CITY COUNCIL AGENDA
Monday, October 26, 2015

Workshop – 7:00 p.m.

WS-1 Executive Session - Non-Elected Personnel Matters

Council Meeting – 7:30 p.m.

1. John Helin Proclamation

2. Citizen Concerns About Items Not on Today's Agenda. (Copies of written material presented to the City Council also needs to be provided to the City Clerk.)

   CONSENT AGENDA - If a Councilmember has a simple question about an item, it can be asked before the Mayor calls for the vote on the Consent Agenda. An item only needs to be removed from the Consent Agenda if it warrants discussion.

3. Minutes of the October 12, 2015 City Council Meeting

4. Claims for City Operations for October 26, 2015

5. Public Housing Authority Claims for October 26, 2015

6. Appointments to Boards and Commissions

7. Private Use of Public Streets Request

8. Extend Audit Contract with Mize & Houser for 2015 Audit

   REGULAR MEETING AGENDA

9. Project Acceptance and Final Payment for Riverview Waterline

10. Ordinance to Establish City Manager Salary and Contract

11. City Manager's Report

12. City Council Items

13. Mayor's Report

City of Bonner Springs

P. O. Box 38, 205 East Second Street, Bonner Springs, KS 66012

WORKSHOP MEETING

7:00 p.m.

REGULAR CITY COUNCIL MEETING

7:30 p.m.

CITY HALL COUNCIL CHAMBERS

Monday, October 26, 2015

Life is Better in Bonner Springs

Phone: 913-422-1020 Fax: 913-441-1366 Website: www.bonnersprings.org

ITEM NO. WS-1

City Council Workshop Agenda
Monday, October 26, 2015 – 7:00 p.m.

MOTION: _____ **SECOND:** _____

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

AGENDA ITEM: Executive Session - Non-Elected Personnel Matters

ITEM NO. 1.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: John Helin Proclamation

ACTION: Presentation by the Mayor to City Manager Jack Helin

STAFF RECOMMENDATION: None

ITEM NO. 2.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Citizen Concerns About Items Not on Today's Agenda. (Copies of written material presented to the City Council also needs to be provided to the City Clerk.)

ACTION: None

STAFF RECOMMENDATION:

This item is for comments and questions from the audience about items that are not included on today's agenda.

CONSENT AGENDA

The City Council will consider Consent Agenda items by one motion with no discussion unless the City Council, Staff or the audience requests removal of an item from the Consent Agenda. The City Council will consider an item removed from the Consent Agenda as the next item after their action on the Consent Agenda.

ITEM NO. 3.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Minutes of the October 12, 2015 City Council Meeting

ACTION: Make a Motion to Approve the Minutes of the Regular Meeting Held on October 12, 2015

STAFF RECOMMENDATION: The City Clerk Recommends Approval

Enclosed are the minutes for approval.

City Council Workshop Meeting – Monday, October 12, 2015 – 6:45 p.m.

Governing Body Present: Mayor Jeff Harrington; Councilmembers: Tom Stephens, George Cooper, Dani Gurley and Joe Peterson , Mike Thompson, Mark Kipp and Rodger Shannon
Governing Body Absent: Bob Reeves
City Staff Present: Jack Helin, City Manager; Amber McCullough, City Clerk and Barb Bille, Property Maintenance Code Enforcement Officer and Carrie Newton, Public Housing Authority Director

WS – 1– Review Response Letter to Mr. Guy Tiner – The Property Maintenance Code Enforcement Officer presented:

- Guy Tiner appeared before the City Council during the Public Comment portion of the September 28 City Council meeting and expressed concerns about how the City cited and enforced weed regulations.
- Staff prepared a response to Mr. Tiner to address his concerns and questions.

The City Council reached consensus with no opposition to send the letter with minor changes.

WS – 2 – PHA Equal Opportunity Housing Plan – The Public Housing Director presented:

- The current Equal Opportunity Housing Plan for the Bonner Springs Public Housing Authority (PHA) was created in 1991.
- Staff recommended updates to the policy as follows:
  - Remove references to "Section 8" as the PHA no longer offers Section 8.
  - Correct the existing amount of each size unit.
  - Correct the waiting list preference to show preference is given to elderly families first, then disabled families and then working families.
  - Correct the policy to reflect no preference is given based on current address.
  - Remove the employment preferences.
  - Correct the salary statement to show the City is reimbursed by the Department of Housing and Urban Development for staff salaries.

The City Council reached consensus with no opposition to address this item on the October 12 Consent Agenda.

WS – 3 – PHA No Smoking Policy – The Public Housing Authority Director presented:

- Staff recommended the City implement a non-smoking policy for all Bonner Springs Housing Authority units.
- The Department of Housing and Urban Development urges all Public Housing to be non-smoking.
- Staff presented a plan to implement and enforce a non-smoking policy in the Public Housing units.

The City Council reached consensus with no opposition to move forward with a non-smoking proposal for Public Housing units.

The meeting adjourned at 7:21 p.m.

City Council Minutes – Regular Meeting – Monday, October 12, 2015

The Bonner Springs City Council met in regular session at 7:30 p.m. on Monday, October 12, 2015.
Governing Body Present: Mayor Jeff Harrington; Councilmembers: Tom Stephens, George Cooper, Mark Kipp, Rodger Shannon, Dani Gurley, Joe Peterson and Mike Thompson
Governing Body Absent: Bob Reeves
City Staff Present: Jack Helin, City Manager; Amber McCullough, City Clerk; Skip Dobbs, Parks and Recreation Director

The Mayor introduced Andrew Butzbach, Boy Scout Troop 149, who led the Pledge of Allegiance to the Flag of the United States of America.
Item No 1. – National Business Women's Week Proclamation – The Mayor presented a Proclamation to members of the Bonner Springs Business and Professional Women's Organization in recognition of National Business Women's Week. Members invited everyone to join the Bonner Springs Business and Professional Women's organization as they celebrate their 70-year anniversary on November 10, 2015 in the Sunflower Room at the Community Center.
Item No. 2 – Citizen Concerns About Items Not on Today's Agenda – None Presented.

CONSENT AGENDA

The Mayor read the Consent Agenda Items 3 through 8 and asked the staff, audience or City Council if they wished to remove an item for separate consideration. No items were removed.
Item No. 3 – Minutes of the September 28, 2015 City Council Meeting – Presented for approval.
Item No. 4 – Claims for City Operations for October 12, 2015 - Presented for approval were the Supplement Claims in the amount of $117,272.07 and Regular Claims in the amount of $331,170.57.
Item No. 5 – Public Housing Authority Claims – October 12, 2015 – Presented for approval in the amount of $2,355.65.
Item No. 6 – Street Closure for JMS Entertainment dba 3rd Street Asylum – JMS Entertainment dba 3rd Street Asylum requested the City close Third Street between Cedar and Maple for street performers October 30, 2015 from 7:00 p.m. to 11:00 p.m.
Item No. 7 – Midwest Balloon Fest Carnival Permit – Big C's Enterprises dba Fun Time Shows applied for a Carnival Permit for the Midwest Balloon Fest for October 23 and 24, 2015. The approval is contingent upon satisfactory inspection.
Item No. 8 – PHA Equal Opportunity Housing Plan – The City Council discussed in the Workshop meeting proposed updates to the Public Housing Authority Equal Opportunity Housing Plan. **Assigned Resolution No. 2015-08.**

CONSENT AGENDA APPROVAL

Cooper made a Motion to Approve the Consent Agenda. Stephens seconded the motion and it carried on a vote of seven to zero.

REGULAR MEETING AGENDA

Item No. 9 – Parks and Recreation Slides – The Parks and Recreation Director presented:
- Staff recommended the City Council approve the purchase of a drop slide - $19,185 and a family slide - $11,145 for the Aquatic Center for a total cost of $30,330.
- The drop slide will be installed on the deck on the side of the diving well.
- The family slide will be installed on the deck in the shallow area of the pool.
- Parks and Recreation has adequate budget authority for both slides with $30,000 in the General Fund and $16,000 in the Special Parks and Recreation Fund.

Stephens made a Motion to Approve the Purchase of Two Pool Slides from Natural Structures. Gurley seconded the motion and it carried on a vote of seven to zero.
Item No. 10 – City Manager's Report – The City Manager reported:
- Staff reviewed speed limit regulations about six months ago. Changing the standard speed limit is prohibitive and requires the City to conduct an engineering study which documents the speed of drivers on a given street, and setting the speed at the 85th percentile. Studies show there is no significant change in average vehicle speeds following the posting of revised speed limits.

- The contractor will complete the Concrete Replacement Program work on East Morse, Armour and the 100 block of Allcutt by the end of the week.
- Staff included Midwest Balloon Fest VIP passes in the agenda packets for the Council members.
- Staff provided City Council members a copy of the email string between the Edwardsville City Manager and the Bonner Springs City Manager regarding the proposed sewer interlocal agreement. The City Manager asked the Council members to review the email string and discuss. Staff included a copy of the proposed Interlocal Agreement in the agenda. The City of Edwardsville is not sure if they want a formal Interlocal Agreement or a Memorandum of Understanding. City staff recommended a formal Interlocal Agreement and there was Council consensus for an Interlocal Agreement.

Item No. 7 – City Council Items –

- Cooper stated the Braves are doing good
- Gurley stated she appreciates the "No Parking" signs on Pratt.
- Thompson thanked everyone for their concern during his hospital stay.

Item No. 8 – Mayor's Report – The Mayor reported:

- Attended the League of Kansas Municipalities conference. The legislators who spoke understand the importance of local government to quality of life and public safety.

The meeting adjourned at 8:06 p.m. _____ Amber McCullough, City Clerk

ITEM NO. 4.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Claims for City Operations for October 26, 2015

ACTION: Make a Motion to Approve the Claims for City Operations for October 26, 2015

STAFF RECOMMENDATION: The City Manager and City Clerk Recommend Approval

Enclosed are the Supplement Claims for City Operations in the amount of $24,534.04 and the Regular Claims in the amount of $157,211.10.

Note: If a Councilmember has questions on any of the claims, it would be helpful to call or email ahead in order to get a detailed answer.

Check Register Report

SUPPLEMENTAL CHECK REGISTER

Date: 10/21/2015
Time: 2:33 pm
Page: 1

Bonner Springs City Hall

BANK: UNION BANK & TRUST

Check Number	Check Date	Status	Void/Stop Date	Vendor Number	Vendor Name	Check Description	Amount
UNION BANK & TRUST Checks							
128339	10/09/2015	Printed		5184	AT & T MOBILITY	MOBILE PHONE SERVICE	2,034.12
128340	10/09/2015	Printed		2470	ATMOS ENERGY	GAS SERVICE	94.21
128341	10/09/2015	Printed		7193	CHASE PROCESSING	PAYROLL DEDUCTIONS	670.00
128342	10/09/2015	Printed		7504	WENDY GONZALEZ	RENTAL DEPOSIT REFUND	100.00
128343	10/09/2015	Printed		0898	ICMA RETIREMENT CORPORATION	PAYROLL DEDUCTS/BENEFITS	4,663.24
128344	10/09/2015	Printed		2195	KANSAS PAYMENT CENTER	PAYROLL DEDUCTIONS	578.82
128345	10/09/2015	Printed		2014	KCPL	ELECTRIC SERVICE	500.42
128346	10/09/2015	Printed		9879	MAINSTREET CREDIT UNION	PAYROLL DEDUCTIONS	2,687.82
128347	10/09/2015	Void	10/09/2015			Void Check	0.00
128348	10/09/2015	Void	10/09/2015			Void Check	0.00
128349	10/09/2015	Void	10/09/2015			Void Check	0.00
128350	10/09/2015	Printed		6709	NUTS & BOLTS	MAINT & BUILDING SUPPLIES	609.94
128351	10/09/2015	Printed		1811	RICOH USA, INC.	COPIER LEASES	655.22
128352	10/09/2015	Printed		2842	GERTALDINE SESTRIC	RENTAL DEPOSIT REFUND	100.00
128353	10/09/2015	Printed		3790	WESTAR ENERGY	ELECTRIC SERVICE	11,840.25
				Total Checks: 15		**Checks Total (excluding void checks):**	**24,534.04**
				Total Payments: 15		**Bank Total (excluding void checks):**	**24,534.04**
				Total Payments: 15		**Grand Total (excluding void checks):**	**24,534.04**

Check Register Report

CHECK REGISTER

Date: 10/21/2015
Time: 2:37 pm
Page: 1

Bonner Springs City Hall

BANK: UNION BANK & TRUST

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UNION BANK & TRUST Checks							
128354	10/20/2015	Printed		7508	TERESA ADCOX	RENTAL DEPOSIT REFUND	100.00
128355	10/20/2015	Printed		6000	APAC	ROCK -PW	222.10
128356	10/20/2015	Printed		7449	APEX ENVIROTECH, INC.	LAB TESTING -UT	2,218.00
128357	10/20/2015	Printed		7084	AT&T U-VERSE	INTERNET SVC 9/10/15-10/9/15	354.00
128358	10/20/2015	Printed		2470	ATMOS ENERGY	GAS SERVICE	706.84
128359	10/20/2015	Printed		0109	BERNING TIRE COMPANY	TIRES & FLAT REPAIR-TIBLOW,PW	382.33
128360	10/20/2015	Printed		2849	BOCKYN LLC	RECREATION SOFTWARE FEES	150.00
128361	10/20/2015	Printed		7027	BONNER SPRINGS ANIMAL CARE CTR	VET SERVICES-PD	613.00
128362	10/20/2015	Printed		4172	BOUND TREE MEDICAL	UNIFORM & MEDICAL SUPPLIES-EMS	630.39
128363	10/20/2015	Printed		7070	CAPITAL ELECTRIC CONTRUCTION C	EXHAUST FAN- COMM CNTR	1,007.68
128364	10/20/2015	Printed		4847	DUSTIN CARE	MILEAGE EXPENSE 9/10-10/5	86.25
128365	10/20/2015	Printed		0203	CARTER WATERS	ADA SIDEWALK PANELS-PW	542.64
128366	10/20/2015	Printed		7102	CENTRAL SECURITY GROUP-	SECURITY SYSTEM MONITORING	122.00
128367	10/20/2015	Printed		0213	COLEMAN EQUIPMENT INC	SEED/FERTILIZER SPREADER-P&R	791.46
128368	10/20/2015	Printed		1413	CONCORDIA TRACTOR, INC	EQUIPMENT REPL PARTS-PW	344.00
128369	10/20/2015	Printed		0222	CONRAD FIRE EQUIPMENT INC	VEH MAINT/REPAIRS-FIRE	105.05
128370	10/20/2015	Printed		0238	DEFFENBAUGH DISPOSAL SERVICE	DUMPSTER RENTALS	97.00
128371	10/20/2015	Printed		7510	THOMAS EDMONDSON	REFUND GRAVE OVERPAYMENT	20.00
128372	10/20/2015	Printed		7142	EDWARDS CHEMICALS INC.	JANITORIAL SUPPLIES-P&R	151.52
128373	10/20/2015	Printed		5516	EXECUTIVE MARKETING PROMOTIONS	UNIFORMS F/YOUTH SOCCER	2,149.43
128374	10/20/2015	Printed		2621	EXPRESS WASH AMERICA LLC	CAR WASHES-UT & PD	111.00
128375	10/20/2015	Printed		4736	FASTENAL	VEHICLE SUPPLIES-UT	24.94
128376	10/20/2015	Printed		4342	FELDMANS	GRASS SEED&STRAW,VEH SUPPLIES	189.37
128377	10/20/2015	Printed		7225	FORTILINE, INC	DISTRIBUTION MAINT SUPPLIES-UT	592.24
128378	10/20/2015	Printed		2755	FTC EQUIPMENT LLC	CHECK VALVE & SEAL REPL-WWT	3,530.00
128379	10/20/2015	Printed		7489	DEAN L. GALVAN JR	CARPET INSTALLATION-PD	877.34
128380	10/20/2015	Printed		5821	GEIGER READY MIX	CONCRETE-UT	502.50
128381	10/20/2015	Printed		6880	GLENNARD PINE SERVICE LLC	EMAIL HOST 11/2015-10/2016	260.00
128382	10/20/2015	Printed		1942	GRASS PAD INC	TOP SOIL F/METER PITS-UT	118.80
128383	10/20/2015	Printed		7383	GREAT PLAINS SOCIETY FOR	ANIMAL SHELTER EXPENSE-PD	630.00
128384	10/20/2015	Printed		4275	HAYNES EQUIPMENT CO INC	GRINDER PUMP REPLACEMENTS-WW	7,749.45
128385	10/20/2015	Printed		7242	HELGET GAS PRODUCTS INC	OXYGEN-EMS	143.58
128386	10/20/2015	Printed		0281	HERC EXCHANGE, LLC	STEEL TRACKS F/LOADER-PW	3,120.94
128387	10/20/2015	Printed		7269	INDELCO PLASTICS CORPORATION	VALVES-UT	60.00
128388	10/20/2015	Printed		3108	JC COMMUNICATIONS BEST	AFTER HRS ANSWERING SVC	73.00
128389	10/20/2015	Printed		5902	JC'S SPEEDY LUBE	VEH MAINT/REPAIRS-UT	171.82
128390	10/20/2015	Printed		1596	JOHN DEERE LANDSCAPES	GRASS SEED & FERTILIZER -P&R	431.10
128391	10/20/2015	Printed		7511	JOHNSON COUNTY CONTRACTOR	TRAINING F/CODE ENFORCE-RUSK	240.00
128392	10/20/2015	Printed		0400	KANSAS CITY PETERBILT	VEH MAINT/REPAIRS-FIRE	588.19
128393	10/20/2015	Printed		8018	KANSAS LAW ENFOREMENT TRAINING	CIT TRAINING COURSE-PD	350.00
128394	10/20/2015	Printed		5308	KANSAS ONE-CALL SYSTEM, INC	LOCATE FEES/SEPTEMBER 2015	145.00
128395	10/20/2015	Printed		6093	KANSAS STATE TREASURER	STATE COURT FEES	14,307.50
128396	10/20/2015	Printed		4319	KDHE	WWT FACILITY OPERATOR RENEWAL	20.00
128397	10/20/2015	Printed		1773	KDHE BUREAU OF WATER	WASTEWATER PERMIT FEE-UT	320.00
128398	10/20/2015	Printed		2384	KU PUBLIC MANAGEMENT CENTER	LAW ENFORCEMENT TRAINING-PD	1,990.00
128399	10/20/2015	Printed		0852	LANMAN INCORPORATED	COMPUTER SVC/MAINT	405.00
128400	10/20/2015	Printed		2419	LARUE DISTRIBUTING INC	COFFEE & SUPPLIES-PD	254.79
128401	10/20/2015	Printed		3020	LIQUITECH INC	PLANT MAINT SUPPLIES-UT	450.50

Check Number	Check Date	Status	Void/Stop Date	Vendor Number	Vendor Name	Check Description	Amount
UNION BANK & TRUST Checks							
128402	10/20/2015	Printed		1836	LOWE'S CREDIT SERVICES	SUPPLIES F/FRONT DESK@COMM CNT	528.55
128403	10/20/2015	Printed		3007	MES-MIDAM	UNIFORM-EMS	800.90
128404	10/20/2015	Printed		6137	METRO COURIER INC	DELIVERY CHARGES-UT	13.74
128405	10/20/2015	Printed		3759	MIDWEST BUS SALES INC	WHEELCHAIR LIFT INSPECTION-TT	173.25
128406	10/20/2015	Printed		1090	MIDWEST PUBLIC RISK	TIBLOW ACCIDENT DEDUCTIBLE	1,000.00
128407	10/20/2015	Printed		3443	WES MILLS	PLAQUE-FIRE	25.00
128408	10/20/2015	Printed		6849	MJV-A LLC	UNIFORM CLEANING 9/1-9/30	281.75
128409	10/20/2015	Printed		2826	SUSAN MUCKENTHALER	TRANSCRIPTION SERVICES-PD	162.00
128410	10/20/2015	Printed		5003	NATIONAL SIGN COMPANY INC	STREET SIGNS&SIGN DATE STICKER	2,255.75
128411	10/20/2015	Printed		7505	NESSELHUF HEATING & COOLING	A/C REPAIRS- FIRE/EMS	2,825.00
128412	10/20/2015	Printed		6244	NEXTEL	WIRELESS CARDS-PD	43.27
128413	10/20/2015	Printed		0947	O'REILLY AUTO STORES INC	VEH/EQUIP MAINT/SUPPLIES	211.93
128414	10/20/2015	Printed		2126	OMNI SVC GROUP LLC	SEPTEMBER AMB BILLING	1,787.29
128415	10/20/2015	Printed		3393	PACE ANALYTICAL	WW ANALYSIS-UT	583.00
128416	10/20/2015	Printed		7012	PAUL PETERSON	VEH MAINT/REPAIRS-PD	1,116.21
128417	10/20/2015	Printed		7377	PITTSBURG TANK & TOWER MAINT	STORAGE TANK INSPECTION-UT	575.00
128418	10/20/2015	Printed		2838	PREMIER AUTOMOTIVE OF BS KS	VEH MAINT/REPAIRS-PW	26.66
128419	10/20/2015	Printed		0646	PUSHWATER ENTERPRISES INC	FLYERS F/REC PROGRAMS-P&R	348.92
128420	10/20/2015	Printed		3932	QUILL	CHAIRMATS & TAGS-COURT	60.92
128421	10/20/2015	Printed		1811	RICOH USA, INC.	COPIER LEASES	288.57
128422	10/20/2015	Printed		6120	ROK BROTHERS INC	VEH REPAIRS/MAINT-PD	369.43
128423	10/20/2015	Printed		3714	SAMS CLUB DIRECT	CUSTODIAL SUPPLIES	744.42
128424	10/20/2015	Printed		6010	SCHUETZ CONSTRUCTION	COLLECTION SYS MAINT-UT	8,063.00
128425	10/20/2015	Printed		8441	SHAWNEE COPY CENTER	TICKET BOOKS,BANNER,STAMP	641.84
128426	10/20/2015	Printed		7507	ASHLEY SHEPARD	RENTAL DEPOSIT REFUND	150.00
128427	10/20/2015	Printed		2927	SHRED-IT US JV LLC	SHREDDING SERVICE-EMS	45.80
128428	10/20/2015	Printed		0735	SIMPLE SIMONS PIZZA	PIZZA FOR AQUATIC PARK	1,680.00
128429	10/20/2015	Printed		7237	SK DESIGN GROUP INC.	WATERLINE DESIGN ENGINEERING	3,000.00
128430	10/20/2015	Printed		7437	JUSTINE SMITH	MILEAGE EXPENSE 8/19-10/1/15	34.39
128431	10/20/2015	Printed		6081	STAPLES ADVANTAGE	PLANNERS,NAME HOLDER,TAPE	193.52
128432	10/20/2015	Printed		5375	TG TECHNICAL SERVICES	GAS DETECTOR & SENSOR REPL-UT	1,118.55
128433	10/20/2015	Printed		3025	U.S. VENTURE, INC	TIRES-PD	440.08
128434	10/20/2015	Printed		6819	UNIFIRST COPRORATION	UNIFORM,RUG RENTAL-PW,UTIL	317.36
128435	10/20/2015	Printed		8308	UNIVERSITY OF KANSAS	LODGING & MEALS F/ACADEMY-PD	450.00
128436	10/20/2015	Printed		3078	USA BLUE BOOK	LAB SUPPLIES & PLANT MAINT-UT	420.11
128437	10/20/2015	Printed		8404	VESTA LEE LUMBER COMPANY	MATERIALS F/LEAKS,PLIERS,PAINT	105.63
128438	10/20/2015	Printed		0712	W W GRAINGER	UNIFORM JACKET-UT	35.55
128439	10/20/2015	Printed		3790	WESTAR ENERGY	ELECTRIC SERVICE	2,639.21
128440	10/20/2015	Printed		4735	WESTLAND CONSTRUCTION	RIVERVIEW WATERLINE PROJECT-UT	75,078.50
128441	10/20/2015	Printed		3012	WORK ZONE	TRAFFIC SIGN-PW	56.25
128442	10/20/2015	Printed		2362	THE WORLD COMPANY	RECRUITMENT AD-FIRE	69.00

Total Checks: 89 — **Checks Total (excluding void checks): 157,211.10**

Total Payments: 89 — **Bank Total (excluding void checks): 157,211.10**

Total Payments: 89 — **Grand Total (excluding void checks): 157,211.10**

ITEM NO. 5.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Public Housing Authority Claims for October 26, 2015

ACTION: Make a Motion to Approve the Public Housing Authority Claims for October 26, 2015

STAFF RECOMMENDATION: The City Manager and Finance Director Recommend Approval

Enclosed are the Claims in the amount of $37,776.73.

Check Register Report

PUBLIC HOUSING CHECK REGISTER

Date: 10/21/2015
Time: 9:52 am
Page: 1

Bonner Springs City Hall

BANK: UNION BANK & TRUST-PHA

Check Number	Check Date	Status	Void/Stop Date	Vendor Number	Vendor Name	Check Description	Amount
UNION BANK & TRUST-PHA Checks							
97267	10/21/2015	Void	10/21/2015			Void Check	0.00
97268	10/21/2015	Printed		P 797	P BANKCARD PROCESSING CENTER	TRAINING,MAINT & PLUMBING SUPP	2,591.65
97269	10/21/2015	Void	10/21/2015			Void Check	0.00
97270	10/21/2015	Void	10/21/2015			Void Check	0.00
97271	10/21/2015	Void	10/21/2015			Void Check	0.00
97272	10/21/2015	Printed		P506	P CITY OF BONNER SPGS	REIMB WAGES/BENEFITS/UTIL	13,725.94
97273	10/21/2015	Printed		P540	P DEFFENBAUGH DISPOSAL SVC	REFUSE SERVICE	271.54
97274	10/21/2015	Printed		P318	P DESIGN SOURCE FLOORING, INC	CARPET INSTALLATION 1 UNIT	1,114.52
97275	10/21/2015	Printed		P617	P HOUSING AUTHORITY RISK	COMMERCIAL LIABILITY INSURANCE	1,867.00
97276	10/21/2015	Printed		P616	P HOUSING INSURANCE SVCS INC	COMMERCIAL PROPERTY INSURANCE	16,363.00
97277	10/21/2015	Printed		P991	P JAMES O. GOSS JR	PEST CONTROL	110.00
97278	10/21/2015	Printed		P433	P KONE INC	ELEVATOR MAINTENANCE	1,679.46
97279	10/21/2015	Printed		P838	P RH ZEFFERT AND ASSOCIATES	UTILITIES ALLOWANCE STUDY	21.00
97280	10/21/2015	Printed		P753	P RICOH USA, INC	COPIER LEASE	4.42
97281	10/21/2015	Printed		P459	P WORLD CO	AD F/OPEN COMMENT@ NO SMOKING	28.20

Total Checks: 15 **Checks Total (excluding void checks): 37,776.73**

Total Payments: 15 **Bank Total (excluding void checks): 37,776.73**

Total Payments: 15 **Grand Total (excluding void checks): 37,776.73**

ITEM NO. 6.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Appointments to Boards and Commissions

ACTION: Make a Motion to Approve Appointments to Boards & Commissions

STAFF RECOMMENDATION: The Mayor Recommends Approval

Drug & Alcohol Advisory Committee - Appoint Andy Frazier, Jack Knight and Patrick Paine to the committee. Pastor Andy Frazier fills the unexpired term ending August 2017 previously held by Cynthia Meyer who resigned. Patrick Paine and Jack Knight fill the positions of Vicki Timm and Linda Armbrust whose terms expired in September. Mr. Paine and Mr. Knight's terms are three-years ending August 2018. All bio forms are on file in the City Clerk's Office.

Vaughn Trent Community Services - Reappoint Jane Hanks whose term ends November 2015 to another two-year term to end November 2017. Her bio form is on file in the City Clerk's Office.

ITEM NO. 7.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Private Use of Public Streets Request

ACTION: Make a Motion to Approve the Private Use of Public Streets Request from James Matney with the Bacon Wagon, LLC for October 30 & 31, 2015

STAFF RECOMMENDATION: The City Manager and City Clerk Recommend Approval

James Matney with the Bacon Wagon, LLC food truck has requested to park on the north side of Third Street across from the Community Center during the operation of 3rd Street Asylum on October 30 and 31, 2015. Mr. Matney has submitted all required license applications and fees.

City of Bonner Springs
Private Use of Public Parking Lot Application
Fee $50.00 (Non-Alcohol) - Fee $250.00 (Alcohol on Premises) – Per Ordinance No. 2304

Not-for-profit associations, organizations or individuals exempt from payment of established fees.
GB Policy GB-11-01R Provides Administrative Approval for Annual Uses with no Significant Changes.

City Receipt Number
10/19/2015 0[illegible]10PM
BACONWAGON LLC
01 /91546
$50.00

Date: 10/12/15 Applicant/Sponsor Name: Bacon Wagon, LLC

Business or Organization: Bacon Wagon LLC

Street Address/Mailing Address: 9237 Perryview Drive

City/State/Zip: Ozawkie, KS 66070

Phone: Home: 913-207-1992 Work: Same Cell: Same

Email: Matney70@hotmail.com

Date/Time/of Requested Event: ~~10/23, 10/24~~, 10/30, 10/31 6:40pm to close

Public Parking Lot(s) Requested: NA

Clear diagram of the Parking Lot area to be used attached. ☐ (Cannot be closer than 30 feet from Centennial Park).

Park Requested: NA

Street(s) Requested: North side of 3rd Street across from 3rd Street Asylum + Community Center

Route Attached: ☒ NA

Police, Fire, EMS or Other Municipal Services Needed: Yes ☐ No ☒ If yes, what services? _____

Names of Security Personnel for Chief Police Approval: James Matney

Certificate of Insurance that Names the City as an Additional Insured Attached. ☐

Tent will be Used: Yes ☐ No ☒ If yes, you must submit an application for a tent permit.

Event to Raise Funds for Charitable Purposes: Yes _____ No X

Organization Status Proof Attached: ☐

If yes, what Charitable Purpose? _____

Provide Full Explanation of Purpose of Event to Include Details if there will be admissions charged or rental of booth spaces charged:

Mobile Food services for haunted house.

Attach List of Vendors that will participate in event. ☐ Attach a list of planned activities. ☐

Application Requirements:

A. Submit this application to the City Clerk's Office Two (2) Weeks Prior to the City Council Meeting prior to the date of the Event for City Council Approval

B. The applicant shall bag the signs that state alcohol is prohibited before an event for alcohol, remove the bags after the event and clean the entire parking lot and adjacent area immediately following the end of the event.

C. Attach sketch/diagram (Exhibit A) of area of the parking lot. Define Fenced Area for Sale/Consumption & Possession of Alcoholic Beverages on the diagram if applicable. Area requires Building Official approval for type of fence material, size and egress. Must keep a twenty foot minimum fire lane open from Second Street to the south end of the parking lot. Must provide access for DeGoler Pharmacy.

D. Submit two copies of the State Temporary Alcoholic Beverage License **(limited to four permits per year per KSA 41-2645)** if applicable. One copy to be attached to the application for a City Temporary Alcoholic

ITEM NO. 8.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Extend Audit Contract with Mize & Houser for 2015 Audit

ACTION: Make a Motion to Approve a One-Year Contract Extension with Mize, Houser & Company to Perform Audit Services for the City for Fiscal Year 2015

STAFF RECOMMENDATION: The City Manager and Finance Director Recommend Approval

The enclosed memorandum provides the recommendation to extend the contract with Mize, Houser & Company for another one-year period for an amount of $15,995. If the auditors need to perform a single audit, the fee will increase by $2,145 to $18,140.

Finance Director Memorandum

Date: October 21, 2015
To: Mayor & City Council
Through: John Helin, City Manager
From: Tillie LaPlante, Finance Director

Subject: **2015 Audit Recommendation**

Recommendation : The City Council approve a one-year contract extension with Mize, Houser & Company to perform audit services for the City for the year ending December 31, 2015.

Discussion: In 2001, Lowenthal, Singleton, Webb, and Wilson began to provide audit services for the City of Bonner Springs. In 2004, after the receipt of only two bids for audit proposals, the City Council approved a two-year contract with Lowenthal, Singleton, Webb, and Wilson to provide the audit services for 2004 and 2005. The bid from the other audit firm was 50% higher than the Lowenthal, Singleton, Webb, and Wilson bid. The City Council approved contract extensions for Lowenthal, Singleton, Webb, and Wilson, which merged with Mize Houser and Company in 2012, through our latest audit period for 2014. Below is a chart that shows the cost of the City's audit from 2004 through 2014 along with the 2015 proposed contract cost.

Audit Year	Cost of Audit	% Increase
2004	$13,000	
2005	$13,200	1.53%
2006	$13,500	2.27%
2007	$15,800*	2.22%
2008	$14,160	2.61%
2009	$14,530	2.61%
2010	$14,630	0.68%
2011	$16,775*	1.00%
2012	$14,925	1.00%
2013	$17,225*	2.00%
2014	$17,780*	3.23%
2015	$18,140**	2.03%

*Includes single audit required because the City received over $500,000 in federal grant funds.

**Includes an additional $2,145 for a single audit if the City receives over $750,000 in federal grant funds. Beginning in 2015, the threshold of federal grant funds received to require a single audit increased from $500,000 to $750,000.

Mize, Houser & Company (formerly Lowenthal, Webb, and Odermann, P.A.) has audited the City's financial statements since 2001. The company is very familiar with our accounting system. Their staff is very easy to work with and the auditor in charge has been involved with the City's audit since 2001. I consult with them on various issues throughout the year when questions arise and they are always very helpful and responsive to my questions.

The firm keeps current with all governmental accounting standards and informs me immediately of any new regulations which will impact the City. The firm currently audits several cities in Kansas which include Shawnee, Topeka, Baldwin, Mission, Eudora, Lawrence, Garnett, Spring Hill, Pittsburg, Junction City, Valley Center and Salina along with several school districts across the state.

Financial Impact: The cost of the 2015 audit proposal submitted by Mize, Houser & Company is $15,995 if no single audit is required. This is an increase of 2% or $315 over the 2014 base audit cost. The single audit cost, if needed increased from $2,100 in 2014 to $2,145 in 2015. The amount budgeted in 2016 to perform the 2015 audit is $18,315, which is $175 less than the contract amount if a single audit is needed.

It is anticipated that the City will receive over $750,000 in federal grant funds in 2015 due to the KDHE Loan draws for the Backwash Storage Tank and Well #6 Projects which will require a single audit.

ACTION FOR CONSENT AGENDA

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

Reminder:

1. **Councilmembers need to abstain on check numbers on the claims issued to their personal business.**
2. **If a Councilmember has a simple question about a Consent Agenda item, it can be asked before the Mayor calls for a vote on the Consent Agenda.**
3. **If a Councilmember feels a Consent Agenda item warrants discussion, then it needs to be removed from the Consent Agenda.**

Staff Present: _____

REGULAR AGENDA

The City Council will consider the following items individually.

ITEM NO. 9.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Project Acceptance and Final Payment for Riverview Waterline

ACTION: Make a Motion to Approve Final Payment to Westland Construction in the Amount of $3,951.50 and Accept the Riverview Waterline Project for a Total Cost of $79,030.00.

STAFF RECOMMENDATION: The City Manager, Utilities Director, Project Manager and Finance Director Recommend Approval

The enclosed memo discusses the background and financial impact of the project.

CITY OF BONNER SPRINGS
PROJECT MANAGER MEMORANDUM

Date: October 19, 2015
To: Mayor and City Council
Through: City Manager
From: Project Manager and Utility Director

Subject: Approve Final Payment for the Riverview Waterline Project and Accept the Project.

Recommendation

- Approve Final Payment to Westland Construction in the total amount of $3,951.50
- Accept the Riverview Waterline Project for a total cost of $79,030.00

Background

On 19 February 2015, Staff released for bid the Riverview Waterline project. The Project scope was construction for a new four-inch (4") waterline to replace an old waterline that was removed during construction of the new Riverview Bridge as part of KDOT's I-70/K-7 Project .

On 13 April, 2015 City Council approved the contract to Westland Construction for $79,030.00.

Discussion

On 18 June, staff held a pre-construction meeting with the Contractor, Project Inspector and Engineer to review the Project scope and construction details. The Contractor started work on 29 July and was finished with site restoration on 4 September. Some trouble occurred in regards to enough flow to properly flush the waterline due to waterline size on both ends of the new waterline. However, the Fire Department assisted with use of a pumper truck and the line was properly flushed. Staff began disinfection and testing and on 22 October the new waterline passed all tests and was placed in service.

Upon acceptance of this project by City Council, the two-year maintenance period will become active.

Financial Impact

KDOT has agreed to reimburse the City for 100% of the design, construction and inspection services as well as City Staff time on the project, therefore there is no financial impact to the City.

ITEM NO. 10.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Ordinance to Establish City Manager Salary and Contract

ACTION: See Narrative for Two Required Motions - Ordinances require a separate motion from any other action.

STAFF RECOMMENDATION: None

First Motion: Make a Motion to Approve an Ordinance to Establish the City Manager's Salary

Second Motion: Make a Motion to Approve the City Manager's Contract

The enclosed Ordinance sets the City Manager's salary, and the City's Code requires the City Manager's salary be established by Ordinance.

ORDINANCE NO.

An Ordinance to Establish the Salary of the City Manager and to Repeal Ordinance No. 2403

Be it Ordained by the Governing Body of the City of Bonner Springs, Kansas:

Section I: The City Manager of the City of Bonner Springs, Kansas, shall receive an annual salary of $105,000.00.

Section II: Ordinance No. 2403 of the City of Bonner Springs, Kansas is hereby repealed.

Section III: This Ordinance shall be in full force and effect from and after its passage and publication in the official city newspaper.

Approved by the City Council and Signed by the Mayor on October 26, 2015.

Attest:

_____
Jeff Harrington, Mayor

_____
Amber McCullough, City Clerk

(Seal)

ITEM NO. 11.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: City Manager's Report

ACTION: None

STAFF RECOMMENDATION:

Report attached.

City Managers Update

Date: October 26, 2015
To: Mayor and City Council

1. **Council Follow Up Items.**
   a. **Information on E Cigarettes** – Attached is information on E Cigarettes that Carrie Newton, PHA Director sent as a follow up to last meetings workshop on Smoke Free public housing. She plans on allowing them for now and if HUD doesn't allow it when they make it a requirement we will address it at that time. For transition purposes she thinks it is best to allow it for now. Carrie had her first meeting with her residents on Tuesday, 20 October and the meeting went well. Twelve people showed up and had some questions but mostly listened to Carrie and the Wyandotte County Health representative's presentation.
   b. **Steventon Lane Closure** - Because some people have not known Steventon Lane is closed and go to the barrier and then have to turn around, we have ordered a "Dead End Road Closed XXX Feet". We should get the sign in about 2 weeks.

2. **2015 Regional Supper Registration is Open!** - The League of Kansas Municipalities invites all Kansas city officials to join us for the 2015 Regional Supper. This is a great opportunity to meet with city officials and legislators in your area to discuss the upcoming legislative session. State legislators received a personal invitation to attend and we are asking the local elected officials to call and invite them to personally attend too. These informative sessions will feature a discussion of the League's 2016 Legislative Priorities. The 2015 Regional Supper will be held in Olathe on November 10. Sign In 5:30 p.m. Dinner 6:00 p.m. If you are interested in attending, please let Fern know so that she can register you.

3. **Richland Apartments** – The apartments received a 60 day temporary occupation certificate on October 14, so they can now lease and get people moving in. Exterior landscaping is not all in but must all be completed in 60 days.

4. **State Senator Fitzgerald on Property Taxes** – Sen. Steve Fitzgerald of Leavenworth said that since 1997, property taxes in Kansas have risen 112 percent compared to inflation, which rose 44 percent during that period. With the major support of the senator, lawmakers this year approved a property tax lid that requires a vote of the people if property taxes increase faster than inflation and local governments want to spend that extra money. On the issue of the state budget, he said revenue collection is currently running about $42 million below estimates. However, he said the state is also collecting $73 million more than at this time last year. The senator said revenue collection is greater than it has ever been in Kansas. "We're taking in an enormous revenue stream, but it's still not enough to feed the beast," he said, suggesting that more needs to be done to control spending.

5. **Vote Once a Day for Tiblow Transit in the UBT Community Choice Challenge -** Union Bank & Trust is once again shining a spotlight on a few vital organizations and the services they provide to Bonner Springs, Edwardsville and the surrounding communities. The Community Choice Challenge allows area residents to show their support by voting for their favorite charity. Union Bank & Trust staff, along with community leaders, identified ten local non-profits eligible for the challenge.

On November 14, Union Bank & Trust will issue grants to the three organizations receiving the most votes. First place will receive $5,000; Second place $3,000; and Third place $2,000. Go to https://www.ubt.com/ccc every day to vote for Tiblow Transit.

6. **Parks & Recreation Update**:
   a. Current:
      i. Little Chefs: 9 children enrolled for two age groups
      ii. Fall Soccer: 145 kids, 14 teams / 2014 Fall - 152 kids, 14 teams
      iii. Girls Volleyball: 94 kids, 13 teams / 2014 Fall - 133 kids, 16 teams.
      iv. Tumbling Session #2: 15 participants
   b. Upcoming:
      i. Kid's Monster Bash - FREE! - Sunday, October 25th, 3:00-5:00pm at Community Center for kids ages 12 & under. Costume contest, Pumpkin decoration contest, Play games to win candy, Free goodie bag.
      ii. Letters to Santa – FREE - Children write letter to Santa and receive a response
   c. Past
      i. Tumbling Session #1: 15 participants
      ii. Pumpkin Carving Class: 13 participants (4 adults, 9 children)
      iii. Senior Center Craft Class: 6 senior participants

7. **Community and Economic Development Update:**
   All Truck Sales – This company has purchased the former Homestead Motors property located at 11540 Kaw Drive. You may have noticed the parking lot filled with several blue semi-tractors. This is actually a secondary site for their business that is located in Edwardsville. They have been in business for 12 years and needed some additional property for expansion. All Truck Sales is mostly wholesale in which they sell to dealers, but they do sell some units directly to companies and/or individuals. Their website is www.alltrucksales.com.

Mayor and City Council – I want to thank all of you who have supported me over the years. It has been an honor and privilege to serve you and the community and to lead such a great staff. My best wishes to you and the City in the future!

Jack

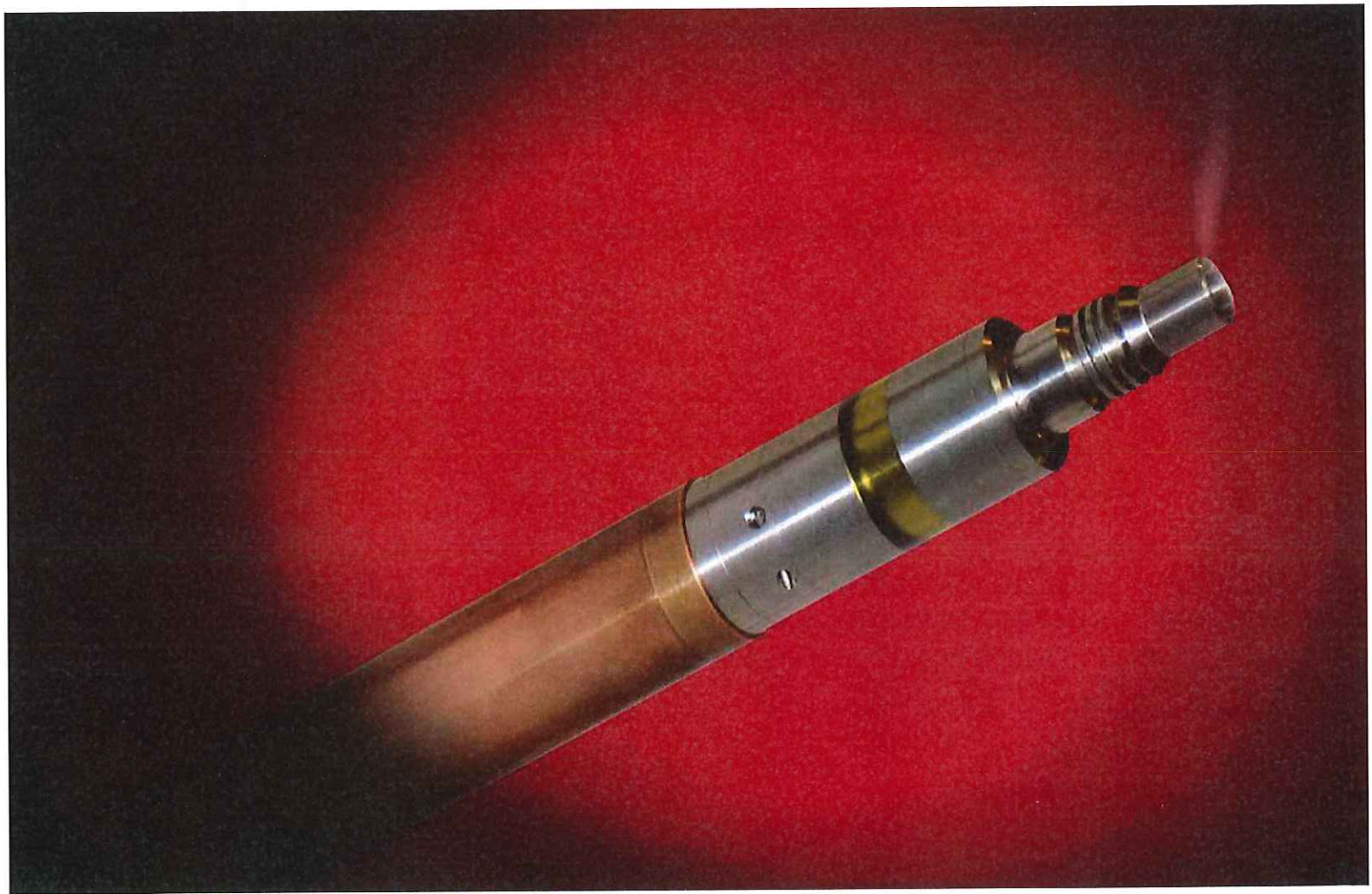
Bonner Springs Net Control Station, this is Bravo Sierra 6, leaving the net, out.

U.S. Fire Administration

Electronic Cigarette Fires and Explosions

October 2014

FEMA



U.S. Fire Administration

Mission Statement

We provide national leadership to foster a solid foundation for our fire and emergency services stakeholders in prevention, preparedness, and response.

FEMA

Electronic Cigarette Fires and Explosions

Key Points

- More than 2.5 million Americans are using electronic cigarettes (e-cigs or e-cigarettes), and this number is growing rapidly.
- Fires or explosions caused by e-cigarettes are rare.
- Twenty-five separate incidents of explosion and fire involving an e-cigarette were reported in the United States media between 2009 and August 2014.
- Nine injuries and no deaths were associated with these 25 incidents. Two of the injuries were serious burns.
- Most of the incidents occurred while the battery was charging.
- The shape and construction of e-cigarettes can make them more likely than other products with lithium-ion batteries to behave like "flaming rockets" when a battery fails.
- Lithium-ion batteries must be charged in accordance with the manufacturer's instructions.
- Using power sources not approved by the manufacturer to recharge a lithium-ion battery can result in an explosion and fire.

What is an E-Cigarette?

The e-cigarette, also called a personal vaporizer (PV) or electronic nicotine delivery system, is a battery-powered device that simulates tobacco smoking by producing a heated vapor, which resembles smoke. These devices have become very popular as an alternative to smoking, including among a growing number of individuals who have never been smokers but who enjoy the many flavors and/or the experience of using e-cigarettes.

Development

E-cigarettes were first patented in 2003 and have been available for sale in the U.S. since 2007. E-cigs have been rapidly growing in popularity as the number and selection of products expand at an extremely rapid rate. Zhu, et al. (2014) report that by January 2014, there were 466 brands of e-cigarettes and 7,764 unique flavors available for sale. They also state that the number of products has been increasing at a rate of 10.5 brands and 242 new flavors per month. Richtel (2014) reported that annual e-cigarette sales have reached 2.5 billion dollars in the U.S. StatisticBrain[1] reports that as of July 13, 2014, there were 2.5 million e-cigarette smokers in America. Indicators point to continued dynamic growth in the industry.

What do they look like? How much do they cost?

E-cigarette designs vary greatly. Some resemble a traditional cigarette, cigar or pipe, while others resemble a flashlight or a small pack of cigarettes with a protruding tube. Cellphone cases with built-in e-cigarettes are also available. Figure 1 shows three common commercially available devices.

Prices for the devices range from $30 to over $300, with a corresponding range in battery size, liquid capacity and vapor output. The most basic device is an e-cigarette, which looks like a traditional cigarette. Moving up the line, devices designed to make larger quantities of vapor are called PVs or Mods. Users can purchase a wide variety of commercially available products or make their own. Homemade vaporizers and e-liquids are common.

Figure 1. Three of the many e-cig styles available.

[1] http://www.statisticbrain.com/electronic-cigarette-statistics.

How do they work?

The devices have a heating element (an atomizer or cartomizer) to vaporize a liquid solution. Solutions (also called juice) usually contain a mixture of propylene glycol (PG), which increases flavor; vegetable glycerin (VG), which increases vapor; nicotine; and flavorings. Some juices provide flavored vapor without nicotine. Figure 2 shows the principal parts that are found in every e-cigarette or vaporizer.

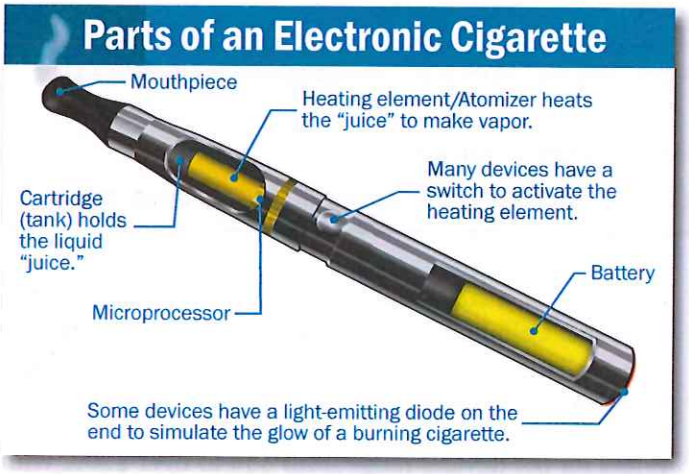


Figure 2. Parts of an electronic cigarette.

"Automatic" e-cigarettes activate the heating coil when a user takes a drag from the device. Manual e-cigarettes have a switch that the user depresses to energize the heating element to make the heated vapor. Most manufactured devices have built-in timeout features that prevent overheating, and many have locking features to prevent the switch from being activated in a pocket or purse. A light-emitting diode to simulate a cigarette's glow on the end is common among e-cigarettes, but not common in PVs or Mods.

Alternate Uses

E-cigarettes are sometimes used to smoke hash oil or "honey oil," a cannabis product derived by separating the resins from marijuana. Separating hash oil from marijuana is a hazardous process that is often done illegally in hotels and homes. First responders should be aware of this practice and the hazards that it presents.[2]

[2] For more information, see http://www.rmhidta.org/default.aspx/MenuItemID/691/MenuGroup/RMHIDTAHome.htm.

Health and Safety

The health effects of the vapor and the danger of nicotine overdose by ingestion or dermal contact with the juice are the subject of ongoing review by various agencies (Cressey, 2014; World Health Organization (WHO), 2014). The regulatory situation related to e-cigarettes varies by jurisdiction. At the time of publication of this report, the following facts were known:

- The U.S. Food and Drug Administration (FDA) recently proposed regulations for e-cigarettes. These proposed FDA regulations do not include consideration of the battery or electronics used in/with the devices — the FDA is proposing to address only the health effects of inhaling the vapors (FDA, 2014; Ledford, 2014).
- WHO has recently proposed that member states adopt stringent controls on e-cigarettes (WHO, 2014). The proposal is limited to the potential health effects of e-cigarettes and does not include language addressing the electronics.
- The U.S. Consumer Product Safety Commission has advised that e-cigarettes do not fall under its jurisdiction.
- Gourdet, et al. (2014) report that 34 states' laws address e-cigarettes either explicitly or as part of language applying to tobacco-derived or nicotine-containing products. Laws explicitly addressing e-cigarettes primarily focus on youth access (22 states) or smoke-free air (12 states).
- Underwriters Laboratories (UL) has developed standards that relate to lithium-ion battery safety. These standards are applied to products containing batteries that undergo UL safety testing.
- No regulation, code or law applies to the safety of the electronics or batteries in e-cigarettes. While many consumer products are required to be tested by a nationally recognized test laboratory, such as UL, there are no requirements that e-cigarettes be subjected to product safety testing.

Do You Mind If I Vape?

The world of cigarette alternatives has a vocabulary of its own.

The term **vape** is a contracted form of the word **vapor**, which has its origins in the Latin "vaporem" meaning "steam" or "exhalation." The word vape mirrors the path of word formation that the term **smoking** followed; for instance, there are **nonvapers** as well as **vapers**, and those who oppose the habit talk about **antivaping** campaigns.

Vaporize is what the e-cigarette does. **Vapor** is what the e-cigarette produces. **Vaping** is what users do. **No-nic vapers** are vapers who vape using juice that does not contain nicotine.

Other common terms used within the vaping community include **analog** (slang for a traditional cigarette), **juice, e-juice, e-liquid, tanks, atomizers, cartomizers, clearomizers, drippers, vape pens, twists, Mods, subohm coils, mechanical Mod, PG, VG,** and **blast.**

Incidents

Why did we look at e-cigarettes?

A number of recent fires have been attributed to e-cigarettes, causing some concern within the fire service community. In response, a review of incidents involving e-cigarettes was initiated.

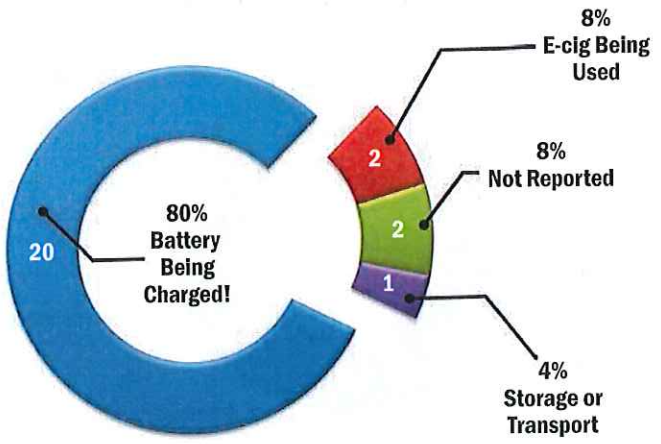
The National Fire Incident Reporting System (NFIRS) does not collect information that is specific enough to provide accurate analysis of the frequency or impact of e-cigarette fires. Lacking NFIRS data to use, media reports were selected as an available, albeit less reliable, information source. The results cited herein should be viewed in this light — as qualitative information rather than as a quantitative analysis.

What we found

Media reports of 25 separate incidents in the U.S. dating from 2009 to the present were found during an Internet search. This list is not thought to be all-inclusive since it is likely that there were incidents that were not reported to the fire department and/or reported in the media. The media reports were reviewed, and key information was extracted and summarized. The information contained in many reports was brief and often inconsistent with other media reports covering the same incident. The photographs or video segments included in some of the reports provided more useful information for this study than the body of the article. A summary spreadsheet of the reports was prepared and is included in Appendix 1 for reference.

- Twenty incidents occurred while the battery in the device was being charged.
- Two incidents occurred during use.
- In two incidents, it is not clear whether the e-cigarette was in use, idle or being charged.
- One incident occurred during transportation on a cargo aircraft.
- Ten injuries and zero deaths were reported by the media.[3]
- Several burn injuries were reported. Two serious injuries occurred when devices exploded in users' mouths.

Status of E-cigarette at Time of Fire



[3] Press in the United Kingdom has reported one death in an August 2014 incident where an e-cigarette that was being charged in a nonmanufacturer-approved device exploded and ignited nearby oxygen equipment.

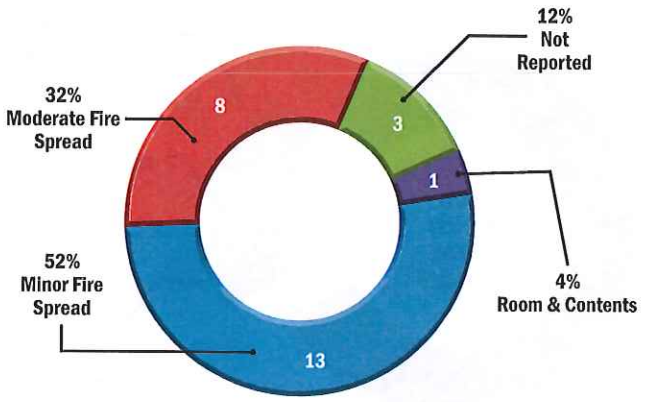
Media reports generally characterize these incidents as explosions. The event occurs suddenly and is accompanied by a loud noise, a flash of light, smoke, flames, and often vigorous ejection of the battery and other parts. Many of the media reports state that the battery or other components of the device were ejected under pressure and "flew across the room," often igniting combustible items where they landed. An incident that reportedly occurred in a U.K. pub was captured on a security camera and subsequently posted on YouTube.[4]

Did the fires spread?

Most of the incidents resulted in ignition of nearby contents, such as carpets, drapes, bedding, couches or vehicle seats. Fortunately, users were generally nearby when the incident occurred (most were alerted by the sound of the explosion), and they were able to take action to extinguish the fires while they were still small. One incident resulted in the loss of a bedroom.

In the chart below and in the listing in Appendix 1, the term "minor fire spread" describes incidents where scorching or flames either self-extinguished or were extinguished by occupants very quickly; typically, the burned areas appeared to be less than 6 inches in diameter. The term "moderate fire spread" is used to describe those incidents where the flames grew larger but were extinguished by occupants before fire department arrival.

Fire Spread Beyond E-Cigarette



Charging

Eighty percent of the incidents reported occurred while charging. A variety of charging sources were reported — laptop USB ports, auto USB adapters, desktop computer USB ports, and wall adapter USB ports.

None of the incidents reported in the media involved the larger PVs. All of the incidents reviewed involved "vape pens" or "twists," which more closely resemble traditional cigarettes in appearance. These twists are intended to be recharged using a USB port built into the e-cigarette and a power adapter supplied with the device. Most of the PVs and Mods use larger batteries that are removed from the vaporizer and placed in an external charging unit. This helps to ensure that a proper power supply is used to charge the batteries.

USB Ports

Many e-cigarettes have a USB port for connecting the device to the power adapter that is provided by the manufacturer of the e-cigarette. The use of ordinary USB port charging connections allows users to connect the e-cigarette to power adapters that are not provided by the manufacturer of the device. The use of such non-approved power adapters appears to be responsible for most of the incidents involving e-cigarettes.

Few, if any, consumers understand that not all USB ports are "created equal." The voltage and current provided by USB ports can vary significantly. Appendix 2 shows the current specifications for the various **standard** USB port definitions. (There are also nonstandard ports in use that do not match these specifications.) Without consulting the technical specifications for the USB power source, it is difficult or impossible for a consumer to determine the power supplied by any particular USB port and even more difficult to determine whether it is safe to use with a particular e-cigarette.

As a result, plugging an e-cigarette into a USB port or power adapter not supplied by the manufacturer may subject the battery to higher current than is safe, leading to thermal runaway that results in an explosion and/or fire.

ALWAYS USE THE CHARGING APPLIANCE THAT COMES WITH THE UNIT AND FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

PLUGGING AN E-CIGARETTE INTO A "STANDARD" USB PORT TO RECHARGE MAY RESULT IN AN EXPLOSION AND/OR FIRE.

[4] See https://www.youtube.com/watch?v=mXgFk7RMjL4.

Overheating

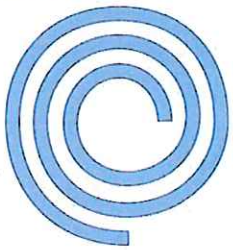
Although we saw no evidence that this can be a problem, concern has been raised that the heating element inside the e-cigarette could become an ignition source. Manufactured PVs typically have built-in circuits to limit the time that the heating element can be turned on, which prevents overheating and possible fires or injuries. In the absence of independent safety testing of the e-cigarettes, no assurance that these circuits will reliably perform their safety function is available. Homemade Mods may not have overheat protection built in.

Lithium-Ion Battery Failure

Lithium-ion polymer batteries are excellent power supplies for portable devices and are widely used by consumers, industries and the emergency services. Lithium-ion batteries are known to experience statistically rare failure events, including fire and explosions. Indeed, there are multiple reports of fires caused by failures of lithium-ion batteries in cellphones, laptop computers, medical devices, electric cars, and myriad other portable electronic devices.

The descriptions and photographs in the media reports reviewed are entirely consistent with known failure modes of lithium-ion batteries.

Why do Lithium-ion batteries catch fire?



A cylindrical lithium-ion battery is made by winding alternating layers of metallic anode and cathode material separated by a porous film. The porous separator film holds a liquid electrolyte made of an organic solvent and dissolved lithium salts. This core is placed into a cylindrical metal can through the open end, and the can is then sealed closed tightly so that the liquid electrolyte cannot escape or evaporate.

All of the electrolytes currently used in lithium-ion batteries are either flammable or combustible liquids. It is this flammable electrolyte that causes the fire and explosion when the lithium-ion battery overheats.[5] Scientists are working to develop nonflammable electrolytes for lithium-ion batteries, but these are not yet available in the market.

During the typical failure mode for a lithium-ion battery, the electrolyte is heated to its boiling point,[6] the internal pressure in the battery builds to a point where the seal at the end of the battery ruptures, and the pressure is abruptly released through the sealed end of the battery case. Usually, the electrolyte then ignites, and expanding gas from the rapid combustion will further increase the pressure. The fire is sustained briefly after initial ignition by the porous separator film, which is made of plastic. Mikolajczak, et al. (2011) provide detailed descriptions and explanations of the various failure modes that lithium-ion batteries can experience.

Why is the impact of battery failure different in e-cigarettes?

E-cigarettes are different from other electronic consumer devices because the battery is installed in a cylindrical device that has its weakest (structural) point at the ends. When the battery seal (at the end of the battery) ruptures, the pressure within the e-cigarette cylinder builds quickly and instantly ruptures, usually at the end. As a result of the battery and container failure, one or the other, or both, can be propelled across the room like a bullet or small rocket.

In contrast to e-cigarettes, the cylindrical lithium-ion batteries used in laptop computers and portable tools are contained in rigid plastic cases that are generally strong enough to prevent the failing battery from "rocketing" away. Fires do occur as a result of battery failure, but most fires initially involve only the device that the battery pack is installed in.[7]

Cellphones, tablets and other devices use pouch-type batteries that are flat rather than cylindrical in shape, and they are encased in a sealed flexible plastic pouch or thin rigid plastic case instead of a metal can.

[5] A variety of organic solvents are used, either alone or in combinations. The boiling points of the electrolytes range from 200 F to 500 F, and autoignition temperatures range from 60 F to 300 F.

[6] Overheating of the battery (thermal runaway) can be caused by puncture, overcharge, external heat, short circuit or internal cell fault.

[7] A laboratory experiment showing worst-case lithium-ion battery failures in a laptop computer can be seen at https://www.youtube.com/watch?v=pizFsY0yjss#t=250.

These pouch-type batteries will not build up much pressure when they overheat and do not explode violently when they fail. But pouch batteries can, and have, overheated to the point where the pouch bursts, the electrolyte ignites, and a fire spreads beyond the device.[8]

What safeguards are used to prevent fires in Lithium-ion batteries?

Several different approaches to protecting lithium-ion batteries against explosion or fire have been developed. Protection can be built into the battery, the charging appliance, or the electronics that control the charging cycle. Often, a combination of these approaches is used in a product. Amon, et al. (2012) conclude that the risk of fire depends heavily on the type and effectiveness of the protection system used.

The protection appropriate for a particular device or appliance is determined by the manufacturer and/or by regulations or standards that apply to that product. Since there are no apparent standards directly applicable to e-cigarettes, the selection of protection for the lithium-ion battery is left to the manufacturers' best judgment. The fact that, statistically, so few of these devices are failing in the ways described by the media reports suggests strongly that e-cigarette manufacturers have been largely successful in preventing battery fires.

Conclusions

E-cigarettes are increasingly common; sales are growing rapidly.

The lithium-ion batteries used to power the devices can fail. Battery failures, manifested as small explosions and fires, have occurred. Considering the vast number of products in the field that use lithium-ion batteries, however, it is clear that the failure rates are low.

It is reasonable to expect that the number of battery failure incidents will increase as the number of lithium-ion batteries in use continues to grow, even as the failure rate per device remains constant or declines. Continuing improvements in battery safety designs by the industry could offset this expected increase.

Not all battery failures can be prevented by end-users. However, the media reports strongly suggest that many of the failures occurred while the battery was charging with power supplies that were not provided by the manufacturer. This fact highlights a need for user education.

E-cigarette manufacturers should consider changing to a different style of electrical connection. The elimination of USB-type electrical connections on e-cigarettes will make it more difficult (but not impossible) for users to overcharge the batteries. The inclusion of protection circuits into the e-cigarette device would improve battery safety.

Suppliers, industry associations, user groups, and fire prevention educators should all stress the importance of proper charging practices to reduce the number of incidents. Most e-cigarette manufacturers already mention the importance of proper charging practices in their literature. Stronger warnings in the literature and user manuals may be helpful.

[8] Failure of an intentionally overloaded pouch-type lithium-ion battery can be seen at https://www.youtube.com/watch?v=SMy2_qNO2Y0&index=8&list=PLkLKD6x5giq2LyjhKbJt-OYR8kiAN8_UW.

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Appendix 1

E-Cigarette Incidents Reported in News Media*

Date	Location	Charging?	Charging Source	Fire Beyond E-Cig?	Injuries?	Notes	Source URL
Aug-09	Minneapolis, MN	NO	NA	Moderate	None	Fire in a cargo container on a FedEx jet discovered during approach to landing. Fire suppression system activated. Fire was linked to Li-ion batteries in box of Ruyan Inhalers, model RappE-Mystick.	
Nov-11	Greeley, CO	NO	NA	No	Severe	A man was hospitalized for eight days after an electronic cigarette exploded in his face, sending burning debris and battery acid into his mouth, face, and eyes. Prodigy V3.1 e-cig cited, as well as Radio Shack Enercell battery.	https://www.consumeraffairs.com/news04/2012/04/e-cigarette-exploded-in-mans-face-suit-charges.html
Feb-12	Niceville, FL	NO	NA	No	Severe	E-cigarette explodes in mouth causing severe burns, lost teeth and part of tongue. Lots of press coverage on this one. Some stories report that the device may have been modified by the user.	http://www.cbsnews.com/news/electronic-cigarette-explodes-in-mans-mouth-causes-serious-injuries/
Apr-13	Glendale, AZ	Y	USB-Car	Moderate	None	Exploded while charging from USB adaptor in car. Hot fragments ignited back seat upholstery.	http://www.kpho.com/story/22066822/unattended-electronic-cigarette-charger-explodes-car-catches-fire
Apr-13	Oklahoma City, OK	Not Reported	Not Reported	Moderate	Minor	Explosion of Li-ion battery in e-cig in office. Occupant treated for inhalation.	http://www.koco.com/news/oklahomanews/okc/Police-Explosion-at-apartment-complex-came-from-e-cigarette/19768650#!T8hDI
Jun-13	Sherman, TX	Y	USB-Macbook	No	Moderate	Battery into 2-hour charge exploded in user's hand. 2nd & 3rd degree burns on hand and smoke inhalation.	http://www.kxii.com/news/headlines/E-cigarette-explodes-in-Texoma-mans-home-215771641.html
Jul-13	Corona, CA	Y	USB-car	Minor	Moderate	Charging in car led to 'blow-torch' fire and explosion. Debris flew into occupant's lap, resulting in 2nd degree burns on upper thighs and lower buttocks. VapCig brand is cited.	http://losangeles.cbslocal.com/2013/07/11/corona-couple-sues-after-e-cigarette-battery-explodes-in-car/
Jul-13	Tulsa, OK	Y	USB-Laptop	Minor		Fire while charging off laptop.	http://www.newson6.com/story/22536957/tulsa-mans-e-cig-catches-fire-while-charging

* This listing is confined to incidents reported in the US. Internet search reveals many incidents in UK and other countries.

Date	Location	Charging?	Charging Source	Fire Beyond E-Cig?	Injuries?	Notes	Source URL
Aug-13	Phoenix, AZ	Y	USB-Macbook	Minor	None	This one ignited carpet, was put out by resident. Video shows plugging into white laptop for charge.	http://www.azfamily.com/news/consumer/Exploding-electronic-cigarette-blamed-for-fire-231499581.html
Aug-13	Phoenix, AZ	Y	Not Reported	Major	Minor	Resident states in article that e-cig started TWO fires in their bedroom in recent days. They just exploded... Charging for about 20 minutes. First incident scorched carpet, second gutted the bedroom. Resident treated for smoke inhalation. Smokin' T Smokin Time brand is cited.	http://www.kptv.com/story/23785774/phoenix-fd http://www.kpho.com/story/23273275/e-cigarette-nearly-sparks-fire-at-phoenix-apartment
Sep-13	Binghamton, AL	Y	Not Reported	Moderate	None	Fire in home caused by charging e-cig.	http://www.wbng.com/news/local/Fire-Marshal-Charging-electronic-cigarette-sparked-fire-222081441.html
Sep-13	Grant Park, GA	Y	USB-Desktop	Moderate	None	Unattended charging via USB port on computer. Spread to couch and rug.	http://www.wsbtv.com/news/news/local/woman-says-e-cigarette-exploded-shot-flames-4-feet/nZkCX/
Sep-13	Provo, UT	Y	USB-Car	Moderate	Moderate	Explosion while charging in car. Hot fragments ignited baby's car seat in back seat resulting in 1st and 2nd degree burns to 3 yr old.	http://newsone.com/2724915/e-cigarette-fire-utah-kinzie-barlow/
Oct-13	LaCrosse, WI	Y	Wall	Minor		Story highlights several incidents during charging. Lack of overcurrent/overheat circuitry implicated.	http://www.dailymail.co.uk/news/article-2442715/E-cigarette-explosion-causes-Wisconsin-home.html
Oct-13	Valparaiso, FL	Y	USB-Wall adaptor	Moderate	None	Explosion while charging from USB port, igniting curtains. Occurred after 10 minutes charging.	http://www.nwfdailynews.com/local/electronic-cigarette-explodes-catches-curtains-on-fire-1.214335
Oct-13	Blaine, MN	Y	USB-Desktop	Minor	None	Exploded while charging on USB plugged into computer.	http://www.myfoxtwincities.com/story/23584719/minnesota-e-cig-explosion-charging#ixzz2gh7xFIFF
Nov-13	Kootenay County, ID	Y	USB-Laptop	Moderate	None	Explosion while charging from USB port of laptop. Ignited couch. Smoke alarm alerted the sleeping family of four.	http://www.wptv.com/news/local-news/water-cooler/e-cigarette-blamed-for-house-fire-in-idaho-electronic-cigarette-battery-overcharged-and-exploded http://www.nwcn.com/news/230720191.html

Date	Location	Charging?	Charging Source	Fire Beyond E-Cig?	Injuries?	Notes	Source URL
Nov-13	Warren, MI	Y	Wall	Minor	None	Device blew out of wall socket in ball of fire. Scorched hardwood flooring before occupant extinguished it. TV video report shows a USB wall charger that does not match those supplied by the manufacturer (Bulldog).	http://www.wxyz.com/news/warren-woman-says-electronic-cigarette-caused-small-explosion-and-fire
Nov-13	Eugene, OR	Y	Auto	Moderate	None	Device failed after about 2 hours charging. Fragments flew to back seat, igniting seat of truck.	http://www.kval.com/news/local/E-cig-explodes-damaging-truck-231482791.html?tab=video&c=y
Nov-13	Colorado Springs, CO	Y	Not Reported	Moderate	Moderate	Unattended while charging on floor. Ignited bed. Home occupant burned arms, hands & face while using blanket to smother flames.	http://www.krdo.com/news/ecigarette-blamed-for-mattress-fire/23206306
Dec-13	Springfield, MO	Y	USB-Laptop	Moderate	Moderate	Failure while charging on laptop USB port. Ignited bedding, 2nd degree burns on leg and foot. User quoted as saying he likely used the wrong charger.	http://www.ky3.com/news/local/man-expereinces-explosive-consequence-from-using-electronic-cigarette/21048998_24083270
Mar-14	Medford, OR	Y	Not Reported	Minor	None	Exploded while being charged, sending bits of burning battery flying into the ceiling and walls. One hot piece of battery landed on a pillow, causing it to smolder and filling the house with smoke.	http://www.katu.com/news/local/Fire-marshal-E-cigarette-batteries-cause-fires-in-Medford-248274331.html
Mar-14	Medford, OR	Y	Not Reported	Minor	None	The lithium batteries that power the vaporizers in electronic cigarettes caused two recent fires in Medford. In this second case, a mattress caught fire but a resident put it out.	http://www.katu.com/news/local/Fire-marshal-E-cigarette-batteries-cause-fires-in-Medford-248274331.html
Mar-14	Lompac, CA	Y	Wall	Moderate	None	Started kitchen fire while charging unattended.	http://www.ksby.com/news/e-cigarette-blamed-for-kitchen-fire/
Mar-14	Syracuse, NY	Not Reported	Not Reported	Moderate	Moderate	Patient on oxygen in a hospital suffered 1st and 2nd degree burns. Patient had e-cig, but investigation has not yet tied e-cig to the ignition. Hospital has banned e-cigs out of caution.	http://www.foxnews.com/us/2014/04/22/ny-hospital-reinforces-ban-after-e-cigarette-fire/

Appendix 2

USB Variations

*The following information and tables were extracted from Wikipedia.**

Universal Serial Bus (USB) is an electronics industry standard developed in the mid-1990s that defines the cables, connectors and communications protocols used in a bus for connection, communication, and power supply between computers and electronic devices.

USB was designed to standardize the connection of computer peripherals (including keyboards, pointing devices, digital cameras, printers, portable media players, disk drives and network adapters) to personal computers, both to communicate and to supply electric power. It has become commonplace on other devices, such as smartphones, PDAs and video game consoles. USB has effectively replaced a variety of earlier interfaces, such as serial and parallel ports, as well as separate power chargers for portable devices.

In general, there are four basic kinds or sizes related to the USB connectors and types of established connections:

- The older "standard" size, in its USB 1.1/2.0 and USB 3.0 variants (for example, on USB flash drives),
- The "mini" size (primarily for the B connector end, such as on many cameras),
- The "micro" size, in its USB 1.1/2.0 and USB 3.0 variants (for example, on most modern cellphones), and
- The versatile "USB On-The-Go" scheme, in both mini and micro sizes.

In general, each end of a USB cable uses a different kind of connector; an A-type or a B-type. This kind of design was chosen to prevent electrical overloads and damaged equipment, as only the A-type socket provides power.

USB connections also come in four data transfer speeds: Low Speed, Full Speed, High Speed and SuperSpeed. High Speed is only supported by specifically designed USB 2.0 High Speed interfaces (that is, USB 2.0 controllers without the High Speed designation do not support it), as well as by USB 3.0 interfaces. SuperSpeed is supported only by USB 3.0 interfaces.

* USB, (n.d.). In Wikipedia. Retrieved August 13, 2014, from http://en.wikipedia.org/wiki/Universal_Serial_Bus

The tables that follow illustrate the differences among several principal characteristics of USB ports and connecting cables. While the majority of device manufacturers adhere to the industry standards, it is important to note that this is a rapidly changing field and that there are a number of non-standard ports and connectors in the marketplace, which further illustrates the need to follow the manufacturers' guidance when charging a device.

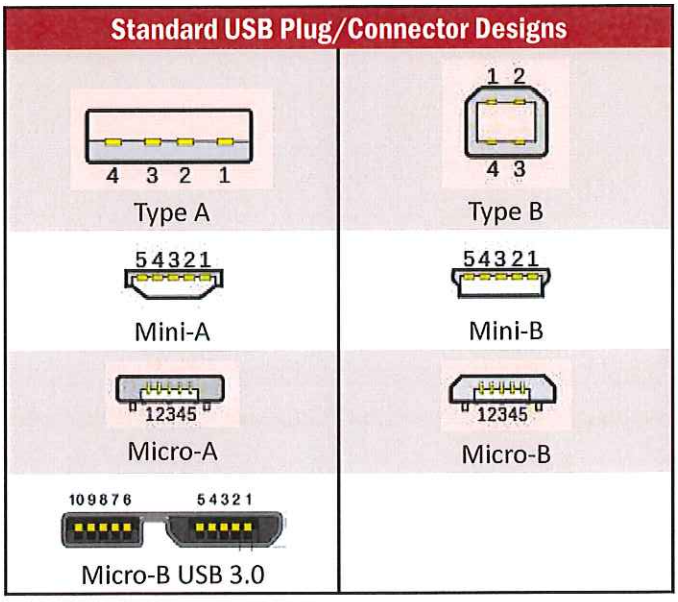
Power Output*

USB Power Standards			
Specification	**Current**	**Voltage**	**Power**
USB 1.0	150 mA	5 V	0.75 W
USB 2.0	500 mA	5 V	2.5 W
USB 3.0	900 mA	5 V	4.5 W
USB 3.1	2 A	5 V	10 W
	5 A	12 V	60 W
	5 A	20 V	100 W
USB Battery Charging	0.5–1.5 A	5 V	2.5–7.5 W
USB Power Delivery	2 A	5 V	10 W
	3 A	12 V	36 W
	3 A	20 V	60 W
	5 A	20 V	100 W

Color Coding*

Color	Description
Black or white	USB 1.x or USB 2.0
Blue	USB 3.0
Yellow or red (ports only)	High current and/or sleep-and-charge

USB Connector/Plug Configurations*



ITEM NO. 12.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: City Council Items

ACTION: None

STAFF RECOMMENDATION:

ITEM NO. 13.

City Council Regular Agenda
Monday, October 26, 2015 – 7:30 p.m.

MOTION: _____ **SECOND:** _____

Name	Yes	No	Abstain	Absent
Tom **Stephens**				
George **Cooper**				
Bob **Reeves**				
Dani **Gurley**				
Joe **Peterson**				
Mike **Thompson**				
Mark **Kipp**				
Rodger **Shannon**				
Mayor Jeff Harrington				
RESULT	**PASS**	**FAIL**		

Mayor Vote on Charter Ordinances & Planning Items _____

AGENDA ITEM: Mayor's Report

ACTION: None

STAFF RECOMMENDATION:

The Mayor will give a verbal report at the meeting on Monday.