TO: NWABSD Board of Education Members

FR: Office of the Superintendent

DATE: August 27, 2024

NUMBER: Worksession Item #I. e.

SUBJECT: a.) Technology Report

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Amy Eakin, Director of Technology, reports on the following:

Track 1: Operational Improvements
Initiative: Optimize Business Practices

1. Agenda Item: None

2. NWABSD Website & Social Media (Facebook via Hootsuite)
   a. Website
   b. Communicate for broadcasting announcements and emergencies:
      i. Text Opt-in for Broadcasts
         1. 542 opted in (547 in April)
         2. 8 opted out (9 in April)
         3. Continue advertising for manually opt-in by texting "Y" to 67587

3. Internet and Funding

Location	2023-24	2024-25	DIFFERENCE FROM FY24 to FY25
Ambler	25/10	50/10	Increase Download Speed
Buckland	25	100	Increase Download/Upload Speed
Deering	25/10	50/10	Increase Quality of Service and Download/Upload Speed
Kiana	25	100	Increase Download/Upload Speed
Kivalina	25/10	100	Increase Quality of Service and Download/Upload Speed
Kobuk	25/10	50/10	Increase Download/Upload Speed
Noatak	25	100	Increase Download/Upload Speed
Noorvik	25	100	Increase Download/Upload Speed
Selawik	25	100	Increase Download/Upload Speed
Shungnak	25/10	50/10	Increase Download/Upload Speed
District Office	100	100	No Changes
KMHS	25	100	Increase Download/Upload Speed
JNES	25	100	Increase Download/Upload Speed
ATC	25	50	Increase Download/Upload Speed
STAR Dorm	5	5	No Changes
Total Cost	$8,005,800.00	$ 21,711,785.00	$13,705,985.00
Total E-Rate Eligible Cost	$8,005,800.00	$ 21,711,785.00	$13,705,985.00
E-Rate Revenue	$7,205,220.00	$19,540,606.50	$12,335,386.50
BAG Revenue	$266,285.33	$1,660,832.08	$1,394,546.75
District General Funds Cost	$534,294.67	$ 510,346.42	($23,948.25)

a. Governor Dunleavy cut the BAG funding in a line-item veto, which meant the NWABSD BAG award was pro-rated by just under $4,000.

b. The District has been able to greatly increase the bandwidth at all sites

c. Deering and Kivalina are no longer on a Geo Satellite – they are on fiber through Terra just like Buckland, Noorvik, Selawik, etc.

d. Ambler, Kobuk, and Shungnak are receiving Starlink through GCI for GCI to meet the service level agreements

e. There is a great increase in revenue and a great increase in expenditures for internet

f. Overall internet savings to the District from FY24 is almost $24,000

Location	2014-15	2015-16	2016-17	2017-18^	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	DIFFERENCE FROM FY24 to FY25
Ambler	7/3 → 10/4	15/5	15/5	15/4	15/4	15/4	25/4	25/4	25/4	25/10	50/10	Increase Download Speed
Buckland	7/3 → 10/4	15/5	15/5	20	20	20	25	25	25	25	100	Increase Download/Upload Speed
Deering	7/3 → 10/4	15/5	15/5	15/4	10/4	10/4	25/4	25/4	25/4	25/10	50/10	Increase Quality of Service and Download/Upload Speed
Kiana	7/3 → 10/4	15/5	15/5	15	15	15	25	25	25	25	100	Increase Download/Upload Speed
Kivalina	7/3 → 10/4	15/5	15/5	15/4	15/4	15/4	25/4	25/4	25/4	25/10	100	Increase Quality of Service and Download/Upload Speed
Kobuk	7/3 → 10/4	15/5	15/5	15/4	10/4	10/4	25/4	25/4	25/4	25/10	50/10	Increase Download/Upload Speed
Noatak	7/3 → 10/4	15/5	15/5	20	20	20	25	25	25	25	100	Increase Download/Upload Speed
Noorvik	7/3 → 10/4	15/5	15/5	20	20	20	25	25	25	25	100	Increase Download/Upload Speed
Selawik	7/3 → 10/4	15/5	15/5	25	25	25	25	25	25	25	100	Increase Download/Upload Speed
Shungnak	7/3 → 10/4	15/5	15/5	15/4	15/4	15/4	25/4	25/4	25/4	25/10	50/10	Increase Download/Upload Speed
District Office	5	15/5	15/5	20	60	60	60	100	100	100	100	No Changes
KMHS	5 → 10	15/5	15/5	10	10	10	25	25	25	25	100	Increase Download/Upload Speed
JNES	NA	NA	NA	10	10	10	25	25	25	25	100	Increase Download/Upload Speed
ATC	3	15/5	15/5	5	10	10	10	10	25	25	50	Increase Download/Upload Speed
STAR Dorm	NA	NA	NA	NA	5	5	5	5	5	5	5	No Changes
Total Cost	$5,099,210.05	$5,166,180.00	$5,163,480.00	$6,303,870.00	$5,930,532.00	$5,930,532.00	$7,623,192.00	$8,104,272.00	$8,265,448.00	$8,005,800.00	$ 21,711,785.00	$13,705,985.00
Total E-Rate Eligible Cost	$5,099,210.05	$5,166,180.00	$5,163,480.00	$6,303,870.00	$5,930,532.00	$5,930,532.00	$7,623,192.00	$8,104,272.00	$8,265,448.00	$8,005,800.00	$ 21,711,785.00	$13,705,985.00
E-Rate Revenue	$4,034,271.60	$4,649,562.00	$4,647,132.00	$5,673,482.82	$5,337,478.80	$5,337,478.80	$6,660,872.80	$7,293,844.80	$7,456,903.20	$7,205,220.00	$19,540,606.50	$12,335,386.50
BAG Revenue	$408,014.89	$56,846.00	$58,130.00	$44,024.00	NA	NA	$169,266.80	$169,266.00	$187,384.00	$266,285.33	$1,660,832.08	$1,394,546.75
District General Funds Cost	$656,923.56	$459,772.00	$458,218.00	$586,363.18	$593,053.20	$593,053.20	$593,052.40	$641,161.20	$641,160.80	$534,294.67	$ 510,346.42	($23,948.25)

	Jan-Jul 2023	Aug–Dec 2023	Jan-Jul 2024	Aug–Dec 2024	Jan-Jul 2025	Aug–Dec 2025
High School Laptops	Refresh 2020					Refresh Fleet 2026
5-8 School Laptops	Refresh Fleet 2023 Purchase Cases					
SMARTBoards	Purchased 2014/2015; Warranty expired 6/30/20	10 Annually		10 Annually		10 Annually
Principal Laptop, Secretary/DO iMacs	Principals – purchased 8/2024; Secretary and DO iMac Refresh	Secretary iMac Refresh	Deploy Principal Refresh – Pro/Screen			
K-4 iPads (PK-4)	Refresh Fleet 2021; Refresh Apps			Refresh Apps		Refresh Fleet 2027
Staff iPads	Fleet Purchased 8/2020				Refresh Fleet 2025	
Staff Laptops	Refresh Fleet 2021					Refresh Fleet 2027
Computer Labs	ATC – partial update (5yr.)		ATC – partial update (5yr.)		ATC – partial update (5yr.)	
Network Infrastructure (Switches, Wireless)	402 Rack Replacement	Split OTZ Circuits Switches		C2 Install Wifi-6 APs in schools WLK, IAN, ORV	C2 Install Wifi-6 APs in schools BKC, DRG, OTZ	
Meraki Refresh		3yr. License Renewal				License Renewal 12/2025 (FY26)
Mitel Phone System	Partial Phone Refresh					
VTC	RUS Award 2020; Complete install of RUS awarded Infrastructure	Update Polycom Camera Software				
Servers	Refresh ABL/WTK/ORV	Refresh SHG	Refresh WLK			DO Server refresh 2027;
Windows Infrastructure	Windows 2019 Server Upgrade					

Additional work completed:
April 3, 2024 – August 9, 2024

- Received all student technology assets from villages. Cleaned laptops and iPads, repaired 80 damaged screens, and imaged all devices for the new year. Packed and shipped to site.

- Facilitated districtwide staff changes by creating accounts for new hires and transfers, including setting up Active Directory (AD), email, Microsoft licensing, and Teams policies. Additionally, prepared technology assets for the staff members for the new school year. Including a large influx of 60 teachers.

- Facilitated districtwide student changes by creating accounts for new students, transfers, including setting up Active Directory (AD), email, Microsoft licensing, and Teams student policies.

- Facilitated implementation of Classlink Launchpad and Roster Server.

- Migrated JNES network off Starlink and back to GCI.

- Trialed several security cameras and vape detectors and selected Verkada. Purchased and received Verkada for Kivalina. Set up the backend of the system for the site.

Tickets worked on between 4/3/24 12:00 am and 8/9/24 12:00 am