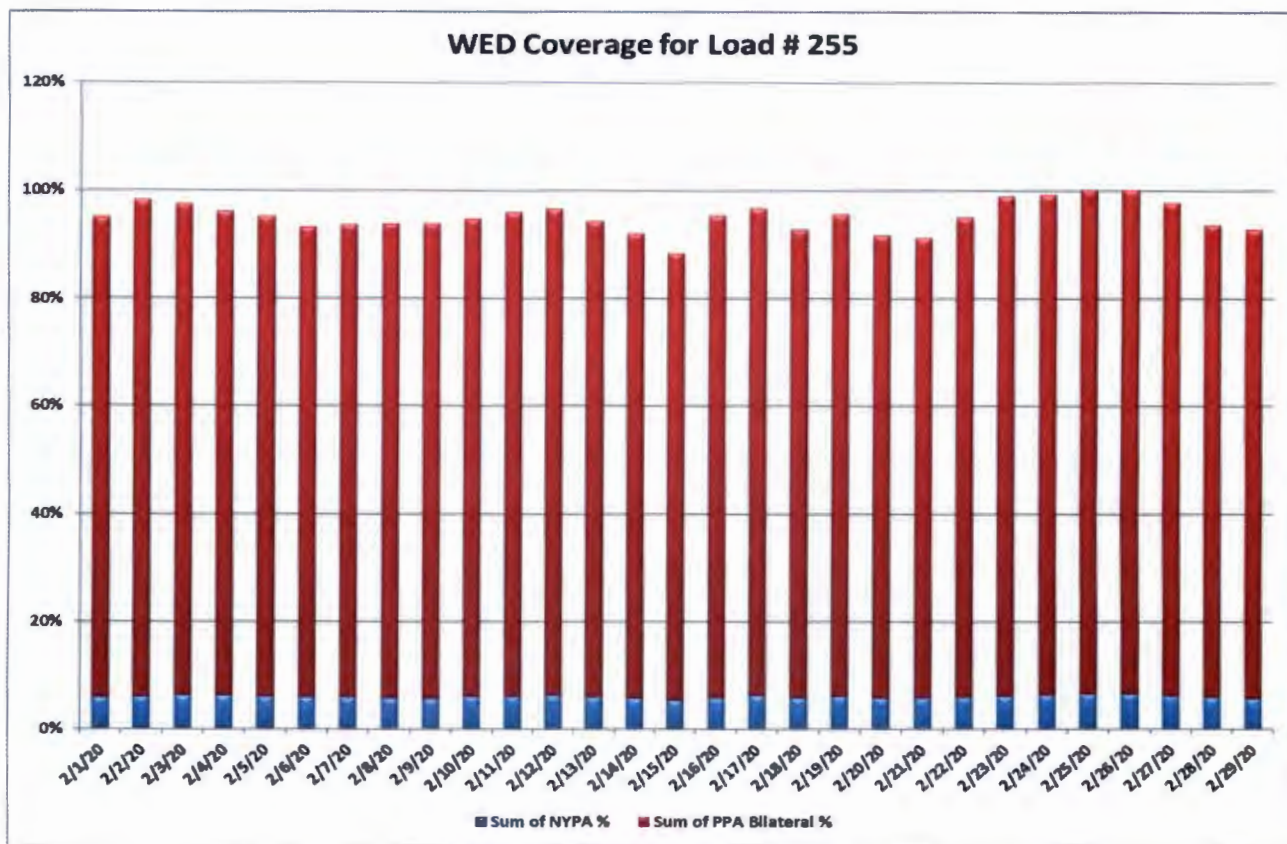


Figure 1 WED daily hedged percentages

Figure 1 illustrates WED's daily coverage throughout the month. colder weather days will show lower coverage amounts since some of the bilateral purchases are for a fixed volume. This illustrates the balancing required when a portfolio utilizes both block and load following purchases.

Spot Market Prices

As Figure 2 illustrates, Spot market natural gas (AGT) prices averaged between \$1.84 and \$3.76/MMBTU. The Day-Ahead On-peak Hub LMP for the month averaged \$25.05/MWH, and Day-Ahead Off-peak Hub LMP averaged \$21.36/MWH. MA Hub Max for the month was \$43.63/MWH.

* All information provided excludes the MWH consumption and the pass-through costs for the market NuCor special market contracts.

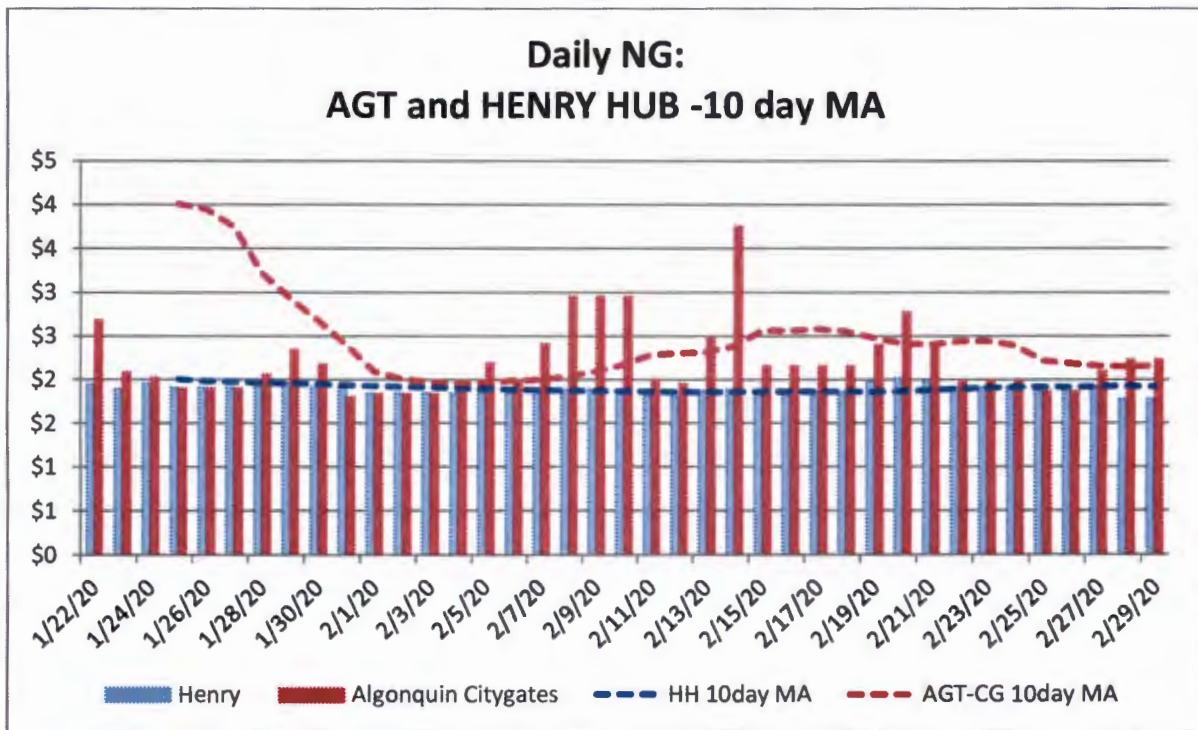


Figure 2 Daily and 10 day moving average Henry Hub and Algonquin Gas City Gate Prices

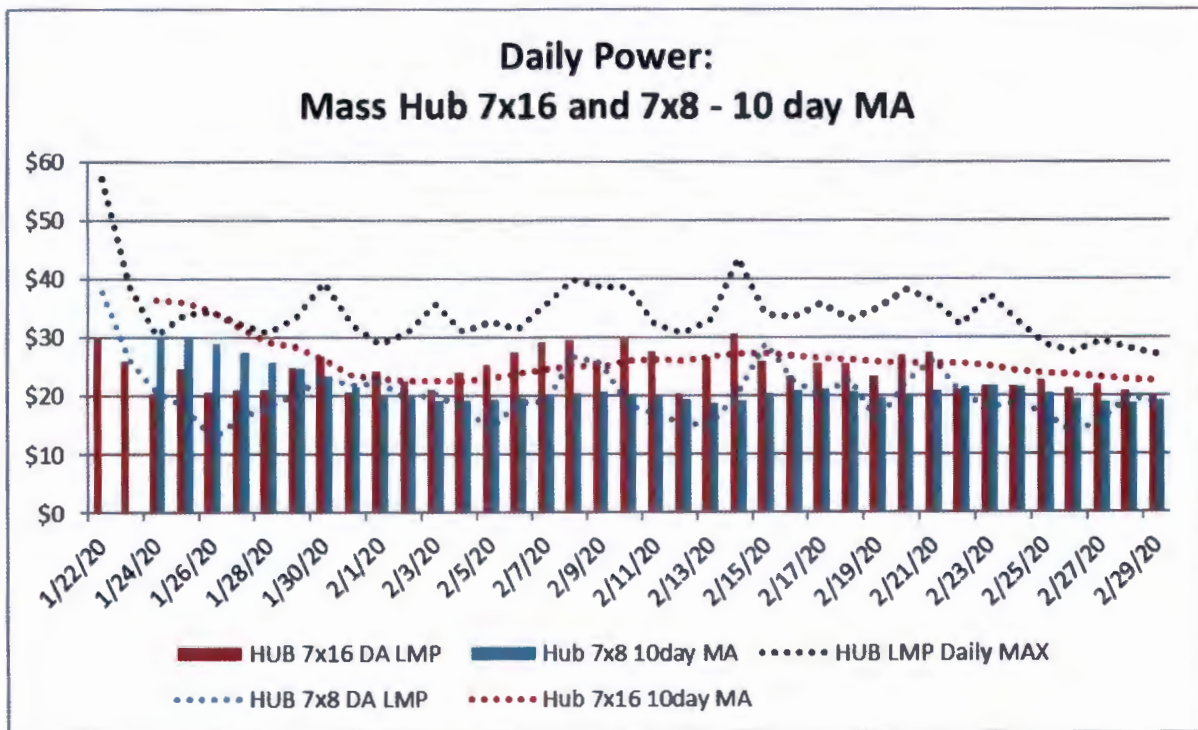


Figure 3 Daily and 10-day moving average HE 1-7, 24 and HE 8-23 MA Hub LMP

* All information provided excludes the MWH consumption and the pass-through costs for the market NuCor special market contracts.

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Volatility in the hourly spot market will affect WED's daily energy costs based on how much power was open to the spot market each day.

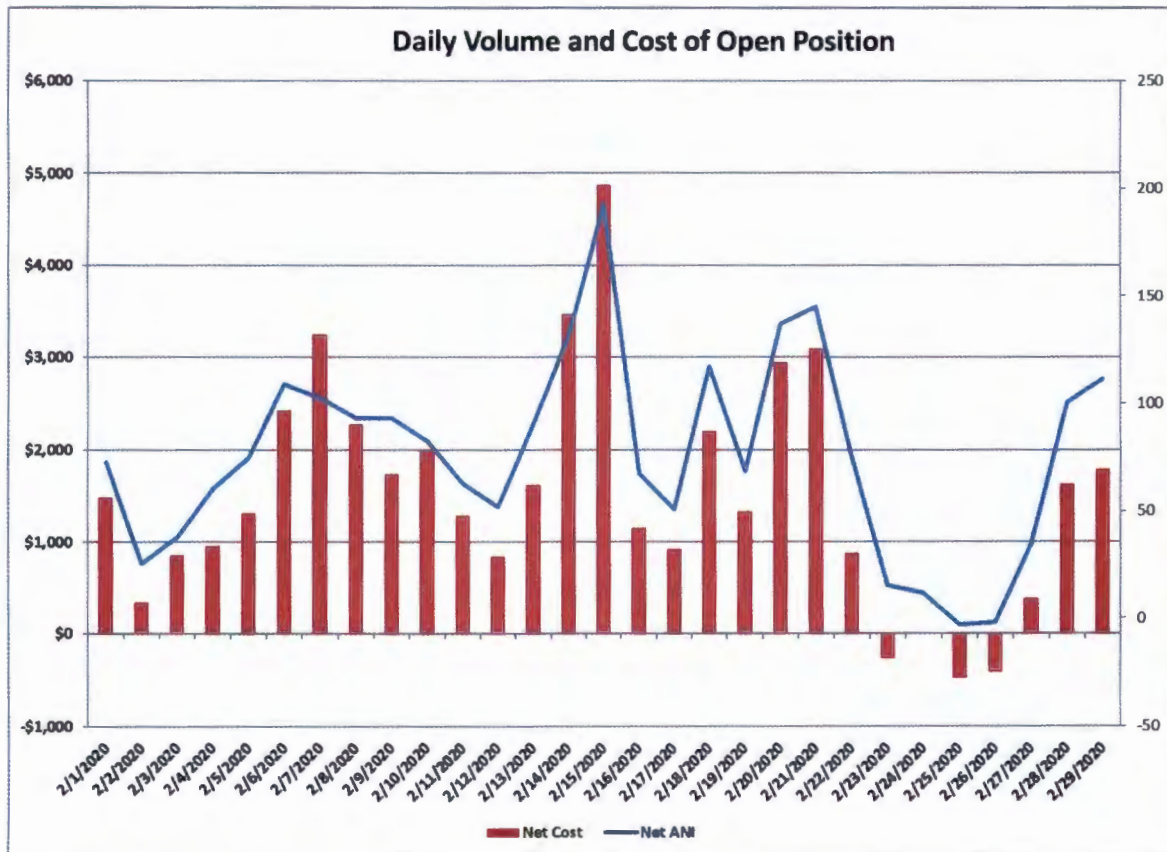


Figure 4 Daily cost of WED open position

* All information provided excludes the MWH consumption and the pass-through costs for the market NuCor special market contracts.

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Locational Marginal Price Spreads

As you can see in Table 2 WED's purchases at the MA Hub, and NYPA, bilaterals through ENE, resulted in a locational spread benefit of \$16,641.67. Locational spread is the difference between the average \$/MWH received for a resource versus the average \$/MWH paid for load.

The total for the month also includes the resettlement on the CMEEC invoice. The load is also reduced by NuCor with the .78% loss addition.

Table 2 Wallingford's Portfolio Summary

Portfolio Summary - ISO							
Settlement Date	Location ID & Name		Adjusted Net Interchange	Nodal Value	\$/MWH Nodal Value	Locational Spread (Penalty) Benefit	\$/MWH Spread
Feb-20	4004	Load	(44,654.03)	\$(1,021,054.80)	\$ 22.87		
	4000	MASS HUB	30,657.89	\$ 717,142.08	\$ 23.39	\$ 22,297.53	\$ 0.73
	4004	CT	9,115.35	\$ 204,607.69	\$ 22.45		
	4011	NYPA	2,669.56	\$ 55,392.76	\$ 20.75	\$ (5,655.86)	\$ (2.12)
	RT Marg Loss/External Dist			\$ 919.54			
Totals			(2,211.23)	\$ (42,992.73)	\$ 19.44	\$ 16,641.67	\$ 0.50
October	Meter Reading Resettlement			\$ 419.24			
	CMEEC Resettlement			(407.83)			
Totals			(2,211.23)	\$ (42,981.32)	\$ 19.44		

Pierce Entitlement

While CMEEC settles the Pierce project financially with WED, it is important to note that while the peaking resource provides capacity and locational forward reserve cost offsets and market revenues, it can be called upon to deliver energy as well. Pierce ran on February 10, 2020. Pierce is a dispatchable resource and will run based on its variable price bids relative to higher-still locational marginal prices at its generation node. Due to the very high bidding requirements and the projected variable costs of running Pierce, and the fact that it is a dispatchable resource, any MWs that run will not be considered in developing WED's hedging purchases.

* All information provided excludes the MWH consumption and the pass-through costs for the market NuCor special market contracts.

TO: Rick Hendershot, Wallingford Electric Division

FROM: Craig Kieny, Energy Initiatives, Inc.

DATE: March 10, 2020

RE: **WHOLESALE POWER SUPPLY SUMMARY**

This memo provides summary-level information regarding: January 2019 Wholesale Power Costs net of charges to Bristol Myers and NuCor; CMEEC charges for February 2020; Recent and Pending Transactions; Market Price Trends and Wholesale Power Market Developments.

Executive Summary

- January actual load was 7.6% below budget.
- Total Wholesale Power Costs for January were \$86.28/MWh; 15.1% lower than the 2019/2020 budget value of \$101.57/MWh.
- January load was 94.8% hedged, compared to the December 2019 forecasted hedge percentage of 90.7%.
- Overall Energy costs for January were \$39.93/MWh; 28.3% less than the budgeted value of \$55.70/MWh.
- Basis credits totaled \$23,976 (\$0.66/MWh) for the 36,284 MWh of hedges purchased at the Hub and Roseton.
- The Pierce project resulted in a benefit of \$38,713, or \$0.79/MWh of the WED's total load net of Bristol Myers and NuCor.
- No procurements were conducted since the last report.

January 2020 Wholesale Power Costs

The overall load forecasting error for January was 7.6% (actual load was 7.6% below budget).

The WED's total Wholesale Power Costs (including ENE administrative charges and WED charges to Account 557 excluding Market Priced Load charges) for January were \$86.28/MWh. This is 5.1% lower than the 2019/2020 budget (ENE 1/15/19 forecast) of \$101.57/MWh. Despite the lower loads to allocate fixed costs over, per-unit costs were lower than budget mainly due to: the unhedged load being served by spot market purchases that were significantly less than budget (the actual cost of short energy was \$33.42/MWh compared to a budgeted cost of \$89.17/MWh) and lower than budgeted transmission expenses. NEPOOL OATT/ISO Tariff and Ancillary Services expenses were approximately \$137,200 under budget, LNS charges were approximately \$19,000 under budget due to lower than projected billing peaks. In addition, Forward Capacity Market charges were approximately \$14,200 under budget due to a slightly lower than projected Capacity Load Obligation and a lower capacity price for the CT load zone.

94.8% of WED's load was hedged, compared to the projected hedged level of 90.7% in the 12/16/2019 3-year Forecast prepared by ENE.

As noted in ENE's *Hedging Results Discussion*, the WED's overall average cost for Energy in January was approximately \$39.93/MWh, 28.3% less than the budgeted energy cost of \$55.70/MWh. This figure includes the following:

- WED hedges purchased from Exelon, NextEra, NYPA, and Shell which averaged \$40.83/MWh.
- Purchases at spot prices for unhedged volume. In hours in which it was short energy, the WED purchased 2,853 MWh through the spot market at a weighted-average price of \$33.42/MWh, for a total cost of \$95,341. This is a decrease in cost of \$31,144, or 18.2%, compared to had this energy been purchased at the WED's average hedge price.
- In hours in which it was excess, the WED sold approximately 302 MWh at an average price that was \$22.71/MWh less than its weighted-average hedge price in those same hours, for a total "loss" of \$6,868. This means the WED was excess in hours with low LMPs relative to its hedge price (hourly excesses and shortfalls are inherent in hedging with Blocks whose volumes do not change on an hourly basis as load changes).
- The on-peak DAM LMP at the Hub averaged \$29.60/MWh, while the off-peak LMP averaged \$23.62/MWh. DAM spot market prices ranged from \$10.77/MWh to \$72.77/MWh.
- Basis (difference in spot prices between the source of the energy and the CT Load Zone) credits and charges consisted of a credit of \$26,621 (\$0.79/MWh) for 33,708 MWh delivered to the MA Hub and a charge of \$2,644 (\$1.03 /MWh) for 2,576 MWh of NYPA energy delivered to the Roseton Interconnection between New York and New England, for a net credit to the WED of \$23,976 (\$0.66/MWh) for 36,284 MWh purchased.
- All other ISO-NE costs or credits associated with the WED's load requirements for the month.

The DAM load forecasting error was 2.4%, resulting in 311 MWh purchased and 842 MWh sold in the Real Time Market (the intent is for 100% of the WED's load to clear in the Day-Ahead Market; inaccuracy in forecasting, which is inevitable to some degree, results in some load clearing in the RTM through either a purchase or a sale in most hours).

CMEEC Charges for February 2020

January participation in the Pierce project resulted in benefits of \$56,075 (recall that the benefits/costs are distributed on a one-month lag).

The charges for CMEEC Administrative and General Costs (A&G), in addition to the WED's contractual pro rata share of A&G costs allocated directly to the project, were as follows:

CMEEC Admin and General Cost Item	Monthly Charge
A&G Charge for Energy Contracts	\$667
Allocation of Pierce Ownership Interest	\$17,362
Total	\$18,029

These two amounts result in a net benefit of \$38,046. Net costs associated with Pierce were \$38,713, or \$0.79/MWh of WED's total load for the month net of NuCor.

Recent and Pending Transactions

No transactions were conducted since the February report.

The following table shows the WED's current hedge position for 2020–2024 compared to the Q1 2020 minimum and maximum hedge levels per Table 1 of the Hedging Policy:

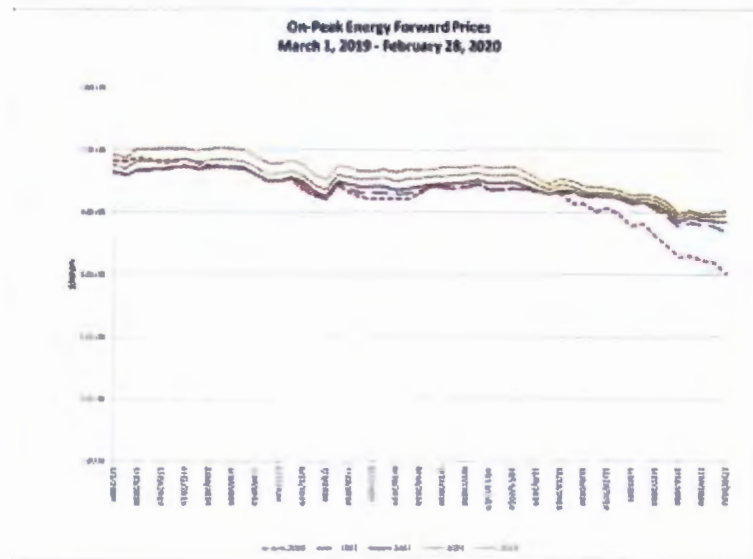
Year	Min Hedge % per Hedging Policy	Current Hedge Level	Max Hedge % per Hedging Policy
2020	70%	90%	100%
2021	50%	90%	90%
2022	30%	60%	70%
2023	10%	39%	50%
2024	0%	15%	30%

WED is not required to make another purchase to meet the minimum hedge level per the Hedging Policy until Q1 2021, by which point it will be required to make a minimum purchase of 5% for 2024. WED is not required to make purchases for either 2022 and 2023 until Q3 2021 by which point it will have to make a minimum purchase of 10% of each year's projected energy requirement.

With respect to the maximum hedge levels allowed per the Hedging Policy, WED cannot make any additional purchases for 2021 until Q2 2020, at which time it could purchase up to 5% of the annual energy requirement. However, WED is already at its self-imposed limit of 90% for 2021, so additional purchases for that year are unlikely. For 2022–2024, WED still has room to make purchases of 10%–15% for each of those years in Q1 2020. Each of these volumes will increase by an additional 10% in Q2 2020 and again in Q4 2020.

Market Price Trends

The plot below shows forward market prices for calendar year strips of On-Peak Energy at the Hub for 2020–2024 at weekly intervals from March 1, 2019–February 28, 2020.



Prices for 2020-2022 continued to drop in February; however, the decrease in 2020 was much steeper due to a sharp drop in prices for March resulting from low spot market LMPs in February. This highlights the risk premium in forward winter energy prices versus the low spot market prices if cold weather does not materialize. Prices for 2023-2024 increased slightly.

Wholesale Power Market Developments

1. Pierce Generation - January – The unit did not operate at all in January. There were no ISO-NE initiated dispatches in the month; nor were there any test runs.

WED experienced a net benefit from the unit of \$56,075, which was \$59,911 better than cost of \$3,836 assumed in the budget. The increased benefit is due mainly to lower operating expenses as the result of not being dispatched for testing purposes.

2. Reconciliation of Load – The January Report discussed that the ISO-NE's Internal Market Monitor (IMM) is investigating "rumors" that municipal utilities were using behind the meter resources to lower their loads at the time of the monthly RNS billing peaks and not reconstituting their load.

It appears that the IMM intends to kick-off a discussion at the June NEPOOL Participants Committee meeting about changing the definition of Network Load in the NEPOOL Tariff to conform with the current practice of reducing load for behind the meter generation that most, if not all, transmission owners are using and ISO-NE has implicitly allowed.

It will be an interesting discussion, as those who are not reducing load have an argument that they are being harmed while others are benefitting for not adhering to the Tariff.

Market Structure – At the March 5, 2020 NEPOOL Participants Committee meeting, the Committee directed ISO-NE to conduct analyses of potential future grid scenarios. The study will assume the policy goals of the New England states will be met, which means a portfolio with considerably more renewables than is in the current mix.

As part of the study, ISO-NE will assess whether the states' policies can be met with current market rules (including the Energy Security Initiative discussed in the February report and in others prior to that) and if that answer is "No" explain the resulting gap, and explore the reasons for the gap and what market changes might close the gap.

This could be the first step in major market rule changes.



Digitally signed by Craig Kieny
Date: 2020.03.10 09:07:04 -04'00'

TOWN OF WALLINGFORD
DEPARTMENT OF PUBLIC UTILITIES
WATER AND SEWER DIVISIONS
377 SOUTH CHERRY STREET
WALLINGFORD, CT 06492
203-949-2670

INTEROFFICE MEMORANDUM

TO: RICHARD A. HENDERSHOT, DIRECTOR OF PUBLIC UTILITIES
FROM: NEIL H. AMWAKE, P.E., GENERAL MANAGER *nif*
SUBJECT: WATER DIVISION GENERAL MANAGER'S REPORT FOR MARCH
DATE: APRIL 15, 2020

Major activities in the Water Division for March, 2020 included the following:

Water Main Breaks, Service Leaks and Emergencies

- * There were no water main breaks during the month. There was one water service leak during the month at 116 South Main Street (one-inch W.I. installed in 1919).

Project Updates (Engineering Section)

- * Engineering Studies for the Ulbrich Reservoir Dam Request for Services (RFQ). The review team continues to evaluate the submissions, including conducting reference checks. This is a qualifications based selection (QBS) per prior recommendation of the PUC and Town Council approval.
- * Replacement of the Underground Fuel Oil Storage Tank (UST) at Pistapaug Pond Treatment Plant: The project was awarded to the low bidder, ETT Environmental Services of Old Saybrook, Connecticut on March 19th. A preconstruction meeting was held on April 14th with expected to start the first week of May, 2020.
- * Stand-by Generators at Well No. 1 and at Well Nos. 2 and 3: The stand-by generator was delivered to Well No. 1. Water Division staff met at the site to discuss the new electric service to be installed by the Electric Division since the current meter is an A-based meter.

Operations, Maintenance and Water Quality

- * Water Main Replacement Projects: Crews began locating, repairing and adjusting water valve boxes for upcoming water main replacement project Contract 36R. Crews located and operated approximately thirty valves in the following areas: Pond Hill Road; Wallace Street; Bonnie Court and Ward Street Extension. One gear valve on South Elm Street at Wall Street is inoperable and will need to be excavated and repaired. These valves will be needed to accommodate shutdowns for the water main replacements scheduled to start later this spring. Work continues.

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- * Water Quality Inspectors responded to a complaint of discolored water which was traced to a fixture in the home for which the owner was advised to call a plumber. Another call related to a constant discharge from a sump pump which was determined to be groundwater.
- * The Water Quality Inspectors administered the Cross Connection Control Program with 130 cross connection device tests and 77 cross connection surveys conducted, six of which were for corrected violations.
- * Engineering Section staff responded to 317 Call Before You Dig (CBYD) tickets (requests) during the month compared to 280 in March 2019.

Personnel

- * Louis Adams, Electrical Technician, began work at the Water Division on March 16th.
- * An Authorization for Employment for the Engineering Section Junior Engineer was transmitted to the Human Resources Department on December 17, 2019. The position was advertised internally and externally on February 7th and closed on March 10, 2020. The Engineering Section is waiting for the HR Department to make a determination of qualified applicants and schedule the oral panel.
- * An Authorization for Employment for the Chief Maintainer - Distribution Crew was transmitted to the Human Resources Department in January. The Human Resources Department advertised the Chief Maintainer - Distribution Crew position on February 14th with a closing date of March 3, 2020. The Water Division is waiting for the HR Department to make a determination of qualified applicants and schedule the merit exam.
- * An Authorization for Employment for the Water Treatment and Pumping Supervisor was transmitted to the Human Resources Department on January 3, 2020 for recruitment of external candidates. Please note that there currently is a list of internal candidates. The Human Resources Department advertised the position on February 21st with a closing date of March 10, 2020. The HR Department is evaluating options for moving the process recruitment forward with regards to conducting an oral panel for the external candidates.
- * The job posting for the Water Treatment and Pumping Operator I was advertised on March 2nd with a closing date of April 6, 2020.
- * An Authorization for Employment for a Water Treatment and Pumping Operator II was transmitted to the Human Resources Department on March 4, 2020. The position was advertised externally on April 9, 2020. The Water Division is waiting for the position to be posted internally as well.

At this time there continues to be four full-time Water Treatment and Pumping Operator vacancies at the Pistapaug Water Treatment Plant. Operator staffing is presently being supplemented by two retired Operator II's who are each working 16 hours per week.

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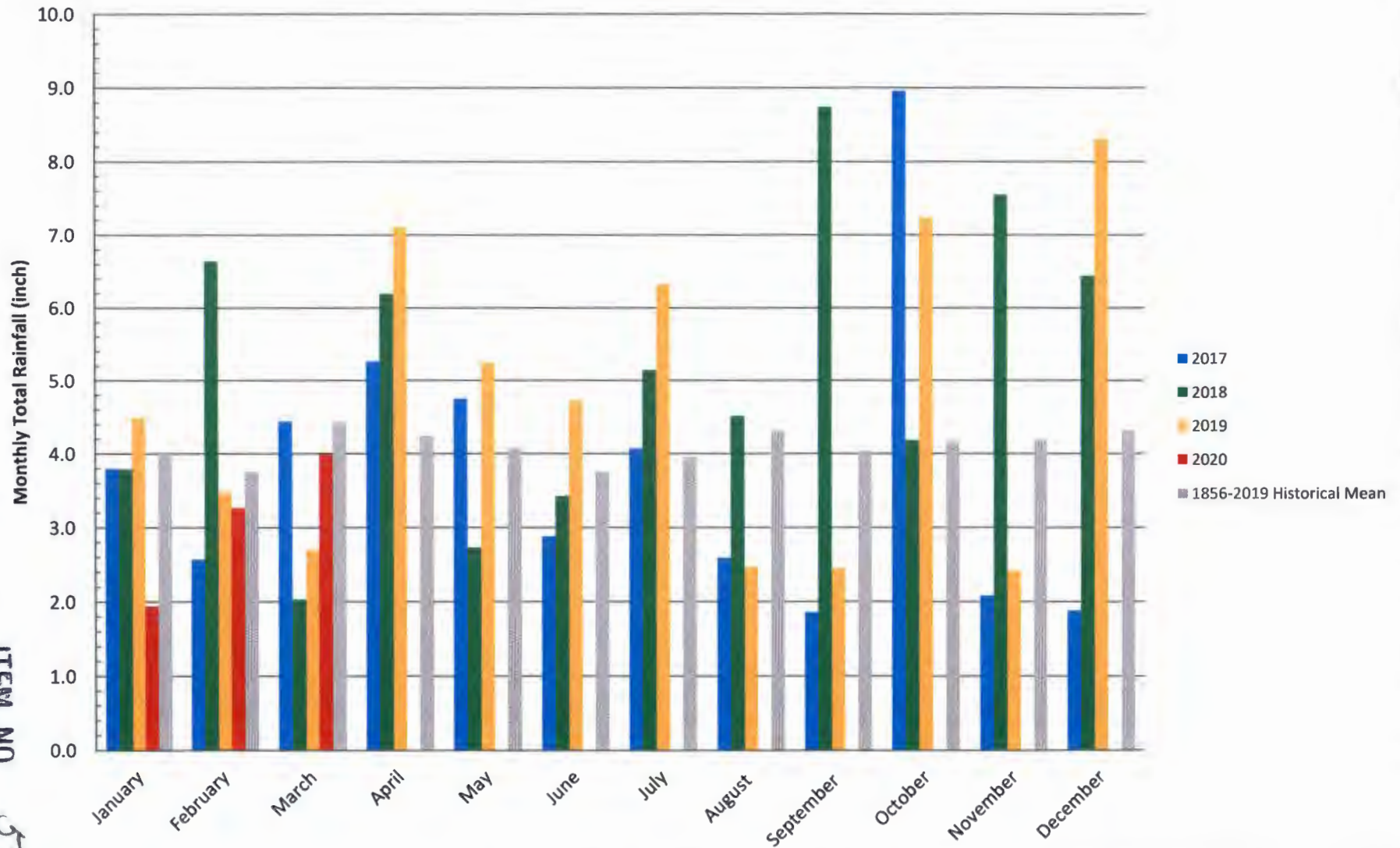
Statistics and Metrics

- * Precipitation for the month was 4.00 inches, 0.43 inches below the historic mean of 4.43 inches for March.
- * Effective reservoir storage at the end of the month stood at 90.8% (1,745.1 MG) of total effective impoundment (full 1,921.0 MG), versus the historical average of 91.3% for March (a difference of -9.4 MG). This represents approximately 598 days of supply remaining at 2.92 MG average per day drawn from the surface water reservoirs.
- * Water production for the month was 90.412 million gallons (2.92 MG average per day), a decrease of 11.85% compared to March, 2019.

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ITEM NO. 5103
PUC AGENDA 4/21/20

**Monthly Measured Rainfall
at MacKenzie Reservoir
2017 - 2020**
Water Division
Department of Public Utilities



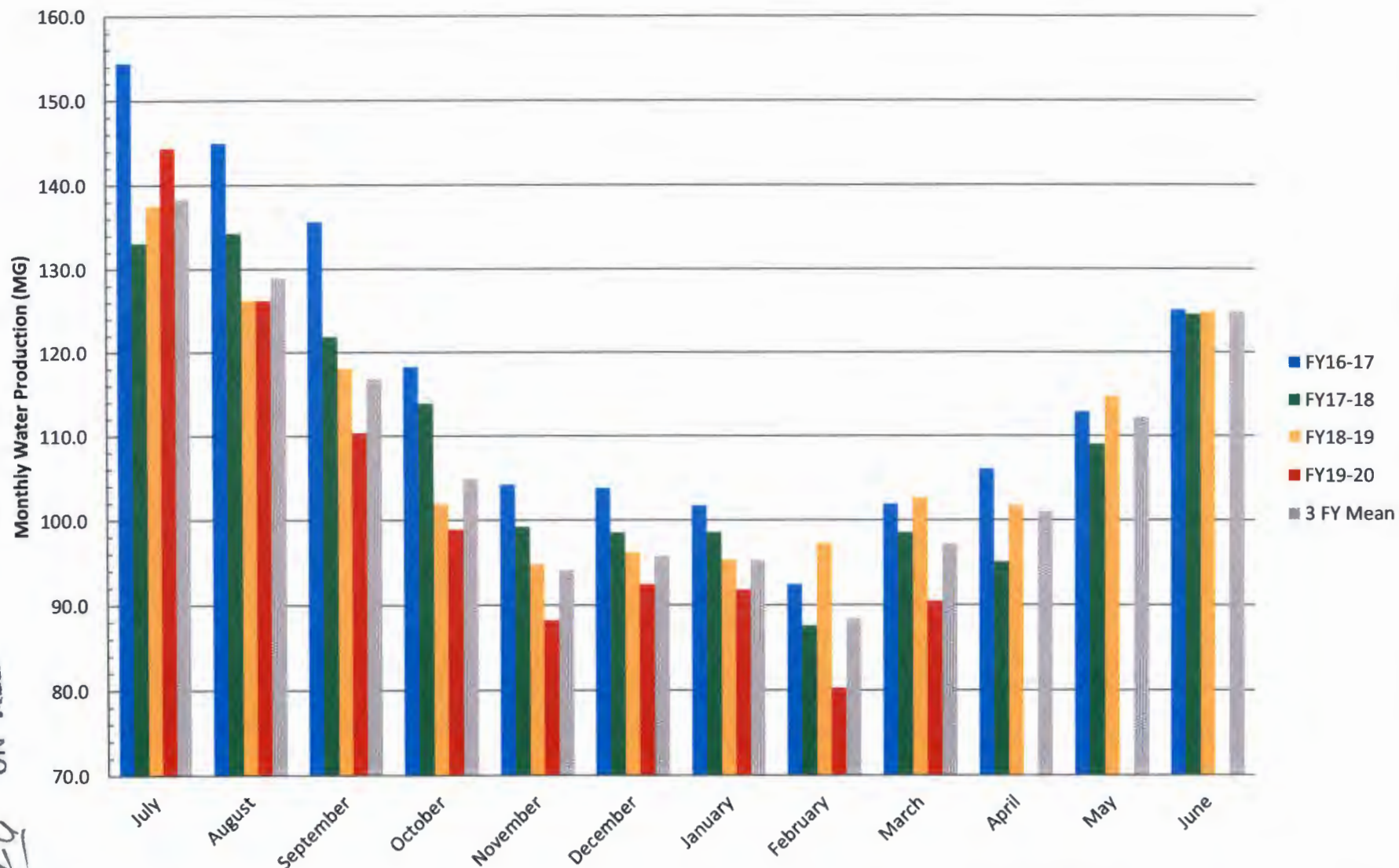
PUC AGENDA
ITEM NO. 5-104
4/11/20

Total Monthly Water Production

FY16-17 to FY19-20

Water Division

Department of Public Utilities



ITEM NO. 5-105
PUC AGENDA 4/21/20

TOWN OF WALLINGFORD
DEPARTMENT OF PUBLIC UTILITIES
WATER AND SEWER DIVISIONS
377 SOUTH CHERRY STREET
WALLINGFORD, CT 06492
203-949-2670

INTEROFFICE MEMORANDUM

TO: RICHARD A. HENDERSHOT, DIRECTOR OF PUBLIC UTILITIES
FROM: NEIL H. AMWAKE, P.E., GENERAL MANAGER *rip*
SUBJECT: SEWER DIVISION GENERAL MANAGER'S REPORT FOR MARCH
DATE: APRIL 15, 2020

Major activities in the Sewer Division for March, 2020 included the following:

Alarms, Trouble Calls and Emergencies

- * The Sewer Division responded to twelve alarms and trouble calls during the month including six lateral backups (responsibility of the homeowner), one odor complaint (no odor found), three power interruptions (reset drives at the Doherty PS, reset equipment at the WPCF, and performed a check at the Low Level PS), a pump failure at the Farm Hill PS (removed and cleaned the pump), and addressed a loose manhole cover on North Farms Road.

Project Updates (Engineering Section)

- * Inflow and Infiltration Removal Program: Correspondence was sent to 152 properties (85 flyers, 55 postcards as follow up notification, ten letters to new residential property owners, and two letters to building permittees).

A total of 31 properties were inspected throughout Town during the month with four properties connected to the sanitary sewer system; two identified with having a sump pump connected to the sanitary sewer system and two with roof leaders that discharge to the sanitary sewer.

Two issues were corrected during the month; two sump pumps were disconnected from the sanitary sewer collection system.

- * Durham Road Sewer Main Replacement: Engineering staff is scheduling soil borings and surveying for the design of replacement of approximately 550 feet of gravity sanitary sewer main along Durham Road, downstream of the I-91 pump station.

ITEM NO. 5-106
PUC AGENDA 4/21/20

Operations and Maintenance

- * Collection system staff continued preventive maintenance of the system with 9,402 linear feet of sewers televised, with 1,550 feet of sewers flushed during the month. Through March 3.63 miles of sewers have been televised (1.83% of the system) and 0.54 miles of sewers have been flushed (0.27% of the system) in 2020. For reference, the gravity collection system is approximately 198.6 miles total.

In addition, collection system staff performed maintenance and clearing of 16,135 linear feet of right-of-way and easements during March, 2020.

Personnel

- * The Sewer Division Superintendent position was advertised on March 17, 2020 with a closing date of April 21, 2020.
- * The Attendant I position at the wastewater treatment plant was advertised April 9, 2020 with a closing date May 11, 2020.

Statistics and Metrics

- * Recorded influent flow to the wastewater treatment plant was 189.59 million gallons for the month, a decrease in flow of approximately 6.76% compared to March, 2019 (a decrease of 13.75 MG for the month or 0.44 MG per day average). This represents an average daily flow of 6.12 mgd for the month.

The 12-month rolling average through March, 2020 is equal to 5.49 MGD, below the 90% permit threshold of 7.2 MGD.

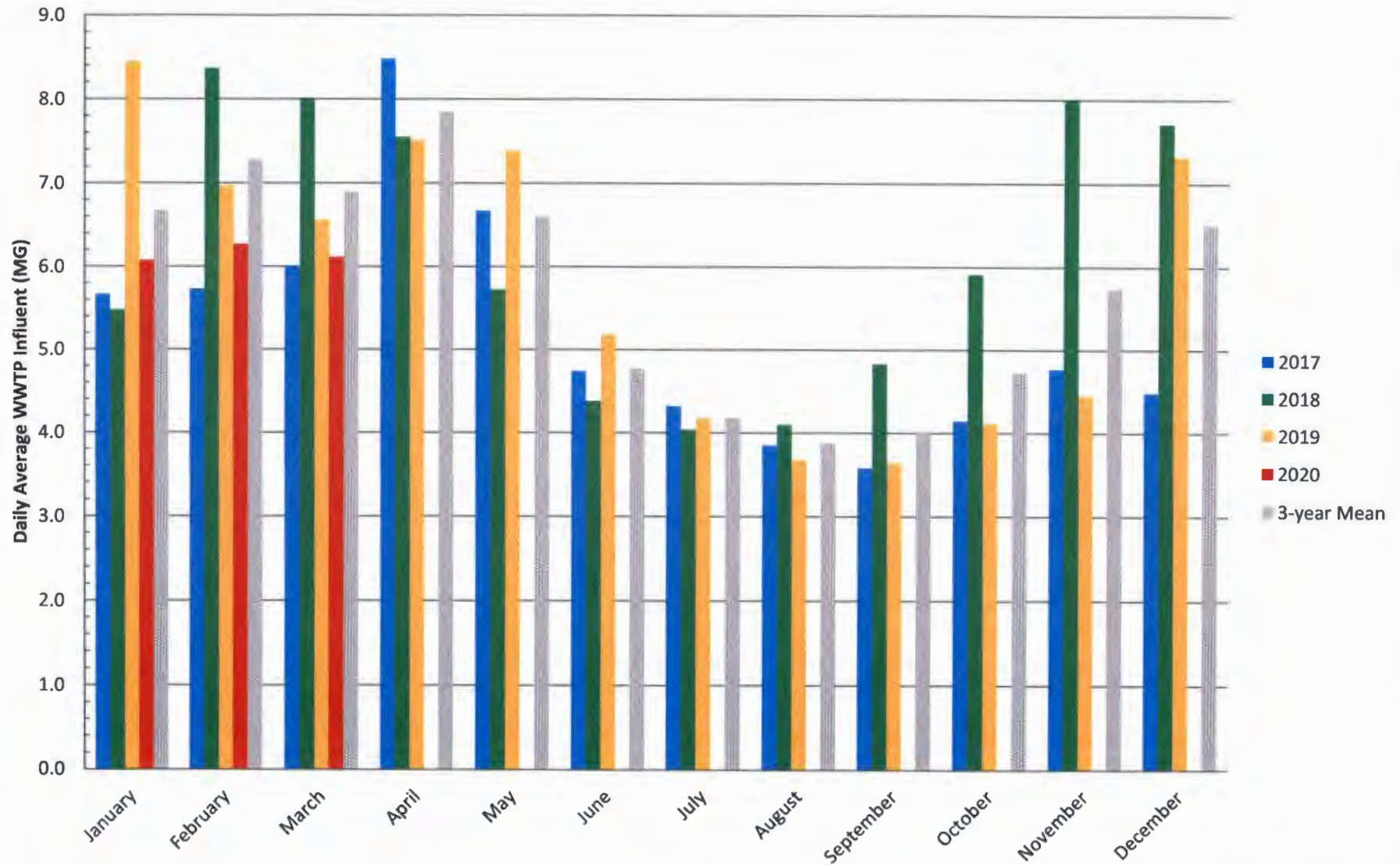
- * At the wastewater treatment plant, nitrogen discharge levels averaged 497 lbs./day for the month (63.5% treatment efficiency with an influent nitrogen level of 1,363 lbs./day), versus a discharge of 602 lbs./day in March, 2019. This quantity is approximately 228 pounds over the current year's permit level of 269 lbs./day. The annualized average is 490 pounds per day to date.
- * Synagro transported 50.65 dry tons of biosolids for disposal.
- * The WPCF received 7,000 gallons of septage for the month.
- * The Maintenance Repair Technicians (MRTs) serviced 35 Department of Public Utilities vehicles in March, including 19 Electric Division vehicles (47.7% of time spent), 13 Water Division vehicles (44.1% of time spent), and three Sewer Division vehicles (8.2% of time spent).

Daily Average WWTP Influent Quantity

CY 2017 - 2020

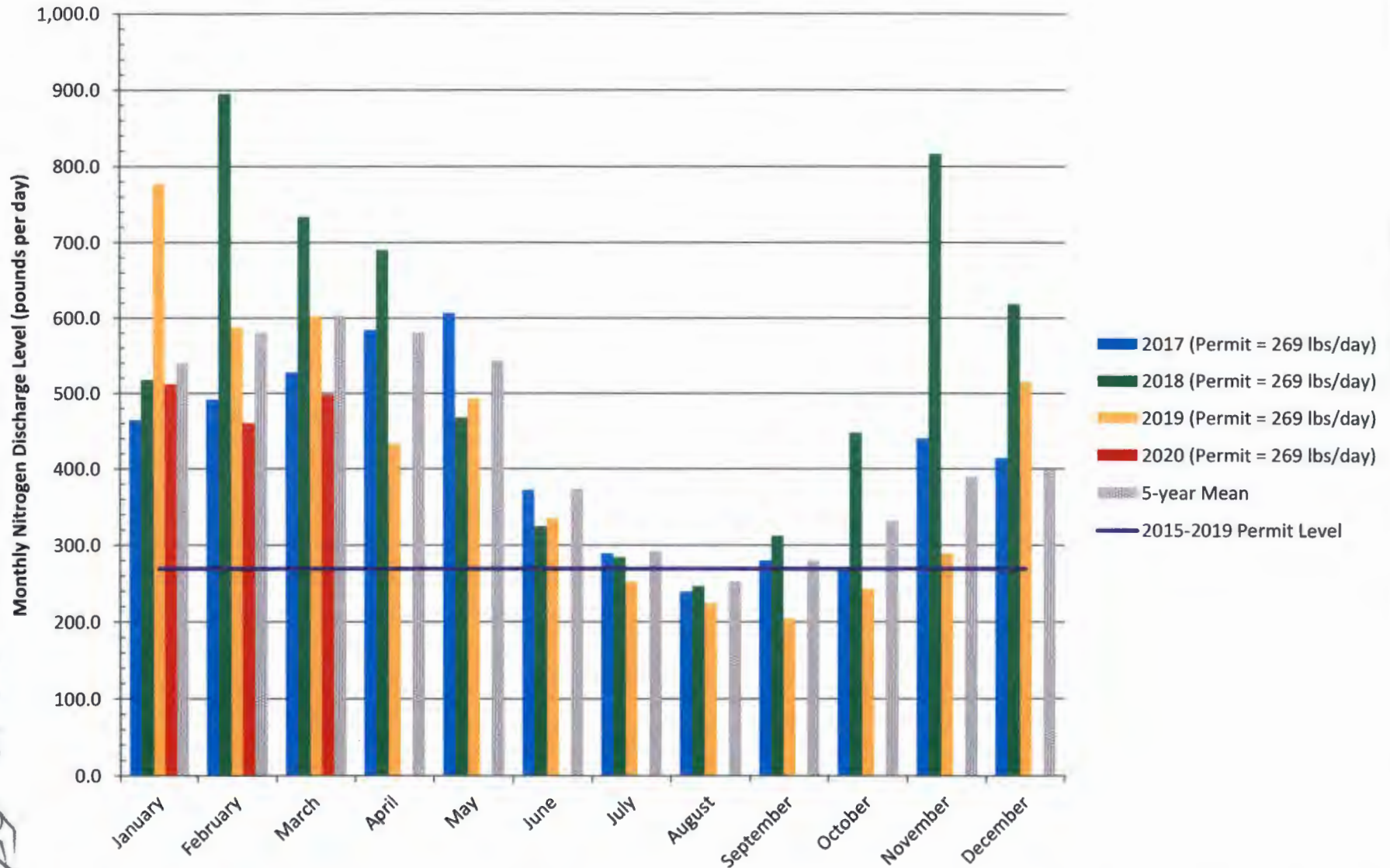
Sewer Division

Department of Public Utilities



ITEM NO. 5-108
PUC AGENDA 4/21/20

Total Monthly Nitrogen Discharge Level
CY 2017 - 2020
Sewer Division
 Department of Public Utilities



ITEM NO. 5-109
 PUC AGENDA 4/16/20

Monthly Statistics March, 2020
Inflow and Infiltration Program
Wallingford Sewer Division
Department of Public Utilities

1.0 Correspondence	Current Month	CY to Date
1.1 Flyers (Minished)	85	194
1.2 Postcards (Minished Follow-up)	55	148
1.3 Letters	12	61
1.3.1 Ownership Change	10	52
1.3.2 Building Permit Greater than \$25,000	2	8
1.3.3 Lateral Re-use		
1.3.4 Water Meter Replacement		1
1.3.5 Specific Information		
Correspondence Total	152	464

2.0 Inspections Completed	Current Month	CY to Date
2.1 Residential	31	106
2.2 Commercial, Institutional, Etc.		
2.3 Dye Tests		
Completed Inspections Total	31	106

3.0 Issues Identified	Current Month	CY to Date
3.1 No Issues Found	27	96
3.2 Sump Pump	2	7
3.3 Rain Leaders (Downspouts)	2	2
3.4 Interior Floor Drains		
3.5 Exterior Yard or Driveway Drains, Etc.		
3.6 Damaged Lateral or Private Sewer		1
3.7 Miscellaneous - MH, CB, Foundation Drain		
Issues Identified Total	4	10

4.0 Issues Corrected	Current Month	CY to Date
4.1 Sump Pump	2	6
4.2 Rain Leaders (Downspouts)		
4.3 Interior Floor Drains		
4.4 Exterior Yard or Driveway Drains, Etc.		1
4.5 Damaged Lateral or Private Sewer		
4.6 Miscellaneous - MH, CB, Foundation Drain		
Issues Corrected Total	2	7

5.0 Inflow Removed and Costs Avoided	Current Month	CY to Date
5.1 Inflow Gallons Removed per Year	81,571	271,903
5.2 Annual WWTP Costs Avoided	\$412.75	\$1,375.83
5.3 20-year Planning WWTP Costs Avoided	\$8,053.64	\$26,845.47

6.0 Reimbursement to Property Owners	Current Month	CY to Date
6.1 In Evaluation	\$2,208.30	\$13,469.42
6.2 Approved for Payment	\$1,429.89	\$7,043.89
6.3 Payments Made	\$1,429.89	\$7,043.89

5-110
PUC AGENDA 4/21/20