



Why is it necessary to conduct Energy Audits

Making sure HVAC units are in set-back during off hours

HVAC is hitting the network

The following are off during off hours

- Lights
- Computers
- Monitors
- Printers
- Laminators



Energy Management & Compliance Standards

The following items need to be turned off at the end of each day or when not in use.

- Computers (exception computer with the Raptor system may stay on during the week, turn off on the weekends and holidays shutdowns)
- Monitors (including the Raptor system)
- Lights (or when Classrooms, Offices, Workrooms, Lounges, Gyms, & Cafeterias are unoccupied)
- Laminators
- TV Monitors

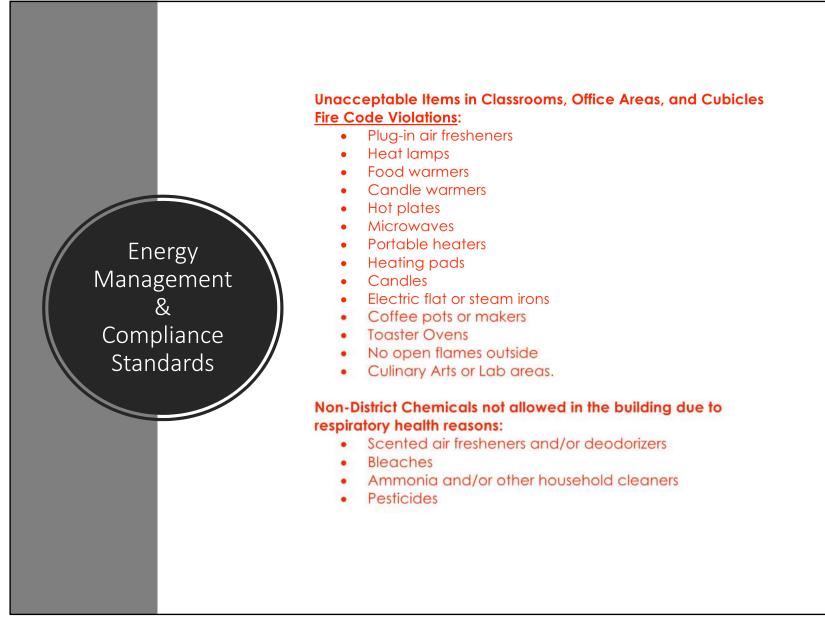
The following need to be closed while the HVAC is on during the day.

- Windows
- Exterior Doors
- Doors from the hallways to Foyers, Classrooms, Office Entries, Workrooms, Lounges, Gyms, & Cafeterias

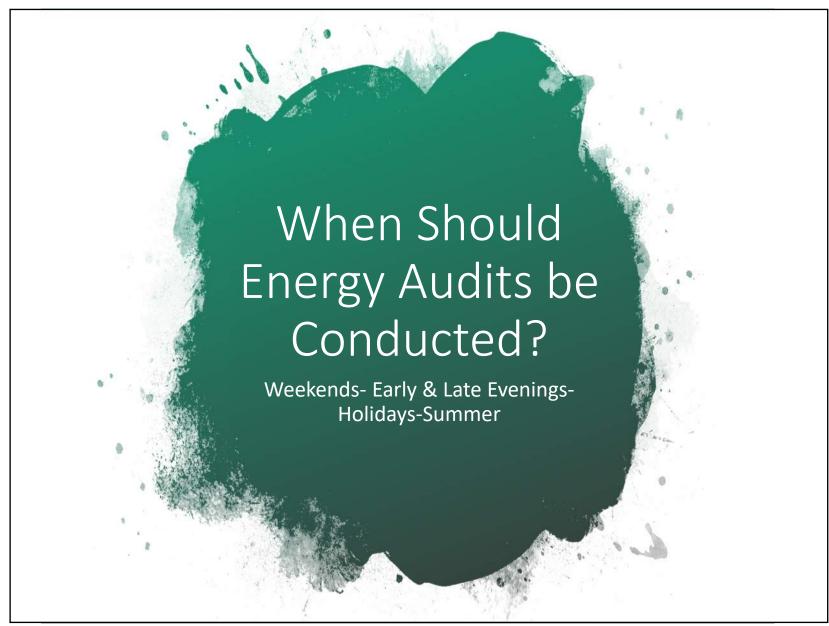
Acceptable Items in Designated Areas

- Refrigerators (Lounge/Kitchen)
- Food Warmers (Lounge/Kitchen)
- Hot Plates (Lounge/Kitchen)
- Microwaves (Lounge/Kitchen)
- Coffee Pots/Makers (Lounge/Kitchen)
- Toaster Ovens (Lounge/Kitchen)
- Heat Lamps (Clinic/Training Room)
- Heating Pads (Clinic/Training Room)











How do you conduct the Audit?

Items you will see

What should I report?

How detailed should you be?

How do you explain what you see?

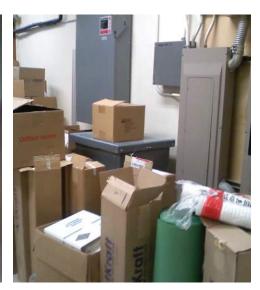
Who should you report the audit to?

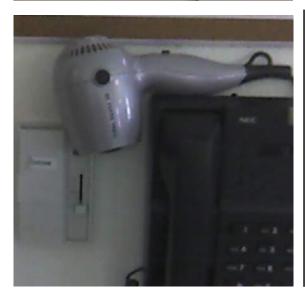
Have you seen any of the following at your district?











Daytime Audits

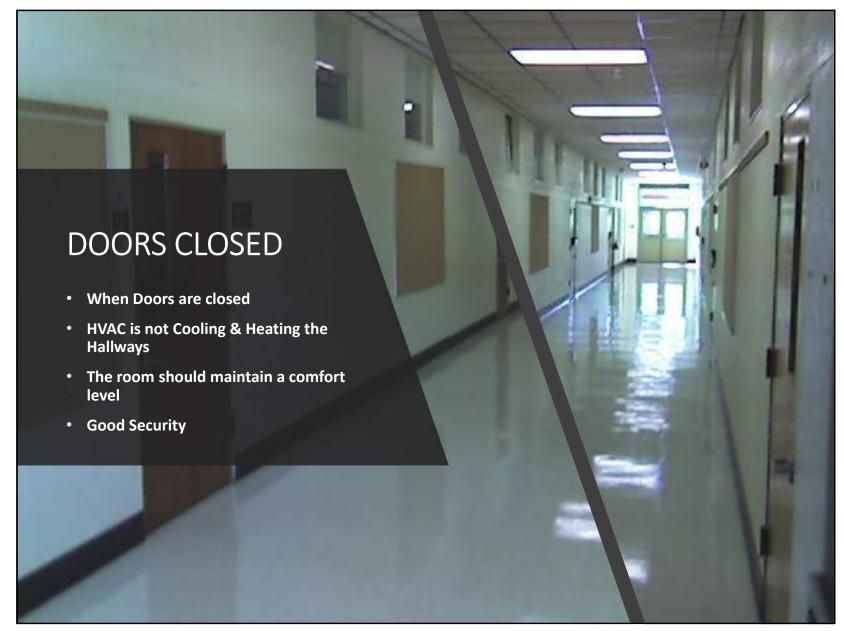




Daytime Audit

Doors should be closed

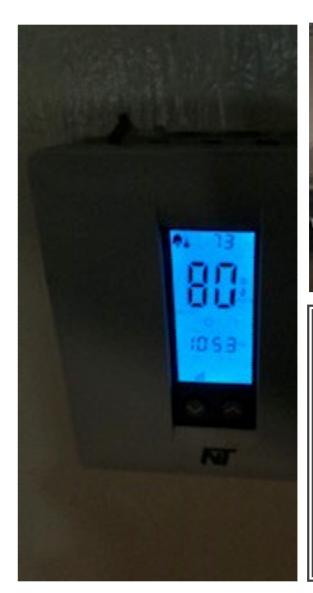














Late Night Audits

This is why you go out and Audit Buildings





Jerry Palermo, ATEM Ex3 Facility Solutions, LLC jerry@buildingvault.com 214.533.2404 (Mobile)



Weekend Audits



What do you do?













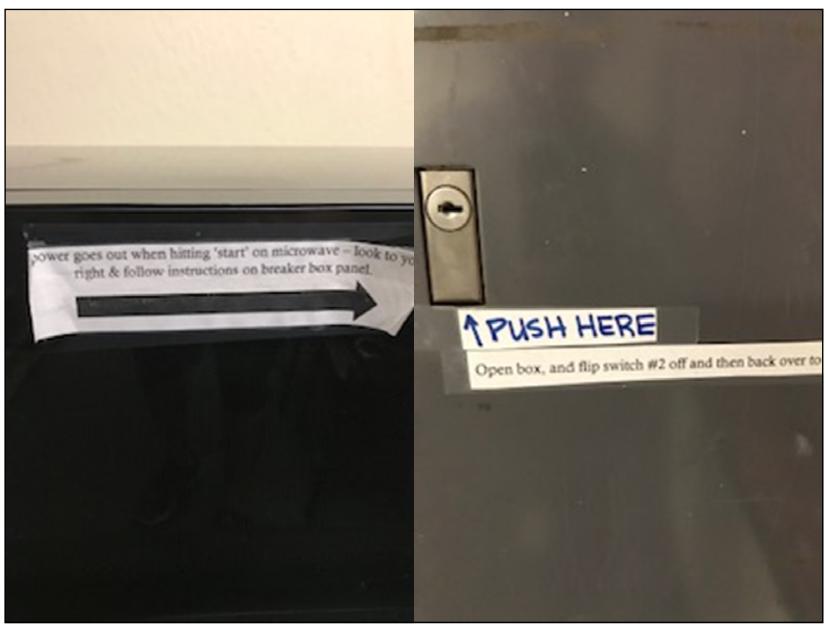






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Holiday Audits





Christmas Break







They Know You Are Coming.

This is why you audit the buildings.



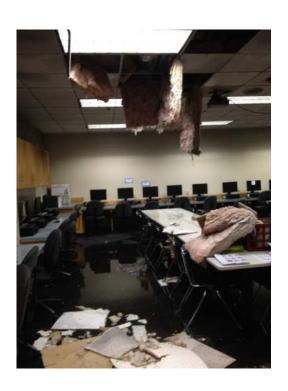




Refrigerators-Microwaves-Coffeemakers Do we really need to have this happen?

\$\$\$\$\$ in Damages







Thank you for supporting the GPISD Energy Efficiency & Compliance Program The following were off AFTER HOURS: Computer Monitor Lights Thank you for complying and not having the following in the room: Plug-In Air Fresheners Scented Air Fresheners Candle Warmer Portable Heater Candles Portable Heater Personal Refrigerator Your Help Is Greatly Appreciated, and might save a position in the District or maybe possible future bonuses. (As seen in the past) (Tip: Any time your door is closed your alc operates more efficiently) Jeremy Wirth Energy Manager 972.343.4481	This is only a "Friendly Reminder". The Following was "ON" After Hours. Monitor Computer Refrigerator (during the break) I Turned it Off!! Please push the button on the computer to shutdown, (Don 1 do a restant) Fire Code Violation Indoor Air Quality Violations Please Remove Plug-In Air Fresheners Coffee Makers Hot Plates Scented Air Fresheners Portable Heater Microwave Candle Warmer Candles Toaster Ovens Non - LED Bulbs Personal Refrigerator (counts against audit) Turning off Computers, Monitors, and Lights helps save \$\$\$ for the district for positions and possible future bonuses. (As we have seen in the past). Thank you, Jeremy Wirth Facility Management 972,343,4481
Energy Star & Fr	iendly Reminders







Audit Report Documentation

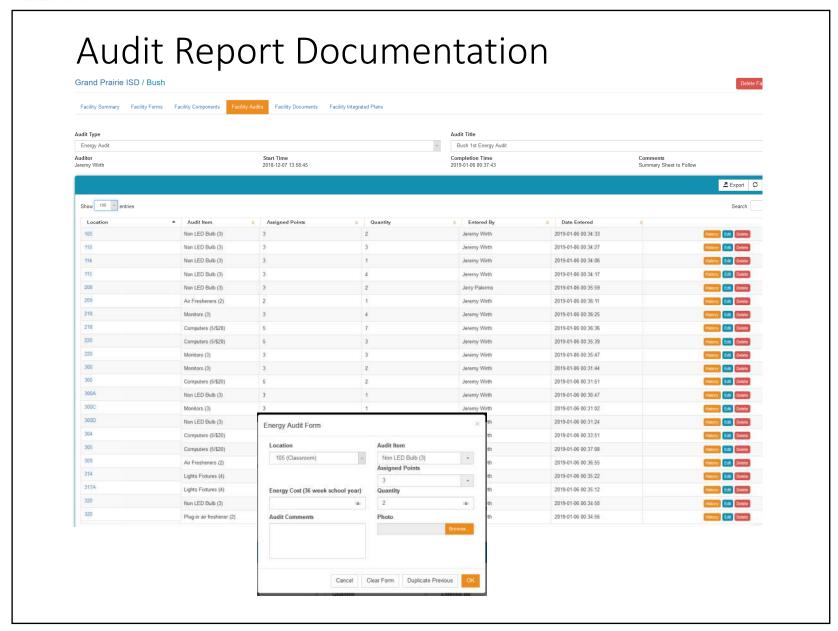
ENERGY AUDIT WALK-THROUGH REPORT

 School
 GPHS
 Date Thursday, April 26, 2006

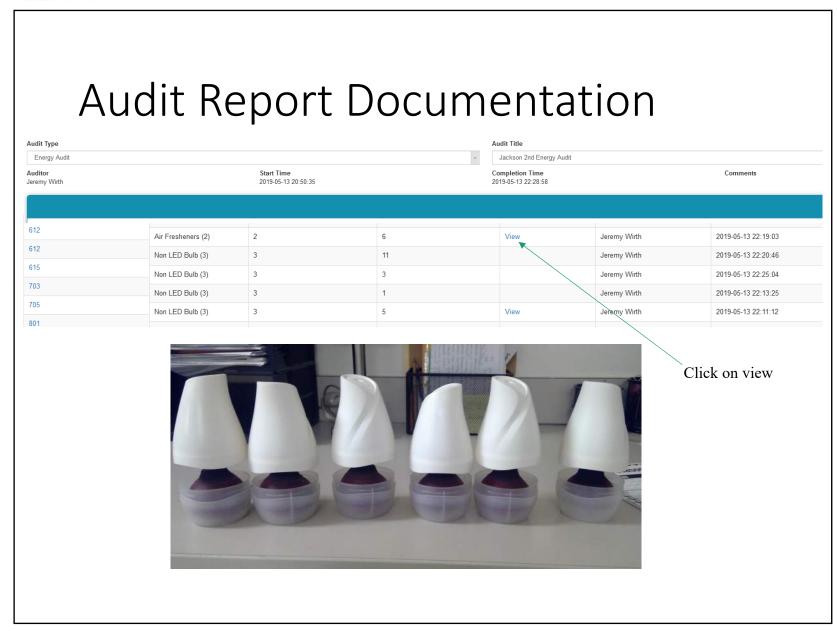
 Principal
 Rose Brenner
 Time 10:33 AM - 11:54 AM

Printers On Rooms	Computers On Rooms	Monitors on Rooms	Lights on Unoccupied Rooms	Doors Open Rooms	TV Monitors on Rooms
111	Year Book Office (3)	111	Custodial Closet - 500		
Year Book Office	206	102	Boy's RR - 600 Hall		
515	Main Office	103 (16)			
223		200A			
Spec Ed Office (2)		908			Copiers On Rooms
206		Main Office (7)			
409		Cosmetology			
407		Ceramics			Laminator On Rooms
307					
700					
701 (4)					HVAC On Rooms
Main Office (2)					
			Total		
			2		
			\$1.73		
			Refrigerator On		Windows Open Rooms
			505A		
			Kelly's Office		
		1			
		-			
		Total Item	s Left On		l
17	5	29	2		55
	Co	st			Total Cost
\$44.06	\$17.28	\$75.17	\$1.30		\$139.54











Audit Report Documentation

BUILDING WAL	ULT .			Bush 1st Ene	rgy Audit					
Date	Start Time	Completion Time								
1/6/2019		12:35 AM								
	Computers (5/\$20)		Plug-in air freshener (2)	Air Fresheners (2)	Candles (3)	Microwaves (5)	Candle Warmers (3)	Monitors (3)	Non-LED Bulb (3)	Item Total
Room #	5	4	2	2	3	5	3	3	3	
205					0		8	8	1	1
100A					2	8 1		į.		2
100		The state of the s		7				2	**************************************	2
202		i		1			i i	2	i i	3
104	*	- 11	is a second			10		8	1	1
106C								2	1	3
112C								2		2
112D					1		1		3	5
114A								2		2
113B						1			1	2
113A								2	1	3
100B									1	1
101C									1	1
211	1							1	1	3
207									2	2
115			1							1
311								3		3
309		1								1
606				1						1
610								1		1
400	24							17		41
402								1	1	2
413								1		1
401B	1								4	5
415	2							2		4
Item Total	28	1	1	2	3	1	1	38	18	93
Points Total	140	4	2	4	9	5	3	114	54	335



Audit Report Incentiv<u>es</u>

Incentive Money 2017-2018

	A	В	С	D	E	F
1	Site	Туре	1st Audit Report	2nd Audit Report	3rd Audit Report	Totals
2	Adams	MS	169	484	16	669
3	Arnold YWLA	MS	25	65	20	110
4	Fannin	MS	205	176	256	637
5	GPFAA	HS	187	115	8	310
6	Jackson	MS	376	173	24	573
7	Kennedy YMLA	MS	108	103	72	283
8	Lee	ES	249	154	48	451
9	Reagan	MS	232	182	100	514
10	SGPHS Alexander	HS	560	549	12	1,121
11	Travis	ES	172	204	152	528
12	Truman	MS	276	94	204	574
13						
14	Site	Туре	1st Audit Report	2nd Audit Report	3rd Audit Report	Totals
15	Dubiski	HS	287	289	8	584
16	GPHS	HS	728	362	216	1306
17	SGPHS	HS	1140	757	56	1953
18						
19	Site	Туре	1st Audit Report	2nd Audit Report	3rd Audit Report	Totals
20	Austin	ES	436	505	88	1,029
21		ES	87	338	8	433
22	Bowie	ES	171	145	12	328
	Bush	ES	47	148	144	339
24	Crockett	ES	39	479	12	530
25	Crosswinds	HS	193	273	36	502
26		ES	414	361	36	811
27	De Zavala	ES	96	20	40	156
	Dickinson	ES	230	102	172	504
29		ES	497	426	120	1,043
30		1	-		120	
	IFlorence Hill	IFS	137	1 38	184	359
31	Florence Hill Garcia	ES FS	137	38	184 68	359 426
31 32	Garcia	ES	35	323	68	426
32	Garcia Garner	ES ES	35 154	323 45	68 160	426 359
32 33	Garcia Garner Houston	ES ES HS	35 154 121	323 45 101	68 160 80	426 359 302
32 33 34	Garcia Garner Houston Johnson	ES ES HS ES	35 154 121 134	323 45 101 195	68 160 80 124	426 359 302 453
32 33 34 35	Garcia Garner Houston Johnson Marshall	ES ES HS ES	35 154 121 134 179	323 45 101 195 82	68 160 80 124 48	426 359 302 453 309
32 33 34 35 36	Garcia Garner Houston Johnson Marshall Milam	ES ES HS ES ES	35 154 121 134 179 63	323 45 101 195 82 58	68 160 80 124 48	426 359 302 453 309 129
32 33 34 35 36 37	Garcia Garner Houston Johnson Marshall Milam Moore	ES ES HS ES ES ES	35 154 121 134 179 63 141	323 45 101 195 82 58 362	68 160 80 124 48 8	426 359 302 453 309 129 535
32 34 35 36 37 38	Garcia Garner Houston Johnson Marshall Milam Moore Moseley	ES ES HS ES ES ES ES ES	35 154 121 134 179 63 141 493	323 45 101 195 82 58 362 44	68 160 80 124 48 8 32 56	426 359 302 453 309 129 535 593
32 33 34 35 36 37 38	Garcia Garner Houston Johnson Marshall Milam Moore Moseley Powell	ES ES HS ES ES ES ES ES ES ES	35 154 121 134 179 63 141 493 37	323 45 101 195 82 58 362 44	68 160 80 124 48 8 32 56 36	426 359 302 453 309 129 535 593
32 34 35 36 37 38 39 40	Garcia Garner Houston Johnson Marshall Milam Moore Moseley Powell Rayburn	ES ES HS ES ES ES ES ES ES ES ES	35 154 121 134 179 63 141 493 37 88	323 45 101 195 82 58 362 44 16 36	68 160 80 124 48 8 32 56 36	426 359 302 453 309 129 535 593 89 236
32 34 35 36 37 38 39 40	Garcia Garner Houston Johnson Marshall Milam Moore Moseley Powell	ES ES HS ES ES ES ES ES ES ES	35 154 121 134 179 63 141 493 37	323 45 101 195 82 58 362 44	68 160 80 124 48 8 32 56 36	426 359 302 453 309 129 535 593



Audit Report Items

1st Audit Report | 2nd Audit Report | 3rd Audit Report Items Left on Computers Monitors 902 1077 Printers 465 Lights On Unoccupied 99 Doors open to Areas 250 TV Monitors 0 Copiers Laminators Windows open during the day Non Instructional Non Acceptable Items in Rooms # of Points Microwaves 130 110 Candle warmers 31 28 Hot plates/Food warmers/Heat lamps/Heating Pads 0 1 0 Plug-in air fresheners/Scented air fresheners 106 84 Candles 111 Coffee Pots/Makers 29

24

27

Audit Points 2011

Audit Points 2017-2018

Items Left on	1st Audit Report	2nd Audit Report	ard Audit Report
Computers	514	603	0
Monitors	980	622	0
Printers	12	6	0
Lights On Unoccupied	1.47	./8	521
Doors open to Areas	C	C	232
TV Monitors	o	C	O
Copiers	c	C	0
Laminators	2	o o	0
Windows open during the day	G	C	C
Non Instructional Non Acceptable Items in Rooms	Il of Polots		
Refrigerators*)	(111)	(84)	ů.
Microwaves	53	44	0
Candle warmers	RE	35	A
Candle	85	54	0
Hot plates/Food warmers/Heat lamps/Heating Pads	1	0	0
Plug-in air fresheners/Scented air fresheners	235	98	0
Coffee Pots/Makers	45	41	0
Toaster Ovens	2	2	0
Portable Heaters*	35	45	Đ
Electric Flat/Steam Irons	0	e e	Ð

Portable Heaters*

Electric Flat/Steam Irons