

TOWN OF SEABROOK

SELECTMEN'S MEETING

AUGUST 26, 2026

Theresa A. Kyle  
Aboul B. Khan  
William M. Manzi, III

Mrs. Kyle opened the meeting at 10:06AM.

**FIRE PRORATION - RIVER STREET**

Mr. Manzi explained the statute governs the loss of property due to fire.

|                                |                     |
|--------------------------------|---------------------|
| <u>MOTION:</u> Theresa A. Kyle | To approve the fire |
| Second: Aboul B. Khan          | proration on River  |
| Motion approved 2-0            | Street.             |

**FIRE PURCHASE - GLIDESCOPE**

Mr. Manzi said this purchase would come from the ambulance revolving fund if approved. The chief is recommending this be done on an emergency basis.

Chief Edwards attended the meeting and explained what the Glidescope is and what it is used for. He said there isn't many companies for this product, but this one is willing to give a trade on the units they currently hold.

|                                |                         |
|--------------------------------|-------------------------|
| <u>MOTION:</u> Theresa A. Kyle | To approve and sign the |
| Second: Aboul B. Khan          | fire purchase for the   |
| Motion approved 2-0            | Glidescope.             |

**WATER & SEWER SERVICE APPLICATION**

DECM LLC - 8 Richard Adams Way

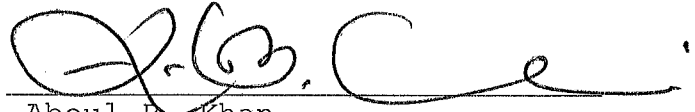
Mr. Manzi confirmed with the water department that this is for 1 lot.

|                              |                                     |
|------------------------------|-------------------------------------|
| <u>MOTION:</u> Aboul B. Khan | To approve and sign both            |
| Second: Theresa A. Kyle      | water & sewer service               |
| Motion approved 2-0          | application 8 Richard<br>Adams Way. |

|                              |                        |
|------------------------------|------------------------|
| <u>MOTION:</u> Aboul B. Khan | To adjourn the meeting |
| Second: Theresa A. Kyle      | at 10:17AM.            |
| Motion approved 2-0          |                        |

Minutes taken by Kelly J. O'Connor.

Approved and endorsed:

A handwritten signature in black ink, appearing to read 'A. B. Khan', written over a horizontal line.

Aboul B. Khan  
Clerk

Date: 9-21-2026



## SEABROOK FIRE DEPARTMENT

87 Centennial Street

Seabrook, NH 03874

Phone: 603-474-2611 Fax: 603-474-5187

seabrooknh.info

William J Edwards  
Fire Chief  
603-474-3880

Richard Saracy  
Deputy Fire Chief  
603-474-5300

Date: July 6, 2026

To: Board of Selectmen &  
Town Manager, William Manzi.

From: Fire Chief, William J. Edwards

Re: Fire Department Fire Hose & Nozzle Purchase

Hello,

The purpose of this memorandum is to request approval to purchase new attack hose and matching smooth-bore nozzles for the Seabrook Fire Department. The Department has not made a significant inventory replacement of fire hose in more than 20 years. This purchase is intended to modernize our attack-line inventory, improve line performance, and give crews a safer, more predictable hose/nozzle package during fireground operations.

### Background and Current Inventory

A recent inventory counted the Department's 1 3/4-inch and 2 1/2-inch hose across Engine 1, Engine 2, Engine 3, Tower 1, and spare/storage. The Department's purchase planning count is 80 lengths of 1 3/4-inch hose and 47 lengths of 2 1/2-inch hose. The inventory also shows a significant amount of older white hose currently in service or in reserve, including 27 lengths of old white 1 3/4-inch hose and 13 lengths of old white 2 1/2-inch hose. Our current smooth-bore nozzle inventory includes two 1-inch tips assigned to Engines 1 and 2, one 7/8-inch tip assigned to the high-rise pack, and three 2 1/2-inch smooth-bore nozzles with 1 1/4-inch orifices. To place the new 1 3/4-inch nozzle package on every current 1 3/4-inch hose load on Engine 1, Engine 2, Engine 3, and Tower 1, the Department needs 11 in-service nozzles. I recommend purchasing 13 total 7/8-inch nozzles to include two spares. This updated cost also adds 24 lengths of 2-inch attack line, assumed as six 200-foot 2-inch line/hose loads, and six associated 1-inch smooth-bore nozzles for those 2-inch lines.



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## Current Hose and Nozzle Inventory

### Current Hose Inventory Summary (06/18/2026)

| Hose Type                    | Color / Status     | Current Quantity | Notes                                                        |
|------------------------------|--------------------|------------------|--------------------------------------------------------------|
| 1 3/4-inch attack hose       | White (older hose) | 27 lengths       | Older hose currently in service or reserve.                  |
| 1 3/4-inch attack hose       | Yellow             | 24 lengths       | Current apparatus/storage inventory.                         |
| 1 3/4-inch attack hose       | Blue               | 21 lengths       | Current apparatus/storage inventory.                         |
| 1 3/4-inch attack hose       | Red                | 8 lengths        | Current apparatus/storage inventory.                         |
| 1 3/4-inch attack hose total |                    | 80 lengths       | Purchase planning count for primary attack hose replacement. |
| 2 1/2-inch hose              | White (older hose) | 13 lengths       | Older hose currently in service or reserve.                  |
| 2 1/2-inch hose              | Green              | 26 lengths       | Current apparatus/storage inventory.                         |
| 2 1/2-inch hose              | Orange             | 8 lengths        | Current apparatus/storage inventory.                         |
| 2 1/2-inch hose total        |                    | 47 lengths       | Not included in the proposed purchase pricing.               |

### Current Smooth-Bore Nozzle Inventory

| Nozzle / Tip                                            | Current Quantity | Current Assignment / Location               | Operational Note                                                        |
|---------------------------------------------------------|------------------|---------------------------------------------|-------------------------------------------------------------------------|
| 1-inch smooth-bore tips                                 | 2                | Engine 1 and Engine 2                       | Highest current 1 3/4-inch flow option but higher nozzle reaction.      |
| 7/8-inch smooth-bore tip                                | 1                | High-rise pack                              | Lower nozzle reaction; supports single-firefighter advancement.         |
| 2 1/2-inch smooth-bore nozzles with 1 1/4-inch orifices | 3                | 2 1/2-inch handline/master stream inventory | Separate larger-line package requiring appropriate staffing and backup. |



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### Recommended Purchase

I recommend approval of a standardized 1 3/4-inch attack hose and smooth-bore nozzle package based on the 80-length purchase planning count, with the addition of 24 lengths of 2-inch attack line and associated 1-inch smooth-bore nozzles. After reviewing the nozzle reaction numbers, the recommended primary option for single-firefighter advancement remains the 1 3/4-inch Snap-tite Gladiator hose package matched to 7/8-inch smooth-bore nozzles. Based on the current Fire Tech & Safety quote pricing, the estimated cost for replacing the 80-length 1 3/4-inch inventory with the 7/8-inch hose package is \$27,040. Equipping all three engines and Tower 1 requires 11 nozzles at \$716 each, or \$7,876. The recommended 1 3/4-inch package includes two additional spare nozzles, for 13 total nozzles, adding \$9,308 in nozzle cost. The added 2-inch package consists of 24 lengths of 2-inch hose at \$412 each, totaling \$9,888, plus six 1-inch integral smooth-bore nozzles at \$801 each, totaling \$4,806. The updated recommended material total is \$51,042, plus shipping/freight.

| Item                                                     | Qty | Unit Price | Equipment / Match                   | Line Total |
|----------------------------------------------------------|-----|------------|-------------------------------------|------------|
| 1 3/4-inch attack hose                                   | 80  | \$338      | 7/8-inch smooth-bore package        | \$27,040   |
| 2-inch attack hose                                       | 24  | \$412      | 1-inch smooth-bore package          | \$9,888    |
| 7/8-inch smooth-bore nozzles for 1 3/4-inch attack lines | 13  | \$716      | 11 in-service nozzles plus 2 spares | \$9,308    |
| 1-inch smooth-bore nozzles for 2-inch attack lines       | 6   | \$801      | Six 2-inch line nozzles             | \$4,806    |



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**Fire Chief**

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**Richard Saracy**

**Deputy Fire Chief**

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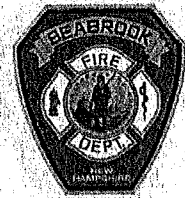
### **Operational and Safety Rationale**

**Understaffed fireground efficiency:** As an understaffed department, we must maximize the effectiveness of each handline and reduce the workload required to stretch, advance, and operate attack lines. A standardized hose/nozzle package provides crews with known flow, known pump discharge pressure, known nozzle reaction, and a predictable stream. This reduces decision-making time during the first few minutes of an incident.

**Improved attack-line handling:** The quoted Snap-tite Gladiator hose is a modern attack hose with a polyester outer jacket and nitrile rubber thru-the-weave liner. Manufacturer information states that the hose performs at high and low pressures, has a smooth/enhanced waterway for improved flow, and is designed to reduce kinking. Kink resistance is especially important for smaller crews because a kinked handline can sharply reduce available flow and force additional personnel to stop advancing to correct hose problems.

**Smooth-bore nozzle advantages:** A smooth-bore nozzle uses a fixed orifice to deliver a solid fire stream. Handline smooth-bore nozzles are generally designed around a 50 psi nozzle pressure. Common 50 psi smooth-bore flows are approximately 161 gpm for a 7/8-inch tip and 210 gpm for a 1-inch tip. For this purchase, the 7/8-inch option provides the best balance for single-firefighter advancement because it maintains roughly 160 gpm while reducing nozzle reaction compared with larger 1 3/4-inch smooth-bore tips.

**Standardization and training:** A consistent hose/nozzle package allows the Department to train to one standard rather than multiple legacy combinations. Pump operators can use one reliable pump chart, firefighters can practice the same stretch/load/nozzle reaction repeatedly, and officers can make faster tactical choices at structure fires.



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Support for coordinated fire attack: Modern fire attack strategy emphasizes coordination of suppression, ventilation, search, and flow-path control. A reliable, high-flow, controllable attack line supports the goal of rapidly placing water where it is needed while maintaining crew safety and limiting fire growth.

### Nozzle Reaction and NFPA Standards Context

NFPA standards should be referenced as equipment and maintenance standards for this purchase. NFPA 1960/1964 addresses fire hose and spray nozzle equipment design and testing, while NFPA 1962/1930 addresses the care, use, inspection, service testing, and replacement of fire hose, couplings, nozzles, and appliances. For the Board discussion, nozzle reaction should be presented as an operational hydraulic calculation rather than as a simple NFPA pass/fail maximum.

Using standard smooth-bore formulas, nozzle reaction is calculated as  $NR = 1.57 \times D^2 \times NP$ , where D is the nozzle orifice diameter in inches and NP is nozzle pressure in psi. Smooth-bore flow is calculated as  $GPM = 29.7 \times D^2 \times \text{the square root of NP}$ . The table below is limited to the proposed purchase package so the Board can clearly see the intended operating flow and nozzle reaction for the new 1 3/4-inch and 2-inch lines.

| Proposed Nozzle Package                              | Pressure | Approx. GPM | Approx. Nozzle Reaction | Operational Meaning                                                                                   |
|------------------------------------------------------|----------|-------------|-------------------------|-------------------------------------------------------------------------------------------------------|
| 1 3/4-inch attack line with 7/8-inch smooth-bore tip | 50 psi   | 161         | 60 lbf                  | Primary handline standard for single-firefighter advancement and limited staffing.                    |
| 2-inch attack line with 1-inch smooth-bore tip       | 50 psi   | 210         | 79 lbf                  | Higher-flow line for larger fire conditions; should be operated with appropriate backup and staffing. |



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### **Implementation Plan**

- Use the 80-length 1 3/4-inch hose count and the added 24-length 2-inch hose count for purchase planning; confirm final hose colors, hose loads, and apparatus placement before issuing the purchase order.
- Confirm final quote pricing with Fire Tech & Safety because the quote documents list an expiration date of June 16, 2026 and freight/shipping is additional.
- Select the 7/8-inch smooth-bore package as the primary 1 3/4-inch attack-line standard for single-firefighter advancement, and purchase 11 in-service nozzles plus two spare nozzles for 13 total unless final flow testing indicates a different standard better fits Department operations. Add six 1-inch smooth-bore nozzles for the new 2-inch lines.
- Conduct flow testing after delivery and develop a pump discharge pressure chart for each standard hose load and nozzle package, including the 1 3/4-inch 7/8-inch package and the 2-inch 1-inch package.
- Provide hands-on training for all shifts covering hose deployment, advancement, nozzle reaction, backup firefighter positioning, kink management, and coordinated fire attack expectations.
- Update applicable SOPs and apparatus inventory sheets to reflect the new hose colors, lengths, nozzle combinations, and pump pressures.



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### **Conclusion**

This purchase is a necessary modernization of a hose inventory that has not been significantly replaced in more than two decades. Replacing older attack hose and standardizing the nozzle package will improve firefighter safety, simplify training, improve pump operations, and allow our crews to operate more effectively with limited staffing. I recommend authorization of the 80-length 1 3/4-inch 7/8-inch hose/nozzle package and 13-nozzle total purchase at an estimated material cost of up to \$37,000 plus freight/shipping, subject to final quote confirmation. Fire Tech & Safety is the vendor we'd like to work with and are currently on the Mass State bid list, vendor number PSE01. I would like to have the funding come from the Ambulance Revolving Fund.

Respectfully,

A handwritten signature in black ink, appearing to read "WJ Edwards", written over a horizontal line.

**William J Edwards**

**Fire Chief**

**TOWN OF SEABROOK, NEW HAMPSHIRE**

# **AMBULANCE REVOLVING FUND**

## **DISBURSEMENT AUTHORIZATION**

**Meeting Date:** July 13, 2026

**Department:** Seabrook Fire Department

**Request:** Authorization to expend funds from the Ambulance Revolving Fund for the purchase of replacement fire attack hose and smooth-bore nozzles as recommended by the Fire Chief.

**Purpose:**

To modernize the Fire Department's fire hose inventory, improve firefighter safety, standardize hose and nozzle configurations, and replace attack hose that has been in service for more than twenty years.

### **Financial Summary**

**Ambulance Revolving Fund Balance:**

\$2,577,362.28

**Authorized Disbursement:**

Up to **\$51,042.00**, plus applicable freight/shipping, subject to final quote confirmation.

**Estimated Remaining Fund Balance:**

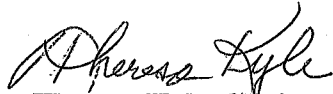
\$2,540,362.28

*(Based upon a \$37,000.00 disbursement. Final balance will reflect the actual approved expenditure, including freight/shipping.)*

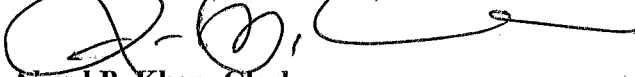
### **Board Action**

The Seabrook Board of Selectmen hereby authorizes the expenditure described above from the Ambulance Revolving Fund.

Approved this 13th day of July, 2026.

  
Theresa Kyle, Chair

  
Harold Eaton, Vice Chair

  
Aboul B. Khan, Clerk