

NASHWAUK
PUBLIC UTILITIES
COMMISSION
REGULAR AGENDA

p: 218-885-1210



City of
NASHWAUK
FROM TIMBER TO TACONITE

301 Central Avenue, Nashwauk, Minnesota 55769

NPUC COMMISSION

TUESDAY, MARCH 18, 2025

E. Milton Latvala

Chair

Mike Anderson

Commissioner

Mark Marinaro

Commissioner

Brian Ekholm

Commissioner

Tom Martire

Commissioner

1. CALL TO ORDER

2. ADOPTION OF AGENDA

3. APPROVAL OF MINUTES

- a. Minutes of the February 21, 2025, Nashwauk Public Utilities Commission meeting.

4. APPROVAL OF CLAIMS

5. SPECIAL ITEMS

6. OLD BUSINESS

- a. East Itasca Joint Sewer Project Update.
 - i. Discuss establishing depreciation savings account for the Wastewater Treatment Facility.
- b. 3rd Street Utility Project Update (2025 Project)
- c. Water Storage for Bozich, Co Garage, Mesabi Metallics.
- d. Tracking water tower restoration (2028 planning with \$600,000 estimate project costs)
- e. Updates and recommendations from Joe Peterson.

7. NEW BUSINESS

- a. Consider the quote from Minnesota Pump Works for two 40 HP pumps, 2 VFDs and installation of them within the pump house in the amount of \$55,085.70.
- b. Discussion related to establishing a water and sewer rate for the PreK-12th grade school.

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8. PUBLIC COMMENT. Members of the public are welcome to address the Commission. Please provide your name, brief description of the subject matter, and keep comments to 5 minutes.

9. ADJOURN

**City of Nashwauk
Nashwauk Public Utilities Commission
February 18, 2025**

Chairman Latvala called the meeting to order at 1:00 p.m. in the Council Chambers of City Hall.

Members present: Commissioner Mark Marinaro, Commissioner Tom Martire, Chairman Milton Latvala, Commissioner Mike Anderson.

Members absent: Commissioner Brian Ekholm

Also present: April Kurtock, Jason Martire, Joe Peterson, John Jamnick.

Adoption of Agenda

*Motion by Commissioner Marinaro, seconded by Commissioner Martire to adopt the agenda of the February 18, 2025, Nashwauk Public Utilities Commission meeting.

Ayes: all present. Motion carried.

Approval of Minutes

*Motion by Commissioner Latvala, seconded by Commissioner Martire to approve the minutes of the January 21, 2025, Nashwauk Public Utilities Commission meeting.

Ayes: all present. Motion carried.

Approval of Claims

*Motion by Commissioner Marinaro, seconded by Commissioner Martire to approve all claims signed and file the claims register as official record.

Ayes: all present. Motion carried.

Special Items

Greg Brohman requested to address the Commission regarding reoccurring sewer backups at this property; however, he was not at the meeting to address the issue.

Old Business

East Itasca Joint Sewer Project Update

The EIJSB meeting was held earlier that day but there were not any action items on their agenda aside from paying claims.

3rd Street Utility Project

John Jamnick said that the project was at a standstill until funding was determined. He noted that Congressman Stauber's office had just released an invitation to apply for Congressional Spending Projects. Commissioner Martire asked about a timeline for the request. April Kurtock read an email that was received in June of 2024 from Stauber's Legislative Director Allie Esau, which stated, "I am pleased to inform you that the Appropriations Committee has decided to fund your EPA STAG project at \$1,000,000. While we are thrilled with this announcement, please note that this is only the first step in a long process. While the project has been accepted and a funding level set, the Interior Appropriations bill must pass the House, be reconciled with legislation passed in the Senate, and, finally, be signed into law." April Kurtock asked for an update in December on the funding status and the response from Ms. Esau was "Unfortunately, the end-of-year spending bill will likely not include CPFs, so we will have to wait for the proposed March deadline to see them added. Of course, we will continue to push for this project's inclusion."

Water Storage for Bozich

John Jamnick provided a site plan for the proposed water tank at County Road 58, which would provide better water pressure to the Bozich Addition and County Garage. The estimated project cost was \$450,000. Commissioner Martire asked about the booster pump situation and if upgrading from one pump to three, like Jason Martire suggested, would be sufficient or if the water tank was needed. Jamnick said the work that was done last year, which consisted of a new pump and installing the controls, helped provide better service up north. Jason Martire provided a picture of the booster pump area, which showed one large pump and two small ones. He said the only working pump is the large one, and the two small ones don't work. He said Minnesota Pump Works is working on a proposal for him, which would add two more large pumps. It would help create redundancy, which would be essential if the large pump went out, as they could continue to provide water to the north.

The overall project was to potentially install a water storage tank and install two additional pumps. Commissioner Marinaro asked if the water tank was needed, as he stated he had a hard time committing to a half million-dollar project if adding pumps would be enough. He additionally asked about fire suppression in Bozich and if the line would provide enough pressure if the fire department needed it. Commissioner Martire asked about the PSI to the north. Jamnick said he would find out. Commissioner Marinaro asked about adding more water to the water tower and if that would help with pressure. Jamnick said he would look at that, too. The Commission requested to see the proposal from Minnesota Pump Works at the next meeting.

Water Tower Restoration

Jason Martire said that we will have more information in 2028, with the project potentially happening in 2029. He stated he had received a very rough estimate of \$500-600,000 to complete the water tower restoration project.

Joe Peterson Updates

Joe Peterson said that the new high school will have permanent power within the next couple weeks.

Regarding the IRRRB grant, he was putting together a concept paper for submission. ARDC has stepped in, and they will be compiling the concept papers from the other utilities.

Peterson also shared an update regarding electrical projects going on at Mesabi Metallica.

New Business

Fund Transfer

*Motion by Commissioner Marinaro, seconded by Commissioner Anderson to approve the transfer of \$250,000 from the Mesabi Metallica depreciation savings account to the Electric Depreciation savings account.

Ayes: all present. Motion carried.

Adjourn

*Motion by Commissioner Martire, seconded by Commissioner Anderson to adjourn at 1:39 p.m.

Ayes: all present. Motion carried.

Secretary

April Kurtock

From: Joe Peterson <jpeterson@ireacs.com>
Sent: Friday, March 14, 2025 2:04 PM
To: April Kurtock
Subject: Couple of Updates for the NPUC Meeting

Hello,

Just wanted to send a few notes since I'll be out of town for the meeting next week.

The school's permanent service should be energized in the morning 3/15. I've been coordinating with Amptek, MP Systems, and Hunt and it helps make sure we won't hold up any progress there. They've passed inspection up to their main gear/panel and are ready for it.

There's been quite a bit going back and forth with MMCL. The relay settings in the Calumet substation are probably the biggest topic and Steve and I have been working with them on options. The challenge is the only reason they don't own the equipment and have clear responsibility for the relays is because of the requirements of the grant money when the substations were built (that NPUC retain ownership of the system within the fence). These are dedicated for MMCL (mostly protecting their system) and no other customers, so it relies directly on their details and only puts us in the middle if something goes wrong. The unfortunate thing is they planned to handle it up until discussion of liability came up and then they have shied away and want us to handle them. Now we are tight on time and limited for options. MP did the original settings and would be the best option, but back in December said they do not have the bandwidth nor interest to take it on. Steve should have some updates after next week on discussions he's having. Load wise, they are pulling cable to start tying in the 13.8kV feeds from the Calumet Substation into their concentrator (which will feed downstream, as well). This still won't be sizable for some time, maybe 3-5MVA, but it is moving forward. They provided a plan for mitigating the 4.16kV NGR risks we identified in October and are slated for early May to have it in better shape (some steps will take place earlier). I've reiterated they still remain the sole holders of risk until (and after) that time since it is their system, installed by them, etc.

I have not heard or seen anything more on the grant, but that is likely to be the case until late April or early May. At that time, the DOE should provide IRRRB/ARDC with guidance as to whether it is worth proceeding with the full application for August (they won't "approve" or "deny" prior to then, but are trying to make sure resources spent on applications are worthwhile).

I will be available to watch for emails, probably some calls, etc., if anything comes up. Mondays 3/17 and 3/24 are my flying days, so those may be the ones with the most delays.

Please let me know if you have any questions.

Thank you.

Joe Peterson, PE (MN, WI, IA, IL, MI, ND)
Owner/Principal Engineer
Iron Range Engineering and Consulting Services, PLLC
PO Box 397
Forbes, MN 55738
Cell: (218) 996-5301





MINNESOTA PUMP WORKS
-a UFT Company-

Minnesota Pump Works
1 Cannon St W
Dundas, MN 55019

Quote
#QTE008515
03/02/2025

Bill To
Nashwauk MN, City of
301 Central Ave
Nashwauk MN 55769-1131
United States
Phone:

Ship To
Nashwauk MN, City of
301 Central Ave
Nashwauk MN 55769-1131
United States

Details

Quote for the Sale and Installation Grundfos End Suction Pumps for the High Service/Booster Station. Note: Freight is NOT included. *Entire Booster Station will have to be shut down and Isolated for a short period to modify existing piping/valves.*
Customer to have licensed electrician modify existing wiring to accommodate 2 - 40 HP pumps and install proposed Variable Frequency Drives

Prepared By Dillon Braith **Phone** 877-645-8004 **Email** info@minnesotapumpworks.com

Sales Rep Justin MacPherson **Expires** 03/12/2025 **Terms** Net 30

Item	Comment	QTY	Rate	Amount
23427 QUOTE ITEM	Grundfos NBS End Suction Pump with 40HP/460V Motor and Mounting Feet	2	\$10,288.00	\$20,576.00
INSTALL SERVICES	Installation of above Grundfos Pumps Listed above. Installation includes: Labor, Trip Charges, and Lodging; Custom Welded 304SS piping, Air Release Valves, Pressure Gauges, Expansion Joints, and all required fasteners and gaskets. **Note: Existing Check Valves and Gate Valves to be Re-used.	1		\$28,729.70
23427 QUOTE ITEM	Mitsubishi F840 Series Variable Frequency Drive rated to operate a 40HP pump motor on 460V/3PH Site Power **TO BE INSTALLED BY OTHERS**	2	\$2,890.00	\$5,780.00

Thank you for your business.
Toll Free: 877-645-8004 | Email: info@minnesotapumpworks.com | Website: <http://www.minnesotapumpworks.com>



QTE008515



MINNESOTA PUMP WORKS
-a UFT Company-

Minnesota Pump Works
1 Cannon St W
Dundas, MN 55019

Quote
#QTE008515
03/02/2025

Subtotal \$55,085.70

Total \$55,085.70

Pricing is valid for 10 days and does not include freight charges or applicable taxes.

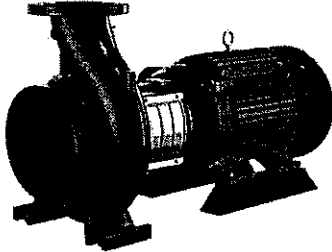
Items quoted for repair and leftover 30 days, without a decision to repair, will be discarded.

Signature: _____ Date: _____



Qty.	Description
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1	NBS 030-070/6.85
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Note! Product picture may differ from actual product

Product No.: 92559253

The pumps are non-self-priming, single-stage, centrifugal volute pumps with axial inlet port, radial outlet port and horizontal shaft.

The pump has a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

All pumps are according to ISO 5199 standards, adjusted for American dimensions on pump and its flanges.

Inlet and outlet flanges are according to ASME 16.1/16.42. Dimensions and rated performance are according to 175/363 PSI (12/25 bar).

The mechanical shaft seal has dimensions according to EN 12756, and can be serviced without disturbing the pump head and motor.

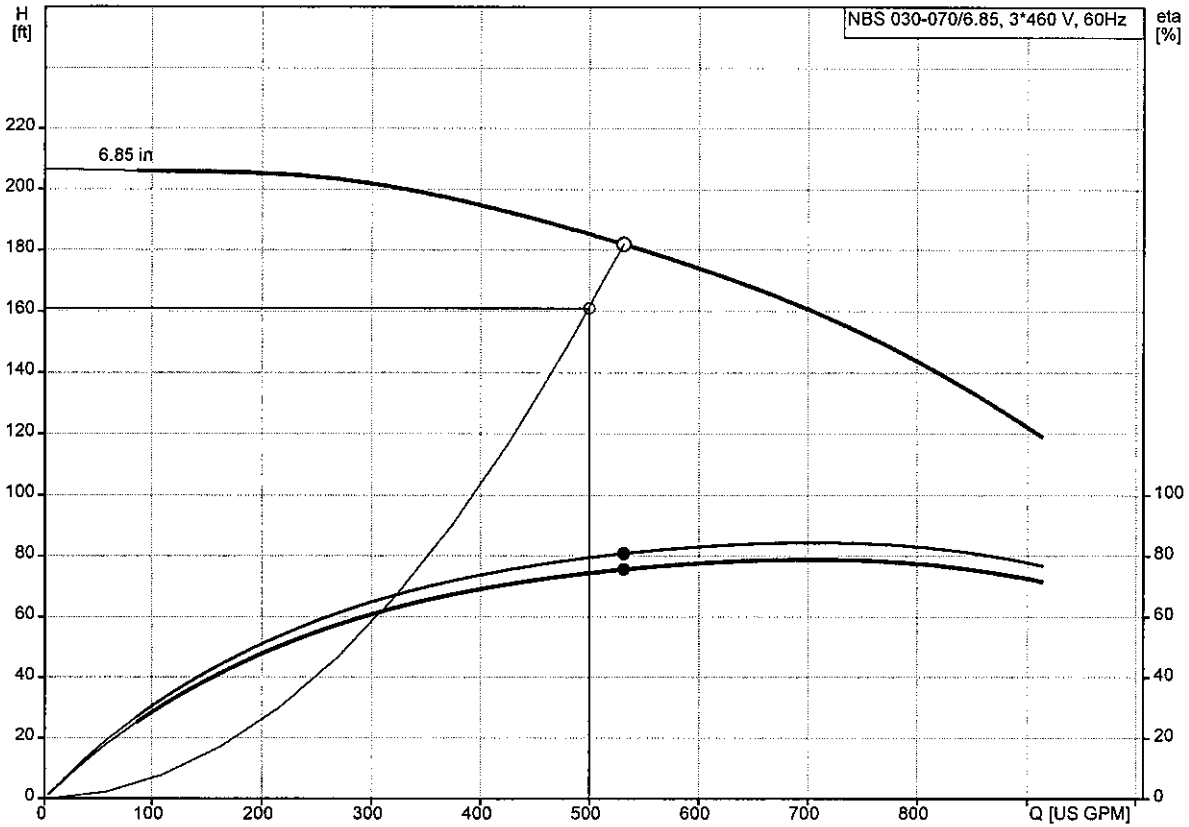
Motors are with main dimensions to NEMA standards. The NBS pumps are with asynchronous motors. The NBSE pumps are with Grundfos MLE motors or PM motors together with integrated Grundfos CUE.



Company name:
Created by:
Phone:

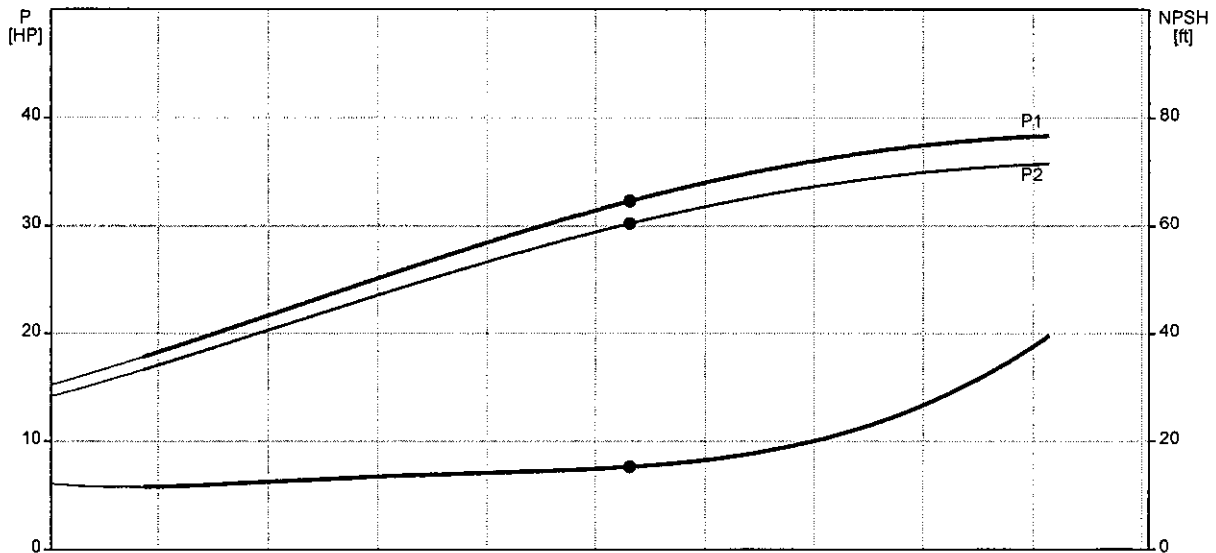
Date: 06/02/2025

92559253 NBS 030-070/6.85 AASG6S5ESBQQERX2 60 Hz



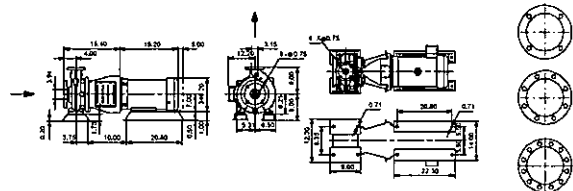
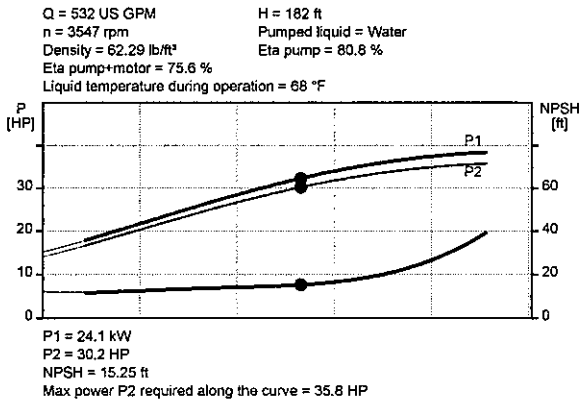
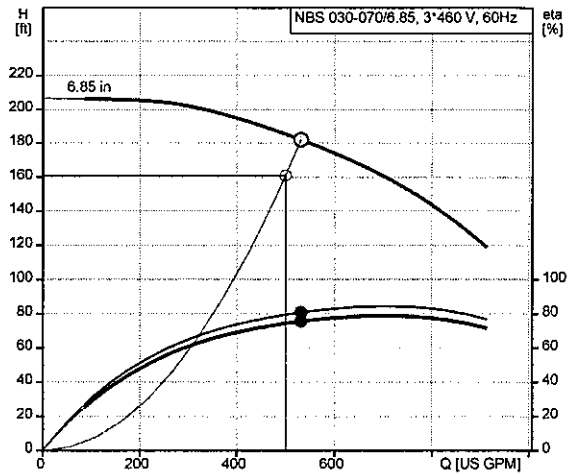
Q = 532 US GPM
n = 3547 rpm
Liquid temperature during operation = 68 °F
Eta pump = 80.8 %

H = 182 ft
Pumped liquid = Water
Density = 62.29 lb/ft³
Eta pump+motor = 75.6 %



P1 = 24.1 kW
P2 = 30.2 HP
NPSH = 15.25 ft
Max power P2 required along the curve = 35.8 HP

Description	Value
General information:	
Product name:	NBS 030-070/6.85 AASG6S5ESBQQERX2
Product No:	92559253
EAN number:	5715116250991
Price:	\$ 10288
Technical:	
Pump speed on which pump data are based:	3540 rpm
Actual calculated flow:	532 US GPM
Resulting head of the pump:	182 ft
Actual impeller diameter:	6.85 in
Primary shaft seal:	BQQE
Code for shaft seal:	BQQE
Curve tolerance:	2B HI 14.6:2016
Pump version:	AS
Max power P2 along the curve:	35.8 HP
Materials:	
Pump housing:	Cast iron EN-GJL-250 ASTM A48-35
Impeller:	Stainless steel EN 1.4308 AISI 304
Internal pump house coating:	No coating
Material code:	S5
Code for rubber:	E
Shaft:	Stainless steel EN 1.4462 SAF 2205
Installation:	
Maximum ambient temperature:	104 °F
Maximum operating pressure:	174.05 psi
Pipe connection standard:	ASME B16.1
Type of connection:	ANSI
Size of inlet connection:	4 inch
Size of outlet connection:	3 inch
Pressure rating for connection:	Class 125
Mounting options design code:	C
Support block (Yes/No):	Y
Connect code:	G
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-13 ... 248 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft ³
Electrical data:	
Motor standard:	NEMA
IE efficiency class:	IE3 / NEMA Premium
Rated power - P2:	40 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 230/460 V
Rated current:	92-46 A
Rated speed:	3540 rpm
Motor efficiency at full load:	92.4 %
Number of poles:	2
Enclosure class:	ODP
Motor No:	98342775





Company name:
Created by:
Phone:

Date: 06/02/2025

Description	Value
Mounting designation (IEC 34-7, Code I):	NEMA type C / foot
Bearing insulation type N-end:	No insulation
Controls:	
Frequency converter:	None
Others:	
DOE Pump Energy Index CL:	0.93
Net weight:	517 lb
Gross weight:	517 lb
Shipping volume:	11 ft ³
Country of origin:	US