Issaquah School District
Executive Limitations Monitoring Report
April 27, 2016
EL-15 TECHNOLOGY – Annual Internal Report

The Superintendent certified that the District is in compliance with EL-15 with no exceptions.

The Superintendent shall not fail to establish and maintain technology systems and applications consistent with the accomplishment of the Board's Ends.

Accordingly, the Superintendent shall not fail to:

1. Provide equitable access to technology throughout the district.

Interpretation:

I interpret this to mean that district administrative leadership in collaboration with the Educational Technology Department shall have a system-wide process for assuring equal access to technology through the district.

Evidence of Compliance:

Each year the district implements replacement cycles at each school. Computers/laptops are on a five-year replacement cycle (Board directed). In the fall, School Technology Teams are provided with the amount available to them for their replacement cycle. The School Technology Teams select the district-standard replacements for their school that best suit their school's needs. School Technology Teams also allocate classroom computers, laptops, tablets, non-classroom computers, and electronic response systems within their school.

Other equipment on replacement cycles include document cameras and projectors. Those are replaced as needed and managed by the school's Technology Specialist.

Additional Technology Levy allocations are provided to each school for libraries ($5,000 elementary, $10,000 secondary) non-classroom computers (4 elementary, 6 middle school, 8 high school), and for School Technology Teams ($10 per FTE) to spend on printers and additional district-standard items in their school specifically to improve student learning.

An additional replacement cycle may be available in the spring if other Tech Levy line items allow.

The table below shows the ratio of students to computers as of April 1, 2015, plus other classroom equipment available to staff and students.

School	FTE as of 4/1/15	Instructional desktops & laptops in classrooms, labs, library	Students to Instructional Computers	Tablets: iPads, eReader/Kindle	Non-classroom computers	Electronic Student Response Systems	Activ-Slates	Doc Cams	Projectors	Interactive tech: ACTIVboards & Proj.
AP	555	379	1.5 : 1	121	40	27	3	58	44	51
BW	520	368	1.4 : 1	61	88	27	4	49	9	42
CA	523	394	1.3 : 1	57	36	24	0	43	44	32
CH	528	267	2 : 1	39	38	22	2	38	36	34
CL	559	352	1.6 : 1	128	33	33	9	37	42	30
CR	559	418	1.3 : 1	52	31	21	22	39	41	36
CS	660	331	2 : 1	105	44	28	2	42	40	44
DS	528	345	1.5 : 1	54	23	15	0	35	39	35
EN	613	339	1.8 : 1	70	34	30	7	42	41	42
GR	739	343	2.2 : 1	146	56	38	10	48	53	50
IVE	574	448	1.3 : 1	92	31	30	14	52	42	51
MH	382	319	1.2 : 1	40	22	24	1	29	32	26
NC	545	384	1.4 : 1	145	49	21	17	34	39	33
SH	564	318	1.8 : 1	77	28	27	23	36	38	33
SS	540	421	1.3 : 1	46	25	23	13	41	42	36
BLMS	875	584	1.5 : 1	109	53	25	3	43	58	40
IMS	767	678	1.1 : 1	39	88	31	38	47	44	41
MMS	1019	755	1.3 : 1	142	84	27	14	54	45	50
PCMS	935	541	1.7 : 1	66	103	28	0	41	43	41
PLMS	857	715	1.2 : 1	84	106	36	13	51	58	44
IHS	1969	1293	1.5 : 1	248	182	91	142	93	109	2
LHS	1153	1016	1.1 : 1	15	124	11	16	70	98	17
SHS	2001	1397	1.4 : 1	216	211	27	34	84	93	18
TM	64	91	0.7 : 1	2	10	4	1	18	14	11

In addition to the inventory listed above there is a wide variety of assistive and adaptive technology devices for dedicated use by students with an IEP or 504. This includes iPads, technology to assist visually challenged students, amplification, special keyboards and mice.

Internet Service is provided to the Issaquah School District by the K-20 network. I-Net2 high speed fiber is leased from King County.

Personal electronic devices may be used by students as outlined in the Electronic Resources policy.

2. Provide a comprehensive technology plan that directs the outcomes and priorities for the expenditure of technology resources.

Interpretation:

All funding for technology in the Issaquah School District comes from the Issaquah community. Every four years the district administrative leadership in collaboration with the Educational Technology Department and with input from schools develops a technology expenditure proposal. The proposal is presented as a springboard to the Community Bond and Levy Committee for their review, input, and revision. After completion of the community process, the plan is presented to the School Board for their final review and revision. With Board approval a proposal is presented to the community for a vote.

Evidence of Compliance:

The most recent Technology Levy was created as outlined above and voted on in February 2014. The community voted to accept the Technology Levy as presented below.

	2014-2015	2015-2016	2016-2017	2017-2018	TOTALS
Staff					
Central Technology Staff	$1,050,000	$1,102,500	$1,157,625	$1,215,506	$4,525,631
Technology Specialists	$850,000	$892,500	$937,125	$983,981	$3,663,606
Instructional Tech Specialists	$208,125	$302,500	$327,500	$352,000	$1,190,125
Total	$2,108,125	$2,297,500	$2,422,250	$2,551,488	$9,379,363
Network					
Server Upgrades/Replacements/Data Storage	$250,000	$250,000	$250,000	$250,000	$1,000,000
Telecommunications software & hardware	$75,000	$75,000	$75,000	$75,000	$300,000
E-mail, Backup SW upgrades, Antivirus, OS software, Internet Filter	$150,000	$150,000	$150,000	$150,000	$600,000
Firewall, routers, packetshapers	$50,000	$50,000	$50,000	$50,000	$200,000
ISD Website, Connect, Moodle, PDPlace	$65,000	$65,000	$65,000	$65,000	$260,000
Voice over IP transitions	$100,000	$100,000	$100,000	$100,000	$400,000

Video Security Maintenance & Upgrades	$75,000	$75,000	$75,000	$75,000	$300,000
Upgrade school MDFs & IDFs cabling	$62,500	$62,500	$62,500	$62,500	$250,000
Network Software, Security detection/protection	$50,000	$50,000	$50,000	$50,000	$200,000
E-rate services	$6,000	$6,500	$7,000	$7,500	$27,000
Wireless higher density expansion, maintenance, upgrades	$375,000	$375,000	$375,000	$375,000	$1,500,000
Homeroom Assessment System	$250,000	$85,000	$85,000	$85,000	$505,000
Student/Fiscal/HR Software License	$325,000	$331,500	$338,130	$344,893	$1,339,523
IOS/MDM for phones/tablets/personal wireless devices	$25,000	$25,000	$25,000	$25,000	$100,000
Backbone Switch Upgrades	$125,000	$125,000	$125,000	$125,000	$500,000
Secondary Video Conferencing	$50,000	$50,000	$50,000	$50,000	$200,000
Student Online Registration/Business Process Automation	$200,000	$65,000	$65,000	$65,000	$395,000
Total	$2,233,500	$1,940,500	$1,947,630	$1,954,893	$8,076,523
For Schools					
Classroom/Lab Replacement Cycle (5 year) & add student use Tablet/Hand held device purchase/replacement	$1,500,000	$1,500,000	$1,500,000	$1,500,000	$6,000,000
Classroom Mobile Devices	$125,000	$125,000	$125,000	$125,000	$500,000
Laptops for Instructional Staff	$250,000	$250,000	$250,000	$250,000	$1,000,000
Laptop Carts 3 per MS, HS, 1 TM	$37,500	$37,500	$37,500	$37,500	$150,000
Library Hardware Allocation	$165,000	$165,000	$165,000	$165,000	$660,000
Library Subscriptions	$70,000	$70,000	$70,000	$70,000	$280,000
Clark Magnet	$5,000	$5,000	$5,000	$5,000	$20,000
Cascade Ridge Magnet	$5,000	$5,000	$5,000	$5,000	$20,000
Briarwood Magnet	$5,000	$5,000	$5,000	$5,000	$20,000
Software Licensing Microsoft	$100,000	$100,000	$100,000	$100,000	$400,000
Non-classroom school staff computers	$105,000	$105,000	$105,000	$105,000	$420,000
Career and Tech Ed allocation	$200,000	$200,000	$200,000	$200,000	$800,000
TechSmart	$25,000	$25,000	$250,000	$25,000	$325,000
Building Tech Team Allocation	$175,000	$175,000	$175,000	$175,000	$700,000
ITP Hardware	$500,000	$500,000	$500,000	$500,000	$2,000,000
Projector Replacement - mounted/interactive (4 year)	$160,000	$160,000	$160,000	$160,000	$640,000
Doc Cam Replacement (5 year) and GradeCam	$150,000	$150,000	$150,000	$150,000	$600,000
Special Education Adaptive Technology	$50,000	$50,000	$50,000	$50,000	$200,000
ESRs (Electronic Student Response System)	$200,000	$200,000	$200,000	$200,000	$800,000
GPS hardware/software for school buses	$75,000	$75,000	$75,000	$75,000	$300,000
Emergency and Communication system	$50,000	$50,000	$50,000	$50,000	$200,000
Total	$3,952,500	$3,952,500	$4,177,500	$3,952,500	$16,035,000
Professional Development					
Issaquah Technology Project	$20,000	$20,000	$20,000	$20,000	$80,000

Tech Stretch, ACTIVstudio, Connect	$50,000	$50,000	$50,000	$50,000	$200,000
Training - Tech Staff	$40,000	$40,000	$40,000	$40,000	$160,000
On-line PD for staff - per diem option	$35,000	$35,000	$35,000	$35,000	$140,000
Stipends - Gradebook, Webmaster, Connexpert	$150,000	$150,000	$150,000	$150,000	$600,000
Staff Professional Development and Maintenance of teacher websites	$1,300,000	$1,350,000	$1,400,000	$1,450,000	$5,500,000
Teacher Tech Training per diem	$400,000	$400,000	$400,000	$400,000	$1,600,000
Total	$1,995,000	$2,045,000	$2,095,000	$2,145,000	$8,280,000
Grand Total	$10,289,125	$10,235,500	$10,642,380	$10,603,880	$41,770,885
Aggregate Summary					
Maintain current service	$9,241,625	$9,316,500	$9,716,750	$9,671,488	$37,946,363
Critical Enhancements	$560,000	$431,500	$438,130	$444,893	$1,874,523
Enhancements	$487,500	$487,500	$487,500	$487,500	$1,950,000
Estimated Tax Impacts (Average)	2014-2015	2015-2016	2016-2017	2017-2018	
Maintain current service	$0	$0	$0	$0	
Critical Enhancements	$0	$0	$0	$0	
Enhancements	$0	$0	$0	$0	
Grand Total	$1	$1	$1	$1	
Category % Per Year (Average)	2014-2015	2015-2016	2016-2017	2017-2018	
Maintain current service	$1	$1	$1	$1	
Critical Enhancements	$0	$0	$0	$0	
Enhancements	$0	$0	$0	$0	
Grand Total	$1	$1	$1	$1	
Planned Calendar Year Levy Amounts	2014-2015	2015-2016	2016-2017	2017-2018	Total
Maintain current service	$8,434,037	$8,874,591	$9,805,879	$10,844,520	$37,959,027
Critical Enhancements	$511,064	$411,033	$442,149	$498,853	$1,863,098
Enhancements	$444,899	$464,376	$491,972	$546,628	$1,947,875
Grand Total	$9,390,000	$9,750,000	$10,740,000	$11,890,000	$41,770,000
	$9,390,000	$9,750,000	$10,740,000	$11,890,000	$41,770,000

3. Provide access to advanced, technologically rigorous courses for students.

Interpretation:

I interpret this to mean that the district offers technology courses providing advanced technology experiences and equipment for students in which they focus specifically on content that challenges them to think, create, and innovate in ways otherwise unavailable to them.

Evidence of Compliance:

The following classes are technologically rigorous as defined by the software and hardware students learn to use while in the class:

High School • Intro to Engineering (PLTW) (Issaquah, Liberty) • Engineering Robotics (Issaquah • Robotics (Issaquah) • Robotics Lab (Skyline) • Introduction to Computer Science (Issaquah, Liberty, Skyline) • AP Computer Science (Issaquah, Liberty) • IB Computer Science SL and HL (Skyline) • Advanced Computer Topics (Issaquah) • Web Design (Issaquah, Liberty, Skyline) • Video Production 2/3, iVision (Skyline, Issaquah) • Graphic Design 1 (Issaquah, Liberty, Skyline) • Graphic Design 2 (Issaquah, Skyline) • Graphic Design 3 (Issaquah, Skyline • Interactive Media 1 (Issaquah) • Photography 1 (Issaquah) • Photography 2 (Issaquah) • Journalism 1 (Issaquah) • Journalism 2 (Issaquah) • Journalistic Writing (Liberty, Skyline) • Advanced Journalistic Writing (Skyline) • TV/Video Production 1 (Issaquah, Liberty, Skyline) • TV/Video Production 2 (Issaquah, Liberty, Skyline)	Middle School • Digital Photography (IMS,MMS, PLMS, BLMS, PCMS) • TV & Video Production (IMS, BLMS, PLMS, PCMS) • Automation and Robotics (MMS) • Electronics (PLMS) • Web Design (BLMS) Elementary School • *Science Tech Magnet Program serving 4th and 5th grades*

• TV/Video Production 3 (Liberty, Skyline) • Yearbook 1 (Issaquah, Liberty, Skyline) • Yearbook 2 (Issaquah, Skyline) • Yearbook 4 (Issaquah) • Yearbook Editor (Liberty)	

4. Establish expectations of use of technology by staff and students.

Interpretation:

I interpret this to mean that

- All middle school students will complete the required TechSmart class to assure they understand and can use technology as a learning tool in multiple ways throughout their classes and learning activities. TechSmart curriculum is updated yearly.

School	# of students who took Tech Smart 2014-15	Student FTE P223 Oct. 2014	% of students who take TechSmart in Middle School
Issaquah MS (6th grade)	231	242	95%
Maywood MS (6th grade)	359	375	96%
Pine Lake MS (6th grade)	289	292	99%
Beaver Lake MS (6th grade)	278	283	98%
Pacfic Cascade MS (7th grade)	298	318	94%

- Staff will integrate technology appropriately throughout their curriculum and student learning activities to provide an environment where students use technology as they would use any other tool to learn, create, produce, publish, and collaborate.
- The adoption process for Teaching and Learning Services includes representation from the Educational Technology department to provide guidance and input on technologies to support curriculum and student learning.

Evidence of Compliance:

- Written in the IEA-ISD contract is the goal of providing a powerful student centered 21st century learning environment where students are actively engaged in using technology in individual and collaborative learning activities – also called Tier 3 classrooms.
- Technology Levies generously approved by our community for the Issaquah School District have provided the technology resources for all of our schools to have high level access to equipment and to the Internet.

- Technology Levies also have provided training for teachers so those who have participated have the background to create classrooms that have the instruction and daily student learning experiences students need to reach E-4.

5. Maintain a computing environment that is safe, secure and reliable for students and staff.

Interpretation:

I interpret this to mean that the Issaquah School District Information Technology Department uses every tool available to provide a safe, secure, and reliable network and learning environment for students and staff.

Evidence of Compliance:

- Internet Safety Training provided yearly to all students K-12.
- All students must sign the Student Acceptable Use Policy.
- Central CIPA filtering device also blocks access to known malware sites; updates real-time.
- Centrally managed antivirus/antispyware on all district windows machines; updates daily.
- Centrally managed windows security updates – 2 times per month andas needed.
- Inbound Internet e-mail scanned for viruses and malware; updates hourly.
- Server storage access secured by district network account permissions.
- Nightly backups of server-based files to disc or tape; tapes rotated into fire-proof safe storage.
- Disc backup located in different physical location (IVE) from server storage (Admin).
- BYOD wireless Internet-access network firewalled from ISD network, and from peer-to-peer communication.
- Redundant firewalls protect ISD against Internet attacks.
- Redundant power source to help ensure the network keep running.
- The ISD network had a 99.99% up time between May 2014 and May 2015. There was an approximate 36 hour network outage due to power and AC failure.
- The ISD phone system also maintained a 99.99% up time during the 2014-15 school year. The table below outlines the dates and times the phones were down.

Date	School	Phones Down	Back Up	Total Down Time	Reason
5/7/2015	Tiger	11:42 AM	*9:56 AM*	22:14	Telco Issue
5/6/2015	Sunny Hills	10:39 AM	10:53 AM	0:14	T1 down/Hardware failure
4/2/2015	Tiger	2:39 PM	4:29 PM	1:50	T1 down/Hardware failure
5/13/2015	Tiger	7:53 AM	8:19 AM	0:26	T1 down/Hardware failure
2/23/2015	Tiger	7:28 AM	2:50 PM	7:22	Telco Issue
2/11/2015	Tiger	7:46 AM	8:16 AM	0:30	T1 down/Hardware failure
2/9/2015	Pine Lake	7:52 AM	3:15 PM	7:23	Telco Issue
1/20/2015	Pine Lake	2:50 PM	3:05 PM	0:15	T1 down/Hardware failure
1/20/2015	Pine Lake	7:40 AM	8:26 AM	0:46	T1 down/Hardware failure
1/15/2015	Tiger	2:03 PM	4:39 PM	2:36	T1 down/Hardware failure
1/5/2015	Pine Lake	8:00 AM	8:35 AM	0:35	T1 down/Hardware failure
12/10/2014	Transportation & PLMS	7:42 AM	11:06 AM	3:24	Telco Issue
11/7/2014	Discovery	7:31 AM	7:35 AM	0:04	T1 down/Hardware failure
TOTAL 2014-15 School Year				**47:39**	**99.99% up time**

Violations of the Student Acceptable Use Policy resulting in student discipline are shown in the table below.

School	Inappropriate Computer Use		Cellular Phone		Electronic Devices	
	Students	Infractions	Students	Infractions	Students	Infractions
Beaver Lake Middle School	0	0	0	0	0	0
Issaquah Middle School	0	0	1	1	0	0
Maywood Middle School	1	1	19	22	2	2
Pacific Cascade Middle School	1	1	0	0	0	0
Pine Lake Middle School	0	0	0	0	0	0
Issaquah High School	4	4	0	0	0	0
Liberty High School	1	1	0	0	0	0
Skyline School High	21	22	34	37	1	1

6. Prohibit the use of technology resources for commercial, political, illegal or indecent purposes or that disrupts the learning environment of students.

Interpretation:

I interpret this to mean that all staff and students are provided with the appropriate Acceptable Use Policy which they read and sign. The Acceptable Use Policy describes appropriate and inappropriate use of the district network and district technology resources.

Evidence of Compliance:

All of the prohibitions listed in item 6 were included in the Acceptable Use Policy and Procedures. It was posted on the Educational Technology site on the Intranet.

Capacity Building

Capacity building items from the 2015 monitoring report were addressed and there are no additional items at this time.

Board Approval: