

CORRECTED

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

TUESDAY, NOVEMBER 17, 2020

6:30 p.m.

The Town of Wallingford, Public Utilities Commission meeting of **NOVEMBER 17, 2020** will take place **REMOTELY** only. It shall commence at 6:30 p.m. It is expected that the public will be permitted to comment on the Agenda Items as instructed by the Chairman. Materials for this meeting will also be posted on the Town's website for viewing prior to the meeting. The meeting can be accessed through:

<https://global.gotomeeting.com/join/652583325>

YOU CAN ALSO DIAL IN USING YOUR PHONE:

United States (Toll Free): 1-866-899-4679
Access Code: 652-583-325

RECEIVED FOR RECORD 11-12-2020
AT 2:50 AND RECEIVED BY
Barbara Thompson TOWN CLERK

AGENDA

1. Pledge of Allegiance
2. **Consent Agenda Items**
 - a. Consider and Approve Meeting Minutes of November 4, 2020.
3. Items Removed from Consent Agenda.
4. Discussion and Action: Approval of Director's Report for the Month of October 2020.

WATER/SEWER

5. Discussion: WPCF Upgrades Project Update.

PUC

6. Discussion and Possible Action: 2021 Meeting Schedule

7. Correspondence
8. Committee Reports

PUBLIC QUESTION AND ANSWER PERIOD: 6:45 – 7:00 P.M.

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.

1 **DRAFT**

2 PUBLIC UTILITIES COMMISSION
3 WASTEWATER TREATMENT PLANT
4 ADMINISTRATION BUILDING
5 155 JOHN STREET

TOWN OF
WALLINGFORD

NOV 9 2020

DEPARTMENT OF
PUBLIC UTILITIES

6 WALLINGFORD, CT 06492

7 Wednesday, November 4, 2020

8 6:30 P.M.

9 **MINUTES**

10 **PRESENT:** Chairman Robert Beaumont; Commissioners Patrick Birney (TC) and Joel
11 Rinebold; Director Richard Hendershot; Electric Division General Manager Tony Buccheri,
12 Office Manager Tom Sullivan; Water and Sewer Divisions General Manager Neil Amwake;
13 Recording Secretary Bernadette Sorbo.

14 (TC-TELECONFERENCE)

15 *Members of the public – none*

16 Mr. Beaumont called the Meeting to order at 6:30 P.M.

17 **1. Pledge of Allegiance**

18
19 **2. Consent Agenda**

20 a. Consider and approve meeting Minutes of October 6, 2020
21

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

23 **Made by: Mr. Rinebold**

24 **Seconded by: Mr. Birney**

25 **Votes: 3 ayes**
26

27 **3. Items Removed from Consent Agenda – None**
28
29

30 **4. Discussion and Action: Approval of Director's Report for the Month of**
31 **September 2020**
32

33 Mr. Hendershot asked if there were any questions pertaining to the Director's Report.
34

35 Mr. Beaumont questioned how long the term will be for the Electric Division Section, Cost of
36 Service Study, Financial Forecast, Revised Rates on Page 4-1?
37

Mr. Hendershot responded that the term will be four years. Mr. Hendershot stated that any of the revised rates will be implemented July 1, 2021.

Mr. Beaumont inquired regarding the Pad-Mounted Transformers discussed on Page 4-1. Mr. Beaumont stated that 29 locations have been prioritized and asked if these have been prioritized because they are more in need?

Mr. Buccheri responded that this was correct. Mr. Buccheri stated the Electric Division is currently out to bid and are waiting on the pricing to come in for the transformers. Mr. Buccheri is hoping that by the next meeting he will have lead times and pricing information to provide to the PUC.

Motion to Approve the Director's Report for the Month of September 2020

Made by: Mr. Rinebold

Seconded by: Birney

Votes: 3 ayes

**5. Discussion and Action: Electric Division: Budget Transfer- A/C 598 –
Miscellaneous Dist. – Environmental**

Mr. Buccheri stated that this account is for Environmental Services. This account covers expenses incurred by the Electric Division for spill response, transformer oil testing and disposal. While the Division recently increased the budget for this account as part of a larger multi-line item appropriation connected to Storm Isaias, the remediation costs for the storm were underestimated in that request by approximately \$31,000.00. Mr. Buccheri advised that in addition to the storm costs, the Division has also experienced a year-to-date increase in the amount of remediation costs connected to failing transformers. The Electric Division staff has also identified additional failing transformers which will need to be replaced in the coming months and will likely result in additional response, testing and disposal costs which will exceed the current budget amount. The transfer request is intended to cover those anticipated costs for the balance of the fiscal year.

Mr. Birney stated that he was aware of the excess costs due to Storm Isaias but questioned if there was something going on that was creating the excess costs that the PUC should be aware of?

Mr. Hendershot responded yes. Mr. Hendershot stated that the inspections for the pad mount transformers are finding that there are more transformers where there has been weeping or minor oil leakage. Mr. Hendershot advised that due to the increased attention given on the pad mount transformers, the Division is finding more work to do than anticipated when the budget was developed.

Mr. Hendershot noted that on Item Number 5-2, the Request for appropriation of funds is incorrect and will be corrected to show Request for Transfer of funds.

84 **Motion to Approve the Budget Transfer into Account 598**

85 **Made by: Mr. Rinebold**

86 **Seconded by: Mr. Birney**

87 **Votes: 3 ayes**

88
89
90 **6. Discussion and Action: Electric Division – Resolution – Sullivan**

91
92 Mr. Sullivan has been with the Town of Wallingford, Electric Division for over twenty-eight
93 years. Mr. Beaumont stated that the Division has been very fortunate to have Mr. Sullivan and
94 that he sincerely appreciates him. Mr. Beaumont wished Mr. Sullivan and his family nothing but
95 the best.

96
97 Mr. Sullivan thanked the Commissions and stated that they were a good group to work for and
98 with. Mr. Sullivan stated that he appreciated the support and the trust that is put into the staff.

99
100 Mr. Birney stated that Mr. Sullivan will be missed. Mr. Birney thanked Mr. Sullivan for all of
101 his hard work with CMEEC and his sense of humor.

102
103 **Motion to Approve the Resolution for Sullivan**

104 **Made by: Mr. Birney**

105 **Seconded by: Mr. Rinebold**

106 **Votes: 3 ayes**

107
108 **Public Question and Answer Period**

109
110 No members of the Public present

111
112 **Public Question and Answer Period Closed**

113
114
115 **7. Discussion and Action: Water Division – Budget Amendment – Transportation**
116 **Equipment – WD-05**

117
118 Mr. Amwake stated that the budget amendment is to purchase a new cargo van with a trailer
119 hitch package for water main flushing operations (WD-05). The goal each year is to flush 100%
120 of the distribution system, which is 200 miles of water main. The current flushing van is Circa
121 2005, has 133,500 local miles and is in fair/poor condition. Mr. Amwake advised that the Water
122 Division's FY 2019-2020 budget included funding of \$30,000.00 to purchase a new cargo van.
123 The bids were lower than anticipated based on the telephone calls made in January 2020 when
124 the budget pricing was received. Therefore, the Water Division is requesting a budget
125 amendment of \$22,000.00 to come out of the Retained Earnings Account and to be transferred
126 into the Transportation Equipment Fund.

127
128 **Motion to Approve the Budget Amendment from Retained Earnings to Purchase**
129 **Transportation Equipment**

Made by: Mr. Rinebold
Seconded by: Mr. Birney
Votes: 3 ayes

8. Discussion and Action: Water Division – Budget Amendment – Transportation Equipment – WD-14

Mr. Amwake stated that this request is similar to the prior Budget Amendment request. Mr. Amwake stated that these bids were opened subsequent to the end of the prior fiscal year. As a result, the approved appropriation for FY 2019-2020 has now lapsed. The budget included \$24,000.00 to purchase a new van utilized for material and equipment pickup for water main repairs, etc.; delivery of water and sewer bills and late notices to the post office; and delivery of mail between the Public Utility divisions and Town Hall (WD-14). The existing 2008 Chevy Uplander van utilized for these functions has approximately 104,000 local miles and is in fair condition. Mr. Amwake advised that the bids came in better therefore, the Water Division is requesting approval of a budget amendment increasing the Account #43300392 (Transportation Equipment) in the amount of \$22,000.00.

Motion to Approve the Budget Amendment to Purchase Transportation Equipment from Retained Earnings

Made by: Mr. Rinebold
Seconded by: Mr. Birney
Votes: 3 ayes

9. Discussion: WPCF Upgrades Project Update

At the Intermediate Pump Station, the switch over from the existing IPS to the new IPS occurred on September 17th. The new IPS is currently operational and pumping wastewater from the Primary Settling Tanks across the WPCF to the Anoxic Basin. The demolition of the former IPS is nearly complete. The two new Secondary Settling Tanks will be constructed on the area currently occupied by the former IPS.

At the Tertiary Phosphorous Building the installation of the grade level floor slabs is complete. All columns have been formed and poured. Shoring has been installed for the construction of the concrete roof slab and beams. The contractor is currently installing formwork and rebar for the roof slabs and beams.

At the UV Disinfection/Post Aeration Building the roof joists and decking has been installed for the UV Building. The Contractor is currently installing the exterior brick walls for the UV Building. As of today the brickwork is about 60-65% complete.

At the Emergency Generator Building, the foundation and reinforcing steel for EGB is complete. The concrete pad with reinforcing steel for the 10,000-gallon diesel aboveground storage tank (AST) is complete. Delivery of the AST is projected for late October or early November. The

contractor continues with the installation of the electrical feed between the EGB and the main switchgear in the Personnel Building.

At the Secondary Pump Station, the sheeting and bracing for excavation of the SPS has been completed. The excavating has been completed and the Contractor is starting to form the rebar for the structure.

Along Main Street the installation of the permanent RBC electrical duct bank continues. This work is approximately 50-55% complete at this time.

Construction Contract Payment Applications – C. H. Nickerson

Original Contract Sum	\$45,507,000.00	
Net Change by Change Orders	(\$47,432.14)	
Contract Sum to Date	\$45,459,567.86	As of September 15, 2020

Construction Contract Schedule

Original Completion Date	February 10, 2022
Net Change Schedule Days	<u>0</u>
Contract Completion Date	February 10, 2022

10. Discussion and Action: Water Division – Resolution - Johnson

Mr. Johnson has been with the Town of Wallingford Water Division for ten years. Mr. Amwake commented that Mr. Johnson is a great, friendly, steady employee. Mr. Amwake stated that what everyone loved about Mr. Johnson is when any kind of issue arose Mr. Johnson always remained calm. Mr. Johnson also loved to teach, mentor and pass along his knowledge to other water treatment operators.

Motion to Approve the Resolution for Johnson

Made by: Mr. Rinebold

Seconded by: Mr. Birney

Votes: 3 ayes

Committee Reports/Correspondence

The PUC held a discussion on where the meetings would be held for the remainder of the year. Mr. Beaumont stated that the next three meetings would be held tentatively at the Wallingford Town Hall in Room 315. These meetings will be held on an individual case basis per the health department.

Mr. Birney stated that this should be added on as an agenda item for the next meeting.

Both Mr. Beaumont and Mr. Rinebold agreed.

221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241

ADJOURNMENT

Motion to adjourn
Made by: Mr. Rinebold
Seconded by: Mr. Birney
Votes: 3 ayes

The meeting was adjourned at approximately 7:10 p.m.

Respectfully submitted,	Respectfully submitted,
Bernadette Sorbo	Joel Rinebold
Recording Secretary	Secretary



Town of Wallingford, Connecticut

RICHARD HENDERSHOT
DIRECTOR

DEPARTMENT OF PUBLIC UTILITIES
100 JOHN STREET
WALLINGFORD, CONNECTICUT 06492

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

DIRECTOR'S REPORT October 2020

DIRECTOR'S OFFICE/DEPARTMENT-WIDE

All three Divisions continued with their modified work practices in response to the COVID-19 pandemic. Employees are being kept separated as much as possible and everyone is wearing a mask or face covering in the workplace per rules issued by the CT DECD. The public may access the Customer Service windows in both buildings, so long as they wear a mask/face covering and follow the prescribed social distancing requirements. Non-payment shutoffs and field-collections continued in the Electric Division, in advance of the November moratorium for "hardship-declared" customers. The Water Division has not yet resumed performing any tasks inside customer premises. The Water Division office staff is adjusting to the vacant Business Office Manager position, and so the Division does not anticipate performing non-payment shutoffs or soliciting payment agreements until after January 1, 2021. It is worth noting that per CT Statutes, the Water Division may lien property for unpaid water bills, a response not available to the Electric Division.

ELECTRIC DIVISION

Cost of Service Study, Financial Forecast, Revised Rates

A "virtual" project kickoff meeting was held on November 4, and data gathering for PLM has begun. The early schedule has the entire effort, including finalizing any rate revisions, by February 26, and any revised rates implemented effective July 1, 2021.

Office Building Review

The Architect has updated the plan-view drawings per staff's comments. The WED, after consulting with the Architect, has decided to include evaluation and replacement of the existing roof within any scope of work that results from this effort. No change since last month.

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

WRE continues to hold its expected "go live" date of by December 31, 2020, with an overall scope for the PV-array of 15-MWs. The system protection and control design has been completed and drawings issued. Critical WED materials have been ordered and received; new distribution line reclosers will be installed in November. The fiber optic cable path has been surveyed and identified. The contractor is well underway with the site work at the solar PV panel collection fields.

Primary URD Replacements

Ashlar Village has performed the necessary surveying work so that proper easements can be developed. WED is finalizing easements prior to completing design, which will include ordering new transformers.

Pad-mounted Transformers

Inspections to date have identified a total of 97 units (combined single- and three-phase) where replacement is justified, and 29 locations have been prioritized. The Division is coordinating with the Purchasing Bureau to obtain the needed replacement units in an orderly and timely fashion. Once delivery dates are established, a replacement schedule will be developed.

CTDOT

Staff has begun to coordinate with CTDOT regarding their proposed effort to update various signal facilities along Colony Road.

The modified Rate 7 – Municipal Lighting, took effect on November 1. This rate was modified to add the new type of LED lights that were installed along Hall Avenue.

Service work during October included seven (7) new services, 21 service changes, and three (3) retired services.

Streetlight work included 60 LED streetlight conversions and 57 streetlight repairs. To date, 2,911 LED streetlights have been installed, with 1,724 HPS streetlights remaining to be replaced.

During November, five (5) poles were replaced, along with four (4) aged overhead transformers.

As of the end of the month, 80 A-base meter installations have been updated, three (3) have been removed, and 212 remain to be addressed.

Personnel

Efforts are underway to address the vacant Meter Technician Apprentice position. An existing external candidate list was provided by HR, and candidates have been interviewed. The position was also posted internally, and we await any qualified candidates from that effort.

Interviews for the vacant Chief Engineer position were conducted and a preferred candidate identified. A conditional offer was issued prior to the end of September, but the candidate withdrew from consideration after his current employer offered additional salary compensation. The position is being re-posted and re-advertised.

The vacant Chief Meter Technician position was posted and advertised. After the oral exams, there was only one (1) candidate, and so the position has been re-posted.

The vacant General Line Foreman position oral screening exam was held on October 23, and a candidates list provided. Interviews have begun.

The soon-to-be-vacant Business Office Manager position has been posted.

The vacant Energy Efficiency and Conservation Specialist position has been posted. HR is reviewing candidates and scheduling the screening exam.

One of the System Operators has provided written notice of his intention to retire in early 2021. Efforts to address that pending vacancy have begun.

Electric System Metrics

System input for September totaled 42,655-MWh, which was almost identical to October 2019. Maximum system demand for the month was 73.6-MW. This value is 17.6% less than the peak demand from September 2019.

Average System Availability Index ("ASAI") for July was computed at 99.963%. Monthly values for the other tracked indices are as follows below.

SAIDI (System Average Interruption Duration Index):	16.69 minutes
SAIFI (System Average Interruption Frequency Index):	0.0934
CAIDI (Customer Average Interruption Duration Index):	178.7 minutes

September Wholesale Power Supply

The percentage of the WED's total energy hedged was 95.0%. The forecasted hedging level for September was 90.4%.

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

- September actual = \$94.05
- 2019/2020 FY budget forecast (1/15/19) for August = \$91.98

- Prevailing six-month average PCA forecast (7/1/20-12/31/20) = \$85.50

WED's generation cost per MWh:

- Average cost for hedged volume = \$40.04
- Average cost for total volume = \$38.48

WATER DIVISION

There were three (3) main breaks and two (2) service leaks during October.

Stand-by Generators for Well 1, and Wells 2/3. The contractor is working on the new electrical gear at Well No. 3. Next month (November) will see completion of the electrical facilities between Well No. 2 and Well No. 3.

WWD staff continued to locate numerous water valve boxes, and repair and adjust same, as needed, in advance of Town DPW road paving projects. All paving work is now complete for 2020.

Fuel Oil Tank Replacement at Pistapaug Water Treatment Plant. Issues continue with connecting the new fuel oil tank to the boilers. Contingency plans are being developed in case a proposed piping re-route does not resolve the problems.

Contract 36R - Pond Hill Road, Wallace Street, Bonnie Court and Ward Street. Good progress was made in October. The contractor completing connecting water services to the new mains along Pond Hill Road and Bonnie Court. The final connection of the new main to existing mains on Pond Hill Road and Hamlin Avenue was also finished in October.

Engineering Studies Regarding Ulbrich Dam. This QBS effort has progressed to the point that the Division has tentatively identified an apparent preferred respondent, but as negotiations are not yet completed this firm's identity remains confidential. This effort may be completed and work begun by approximately December 1.

The annual water main flushing program finished in Zones 6,7, and 8 and has moved on to Zone 9.

Personnel

A vacancy for a Maintainer II on the Distribution Crew was approved, and was posted on July 24. The posting closed on August 25. The screening exam for this position is scheduled for November 10, 2020.

Interviews of candidates to replace the retiring Water and Sewer Divisions Business Manager (Office Manager) have been conducted, and results are being tabulated and reviewed.

Water Division Metrics

Water production for June totaled 107.2-million gallons, an increase of 8.5% from September 2019.

Reservoir storage at month's end was at 71.7% of total effective impoundment. The historical average for October is 77.7%.

Precipitation for the month totaled 5.12 inches, which is 0.95 inches above the historical average for October. Calendar year to date, precipitation is eight (8) inches, or approximately 20%, below average.

SEWER DIVISION

Sewer Division staff responded to and resolved a total of five (5) WWTP alarms, collection system trouble calls and vehicle issues during June.

Durham Road sewer main replacement – Division engineering staff continue to work on developing the plans and specifications for this project.

WPCF Upgrades Project

Staff will next provide a written update of the status of this effort for the PUC meeting on October 20.

During September, the collection system staff televised nearly 10,600 feet of sewer main, and flushed 400 feet.

Staff performed 56 manhole inspections during September.

Personnel

The vacant Assistant Sewer Superintendent position will be filled by an internal promotion, effective September 13. This has in turn created a vacant Attendant III position. Efforts to address this vacancy have begun.

The Division also began the process to address the impending retirement of an MRT III.

The new Clerk Typist II began work on September 14.

HR and the Division are working to recruit candidates and fill vacancies for an MRT II and a Laborer (in lieu of an Attendant I), as well as an Attendant II. This newer vacancy was created by the promotion of Sean Baia to Attendant III. Interviews of candidates for the Laborer position are scheduled for the first week of November. The screening exam for candidates for the MRT II position are scheduled for November 13.

Wastewater Division Metrics

At the Wastewater Treatment Plant, the average daily flow during September was 3.56-MGD, which is 0.55-MGD less than the average daily flow of September 2019. The 12-month rolling average daily flow remains at 5.2-MGD, which is below the 90% permit threshold of 7.2-MGD.

Average phosphorus concentration was 0.51 mg/L, which was 0.12 mg/L more than October 2019. The current permit level is 0.70 mg/L. Seasonal phosphorus treatment has now ended (effective October 31).

Nitrogen discharge for the month averaged 292 pounds per day. The level for September 2019 was 243 pounds per day, and the permit level is 269 pounds per day. The annual average so far is 390 pounds per day.

Private Side I/I Mitigation Program

During September, correspondence and most inspections remained suspended due to the pandemic. One (1) homeowner-requested inspection was performed. Three (3) previously identified issues were resolved.

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: November 10, 2020

Re: **Monthly Report – October 2020**

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

RETAIL COST OF SERVICE STUDY

- WED has scheduled a kick off meeting with the rate consultant on November 4, 2020.
- The key milestones for the cost of service study are as follows:
 - Projected revenue requirements, by customer class, for fiscal 2021-2022, by December 31, 2020.
 - Draft revised rates by January 29, 2021.
 - Final revised rates by February 26, 2021.

PROJECT UPDATES

Architectural Services RFP

- After consultation with the architect, it was decided the preferred option will be to include the roof evaluation and replacement as one of the phases of the redesign project. No progress to report.

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. No progress to report.

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.
- The easements remain to be finalized prior to completing engineering.
- Transformers will need to be ordered to facilitate this rebuild.

ITEM NO. 4-5
PUC AGENDA 11/17/20

Pad-mount Transformer Inspections

- There are currently 480 three phase pad mount transformers in the system, of which 300 have been inspected to date. The inspections note if there is any visible leaks, tracking, safety, or security issues. The inspections resulted in 74 meeting the criteria for replacement.
- There are currently 712 single phase pad mount transformers in the system, of which 200 have been inspected to date. The inspections resulted in 23 meeting the criteria for replacement.
- In total 97 transformers meet the criteria for replacement, 29 of them are of higher priority.
- WED has worked with purchasing to bid the 29 priority units. A replacement schedule will be developed based on delivery time. We estimate being able to replace 2 units per week.
- Bids are expected early November.

Wallingford Renewable Energy

- The in-service date of 12/31/2020 has not shifted. The contractor has mobilized and construction has started.
- Bi-weekly construction status meetings are ongoing.
- All long lead time material has been received.
- The reclosers have been assembled and are ready for testing.
- Protection settings have been received from PLM.
- The fiber optic cable route survey has been completed and a path has been identified.
- Reclosers will be field installed in November.
- Waiting for fiber optic cable work to start.

CT DOT

- Nothing new to report.

Town Roads

- None at this time.

Personnel

- The meter apprentice position was posted internally. The Human Resources department sent the list of external candidates for WED to review. The Human Resources department is in the process of screening internal candidates and scheduling the exam.
 - External candidates have been interviewed by WED staff.
 - Waiting for HR to send list of internal candidates.
- The Chief Engineer candidate was contacted for a start date after clearing the conditional offer process. He called back and declined the position after receiving a counter offer from his current employer. The position has been reposted.
- The Chief Meterman oral panel was completed and only one candidate was forwarded to WED for consideration. This position has been reposted.
 - Waiting for a list from HR.
- The Energy Conservation Specialist position was posted. The Human Resources department is in the process of screening candidates and scheduling the oral exam.
 - Waiting for HR to schedule the oral panel

ITEM NO. 4-6
PUC AGENDA 11/17/20

- The General Line Foreman position oral exam was conducted by HR on October 23, 2020. WED has scheduled interviews.
- The System Operator position oral exam was conducted by HR on October 23, 2020. WED has scheduled interviews.
- An authorization for employment has been sent to the Human Resources department to fill the System Operator vacancy created by Robert Boehler's plan to retire in early January 2021.
- The Business Office Manager position has been posted.

Statistics/Metrics

- Total system energy input was 42,655 MwHr. This represented an increase of 0.1% when compared to October 2019.
- System peak was recorded at 1500 hours on October 22, at 73.603 MW. This represented a decrease of 17.6% compared to October 2019.
- Service Reliability Indices

ASAI	Average System Availability Index	0.99963
SAIDI	System Average Interruption Duration Index	16.6876 Minutes
SAIFI	System Average Interruption Frequency Index	0.0934
CAIDI	Customer Average Interruption Duration Index	178.7 Minutes

- Total incidents for October were 35 affecting 2373 customers for a total customer hours out of 7068.29 hours.
- A-Base Meters: As of October 31, 2020 82 services have been upgraded, 3 services have been removed, and 210 remain.
- October Services: 32 applications, 7 new installation, 21 service changes, 1 temporary service, and 3 retired.
- October Street Lights: 60 LED conversions, 57 repairs. To date 2911 LED's have been installed and 1724 HPS's remain.
- There were 5 pole replacements and 0 new poles installed in October.
- There were 4 pole top transformers replaced and 1 new transformer installation in October.

Energy Conservation Residential

- There were 19 HES visits to residences in October.
- There were 10 heating and cooling rebates paid in October in the amount of \$4,250.
- There were 3 attic insulation rebates paid in October in the amount of \$2,672.
- There was 1 heat pump water heater rebate paid in October in the amount of \$500.

ITEM NO. 4-7
PUC AGENDA 11/17/20

Commercial & Industrial

- There was 1 lighting retrofit project completed in October resulting in \$12,563 in incentives paid.



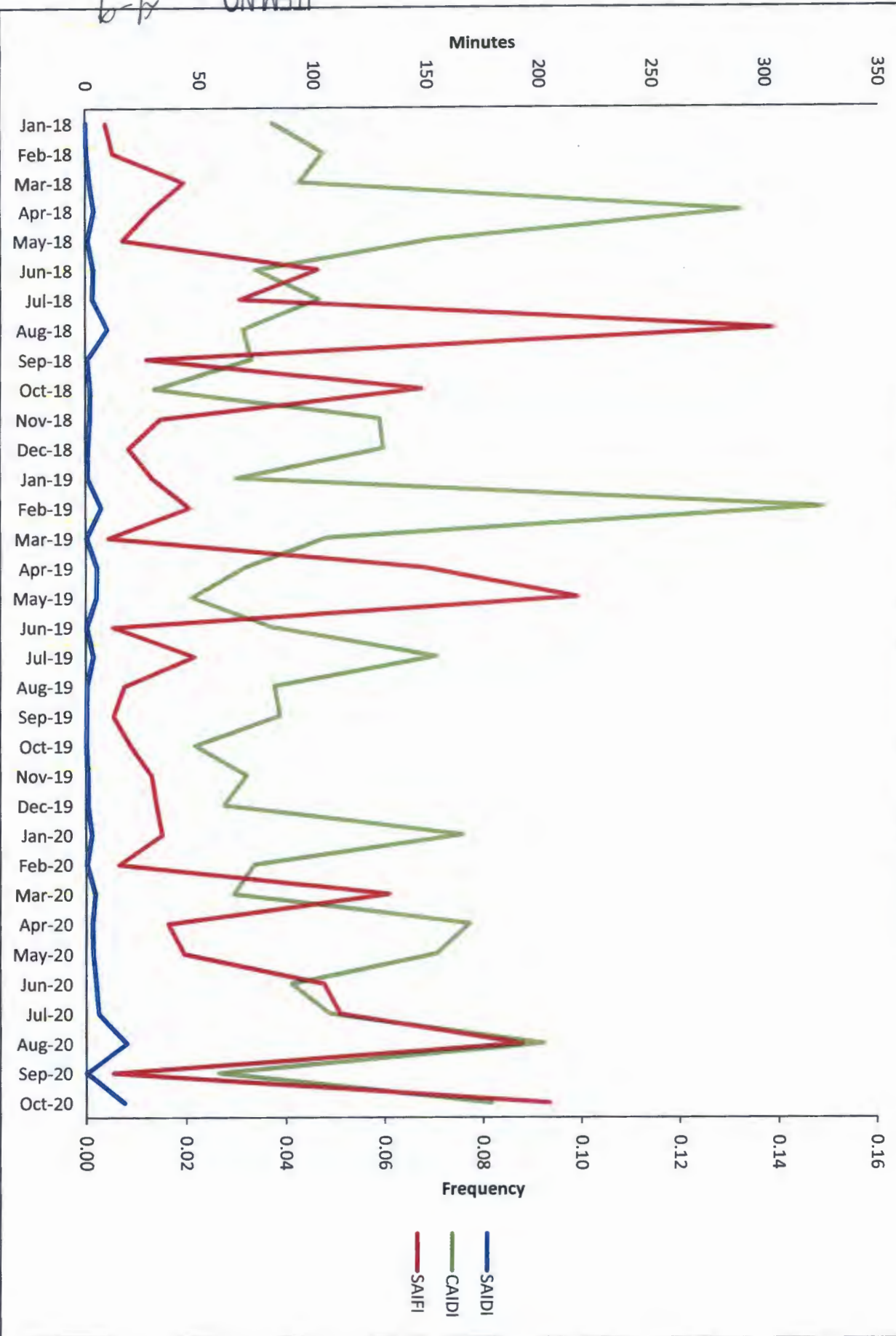
Tony Buccheri, General Manager-Electric

TB/mhl

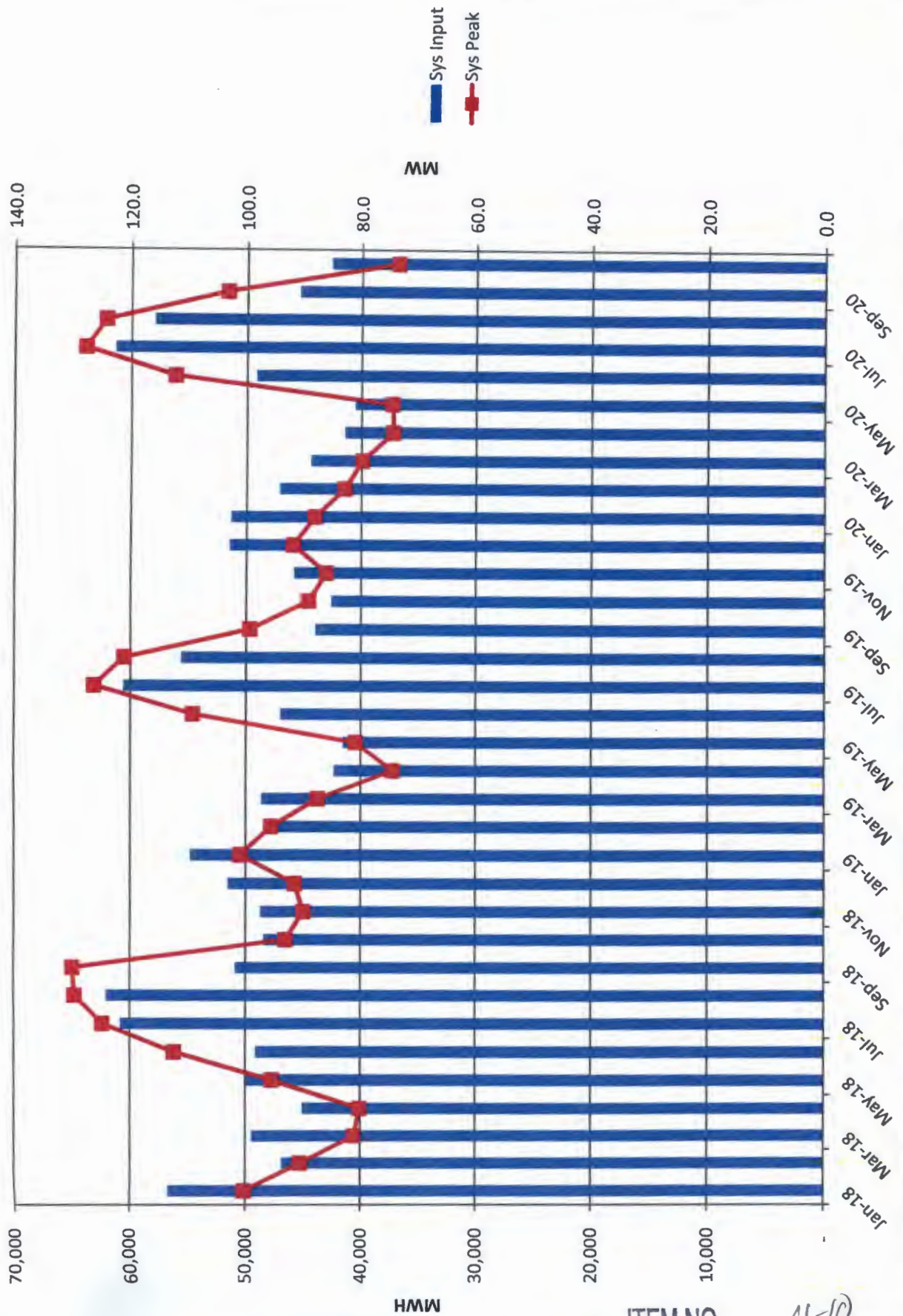
Enclosures

ITEM NO. 4-8
PUC AGENDA 1/17/20

WED Reliability Data (excluding storms)



Sys Input & Sys Peak



ITEM NO. 4-10

PUC AGENDA 11/17/20

HEDGING RESULTS DISCUSSION

This memorandum summarizes the actual results for September 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.

a	Forecast Load MWH on 1/15/20	46,551
b	Actual Load MWH	43,471
c	Load Forecast Accuracy %	-6.6%
d	Total Energy Cost Ave \$/MWH	\$ 38.48
e	1/15/20 Projected Total Energy Cost Ave \$/MWH	\$ 39.11
<u>Metric 1</u>		
	DA Net Forecast Deviation % (Absolute Value)	3.58%
1.a	MWH Purchased in Real Time (DA forecast < Actual Load)	466
1.b	DA Net Forecast Deviation (of Total Load)	1.1%
1.c	MWH Sold in Real Time (DA Forecast > Actual Load)	(1,112)
1.d	DA Net Forecast Deviation (of Total Load)	-2.6%
<u>Metric 2</u>		
2.a	% Hedged (Total Resources/Load)	95.0%
2.b	% Hedged Forecasted (Forecasted Resources/Forecasted Load) on 8/15/20	90.4%
2.c	Average Energy Cost of Hedged Load (includes NYPA Capacity & Transmission)	\$ 40.04
<u>Metric 3</u>		
3.a	Cost of Hourly Short Position (\$/MWH)	\$ 24.71
3.b	MWH	2,833
3.c	Cost (Short MW * DA LMP @ HUB)	\$ 70,008.07
<u>Metric 4</u>		
4.a	Basis \$/MWH for Resources purchased at HUB/Roseton node	\$ (1.03)
4.b	Total Energy Purchased MWH	32,109.45
4.c	Locational Spread Cost (+) /Benefit (-)	\$ (32,975.20)
<u>Metric 5:</u>		
5.a	Value of Hourly Long Position (\$/MWH)	\$ (20.36)
5.b	MWH	(651.19)
5.c	Cost (-)/Benefit (+) (Long MW *(Ave Purchase \$ - DA LMP @ HUB))	\$ (13,255.43)

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.

ITEM NO. 4-11
 PUC AGENDA 11/17/20

Actual versus Projected Total Energy Cost

Actual load came in 6.6 % less than the monthly projection from January 15, 2020. Actual average of the total energy cost per MWH was 1.6% less than projected total Energy cost from the January 15, 2020 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 83.61% and 105.61%. The forecasted hedged position from August 15, 2020 monthly projection was 90.4%.

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 warmer 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 3.58% error rate for the month. This resulted in 646.19 MWH of WED's load being sold in the real-time market.

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

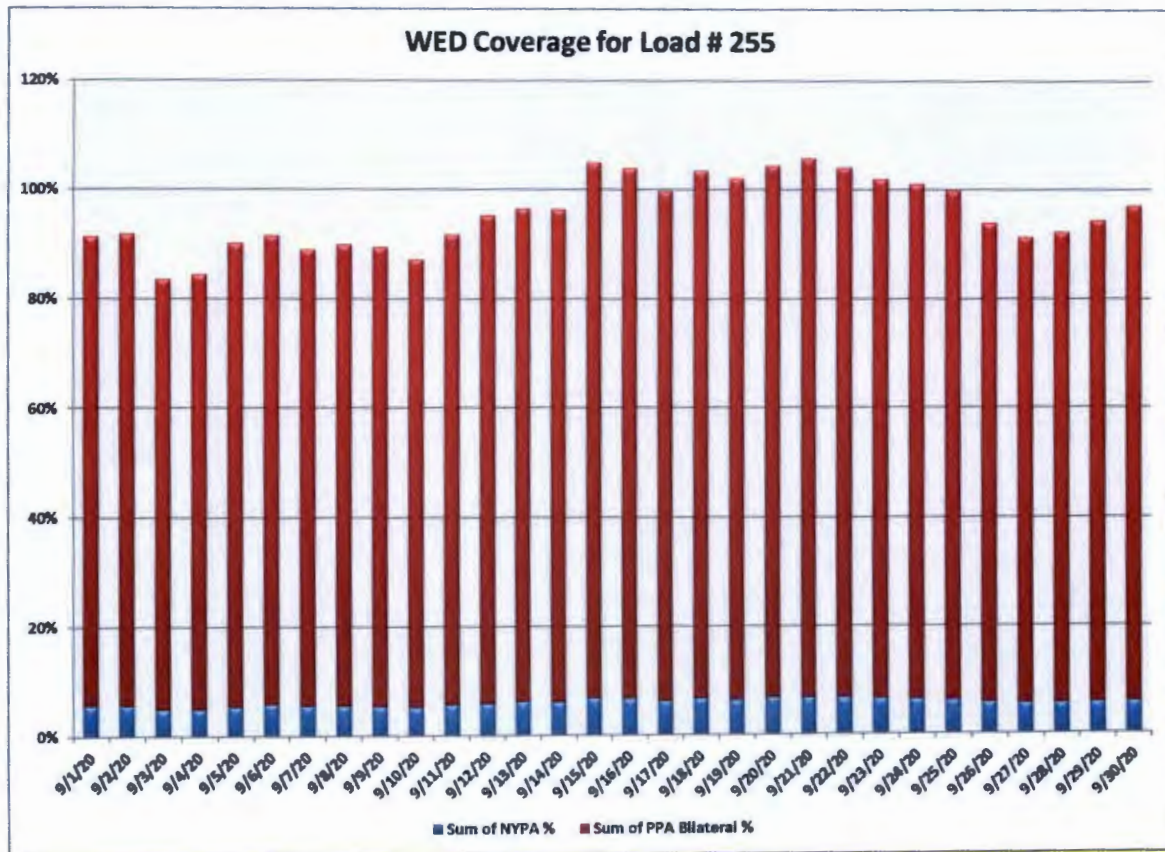


Figure 1 WED daily hedged percentages

Figure 1 illustrates WED's daily coverage throughout the month. warmer 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 \$1.05 and \$2.35/MMBTU. The Day-Ahead On-peak Hub LMP for the month averaged \$24.80/MWH, and Day-Ahead Off-peak Hub LMP averaged \$16.67/MWH. MA Hub Max for the month was \$50.29/MWH.

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

Page 4

ITEM NO. 4-13
PUC AGENDA 11/17/20

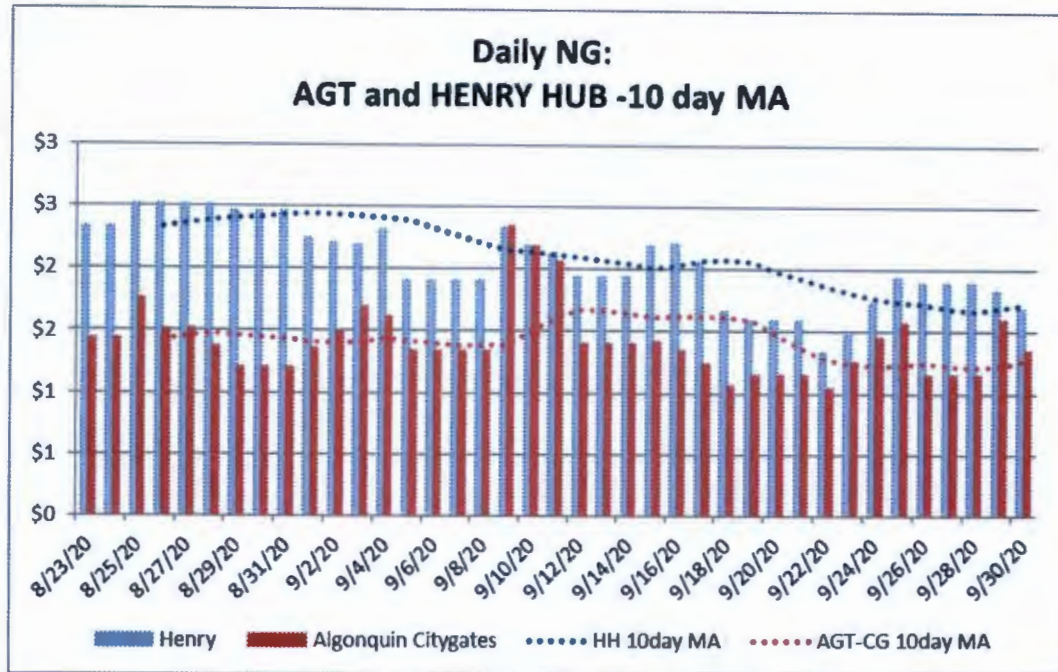


Figure 2 Daily and 10 day moving average Henry Hub and Algonquin Gas City Gate Prices

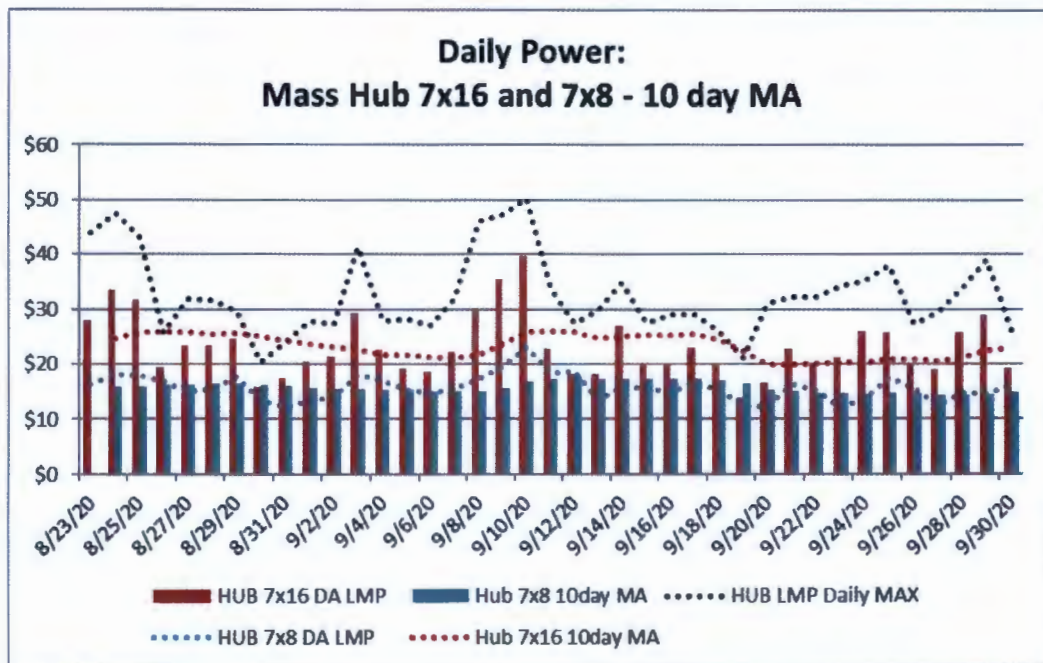


Figure 3 Daily and 10-day moving average HE 1-7, 24 and HE 8-23 MA Hub LMP

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

Page 5

ITEM NO.

4-14

PUC AGENDA

11/17/20

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.

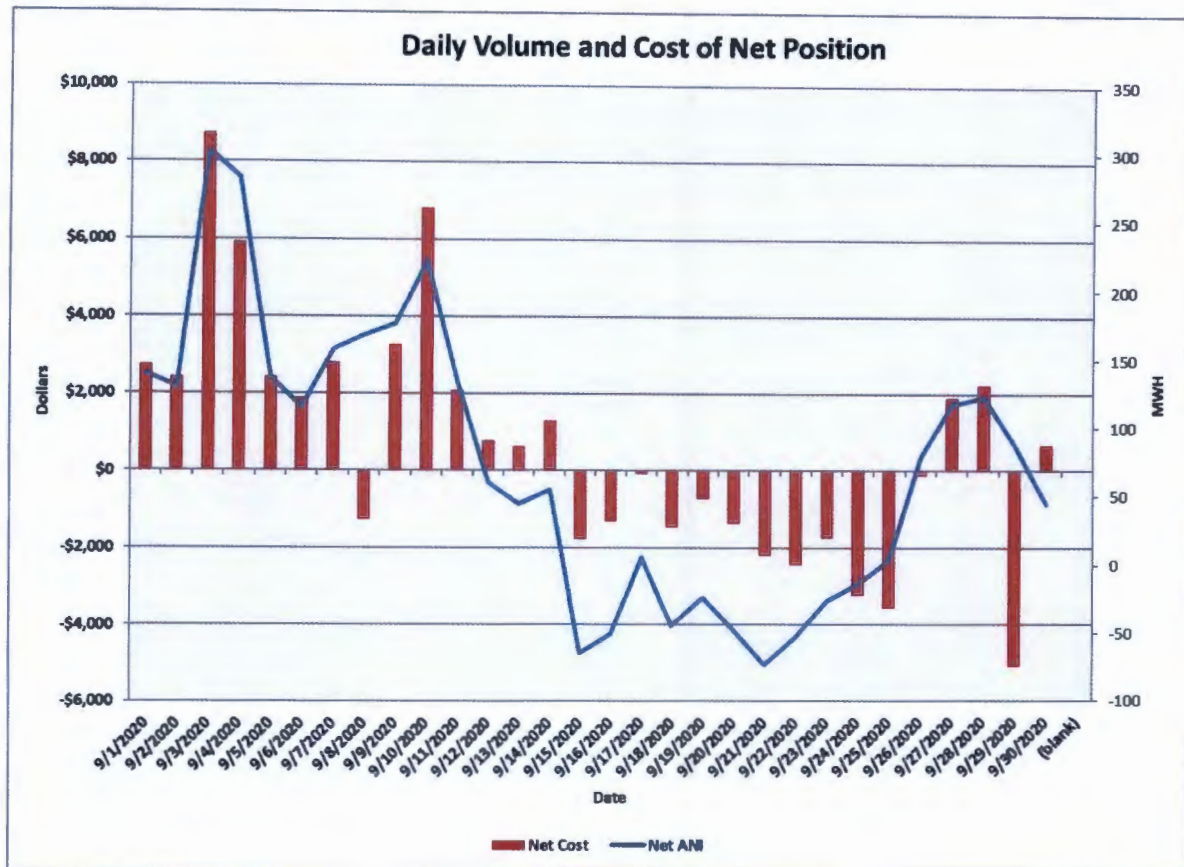


Figure 4 Daily cost of WED open position

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

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 \$32,975.20. 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 (Cost) Benefit	\$/MWH Spread
Sep-20	4004	Load	(43,471.00)	\$ (886,746.97)	\$ 20.40		
	4000	MASS HUB	29,538.92	\$ 629,257.78	\$ 21.30	\$ 34,324.45	\$ 1.16
	4004	CT	9,179.86	\$ 185,994.22	\$ 20.26		
	4011	NYPA	2,570.54	\$ 51,120.36	\$ 19.89	\$ (1,349.25)	\$ (0.52)
	RT Marg Loss/External Dist			\$ 339.94			
Totals			(2,181.69)	\$ (20,034.67)	\$ 9.18	\$ 32,975.20	\$ 1.03
May res	Meter Reading Resettlement			\$ 695.74			
	CMEEC Resettlement			(414.61)			
Totals			(2,181.69)	\$ (19,753.54)	\$ 9.05		

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 did not run this month. 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 MWHs 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 Director of Public Utilities

FROM: Craig Kieny, Energy Initiatives, Inc.

DATE: November 9, 2020

RE: **WHOLESALE POWER SUPPLY SUMMARY**

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

Executive Summary

- September actual load was 6.6% below budget.
- Total Wholesale Power Costs for September were \$94.05/MWh; 2.3% higher than the 2020/2021 budget projection of \$91.98/MWh.
- September load was 95.0% hedged, compared to the August 2020 forecasted hedge percentage of 90.4%.
- Total Energy costs for September were \$38.48/MWh; 1.6% less than the budgeted value of \$39.11/MWh.
- Basis credits totaled \$32,975 (\$1.03/MWh) for the 32,109 MWh of hedges purchased at the Hub and Roseton.
- The Pierce project resulted in a net benefit of \$8,274, or \$0.19/MWh of the WED's total load net of NuCor's market-priced load.
- No procurements were conducted since the last report.

September 2020 Wholesale Power Costs

The overall load forecasting error for September was 6.6% (actual load was 6.6% 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 September were \$94.05/MWh. This is 2.3% higher than the 2020/2021 budget (ENE 1/15/20 forecast) of \$91.98/MWh. Per-unit costs were higher than budget due to higher-than-budgeted capacity expenses and less load to allocate fixed costs over. NEPOOL OATT/ISO Tariff expenses were approximately \$21,610 over budget due to a higher billing rate than budgeted and LNS charges were approximately \$20,016 under budget due to lower rates for service from Eversource and UI. Forward Capacity Market charges were approximately \$34,417 over budget due to a higher than budgeted per unit charge to load serving entities.

95.0% of WED's load was hedged, compared to the projected hedged level of 90.4% in the 8/17/2020 3-year Forecast prepared by ENE.

As noted in ENE's *Hedging Results Discussion*, the WED's overall average cost for Energy in September was approximately \$38.48/MWh, 1.6% less than the budgeted Energy cost of \$39.11/MWh. This figure includes the following:

- WED hedges purchased from Exelon, NextEra, NYPA, and Shell which averaged \$40.04/MWh.
- Purchases at spot market prices for unhedged volume. In hours in which it was short energy, the WED purchased 2,833 MWh through the spot market at a weighted-average price of \$24.71/MWh, for a total cost of \$70,008. This is a decrease of \$43,412, or 38.3%, 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 651 MWh at an average price that was \$20.36/MWh less than its weighted-average hedge price in those same hours, for a total "loss" of \$13,255. 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 \$24.80/MWh, while the off-peak LMP averaged \$16.67/MWh. DAM spot market prices ranged from \$9.94/MWh to \$50.29/MWh.
- Basis (difference in spot market prices between the source of the energy and the CT Load Zone) credits and charges consisted of a credit of \$34,324 (\$1.16/MWh) for 29,539 MWh delivered to the MA Hub plus a charge of \$1,349 (\$0.52/MWh) for 2,571 MWh of NYPA energy delivered to the Roseton Interconnection between New York and New England, for a net credit to the WED of \$32,975 (\$1.03/MWh) for 32,109 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 3.58%, resulting in 466 MWh purchased and 1,112 MWh sold in the Real Time Market (the intent is for 100% of the WED's load to clear in the DAM; 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 October 2020

September participation in the Pierce project resulted in a net benefit of \$10,274 (recall that the benefits/costs are distributed on a one-month lag) prior to accounting for A&G costs.

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 Pierce, were as follows:

CMEEC Admin and General Cost Item	Monthly Charge
A&G Charge for Energy Contracts	\$695
Allocation of Pierce Ownership Interest	\$2,000
Total	\$2,695

These two amounts result in a net benefit of \$7,579. Net benefit associated with Pierce were \$8,274, or \$0.19/MWh of WED's total load for the month net of NuCor.

Recent and Pending Transactions

No procurements were conducted since the last report.

WED's annual minimum and maximum hedge percentages for Q4 2020 along with its hedge percentage are shown in the table below:

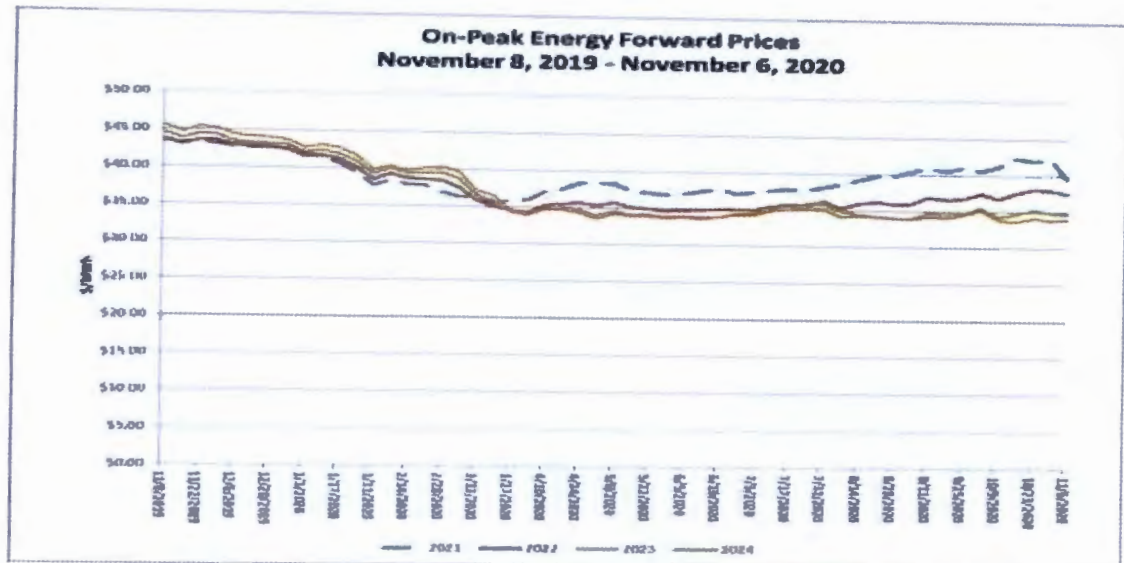
Year	Min Hedge % per Hedging Policy	Hedge % After Procurement	Max Hedge % per Hedging Policy
2020	80%	92%	100%
2021	70%	90%	100%
2022	50%	80%	90%
2023	30%	60%	70%
2024	10%	35%	50%

WED is not required to make another purchase to meet the minimum hedge level per the Hedging Policy until Q3 2021 by which point it will be required to make a minimum purchase of 5% for 2025. By the end of Q1 2022 WED is required to purchase at least 5% of 2024 and another 10% of 2025 annual energy needs. WED will also be required to make a purchase of at least 10% of 2023 annual energy needs by the end of Q3 2022. WED is not required to make any additional purchases for 2021 and 2022.

With respect to the maximum hedge levels allowed per the Hedging Policy, WED can make a purchase of up to 10% of 2021 annual energy requirement in Q4 2020; however, WED is already at its self-imposed limit of 90%, so additional purchases for 2021 are not likely. In Q4 2020, WED can also make a purchase of up to 10% of 2022 and 2023, and 15% of 2024 annual energy needs.

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 November 8, 2019-November 6, 2020.



Forward energy prices for each year were fairly steady in October, but have decreased in the first week of November due to warm weather, with winter 2021 prices dropping the sharpest. Even with the sharp drop, 2021 remains the most expensive year, followed by 2022, 2023 and 2024. 2021 annual prices are now approximately \$4.00/MWh less expensive than 2020 was trading for at the same point in 2019. Recall that the WED is already at the self-imposed hedge level of 90% for each of 2020 and 2021, but does have room for purchases in each of 2022-2024.

Wholesale Power Market Developments

1. Pierce Generation - September – The unit was not dispatched by ISO New England nor were there any test runs for the month. As a result, there was no generation for the month.

WED experienced a net benefit from the unit of \$10,274 (not including A&G), which was \$2,889 below budget. The deviation is mainly due to lower Non-Fuel Variable O&M expenses that were offset by even lower energy market revenues and Forward Reserve Market Revenues (due to a lower Summer 2020 Auction clearing price) than assumed in the budget.

2. The Grid of The Future – As mentioned in previous reports, ISO-NE has initiated a stakeholder process to discuss the “Grid of the Future”, which will need to be able to host:
 - a. More load as fossil-fuel end uses are converted to electrification; and
 - b. Sufficient renewable resources to meet the renewable energy and emission reduction goals of the various states in New England; while
 - c. Maintaining appropriate levels of reliability.

On October 16, 2020, the New England States Committee on Electricity (A.K.A. NESCOE), issued a letter titled “New England States’ Vision for Clean Affordable and Reliable 21st Century Regional Electric Grid”. The letter outlines the states’ vision for Wholesale Electricity Market Design, Transmission System Planning and Governance of ISO New England, it sees as required to meet the states’ various emissions goals.

The vision requires significant changes to the wholesale markets and governance, all of which would need to be approved by the FERC, and much of which goes against FERC's historic positions on competitive markets.

The letter is available by clicking on this link: <http://nescoe.com/resource-center/vision-stmt-oct2020/>

3. COVID-19 Load Impact – October – Total energy consumption for WED customers, net of the NuCor load that is served at market prices, was 40,708 MWh in October 2020. This is 0.8% lower than October 2019 on a non-weather-adjusted basis, but with one less weekday and one more weekend day in 2020 than in 2019. October 2020 was similar to October 2019 from a Heating Degree Day (HDD) and Cooling Degree Days (CDD) perspective, with 294 HDD and 7 CDD in 2020 compared to 296 HDD and 14 CDD in 2019.

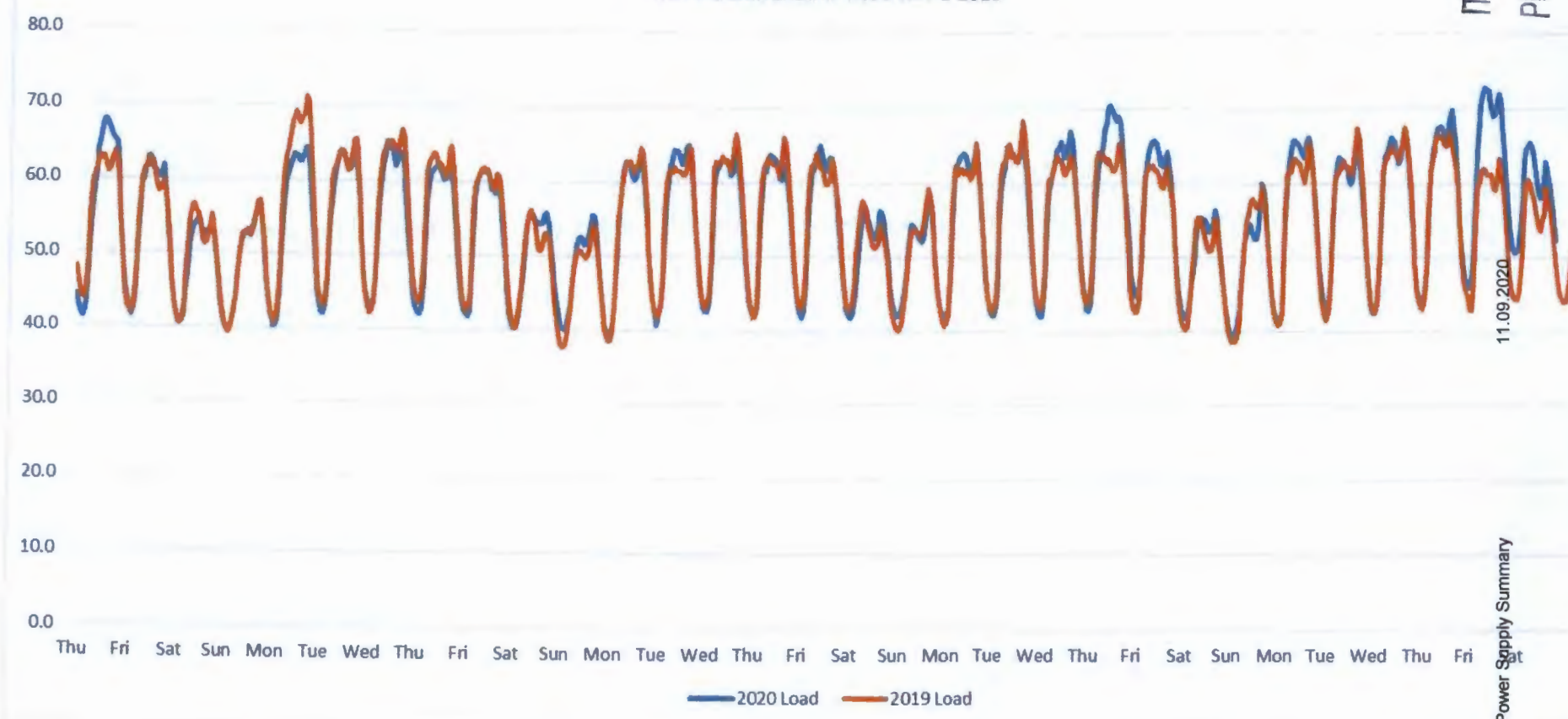
Comparing October 1-31, 2020 to October 3-November 2, 2019, to line up days of the week, 2020 loads were 0.4% higher than 2019. A casual comparison of loads on days with similar temperature profiles and the same day of the week continues to suggest that loads are almost back to those in 2019 with little impact from the COVID-19.

A plot of hourly loads for 2020 vs 2019 is provided below:



Digitally signed by Craig Kieny
Date: 2020.11.09 11:32:19 -05'00'

2020 vs 2019 Hourly Loads
Oct 1-Oct 31 2020 vs Oct 3-Nov 2 2019



WALLINGFORD ELECTRIC DIVISION

SEPTEMBER

PRESENTED ON NOVEMBER 4, 2020

TABLE OF CONTENTS:

Table 1 Wallingford's Monthly Power Cost Actual vs Budget and Demand bidding results	2
Table 2 Wallingford's Portfolio Summary	7

Figure 1 WED daily hedged percentages	4
Figure 2 Daily and 10 day moving average Henry Hub and Algonquin Gas City Gate Prices.....	5
Figure 3 Daily and 10-day moving average HE 1-7, 24 and HE 8-23 MA Hub LMP.....	5
Figure 4 Daily cost of WED open position.....	6

ITEM NO. 4-23

PUC AGENDA 11/17/20

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
SUBJECT: WATER DIVISION GENERAL MANAGER'S REPORT FOR OCTOBER
DATE: NOVEMBER 10, 2020

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

- * Water Main Breaks, Service Leaks and Emergencies
- * There were three water main breaks during the month: one at 1033 North Colony Road (10" D.I.P. installed in 2006); one at 7 Norman Avenue (6" A.C.P. installed in 1951); and one at 2 South Side Court (6" C.I.CL installed in 1965). There were two water service leaks during the month: one at 1 Cooper Avenue (3/4" copper installed in 1951); and one at 19 Wallace Row (3/4" copper installed in 1966).

Project Updates (Engineering Section)

- * Water Main Replacement Contract No. 36R: The contractor has completed the connection of existing water services to the new main on Pond Hill Road and Bonnie Court. The final connection of the new main to the existing mains on Pond Hill Road and Hamlin Avenue was also completed during the month.
- * Replacement of the Underground Fuel Oil Storage Tank (UST) at Pistapaug Pond Treatment Plant: The boilers are still not operational. Contractor will reroute fuel oil piping to eliminate second vertical rise and simplify piping alignment. Contractor is working on preparing a proposal to install a circulating pump if rerouting the fuel lines does not result in successful operation of the boilers.

A 100-gallon day tank has been ordered to replace the existing day tank in the generator enclosure. A change order for piping work, day tank, additional temporary tank rental and contract extension to January 31, 2021 has been issued.

- * Stand-by Generators at Well No. 1 and at Well Nos. 2 and 3: Contractor has begun installation of the back board and electrical gear at Well No. 3. Work is scheduled to connect power from Well No. 2 to Well No. 3 in the first week of November.

Still waiting for supporting documentation from the Contractor needed to issue change order for various items of work.

ITEM NO. 4-101
PLC AGENDA 11/17/20

Operations, Maintenance and Water Quality

- * Center Street (Route 150) Bridge Replacement: Crews worked to locate, check and repair approximately ten water valve boxes affected by this construction. Division crews vacuumed out each of the valve boxes within the work zone, since they had become full of dirt and debris. Two valve boxes required replacement by the contractor.

Division crews then worked with the contractor during paving operations to ensure that all water valve boxes were at the correct grade. Remaining work will include the installation of valve boxes for the two air relief valves located in the grass on the northwest side of the bridge. All work for this project is now substantially complete.

- * Roadway Paving Projects: Crews have been working during the month to locate, repair and adjust valve boxes for paving projects by the Department of Public Works. The Contractor has completed paving the roadway at the following locations: Riverside Drive, Huntington Ridge Road, Wheatfield Drive, Fourth Ridge Road, Fifth Ridge Road, Fritz Place and Barnes Industrial Road South. All paving work is now complete.
- * Water Main Flushing Program: Division crews continued flushing of the distribution system. Flushing of Zones 6, 7 and 8 have been completed. The Unidirectional Flushing Program was implemented in Zone 8, and crews are now implementing this plan in Zone 9.

Five valve boxes were repaired and three hydrants were repaired during the month. One hydrant cannot be repaired and is scheduled for replacement. This new program includes operation of gate valves within the distribution system to ensure that flow within the water main being flushed is from one direction only. Work will continue until the entire distribution system is flushed, or as supply and weather permit.

- * The Water Quality Inspectors responded to one telephone request for information regarding the sodium notice provided with the bill insert. A thorough explanation was provided to the customer and his request was satisfactorily resolved.

The Water Quality Inspectors administered the Cross Connection Control Program with:

- 33 cross connection surveys, one of which was for corrected violations and;
 - 49 cross connection device tests.
- * Engineering Section staff responded to 350 Call Before You Dig (CBYD) tickets (requests) during the month compared to 383 CBYD tickets in October 2019. Through the end of the month, staff has responded to 2,978 CBYD tickets this calendar year.

ITEM NO. 4-102
PUC AGENDA 11/17/20

Personnel

- * An Authorization for Employment for Maintainer II – Distribution Crew was transmitted to the Human Resources Department on June 23, 2020. This position was posted on July 24, 2020 with a closing date of August 25, 2020. The merit exam has been scheduled for November 10, 2020.
- * Office Manager (Business Manager): Interviews for the Water and Sewer Divisions Business Manager position were conducted.
- * There are two 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.

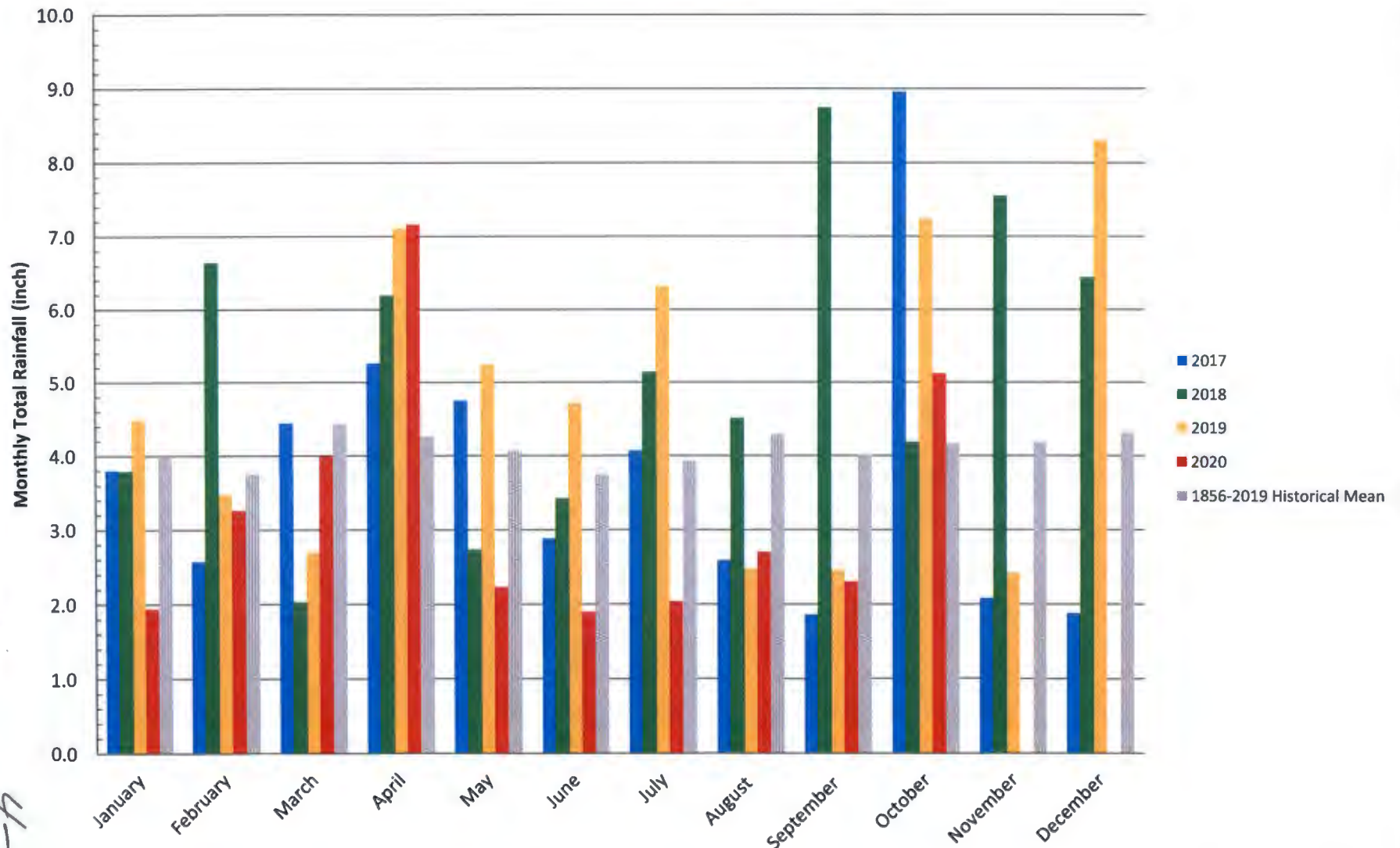
Statistics and Metrics

- * Precipitation for the month was 5.12 inches, 0.95 inches above the historic mean of 4.17 inches for October. For the first ten months of the calendar year precipitation is 7.99 inches less than the average (32.65 inches versus 40.64 inches). Please note precipitation chart included with this memorandum; specifically the variances from the historical mean for each month.
- * Effective reservoir storage at the end of the month stood at 71.7% (1,377.5 MG) of total effective impoundment (full 1,921.0 MG), versus the historical average of 77.7% for October (a difference of 116.0 MG). This represents approximately 398 days of supply remaining at 3.46 MG average per day drawn from the surface water reservoirs. The reservoir levels are in the Normal range.
- * Water production for the month was 107.240 million gallons (3.46 MG average per day), an increase of 8.48% compared to October, 2019. Water production for August, September and October 2020 have all been greater than water production in August, September and October 2019.

X:\Public Utilities Commission (PUC)\General Manager's Reports\Water Division General Manager's Report October.docx

ITEM NO. 4-103
PUC AGENDA 11/12/20

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



PUC AGENDA

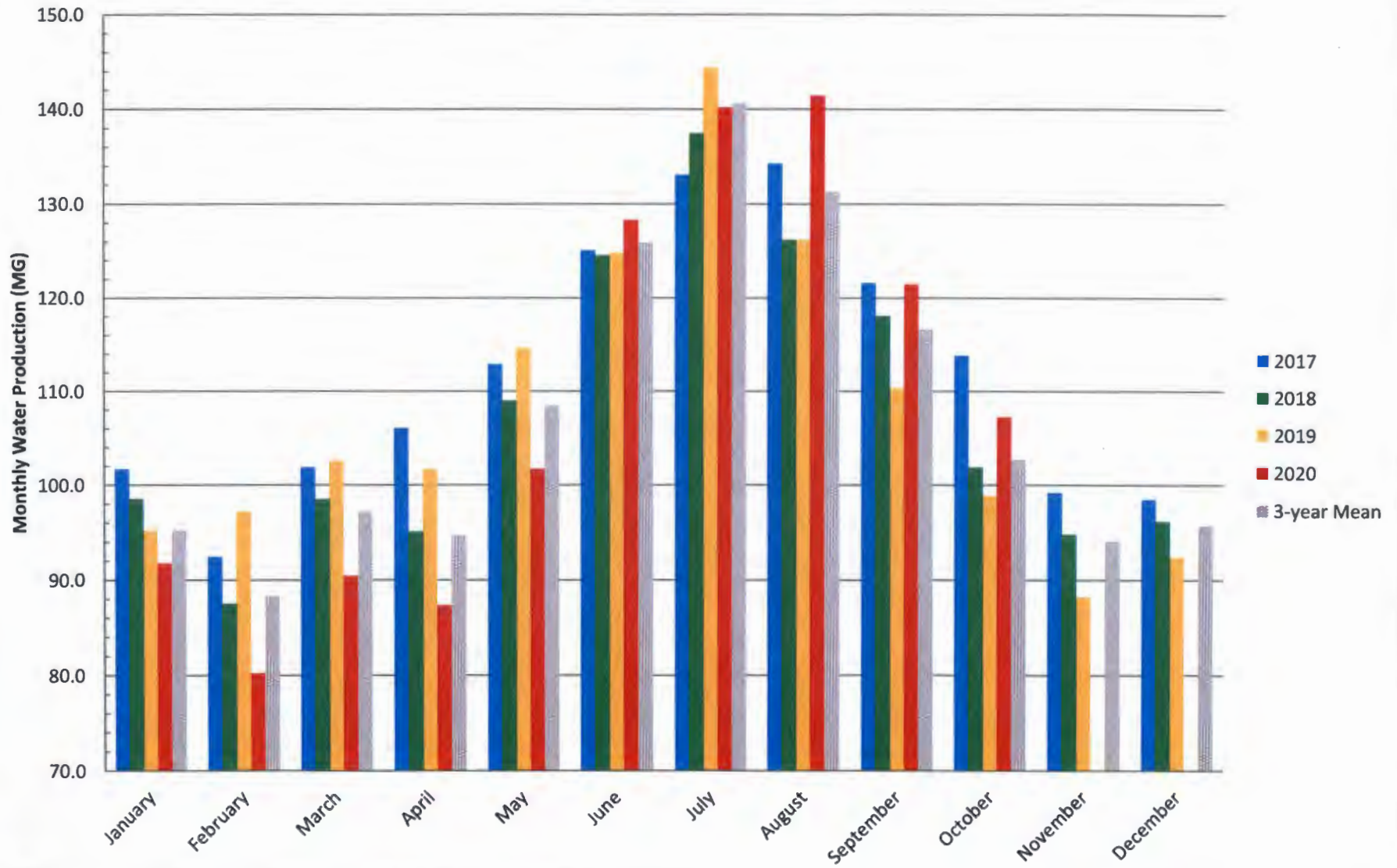
11/17/20
4-109

Total Monthly Water Production

CY 2017 - 2020

Water Division

Department of Public Utilities



ITEM NO. 4-105
PUC AGENDA 11/17/20

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
SUBJECT: SEWER DIVISION GENERAL MANAGER'S REPORT FOR OCTOBER
DATE: NOVEMBER 10, 2020

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

Alarms, Trouble Calls and Emergencies

- * The Sewer Division responded to five alarms and trouble calls during the month including a power interruption at the WPCF (reset equipment), an odor report along the Wallace Avenue right-of-way (nothing found), a moisture sensor failure at the Farm Hill PS (drained and changed the oil), and an WED bucket truck issue (no issues found).
- * Project Updates (Engineering Section)
- * Inflow and Infiltration Removal Program: Correspondence and inspections were suspended due to the COVID-19 pandemic. One inspection was requested by a homeowner to address a sump pump connected to the sanitary sewer system. Also three issues were corrected: two sump pumps and a rain leader that were connected to the sanitary sewer system.
- * Durham Road Sewer Main Replacement: Engineering staff continue to develop plans and specifications for the project.

Operations and Maintenance

- * Collection system staff continued preventive maintenance of the system with 10,581 feet of sewers televised and with 400 feet of sewers flushed during the month. Through October, 13.91 miles of sewers have been televised (7.00% of the system) and 1.02 miles of sewers have been flushed (0.51% of the system) in 2020. For reference, the gravity collection system is approximately 198.6 miles total.
- * Sewer Division staff performed 56 manhole inspections during the month.

Personnel

- * Laborer position: Interviews were candidates for the Laborer position were initiated, with additional interviews conducted the first week of November, 2020.
- * An Authorization for Employment form was initiated on August 11, 2020 for a

ITEM NO. 4-106
PUC AGENDA 11/17/20

Maintenance Repair Technician (MRT) II position due to the retirement of Joseph Voytek. The posting closed on September 15th, with the merit exam scheduled for November 13, 2020.

- * An Authorization for Employee form was initiated for the Attendant III position on September 2nd due to the promotion of Carey Strout from Attendant III to Assistant Sewer Superintendent. The Attendant III position was posted internally only on September 10, 2020 and closed on September 21st. The merit exam took place on Tuesday October 13th. Sean Baia was promoted from Attendant II to Attendant III effective October 25, 2020.

Statistics and Metrics

- * Recorded influent flow to the wastewater treatment plant was 110.36 million gallons for the month, a decrease in flow of approximately 13.32% compared to October, 2019 (a decrease of 16.96 MG for the month or 0.55 MG per day average). This represents an average daily flow of 3.56 mgd for the month. The 12-month rolling average through October, 2020 is equal to 5.15 MGD, below the 90% permit threshold of 7.2 MGD.
- * Seasonal phosphorus average discharge concentration was 0.51 mg/L (equal to 15.23 pounds per day) which is 0.12 mg/L more than October 2019 (93.4% treatment efficiency with an influent phosphorus level of 202 pounds per day). The current permit limit is 0.70 mg/L. Please note that the phosphorus treatment season ended October 31st.
- * At the wastewater treatment plant, nitrogen discharge levels averaged 292 pounds per day for the month (78.2% treatment efficiency with an influent nitrogen level of 1,340 pounds per day), versus a discharge of 243 pounds per day in October, 2019. This quantity is approximately 23 pounds over the current year's permit level of 269 pounds per day. The annualized average is 390 pounds per day to date.
- * Synagro transported 49.33 dry tons of biosolids for disposal during the month.
- * The WPCF received 17,000 gallons of septage for the month.
- * The Maintenance Repair Technicians (MRTs) serviced 29 Department of Public Utilities vehicles in October, including thirteen Electric Division vehicles (48% of time spent), eight Water Division vehicles (32% of time spent), and seven Sewer Division vehicles (19% of time spent).

X:\Public Utilities Commission (PUC)\General Manager's Reports\Sewer Division General Manager's Report October.docx

ITEM NO. 4-107
PUC AGENDA 11/17/20

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

1.0 Correspondence	Current Month	CY to Date
1.1 Flyers (Minished)		194
1.2 Postcards (Minished Follow-up)		148
1.3 Letters		61
1.3.1 Ownership Change		52
1.3.2 Building Permit Greater than \$25,000		8
1.3.3 Lateral Re-use		
1.3.4 Water Meter Replacement		1
1.3.5 Specific Information		
Correspondence Total	0	464

2.0 Initial Inspections Completed	Current Month	CY to Date
2.1 Residential	1	111
2.2 Commercial, Institutional, Etc.		12
2.3 Dye Tests		2
Completed Inspections Total	1	123

3.0 Issues Identified	Current Month	CY to Date
3.1 <i>No Issues Found</i>		97
3.2 Sump Pump	1	12
3.3 Rain Leaders (Downspouts)		2
3.4 Interior Floor Drains		2
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	1	17

4.0 Issues Corrected	Current Month	CY to Date
4.1 Sump Pump	2	11
4.2 Rain Leaders (Downspouts)	1	1
4.3 Interior Floor Drains		2
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	3	15

5.0 Inflow Removed and Costs Avoided	Current Month	CY to Date
5.1 Inflow Gallons Removed per Year	108,761	557,402
5.2 Annual WWTP Costs Avoided	\$550.33	\$2,820.45
5.3 20-year Planning WWTP Costs Avoided	\$10,738.19	\$55,033.21

6.0 Reimbursement to Property Owners	Current Month	CY to Date
6.1 In Evaluation	\$0.00	\$59,166.78
6.2 Approved for Payment	\$0.00	\$18,084.02
6.3 Payments Made	\$0.00	\$14,898.02

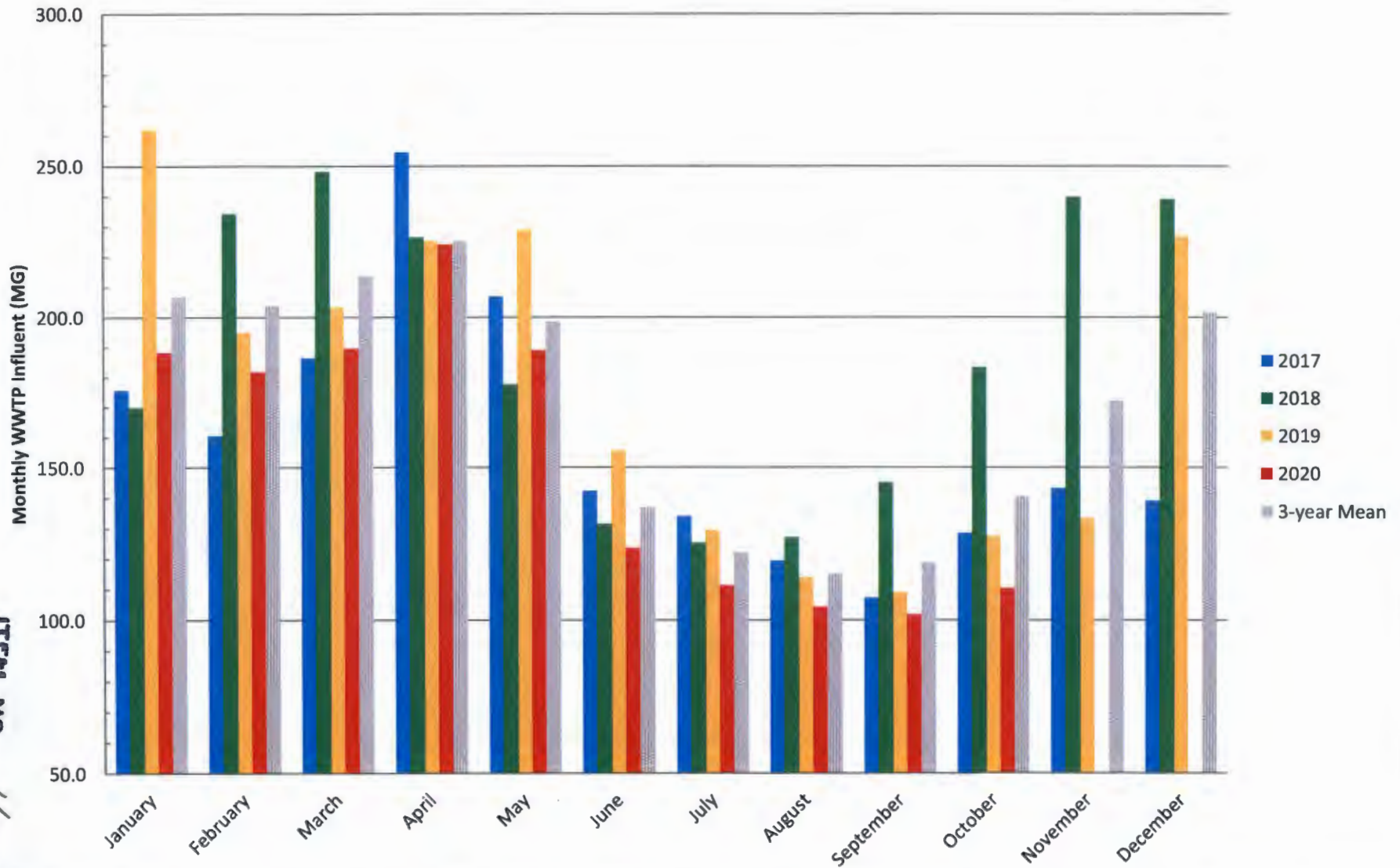
ITEM NO. 4-108
 PUC AGENDA 11/17/20

Total Monthly WWTP Influent Quantity

CY 2017 - 2020

Sewer Division

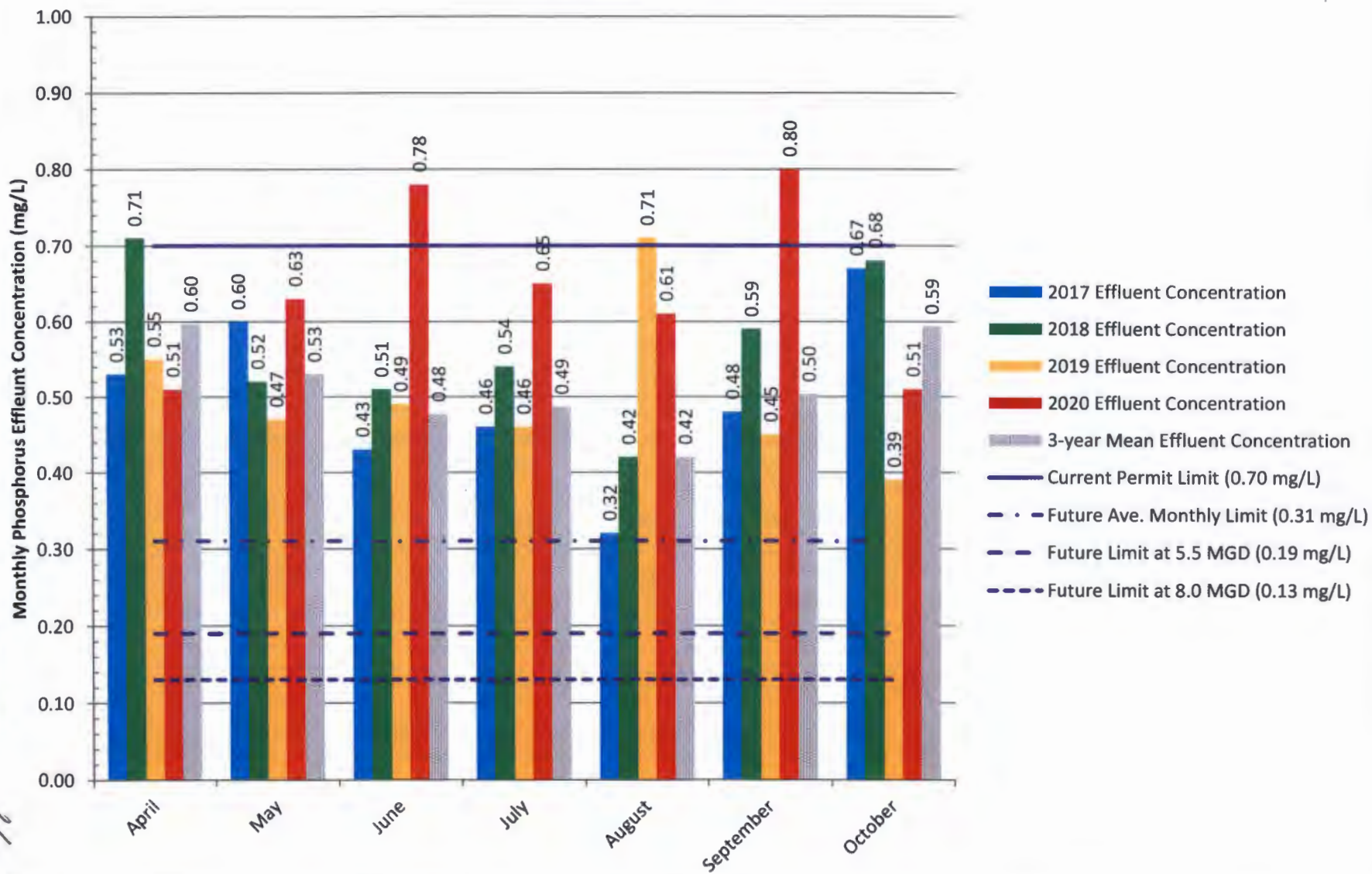
Department of Public Utilities



ITEM NO. 4-109
PUC AGENDA 11/17/20

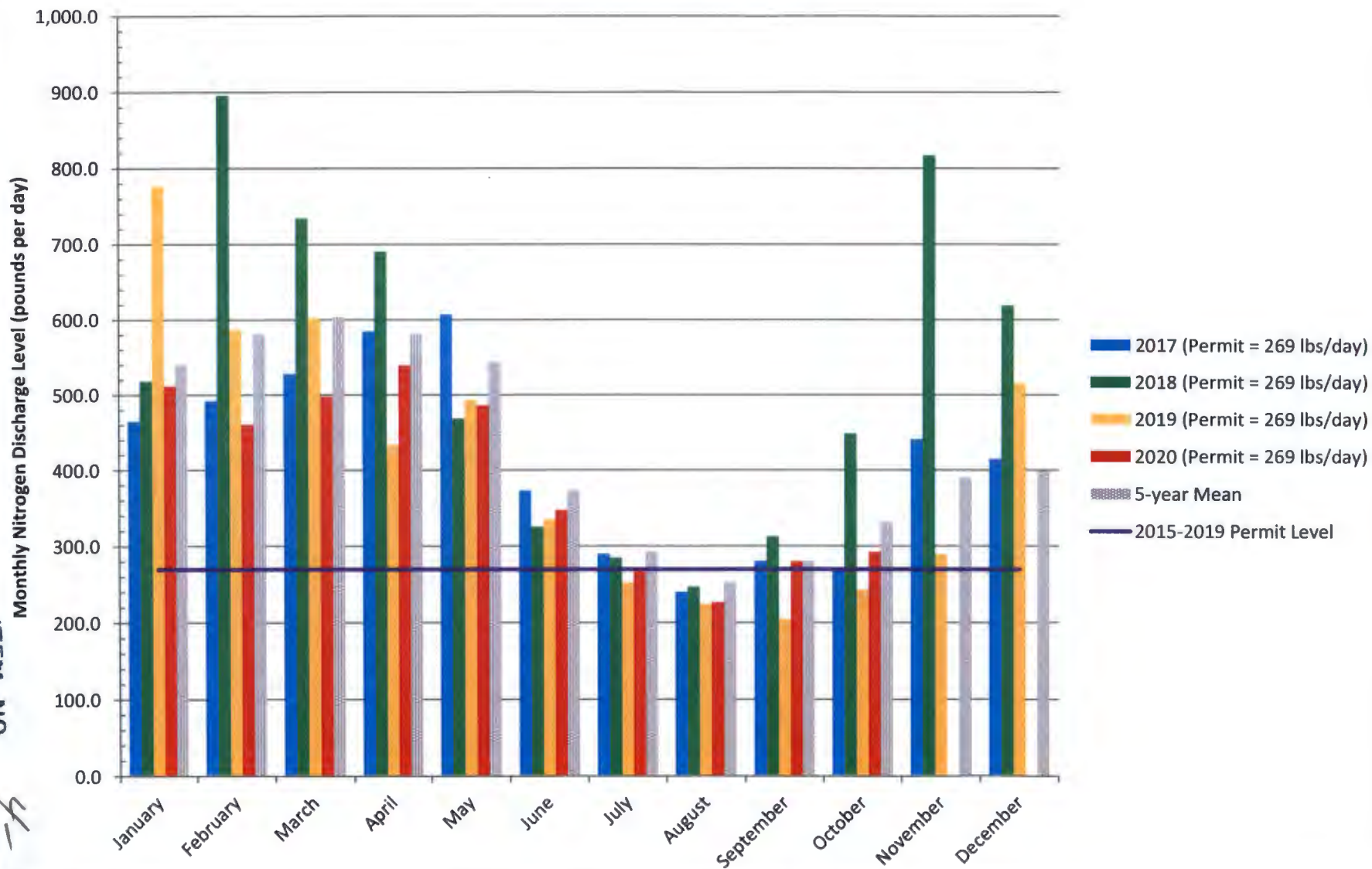
Monthly Seasonal Phosphorus Effluent Concentration 2017 - 2020

Sewer Division
Department of Public Utilities



ITEM NO. 4-ND
PUC AGENDA 11/17/20

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



PUC AGENDA
 ITEM NO. 4-111
 11/17/20

DRAFT

MEMORANDUM

TO: Town Clerk

FROM: Robert N. Beaumont, Chairman – Public Utilities Commission

DATE: November 17, 2020

SUBJECT: 2021 SCHEDULE OF MEETINGS – PUBLIC UTILITIES COMMISSION

As established by the Town of Wallingford, Public Utilities Commission at its meeting of November 17, 2020, the following meeting schedule will be in effect for 2021.

January 5 January 19	February 2 February 16	March 2 March 16	April 6 April 20
May 4 May 18	June 1 June 15	July 6 July 20	August 3 August 17
September 7 September 21	October 5 October 19	November 3* November 16	December 7 December 21

January 4, 2022
January 18, 2022

*Due to Election Day

The meetings will be held at 6:30 p.m. at the Town of Wallingford Electric Division, 100 John Street, Wallingford, CT 06492.

Robert N. Beaumont

/kaw

c: Mayor	Comptroller	Planning & Zoning
Town Attorney	Gov't T.V.	Record Journal
Town Council	New Haven Register	Program Planning

ITEM NO. 6-1
PUC AGENDA 11/17/20