

Hampton Board of Education
380 Main Street
Hampton, CT 06247

October 25, 2023
HES Conference Room
3:00 PM

Finance and Operations Committee
Special Meeting Minutes

Those in attendance were Finance and Operations Committee members Maryellen Donnelly, David Halbach and John Russell. Also in attendance were Action Air Systems Operation Manager Rick Adkins, First Selectman Allan Cahill, and Hampton Board of Finance Chair Kathy Donahue.

The meeting began at 3:08.

1. Discussion of on-demand 120° domestic water average production.

Heat Pump	Propane
20 gallons/hour rates not reported under 40° temperature	15 gallons/minute
4-5 storage tanks required due to slow recovery time and size of loop	2 small units proposed Intellihot iN199
5 kW to produce 70° rise in temperature	10 kW to produce 70° rise in temperature

Both heat pump and propane would require circulating pumps to distribute throughout the school.

Update in proposal will change to VRF in bathrooms and entry hallway from electric heaters previously discussed.

A 300 kW generator is recommended* which will keep school at the minimum heating capacity (80% use of VRF system) and air handlers. Cost is approximately \$400,000 for a propane generator, transfer switch and installation. Diesel is a little less expensive. Likely a 1,000 gallon propane tank would be needed.

* 50 BTU/sq' in Zone 5, down to 30° before losing capacity, upsize generator to compensate for loss below 30°, 1.5 million BTU at 30°, 1.9 m at 0°, use 1.88 m BTU's

A 350 kW generator would require over 1200 amp service, which is the current service, and a bigger transfer switch.

Grants are available.

2. Adjournment

The meeting adjourned at 3:51.

Respectfully submitted,

Maryellen Donnelly