

July 29, 2016

Mr. Nicholas Matz
City of Bellevue
PO Box 90012
Bellevue, WA 98009-9012

RE: 2015 Electric Service Reliability Report

Dear Nicholas,

Enclosed find Puget Sound Energy's Bellevue Electric Reliability Report for calendar year 2015 as provided for in the Memorandum of Understanding dated June 25, 2003. For the eleventh consecutive year, service reliability experienced by Bellevue customers in 2015 was well above that experienced by all PSE customers in the aggregate. Of the 95 distribution circuits serving Bellevue customers in 2015, 72 circuits had reliability numbers better than the system wide performance (27 circuits experienced no unplanned outages). 23 circuits had SAIDI or SAIFI figures that exceeded the 2015 system wide performance values.

The report format is the same our 2014 report and consists of:

- 2011 – 2015 System Average Interruption Duration Index (SAIDI) & System Average Interruption Frequency Index (SAIFI) Five Year History
- 2011 – 2015 Circuits That Exceeded PSE System SAIDI or SAIFI Five Year Review
- 2015 Circuits Exceeding PSE SAIDI or SAIFI
- 2015 Performance for Circuits Serving Bellevue
- 2015 Outages for Circuits Serving Bellevue
- 2015 Report Codes Legend

For 2015 we report PSE system-wide SAIDI and Bellevue circuit SAIDI as five-year rolling average figures and SAIFI as single year figures consistent with our reporting to the Washington State Utilities & Transportation Commission (WUTC).

I have also included our 2015 Service Quality Report Card sent to PSE customers with their monthly billing statements and available at PSE.com.

Please contact me at (425)462-3852 or e-mail at andy.swayne@pse.com to discuss any questions or concerns you may have about the report materials.

Sincerely,



Andy Swayne
Municipal Liaison Manager

CC: Tim Stever – City of Bellevue, Right-of-Way Manager/Franchise Supervisor
RaeLynn Asah – PSE, Supervisor Municipal Relations
Katherine Taylor – PSE, Senior Local Government Affairs Representative

Enclosures

2015 BELLEVUE ELECTRIC RELIABILITY REPORT

This report summarizes electric service reliability for customers within the City of Bellevue for calendar year 2015. For the 10th consecutive year, service reliability as measured by SAIDI & SAIFI for Bellevue customers well exceeded that experienced by all PSE customers in the aggregate. Of the 95 distribution circuits serving Bellevue customers in 2015, 72 circuits had reliability numbers better than the system wide performance (27 circuits experienced no unplanned outages). 23 circuits had SAIDI and/or SAIFI figures that exceeded 2015 system wide performance values.

SYSTEM AVERAGE INTERRUPTION DURATION INDEX (SAIDI) & SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX (SAIFI) FIVE YEAR HISTORY

SAIDI figures in minutes, all outages including storm
SAIFI figures in outage events, all non-storm outages

	SAIDI		SAIFI	
	BELLEVUE	PSE	BELLEVUE	PSE
2011	86.1	281.0	0.60	1.02
2012	52.4	245.0	0.40	0.92
2013	100.7	247.0	0.41	0.86
2014	160.2	312.0	0.60	1.04
2015	186.9	361.0	0.71	1.11

PSE SAIDI figures for 2011 - 2015 are five year rolling average figures.

The 2011 - 2012 Bellevue SAIDI figures were calculated as single year figures.

The 2013 Bellevue SAIDI figure was calculated as a four year rolling average for years 2010 - 2013.

The 2014 & 2015 Bellevue SAIDI figures were calculated as a five year rolling average figures.

PSE analyzes the reliability of its circuits using two standard benchmarks of the electric utility industry, SAIDI and SAIFI.

SAIDI_{Total 5-year Average}: Beginning in 2010 the System Average Interruption Duration Index is a measure of how long the average customer is out of service during a rolling five year period, and is determined as:

$$\frac{\text{Total customer outage minutes for the current and past four years}}{\text{Average electric customer count over the current and past four years}}$$

Some customers will experience outages longer than the average and some shorter.

SAIFI: The System Average Interruption Frequency Index is a measure of how often the average customer in an area is out of service during the course of a year, and is determined as:

$$\frac{\text{Sum of the number of customers affected by each outage}}{\text{Total number of customers served}}$$

SAIFI figures are single year figures excluding storm outage events

Some customers will experience more outages than the average and some fewer.

**CIRCUITS THAT EXCEEDED PSE SYSTEM SAIDI OR SAIFI
BY YEAR 2011 - 2015**

During the 2011-2015 five year period 64 circuits serving customers in Bellevue performed below system wide performance in one or more years. Of these 64 circuits...

- 37 (58%) circuits performed below system wide performance once in five years
- 17 (27%) circuits performed below system wide performance twice in five years
- 7 (11%) circuits performed below system wide performance in three of the five years
- 3 (5%) circuit performed below system wide performance in four of the five years

Performance for years 2011 - 2012 use single year SAIDI figures.

Performance for year 2013 uses four year average (2010 - 2013) SAIDI figures.

Performance for years 2014 & 2015 use five year average SAIDI figures.

CIRCUIT	2011	2012	2013	2014	2015	Repeat Counts			
						1	2	3	4
ARD-11		█				1			
ARD-13		█				1			
ARD-15			█		█		1		
BTR-14	█					1			
BTR-22		█	█	█	█				1
CEN-11			█	█			1		
CEN-12			█			1			
CEN-13			█			1			
CEN-14			█	█			1		
CLY-23					█	1			
CLY-25		█				1			
CLY-27	█		█	█				1	
COL-22				█		1			
COL-25				█		1			
COL-26	█	█		█				1	
EGT-11					█	1			
EGT-12					█	1			
EGT-13		█	█					1	
EGT-15		█					1		
EGT-16	█				█		1		
EGT-25		█	█				1		
EGT-27			█			1			
EVE-23	█	█	█		█				1
FAC-12			█			1			
FAC-14				█		1			
GOO-13		█				1			
HAZ-13	█					1			
HOU-23					█	1			
HOU-25					█	1			
KWH-22	█					1			
KWH-23	█					1			
KWH-25				█	█			1	
KWH-26	█				█	1			

LHL-22									1
LHL-23						1			
LHL-25						1			
LHL-26						1			
LOC-25						1			
LOC-32						1			
LOC-34						1			
LOC-35						1			
MED-35								1	
MED-36						1			
MLK-13						1			
MLK-15						1			
NOB-12								1	
NOB-22						1			
NOB-24						1			
NRU-23									1
NRU-25								1	
NRU-26						1			
NRU-27								1	
OVE-12									1
OVE-15								1	
PHA-13								1	
PHA-15								1	
PHA-16								1	
PHA-17						1			
SBE-22						1			
SBE-23						1			
SOM-13								1	
SOM-15									1
SOM-16								1	
SOM-17								1	
Totals	17	19	20	25	23	37	17	7	3
	2011	2012	2013	2014	2015	58%	27%	11%	5%

CIRCUITS THAT EXCEED 2015 PSE SYSTEM SAIDI AND/OR SAIFI
SQI: SAIDI = 320 SAIFI = 1.30
PSE: SAIDI = 361 SAIFI = 1.11
Bellevue: SAIDI = 187 SAIFI = 0.71

Notes: SAIDI figures reflect all outages, scheduled & unscheduled, including storm; SAIFI figures reflect all non-storm outages, scheduled & unscheduled PSE & Bellevue SAIDI are five year rolling average figures for the period 2011 - 2015.

CIRCUIT	SAIDI	SAIFI	2015 Events Comments	Actions & Projects Completed in 2015	Planned Actions & Projects
Circuits with planned actions or investigations					
EGT-16	91.2	3.56	Three circuit outages resulted from 1) failed underground feeder cables, 2) failed overhead transformer fuse and 3) a contact fault between overhead feeder conductors.	Faulted feeder cables were isolated, failed fuse cut-out was replaced and spacers were installed in the overhead lines.	PSE has developed a project to replace failed feeder cables crossing under I-90 to restore the tie to a second circuit. PSE plans to replace the circuit breaker at the substation.
Circuits with completed 2015 actions - no additional corrective action needed					
BTR-22	870.6	0.34	This circuit appears here based on 2014 SAIDI performance elevating the 5 year average SAIDI value. 2015 outage events resulted from tree limb contacts with overhead distribution lines.	Distribution lines were reenergized follow removal of tree limbs and minor repairs.	PSE has developed a project to underground the segment of feeder with the worst reliability exposure and place tree wire on the remaining segment.
SOM-16	534.1	2.27	A tree fell into the radial transmission line feeding Somerset Substation deenergizing the substation. Trees and tree limbs fell into distribution lines causing two circuit outages. An equipment failure caused one circuit outage.	Transmission and distribution lines were reenergized following removal of trees/tree limbs, minor repairs and equipment replacement.	
KWH-25	521.9	0.29	A tree fell into the transmission line feeding Kenilworth Substation deenergizing the substation. A tree fell into distribution lines causing one circuit outage.	The substation was reenergized following removal of the tree limb from the transmission line. Distribution lines were reenergized following removal of a tree and minor repairs.	
MED-35	429.6	0.52	This circuit appears here based on 2014 SAIDI performance elevating the 5 year average SAIDI value. A 2015 circuit outage resulted from a tree limb contact with the distribution bus at Medina Substation.	The substation was reenergized following removal of the tree limb from the distribution bus at the substation.	
SOM-17	376.6	3.17	A tree fell into the radial transmission line feeding Somerset Substation deenergizing the substation. A tree fell into distribution lines causing one circuit outage. A failed distribution cross-arm caused a large outage.	Transmission and distribution lines were reenergized following removal of trees/tree limbs, minor repairs and equipment replacement.	
NRU-25	369.2	1.79	Feeder and distribution cables failed causing a circuit outage with additional customers affected due to temporary switching for system work to accommodate a city public improvement project along 120th AVE NE.	Cable and equipment were replaced in conjunction with system relocation allowing circuits to be restored to normal configuration.	
LHL-22	369.0	1.66	An equipment failure during a construction of a system improvement project resulted in one circuit outage. A tree fell into distribution lines, broke a cross-arm and resulted in one circuit outage.	Distribution lines were reenergized following replacement of failed equipment and removal of a tree.	PSE is currently permitting a new transmission line between Lake Hills and Phantom Lake substations. Two feeder tree wire projects are expected to be completed by year end 2016.
EGT-11	344.7	0.72	This circuit appears here based on 2014 SAIDI performance elevating the 5 year average SAIDI value. A 2015 circuit outage resulted when a tree fell into distribution lines and broke a distribution pole.	Distribution lines were reenergized following removal of a tree limbs and replacement of a distribution pole.	
SOM-15	285.3	1.33	A tree fell into the radial transmission line feeding Somerset Substation deenergizing the substation.	The substation was reenergized following removal of the tree limb from the distribution bus at the substation.	
HOU-25	189.7	2.49	A tree limb fell into the transmission line feeding Houghton Substation deenergizing the substation. A tree fell into distribution lines causing one circuit outage.	The substation was reenergized following removal of the tree limb from the transmission line. Distribution lines were reenergized following removal of a tree and minor repairs.	
ARD-15	173.6	1.20	A car left the road, crossed a sidewalk and struck a pad-mount switch resulting in a circuit outage.	The pad-mount switch was replaced.	
NOB-12	172.8	1.77	Switching for system work including switch and cable replacement to accommodate a city public improvement project along 120th AVE NE required multiple scheduled large outages.	System relocation work was completed and circuits restored to normal configuration.	
CLY-23	159.3	1.59	A tree fell into distribution lines causing one circuit outage.	Distribution lines were reenergized following removal of a tree and minor repairs.	
EGT-12	77.5	2.16	Tree limbs fell into distribution lines resulting in two circuit outage with one occurring during system improvement work with the circuit breaker set not to reenergize for crew safety.	Distribution lines were reenergized following removal of tree limbs and completion of system improvement work.	
HOU-23	51.5	1.13	A tree limb fell into the transmission line feeding Houghton Substation deenergizing the substation.	The substation was reenergized following removal of the tree limb from the transmission line.	
LOC-25	0.9	6.96	System work including switch and cable replacement for Lincoln Square Expansion required scheduled circuit switching and outages.	System improvement work was completed and circuits restored to normal configuration.	
Circuits for which no corrective action is needed					
OVE-15	628.9	1.18	A lightning strike on distribution lines resulting in a circuit outage during system improvement work with the circuit breaker set not to reenergize for crew safety. A majority of outage minutes resulted from multiple outages occurring during a 2015 storm event.		An overhead tree wire project along Overlake drive is planned for 2016 construction.
NRU-23	492.9	0.47	This circuit appears here based on 2014 SAIDI performance elevating the 5 year average SAIDI value.		PSE plans to engage the Bridle Trails neighborhood and City to develop a new landscape plan to remove danger trees from around Northrup Substation.
NRU-27	401.9	0.29	This circuit appears here based on 2014 SAIDI performance elevating the 5 year average SAIDI value.		PSE plans to engage the Bridle Trails neighborhood and City to develop a new landscape plan to remove danger trees from around Northrup Substation.
NRU-26	331.4	1.09	This circuit appears here based on 2014 SAIDI performance elevating the 5 year average SAIDI value.		
EGT-13	325.6	0.00	This circuit appears here based on 2013 SAIDI performance elevating the 5 year average SAIDI value.		
EVE-23	108.4	1.10	A large circuit outage resulted from deenergizing most of this circuit for a brush fire along Lake Sammamish Parkway for fire crew and public safety.		

- Figure exceeded PSE system wide average figure
- Figure exceeding system wide average and Service Quality Index
- SAIFI figure results in part from circuit outages due to 2015 transmission or substation outage

2015 PERFORMANCE FOR CIRCUITS SERVING BELLEVUE

CIRCUIT	2015	2015	2015	2011-2015	2015
	CUSTOMERS (METERS)	UNPLANNED OUTAGES ¹	OUTAGE MINUTES ¹	5 YEAR SAIDI ²	SAIFI ²
	<i>2015 PSE Companywide performance figures</i>			361	1.11
ARD-11	136	0	0	105.66	0.01
ARD-13	644	0	0	76.62	0 ⁴
ARD-15	1,295	14	237,227	173.59	1.20
ARD-43	10	0	0	0	0
BTR-14	1,149	2	25,060	46.01	0.14
BTR-21	1,117	11	66,908	70.16	0.40
BTR-22	649	17	590,372	870.55	0.34
BTR-23	643	0	0	24.61	0.12
CEN-11	33	0	0	84.18	0 ⁴
CEN-12	14	0	0	67.84	0 ⁴
CEN-13	6	0	0	90.21	0 ⁴
CEN-14	247	0	0	101.35	0.60
CEN-22	217	0	0	3.17	0.05
CEN-25	1,009	7	29,055	258.91	0.39
CLY-22	345	0	0	7.26	0.07
CLY-23	589	9	226,536	159.28	1.59
CLY-25	1,518	0	0	37.26	0.21
CLY-26	1,215	5	3,276	63.45	0.01
CLY-27	728	1	243	176.54	0.18
COL-22	1	0	0	296.30	1.00
COL-23	205	1	2,365	47.70	0.14
COL-24	27	0	0	64.72	0 ⁴
COL-25	238	3	10,146	87.72	0.47
COL-26	1,832	6	1,594	129.08	0.01
EGT-11	1,128	15	1,464,514	344.75	0.72
EGT-12	2,848	34	747,141	77.49	2.16
EGT-13	7	0	0	325.64	0 ⁴
EGT-15	342	3	969	54.84	0.12
EGT-16	443	4	149,251	91.17	3.56
EGT-25	664	4	38,433	172.82	0.01
EGT-26	117	0	0	45.61	0.75
EGT-27	594	13	305,911	228.61	0.50
EGT-28	2,161	23	574,967	150.40	0.46
EVE-23	2,933	30	237,317	108.44	1.14
FAC-12	1,263	15	64,563	253.34	0.27
FAC-13	562	4	4,599	136.47	0.03
FAC-14	237	1	66	31.41	0.00
FAC-21	97	1	5,089	8.34	0.05
FAC-23	227	2	32,262	113.56	1.05
FAC-24	80	1	14,653	48.82	0.90
FAC-25	1,498	9	98,136	209.30	0.36
GOO-13	1,802	5	770,409	116.91	0.35
HAZ-12	2,180	11	1,136,533	267.53	0.12
HAZ-13	1,190	13	2,351,595	319.63	0.04
HOU-23	1,230	10	194,284	51.50	1.13
HOU-25	504	15	363,588	189.73	2.49
KWH-22	750	16	355,869	306.45	0.41
KWH-23	939	11	150,995	160.12	0.47
KWH-25	1,615	20	820,795	521.88	0.29
KWH-26	271	4	50,774	139.33	0.44
LHL-22	1,028	13	371,405	369.02	1.66
LHL-23	1,220	8	120,446	75.92	0.89
LHL-25	2,133	15	380,149	233.46	0.92
LHL-26	550	6	64,688	42.15	0.31
LOC-22	1,971	3	33,767	26.65	0.18
LOC-23	1,477	4	28,977	126.37	0.07

LOC-24	86	0	0	0	0
LOC-25	105	0	0	0.84	6.96
LOC-32	90	0	0	27.30	0 ⁴
LOC-33	353	0	0	57.56	0 ⁴
LOC-34	308	0	0	63.56	0 ⁴
LOC-35	22	0	0	32.51	0 ⁴
MED-35	192	6	115,104	429.59	0.52
MED-36	666	7	386,865	228.93	0.06
MLK-12	432	3	1,139	16.71	0.02
MLK-13	1,606	11	34,361	77.24	0.04
MLK-15	1,577	11	37,500	56.37	0.28
MLK-16	1,513	7	49,162	31.12	0.11
NOB-11	62	0	0	26.14	0 ⁴
NOB-12	323	3	47,097	172.78	1.77
NOB-13	31	0	0	22.26	0 ⁴
NOB-14	544	0	0	17.03	0 ⁴
NOB-21	237	0	0	4.52	0 ⁴
NOB-22	117	3	17,134	188.46	0.51
NOB-23	948	0	0	62.45	0.17
NOB-24	975	6	36,683	167.91	0.14
NRU-23	796	21	79,267	492.90	0.47
NRU-25	890	14	363,938	369.24	1.79
NRU-26	183	3	3,570	331.45	1.09
NRU-27	694	18	154,951	401.88	0.29
OVE-12	543	2	251	118.01	0.03
OVE-15	662	15	368,569	628.86	1.18
PHA-13	1,043	21	62,537	111.74	0.37
PHA-15	178	3	31,656	96.76	0.04
PHA-16	1,986	13	345,271	123.91	0.93
PHA-17	696	7	27,677	134.86	0.37
ROS-17	1,085	5	17,143	42.54	1.04
SBE-22	330	1	508	229.12	0.05
SBE-23	282	0	0	65.92	0.05 ⁴
SBE-25	449	3	107,699	247.22	0.01
SBE-26	1,741	22	402,761	112.08	0.32
SOM-13	759	3	47,704	269.03	1.01
SOM-15	1,744	13	173,865	285.33	1.33
SOM-16	2,717	23	1,942,145	534.15	2.27
SOM-17	1,790	17	1,008,873	376.59	3.17
Totals	76,683	650	17,988,356		
Scheduled Outages		128	816,042		

Notes

- 1 Figures exclude major storm event outages
- 2 SAIDI are 2011-2015 five year rolling average figures which reflect all outages including storm events.
SAIFI are 2015 single year figures which reflect all non-storm outages events.
- 3 Includes one circuit outage resulting from substation bank outage
- 4 SAIDI figures greater than zero reflect inclusion of a combination of prior year non-zero SAIDI and/or 2015 scheduled outages (including customer requested outages).
SAIFI figures greater than zero reflect inclusion of 2015 scheduled outages (including customer requested outages).

2015 OUTAGES FOR CIRCUITS SERVING BELLEVUE
EXCLUDING STORM & SCHEDULED OUTAGES

BY CAUSE

CAUSE CODE	CAUSE DESCRIPTION	OUTAGES		OUTAGE MINUTES	
		COUNT	PERCENT	COUNT	PERCENT
AC	ACCIDENT	1	0.2%	166	0.0%
AO	ACCIDENT OTHER, WITH FIRES	8	1.5%	45,554	0.7%
AV	ACCIDENT/VANDALISM	1	0.2%	41	0.0%
BA	BIRD OR ANIMAL	124	23.4%	348,887	5.5%
CE	CUSTOMER EQUIPMENT	1	0.2%	7	0.0%
CP	CAR EQUIPMENT	7	1.3%	189,616	3.0%
DU	DIG UP UNDERGROUND	22	4.2%	80,305	1.3%
EF	EQUIPMENT FAILURE	262	49.4%	2,548,929	40.3%
EO	ELECTRICAL OVERLOAD	4	0.8%	6,387	0.1%
FI	FAULTY INSTALLATION	1	0.2%	15,540	0.2%
LI	LIGHTNING	1	0.2%	1,117	0.0%
OD	OUTSIDE DISTURBANCE	3	0.6%	15,635	0.2%
OE	OUTAGE WHILE WORKING	11	2.1%	203,837	3.2%
TF	TREE - OFF RIGHT OF WAY	2	0.4%	803,026	12.7%
TO	TREE - ON RIGHT OF WAY	2	0.4%	419,925	6.6%
TV	TREE - RIGHT OF WAY UNKNOWN	58	10.9%	1,602,067	25.3%
UN	UNKNOWN CAUSE	21	4.0%	50,881	0.8%
VA	VANDALISM	1	0.2%	43	0.0%
Totals		530	100%	6,331,963	100%

EQUIP CODE	EQUIPMENT DESCRIPTION	OUTAGES		OUTAGE MINUTES	
		COUNT	PERCENT	COUNT	PERCENT
OCE	CUSTOMER EQUIPMENT	1	0.2%	66	0.0%
OCN	OVERHEAD SECONDARY CONNECTOR	5	0.9%	2181	0.0%
OCO	OVERHEAD CONDUCTOR	38	7.2%	2535468	40.0%
OCR	OVERHEAD CROSSARM	5	0.9%	478090.84	7.6%
OFC	OVERHEAD CUT-OUT	11	2.1%	109737	1.7%
OFU	OVERHEAD LINE FUSE / FUSE LINK	22	4.2%	90201	1.4%
OIN	OVERHEAD INSULATOR	3	0.6%	19766	0.3%
OJU	OVERHEAD JUMPER WIRE	6	1.1%	74911	1.2%
OPO	OVERHEAD POLE (EDOP100)	8	1.5%	143585	2.3%
OSV	OVERHEAD SERVICE	20	3.8%	7536	0.1%
OSW	OVERHEAD SWITCH (EDOS100)	3	0.6%	95064	1.5%
OTF	OVERHEAD TRANSFORMER FUSE	92	17.4%	102029	1.6%
OTR	OVERHEAD TRANSFORMER	22	4.2%	52919	0.8%
PMF	PADMOUNT SWITCH FUSE	7	1.3%	158913	2.5%
PMP	PADMOUNT METER POINT (EDUM100)	1	0.2%	43	0.0%
PTF	PADMOUNT TRANSFORMER FUSE	1	0.2%	2120	0.0%
SCS	CIRCUIT SWITCHER	1	0.2%	2869	0.0%
UEL	UNDERGROUND ELBOW	12	2.3%	231263	3.7%
UFJ	UNDERGROUND J-BOX	11	2.1%	92099	1.5%
UHH	UNDERGROUND HANDHOLE - SECONDARY	8	1.5%	6539	0.1%
UOT	UNDERGROUND OUTDOOR TERMINATION	3	0.6%	37097	0.6%
UPC	UNDERGROUND PRIMARY CABLE	97	18.3%	1408467	22.2%
UPS	UNDERGROUND PADMOUNT SWITCH (EDUS100)	4	0.8%	119936	1.9%
UPT	UNDERGROUND PADMOUNT TRANSFO	15	2.8%	97230	1.5%
USC	UNDERGROUND SECONDARY CABLE	9	1.7%	16488	0.3%
USP	UNDERGROUND PRIMARY SPLICE	1	0.2%	8806	0.1%
USV	UNDERGROUND SERVICE	65	12.3%	30145	0.5%
UTC	UNDERGROUND TERMINAL FUSE	31	5.8%	171631	2.7%
UTR	UNDERGROUND SUBMERSIBLE TRANSFORMER	28	5.3%	236763	3.7%
Totals		530	100%	6,331,963	100%

2015 OUTAGES FOR CIRCUITS SERVING BELLEVUE
EXCLUDING CUSTOMER REQUESTED & SCHEDULED OUTAGES

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
4/19/2015	ARD-15	UTC	BA	204	29,971	NON
4/28/2015	ARD-15	UEL	EF	1	240	NON
4/28/2015	ARD-15	UEL	EF	45	10,845	NON
4/28/2015	ARD-15	UEL	EF	1	241	NON
4/28/2015	ARD-15	UEL	EF	1	241	NON
4/28/2015	ARD-15	UPC	EF	45	11,525	NON
4/28/2015	ARD-15	UPC	EF	4	1,027	NON
4/28/2015	ARD-15	UEL	EF	1	295	NON
5/24/2015	ARD-15	PMF	BA	204	13,073	NON
7/15/2015	ARD-15	UOT	BA	108	13,917	NON
7/30/2015	ARD-15	UPS	CP	467	99,200	NON
9/19/2015	ARD-15	UTR	EF	1	559	NON
11/19/2015	ARD-15	UFJ	FI	108	28,080	MAJ
11/19/2015	ARD-15	UFJ	EF	108	28,013	MAJ
6/3/2015	BTR-14	UHH	EF	45	135	NON
9/5/2015	BTR-14	UFJ	EF	108	24,925	NON
3/4/2015	BTR-21	UPT	EF	19	1,881	NON
4/27/2015	BTR-21	OTF	EF	5	482	NON
5/14/2015	BTR-21	OTF	BA	4	348	NON
6/26/2015	BTR-21	OCO	TV	13	1,022	NON
8/11/2015	BTR-21	UPC	EF	396	48,787	NON
8/29/2015	BTR-21	OCO	TV	11	526	MAJ
8/29/2015	BTR-21	OCO	TV	13	951	MAJ
8/30/2015	BTR-21	OCO	TV	6	11,556	MAJ
9/9/2015	BTR-21	UPC	EF	1	348	NON
9/29/2015	BTR-21	UTC	EF	4	647	NON
10/18/2015	BTR-21	OFU	EF	4	360	NON
6/13/2015	BTR-22	OSV	TV	1	137	NON
6/24/2015	BTR-22	OTF	BA	14	954	NON
7/7/2015	BTR-22	OTF	BA	2	301	NON
8/14/2015	BTR-22	OFU	TV	10	221	NON
8/27/2015	BTR-22	OSV	EF	1	92	NON
8/31/2015	BTR-22	OSV	TV	1	109	MAJ
9/4/2015	BTR-22	OFU	TV	1	99	MAJ
9/16/2015	BTR-22	UPC	EF	1	380	NON
9/16/2015	BTR-22	UPC	EF	11	4,706	NON
11/6/2015	BTR-22	UPC	UN	2	841	NON
11/17/2015	BTR-22	OCO	TV	0	5,085	MAJ
11/17/2015	BTR-22	OCO	TV	228	228,771	MAJ
11/17/2015	BTR-22	OPO	TV	119	267,778	MAJ
12/1/2015	BTR-22	UPC	EF	24	7,627	NON
12/9/2015	BTR-22	OCO	TV	53	25,416	MAJ
12/21/2015	BTR-22	OCO	TV	119	43,643	NON
12/23/2015	BTR-22	UPC	EF	24	4,212	NON
8/11/2015	CEN-25	UPC	OE	1	21	NON
8/12/2015	CEN-25	UPC	EO	137	3,206	NON
8/12/2015	CEN-25	UPC	EO	23	664	NON
9/21/2015	CEN-25	UPC	EF	53	12,595	NON

10/7/2015	CEN-25	UPC	EF	1	23	NON
10/7/2015	CEN-25	UPC	EF	60	12,380	NON
12/18/2015	CEN-25	OSV	AC	1	166	NON
6/24/2015	CLY-23	OPO	TV	44	8,477	NON
7/18/2015	CLY-23	OTF	BA	7	1,958	NON
7/26/2015	CLY-23	OJU	BA	294	42,684	NON
8/4/2015	CLY-23	OTR	BA	44	7,060	NON
8/29/2015	CLY-23	OCO	TV	539	59,919	NON
8/29/2015	CLY-23	OCO	TV	44	105,841	MAJ
9/4/2015	CLY-23	OTF	BA	3	326	MAJ
9/14/2015	CLY-23	OTF	TV	3	241	NON
11/14/2015	CLY-23	OFU	TV	2	30	NON
8/10/2015	CLY-26	OTF	BA	1	79	NON
8/11/2015	CLY-26	USC	DU	1	311	NON
8/12/2015	CLY-26	OCO	TV	1	130	NON
8/13/2015	CLY-26	USV	DU	1	691	NON
9/10/2015	CLY-26	USV	DU	5	2,065	NON
1/20/2015	CLY-27	OSV	AO	1	243	MAJ
2/28/2015	COL-23	UPC	UN	29	2,365	NON
2/6/2015	COL-25	OJU	EF	20	5,075	NON
11/11/2015	COL-25	USV	EF	1	194	NON
12/8/2015	COL-25	UTR	EF	13	4,877	NON
2/2/2015	COL-26	USV	AV	1	41	NON
4/6/2015	COL-26	USV	EF	1	201	NON
6/14/2015	COL-26	PMP	VA	1	43	NON
8/22/2015	COL-26	OTF	EF	4	389	NON
9/26/2015	COL-26	OJU	EF	4	492	NON
12/28/2015	COL-26	USV	EF	1	428	NON
1/18/2015	EGT-11	OCO	TV	94	98,954	MAJ
1/18/2015	EGT-11	OCO	TV	58	68,417	MAJ
1/28/2015	EGT-11	UFJ	EF	13	2,016	NON
1/31/2015	EGT-11	UPC	EF	142	19,127	NON
6/9/2015	EGT-11	OTF	BA	4	328	NON
7/4/2015	EGT-11	OFC	BA	190	29,216	NON
8/6/2015	EGT-11	OTF	BA	6	380	NON
8/9/2015	EGT-11	UPC	EF	61	8,046	NON
8/22/2015	EGT-11	UPC	EF	51	354	NON
8/22/2015	EGT-11	UPC	EF	135	49,558	NON
8/29/2015	EGT-11	OCO	TV	796	905,593	MAJ
8/30/2015	EGT-11	OPO	TV	0	183,694	MAJ
9/9/2015	EGT-11	UPC	EF	13	8,437	NON
10/14/2015	EGT-11	UPC	EF	166	90,368	NON
12/9/2015	EGT-11	OCO	TV	1	26	MAJ
1/5/2015	EGT-12	OFC	TV	9	1,239	NON
1/18/2015	EGT-12	UTC	TV	20	11,738	MAJ
2/9/2015	EGT-12	USV	EF	1	381	NON
2/13/2015	EGT-12	OTR	BA	1	60	NON
2/19/2015	EGT-12	USV	EF	1	329	NON
3/10/2015	EGT-12	OTF	EF	3	262	NON
3/22/2015	EGT-12	UPC	EF	4	2,026	NON
4/15/2015	EGT-12	OTF	BA	3	148	NON
6/14/2015	EGT-12	OCO	TV	9	4,537	NON
6/19/2015	EGT-12	OTR	BA	1	323	NON

7/4/2015	EGT-12	UPC	EF	19	9,583	NON
7/11/2015	EGT-12	OCO	TO	2,776	319,981	NON
7/15/2015	EGT-12	USC	DU	1	247	NON
7/27/2015	EGT-12	OTF	EF	2	66	NON
8/1/2015	EGT-12	OSV	TV	6	1,736	NON
8/4/2015	EGT-12	OCO	TV	9	3,484	NON
8/5/2015	EGT-12	OCO	TV	0	1,155	NON
8/5/2015	EGT-12	OCO	TV	72	4,392	NON
8/14/2015	EGT-12	OIN	EF	15	2,298	NON
8/14/2015	EGT-12	OIN	EF	12	1,928	NON
8/29/2015	EGT-12	OCO	TV	2	1,403	MAJ
8/29/2015	EGT-12	OCO	TV	3	2,149	MAJ
8/29/2015	EGT-12	OCO	TV	6	4,316	MAJ
8/29/2015	EGT-12	OCO	TV	3	2,218	MAJ
8/29/2015	EGT-12	OCO	TV	15	11,199	MAJ
8/29/2015	EGT-12	OCO	TV	5	2,836	MAJ
9/4/2015	EGT-12	UPT	EF	3	1,433	MAJ
10/30/2015	EGT-12	OCO	TV	3,180	312,637	NON
10/31/2015	EGT-12	UPC	EF	11	8,526	NON
11/17/2015	EGT-12	OCO	TV	34	15,497	MAJ
11/26/2015	EGT-12	OFU	UN	148	17,617	MAJ
12/3/2015	EGT-12	USV	EF	1	170	NON
12/7/2015	EGT-12	USV	UN	1	529	NON
12/25/2015	EGT-12	USV	EF	1	698	NON
7/5/2015	EGT-15	OJU	EF	1	154	NON
8/28/2015	EGT-15	OTF	BA	12	637	NON
10/30/2015	EGT-15	OSV	EF	1	178	NON
3/10/2015	EGT-16	UPC	EF	516	63,984	NON
3/19/2015	EGT-16	OFC	EF	516	62,634	NON
5/15/2015	EGT-16	UPC	EF	46	19,764	NON
6/19/2015	EGT-16	SCS	EF	499	2,869	NON
6/16/2015	EGT-25	OTF	BA	2	196	NON
8/12/2015	EGT-25	OCN	EF	1	585	NON
11/17/2015	EGT-25	OCO	TV	38	36,788	MAJ
12/28/2015	EGT-25	OTR	EF	3	864	NON
1/22/2015	EGT-27	OFU	UN	34	3,691	NON
8/10/2015	EGT-27	OTF	BA	6	350	NON
8/28/2015	EGT-27	OCO	EF	126	13,633	NON
8/29/2015	EGT-27	OFU	TV	1,302	91,053	MAJ
9/12/2015	EGT-27	OTF	BA	6	492	NON
9/24/2015	EGT-27	USV	OE	4	289	NON
10/31/2015	EGT-27	OTR	OD	8	2,719	WTH
11/5/2015	EGT-27	OTF	BA	6	455	NON
11/13/2015	EGT-27	OFU	TV	96	14,967	NON
11/17/2015	EGT-27	OCO	TV	7	9,596	MAJ
11/17/2015	EGT-27	OCO	TV	99	167,198	MAJ
11/30/2015	EGT-27	OSV	TV	1	150	NON
12/27/2015	EGT-27	OTR	UN	4	1,318	NON
1/5/2015	EGT-28	OCO	TV	19	11,123	NON
2/6/2015	EGT-28	OFU	EF	245	42,316	NON
2/25/2015	EGT-28	UHH	EF	5	2,084	NON
3/1/2015	EGT-28	USV	EF	1	190	NON
3/9/2015	EGT-28	USC	DU	7	4,270	NON

4/4/2015	EGT-28	USC	EF	24	6,956	NON
4/7/2015	EGT-28	USV	EF	1	272	NON
4/23/2015	EGT-28	USV	EF	1	505	NON
5/3/2015	EGT-28	UEL	EF	58	13,418	NON
6/15/2015	EGT-28	UPC	EF	0	40,005	NON
6/19/2015	EGT-28	UOT	EF	44	16,950	NON
6/20/2015	EGT-28	UTC	BA	25	1,633	NON
7/6/2015	EGT-28	OSW	BA	12	550	NON
7/18/2015	EGT-28	OTF	UN	2	156	NON
8/6/2015	EGT-28	UTR	EF	8	3,187	NON
8/7/2015	EGT-28	UPC	EF	30	4,031	NON
8/12/2015	EGT-28	UPC	EF	57	10,932	NON
8/29/2015	EGT-28	OCO	TV	244	299,547	MAJ
9/3/2015	EGT-28	PMF	BA	65	5,977	MAJ
9/28/2015	EGT-28	UPC	EF	95	51,021	NON
10/11/2015	EGT-28	UPC	EF	65	27,429	WTH
11/19/2015	EGT-28	OTF	TV	1	134	MAJ
12/18/2015	EGT-28	UTC	EF	284	32,281	NON
1/1/2015	EVE-23	USV	EF	1	388	NON
3/23/2015	EVE-23	USV	EF	1	107	NON
4/2/2015	EVE-23	UHH	EF	3	635	NON
4/12/2015	EVE-23	OSW	EF	19	932	NON
4/12/2015	EVE-23	OTF	BA	5	260	NON
4/12/2015	EVE-23	OSW	EF	2,127	93,582	NON
4/16/2015	EVE-23	OTF	BA	5	424	NON
4/28/2015	EVE-23	UTC	BA	263	20,793	NON
6/11/2015	EVE-23	UPC	EF	33	18,000	NON
6/12/2015	EVE-23	UPC	EF	1	244	NON
6/22/2015	EVE-23	UTC	BA	152	11,853	NON
6/22/2015	EVE-23	UTC	BA	11	863	NON
6/22/2015	EVE-23	UTC	BA	12	942	NON
6/22/2015	EVE-23	UTC	BA	13	1,021	NON
6/22/2015	EVE-23	UTC	BA	16	1,257	NON
6/22/2015	EVE-23	UTC	BA	6	472	NON
6/25/2015	EVE-23	UPC	EF	28	12,291	NON
7/12/2015	EVE-23	OTF	BA	12	965	NON
7/16/2015	EVE-23	UPC	EF	17	5,716	NON
7/25/2015	EVE-23	UTC	BA	9	636	NON
8/3/2015	EVE-23	UPC	DU	34	10,292	NON
8/22/2015	EVE-23	UPC	DU	153	19,708	NON
9/1/2015	EVE-23	USV	EF	1	341	MAJ
9/14/2015	EVE-23	OCO	TV	204	23,888	NON
10/20/2015	EVE-23	UTR	EF	36	9,731	NON
10/26/2015	EVE-23	OTF	TV	3	299	NON
11/15/2015	EVE-23	OFC	EF	28	588	NON
11/24/2015	EVE-23	USV	UN	1	455	NON
11/26/2015	EVE-23	USV	EF	1	92	MAJ
12/10/2015	EVE-23	UTC	TV	1	542	MAJ
4/12/2015	FAC-12	UHH	EF	1	409	NON
4/14/2015	FAC-12	USV	EO	1	397	NON
6/7/2015	FAC-12	OTF	BA	2	127	NON
6/8/2015	FAC-12	OTF	BA	36	997	NON
7/11/2015	FAC-12	OTF	BA	30	1,778	NON

7/15/2015	FAC-12	USC	DU	1	135	NON
8/5/2015	FAC-12	OTF	BA	2	114	NON
8/11/2015	FAC-12	UPC	EF	2	1,053	NON
8/18/2015	FAC-12	USC	EF	7	662	NON
9/11/2015	FAC-12	UPC	EF	133	14,505	NON
9/26/2015	FAC-12	USV	EF	1	237	NON
10/17/2015	FAC-12	USV	EF	1	178	NON
11/4/2015	FAC-12	UTR	UN	33	4,132	NON
11/4/2015	FAC-12	UPC	EF	87	39,787	NON
12/22/2015	FAC-12	OSV	EF	1	52	NON
5/13/2015	FAC-13	UPC	EF	3	987	NON
7/13/2015	FAC-13	UPT	EF	1	169	NON
8/11/2015	FAC-13	UFJ	EF	6	2,048	NON
10/7/2015	FAC-13	UPT	BA	7	1,395	NON
6/5/2015	FAC-14	OTF	BA	1	66	NON
1/29/2015	FAC-21	UTR	EF	418	5,089	NON
1/26/2015	FAC-23	UPT	AO	5	187	NON
5/13/2015	FAC-23	UPC	DU	227	32,075	NON
5/3/2015	FAC-24	UEL	EF	64	14,653	NON
2/16/2015	FAC-25	UPC	EF	2	1,015	NON
4/6/2015	FAC-25	OTF	BA	4	227	NON
5/22/2015	FAC-25	OCO	TV	411	88,834	NON
6/1/2015	FAC-25	OFC	EF	2	101	NON
7/4/2015	FAC-25	OSV	TV	1	159	NON
8/11/2015	FAC-25	UTR	EF	38	5,666	NON
8/14/2015	FAC-25	OFU	TV	6	715	NON
8/16/2015	FAC-25	OTF	BA	6	519	NON
10/9/2015	FAC-25	UTR	EF	2	900	NON
1/12/2015	GOO-13	OFC	EF	1	47	NON
6/27/2015	GOO-13	PTF	EO	22	2,120	NON
8/30/2015	GOO-13	OFU	TV	1,802	11,863	MAJ
9/9/2015	GOO-13	UTC	BA	97	10,313	NON
12/10/2015	GOO-13 ²	SCS	TV	1,746	746,066	MAJ
1/13/2015	HAZ-12	OTF	EF	4	734	NON
1/13/2015	HAZ-12	OCO	EF	21	7,450	NON
3/22/2015	HAZ-12	OTF	BA	4	461	NON
8/31/2015	HAZ-12	USV	EF	1	95	MAJ
9/24/2015	HAZ-12	UPC	EF	2	985	NON
9/29/2015	HAZ-12	UPC	EF	2	1,279	NON
11/17/2015	HAZ-12	OCO	TV	3,371	1,087,951	MAJ
11/18/2015	HAZ-12	UPT	EF	21	12,408	MAJ
11/27/2015	HAZ-12	OTF	EF	7	767	NON
12/5/2015	HAZ-12	USV	OE	1	116	NON
12/10/2015	HAZ-12	OCO	TV	36	24,287	MAJ
1/18/2015	HAZ-13	OCO	TV	6	599	MAJ
1/18/2015	HAZ-13	OCO	TV	1,126	520,006	MAJ
1/18/2015	HAZ-13	OCO	TV	54	71,976	MAJ
6/28/2015	HAZ-13	OTR	LI	2	1,117	NON
7/8/2015	HAZ-13	OTF	UN	1	322	NON
7/11/2015	HAZ-13	OTF	EF	4	548	NON
7/11/2015	HAZ-13	OTF	BA	4	747	NON
7/18/2015	HAZ-13	OSV	EF	1	108	NON
7/30/2015	HAZ-13	OCO	TV	30	10,766	NON

9/3/2015	HAZ-13	OTF	BA	1	81	MAJ
11/13/2015	HAZ-13	OCO	TV	3	165	NON
11/17/2015	HAZ-13	OPO	TV	30	50,711	MAJ
12/9/2015	HAZ-13	OCO	TV	4,251	1,694,449	MAJ
1/1/2015	HOU-23	OTF	BA	5	571	NON
4/24/2015	HOU-23	USV	DU	1	500	NON
6/30/2015	HOU-23	UPT	UN	26	6,988	NON
7/7/2015	HOU-23	OTF	BA	55	5,149	NON
8/21/2015	HOU-23	UTC	BA	1	154	NON
8/30/2015	HOU-23	OTF	TV	6	8,007	MAJ
9/2/2015	HOU-23	OTF	TV	4	369	MAJ
9/28/2015	HOU-23	UPC	EF	68	14,283	NON
10/31/2015	HOU-23 ¹	OCR	TV	1,230	157,856	WTH
12/26/2015	HOU-23	USV	EF	1	407	NON
1/17/2015	HOU-25	OCO	TV	4	1,647	NON
1/29/2015	HOU-25	USV	EF	1	167	NON
7/6/2015	HOU-25	OFU	BA	4	469	NON
7/6/2015	HOU-25	OCO	TV	4	1,371	NON
7/22/2015	HOU-25	UPC	DU	1	51	NON
8/26/2015	HOU-25	OFU	BA	12	886	NON
8/29/2015	HOU-25	OCO	TV	89	73,256	MAJ
8/30/2015	HOU-25	OTF	TV	5	1,800	MAJ
9/17/2015	HOU-25	OCO	TV	12	1,873	NON
9/18/2015	HOU-25	UTR	EF	1	453	NON
10/31/2015	HOU-25 ¹	OCR	TV	504	64,682	WTH
11/27/2015	HOU-25	OTF	BA	1	78	NON
12/11/2015	HOU-25	OCO	TV	4	1,850	MAJ
12/23/2015	HOU-25	OCO	TF	700	214,521	NON
12/23/2015	HOU-25	UTR	EF	1	484	NON
1/5/2015	KWH-22	OPO	EF	121	10,573	NON
1/18/2015	KWH-22 ¹	OCO	TV	750	75,270	MAJ
2/2/2015	KWH-22	UPC	EF	18	3,599	NON
2/5/2015	KWH-22	USV	EF	1	107	NON
3/18/2015	KWH-22	USV	EF	1	172	NON
5/7/2015	KWH-22	UTR	EF	37	14,893	NON
6/9/2015	KWH-22	OSV	TV	1	127	NON
6/16/2015	KWH-22	USV	EF	1	87	NON
8/27/2015	KWH-22	OPO	CP	2	548	NON
8/27/2015	KWH-22	OPO	CP	121	50,174	NON
8/30/2015	KWH-22	OSV	TV	1	1,795	MAJ
9/5/2015	KWH-22	OSV	TV	1	110	NON
11/17/2015	KWH-22	OCO	TV	272	148,808	MAJ
12/9/2015	KWH-22	OTF	TV	3	1,679	MAJ
12/9/2015	KWH-22	OCO	TV	15	11,544	MAJ
12/10/2015	KWH-22	OCO	UN	44	36,383	MAJ
1/10/2015	KWH-23	USV	EF	1	149	NON
1/18/2015	KWH-23 ¹	OCO	TV	939	94,238	MAJ
2/10/2015	KWH-23	OCO	TV	197	21,066	NON
5/17/2015	KWH-23	OFC	EF	11	587	NON
5/26/2015	KWH-23	USV	EF	1	233	NON
6/15/2015	KWH-23	UPC	EF	35	18,142	NON
7/2/2015	KWH-23	OTF	BA	1	151	NON
7/6/2015	KWH-23	PMF	BA	1	90	NON

10/10/2015	KWH-23	OIN	FI	197	15,540	NON
12/5/2015	KWH-23	USV	UN	1	432	NON
12/10/2015	KWH-23	OTF	TV	1	367	MAJ
1/13/2015	KWH-25	USV	EF	1	102	NON
1/18/2015	KWH-25 ¹	OCO	TV	1,615	162,080	MAJ
4/2/2015	KWH-25	OCO	AO	129	18,342	NON
4/3/2015	KWH-25	OJU	TV	1	111	NON
4/3/2015	KWH-25	OCO	TV	196	81,288	NON
4/19/2015	KWH-25	UTR	EF	7	2,996	NON
4/27/2015	KWH-25	OFC	EF	6	712	NON
5/15/2015	KWH-25	UPC	EF	46	9,285	NON
7/3/2015	KWH-25	OTF	BA	6	1,001	NON
7/12/2015	KWH-25	OTF	BA	4	308	NON
7/19/2015	KWH-25	UPC	EF	29	6,482	NON
8/5/2015	KWH-25	UTC	BA	4	496	NON
8/5/2015	KWH-25	UTC	BA	14	1,978	NON
8/13/2015	KWH-25	USC	EF	1	330	NON
10/26/2015	KWH-25	USV	EF	1	347	NON
11/17/2015	KWH-25	OCO	TV	393	526,133	MAJ
12/5/2015	KWH-25	UTR	EF	24	8,563	NON
12/15/2015	KWH-25	USV	EF	1	1	NON
12/16/2015	KWH-25	USV	CE	1	7	NON
12/25/2015	KWH-25	USV	EF	1	233	NON
1/18/2015	KWH-26 ¹	OCO	TV	271	27,197	MAJ
6/21/2015	KWH-26	UPC	EF	105	23,126	NON
8/17/2015	KWH-26	OTF	BA	5	221	NON
8/19/2015	KWH-26	OTF	BA	7	230	NON
3/7/2015	LHL-22	OTR	EF	4	1,001	NON
3/14/2015	LHL-22	OSV	TV	10	1,970	NON
4/24/2015	LHL-22	OFC	BA	74	5,243	NON
5/8/2015	LHL-22	OJU	OE	1,044	26,395	NON
6/14/2015	LHL-22	OTR	BA	52	4,520	NON
7/1/2015	LHL-22	OTF	BA	5	476	NON
8/21/2015	LHL-22	OTF	BA	6	528	NON
10/4/2015	LHL-22	OSV	EF	6	549	NON
11/4/2015	LHL-22	OTR	BA	6	419	NON
11/18/2015	LHL-22	OCO	TV	3	3,897	MAJ
11/18/2015	LHL-22	OCO	TV	3	5,965	MAJ
12/9/2015	LHL-22	OCO	TV	1,012	320,063	MAJ
12/10/2015	LHL-22	OPO	TV	3	379	MAJ
4/28/2015	LHL-23	UPC	EF	21	2,734	NON
4/28/2015	LHL-23	UPC	EF	14	1,831	NON
4/28/2015	LHL-23	UPC	EF	26	4,377	NON
4/28/2015	LHL-23	UPC	EF	228	44,963	NON
4/28/2015	LHL-23	UEL	EF	293	42,827	NON
4/30/2015	LHL-23	OTF	EF	61	5,246	NON
6/8/2015	LHL-23	UPC	EF	108	14,233	NON
7/6/2015	LHL-23	OFC	EF	22	4,235	NON
3/14/2015	LHL-25	UPC	EF	414	60,460	NON
4/12/2015	LHL-25	OTF	BA	220	17,222	NON
4/28/2015	LHL-25	UPC	EF	1	243	NON
4/28/2015	LHL-25	UPC	EF	62	15,911	NON
5/14/2015	LHL-25	UPC	EF	207	49,014	NON

7/2/2015	LHL-25	UPS	EF	151	6,677	NON
7/2/2015	LHL-25	UPS	EF	37	13,871	NON
7/25/2015	LHL-25	OTF	BA	8	766	NON
8/1/2015	LHL-25	UPT	EF	202	31,547	NON
8/2/2015	LHL-25	UPC	EF	85	18,029	NON
10/6/2015	LHL-25	OCR	EF	16	2,169	NON
10/8/2015	LHL-25	UPC	EF	207	47,017	NON
10/9/2015	LHL-25	UPT	EF	29	4,781	NON
11/15/2015	LHL-25	UTR	EF	130	19,157	NON
12/10/2015	LHL-25	OCO	TV	170	93,285	MAJ
5/31/2015	LHL-26	UTR	EF	8	1,867	NON
7/6/2015	LHL-26	PMF	BA	62	4,900	NON
7/6/2015	LHL-26	PMF	BA	47	4,456	NON
7/6/2015	LHL-26	PMF	BA	50	4,747	NON
9/11/2015	LHL-26	USV	EF	1	74	NON
12/10/2015	LHL-26	OCO	TV	112	48,644	MAJ
5/20/2015	LOC-22	UHH	EF	1	173	NON
6/15/2015	LOC-22	OFU	BA	107	10,081	NON
8/21/2015	LOC-22	UTC	BA	153	23,513	NON
1/29/2015	LOC-23	UTC	EF	43	7,354	NON
4/29/2015	LOC-23	UTR	EF	37	18,343	NON
6/1/2015	LOC-23	OFU	BA	17	1,885	NON
6/1/2015	LOC-23	OFU	BA	12	1,395	NON
2/11/2015	MED-35	UPC	EF	35	10,096	NON
5/29/2015	MED-35	UPC	UN	23	9,054	NON
8/29/2015	MED-35 ²	OCO	TV	181	85,028	MAJ
9/4/2015	MED-35	UHH	EF	7	1,191	NON
11/3/2015	MED-35	UPC	UN	32	8,846	NON
11/28/2015	MED-35	UTR	EF	3	889	NON
3/16/2015	MED-36	OTR	EF	1	313	NON
8/1/2015	MED-36	OTF	BA	36	3,319	NON
8/29/2015	MED-36 ²	OCO	TV	668	372,686	MAJ
8/29/2015	MED-36	OTF	EF	4	9,536	MAJ
11/4/2015	MED-36	OCN	TV	5	682	NON
11/13/2015	MED-36	USV	UN	1	138	NON
12/11/2015	MED-36	USV	EF	1	191	MAJ
1/3/2015	MLK-12	USV	EF	1	336	NON
3/15/2015	MLK-12	OTF	EF	6	488	NON
8/29/2015	MLK-12	OCO	TV	3	315	NON
1/23/2015	MLK-13	UHH	AO	4	1,141	NON
2/17/2015	MLK-13	USV	DU	1	308	NON
3/9/2015	MLK-13	UFJ	EF	2	738	NON
3/23/2015	MLK-13	UPC	DU	10	440	NON
4/20/2015	MLK-13	UFJ	EF	10	1,712	NON
6/30/2015	MLK-13	OTF	BA	3	169	NON
8/31/2015	MLK-13	UPC	EF	1	113	MAJ
9/1/2015	MLK-13	PMF	BA	112	28,892	MAJ
9/18/2015	MLK-13	OTF	EF	9	433	NON
10/11/2015	MLK-13	OTF	BA	2	227	WTH
11/29/2015	MLK-13	UPS	CP	1	188	NON
5/2/2015	MLK-15	UTR	EF	58	10,018	NON
5/14/2015	MLK-15	UPC	DU	1	77	NON
5/30/2015	MLK-15	UPC	EF	2	1,112	NON

6/8/2015	MLK-15	OTF	TV	1	88	NON
7/15/2015	MLK-15	OCN	EF	1	293	NON
7/17/2015	MLK-15	USP	EF	52	8,806	NON
8/12/2015	MLK-15	UFJ	EF	2	1	NON
8/12/2015	MLK-15	UFJ	EF	77	10,964	NON
8/25/2015	MLK-15	UTC	BA	24	2,751	NON
9/4/2015	MLK-15	OTF	BA	2	164	MAJ
12/9/2015	MLK-15	OSV	TV	4	3,226	MAJ
5/12/2015	MLK-16	USV	EF	8	232	NON
6/29/2015	MLK-16	OFU	BA	7	760	NON
7/10/2015	MLK-16	UTC	TV	33	11,220	NON
8/14/2015	MLK-16	OPO	TV	21	17,437	NON
8/27/2015	MLK-16	UTC	BA	5	250	NON
10/22/2015	MLK-16	UPC	EF	75	18,702	NON
12/2/2015	MLK-16	USV	UN	24	561	NON
1/18/2015	NOB-12	UTC	TV	39	27,292	MAJ
2/18/2015	NOB-12	OCO	OE	59	2,337	NON
2/18/2015	NOB-12	OCO	OE	59	17,468	NON
5/31/2015	NOB-22	UPC	EF	38	13,827	NON
7/30/2015	NOB-22	UPC	UN	20	3,189	NON
9/19/2015	NOB-22	OTF	EF	1	118	NON
1/21/2015	NOB-24	OSV	TV	1	44	MAJ
3/20/2015	NOB-24	UTR	OE	95	20,905	NON
8/12/2015	NOB-24	UFJ	EF	2	282	NON
8/29/2015	NOB-24	OSV	TV	7	13,518	MAJ
8/31/2015	NOB-24	OCO	TV	1	526	MAJ
11/29/2015	NOB-24	OTF	EF	8	1,408	NON
4/4/2015	NRU-23	OFU	BA	4	326	NON
4/20/2015	NRU-23	UFJ	EF	110	18,949	NON
4/28/2015	NRU-23	UPT	EF	5	1,820	NON
5/26/2015	NRU-23	UPC	EF	5	2,272	NON
6/1/2015	NRU-23	UPC	EF	4	2,153	NON
6/13/2015	NRU-23	OFU	BA	4	381	NON
6/24/2015	NRU-23	OTF	BA	5	254	NON
7/20/2015	NRU-23	UTC	BA	4	452	NON
7/22/2015	NRU-23	UEL	EF	112	24,824	NON
7/23/2015	NRU-23	OCN	EF	1	116	NON
7/24/2015	NRU-23	OFU	TV	4	172	NON
7/25/2015	NRU-23	UTR	EF	30	4,810	NON
8/6/2015	NRU-23	UTC	BA	3	308	NON
9/7/2015	NRU-23	OTF	BA	2	179	NON
9/13/2015	NRU-23	USC	UN	1	157	NON
9/26/2015	NRU-23	UTC	BA	13	935	NON
9/30/2015	NRU-23	OTR	EF	1	360	NON
10/7/2015	NRU-23	UEL	EF	68	14,919	NON
11/19/2015	NRU-23	OCO	TV	23	5,146	MAJ
11/19/2015	NRU-23	OSV	TV	2	518	MAJ
11/23/2015	NRU-23	USV	DU	1	216	NON
1/2/2015	NRU-25	UPC	EF	890	157,482	NON
2/19/2015	NRU-25	PMF	OE	60	15,505	NON
2/19/2015	NRU-25	PMF	OE	1,278	116,142	NON
2/21/2015	NRU-25	UPC	EF	19	8,144	NON
4/19/2015	NRU-25	UTC	EF	4	899	NON

5/2/2015	NRU-25	OTF	BA	4	448	NON
5/15/2015	NRU-25	OTF	BA	4	511	NON
7/23/2015	NRU-25	USV	EF	1	170	NON
7/24/2015	NRU-25	UPC	EF	19	6,560	NON
8/23/2015	NRU-25	UPC	EF	1	194	NON
8/23/2015	NRU-25	UPC	EF	80	21,782	NON
8/30/2015	NRU-25	OCO	TV	49	32,272	MAJ
12/15/2015	NRU-25	UTR	EF	20	3,777	NON
12/16/2015	NRU-25	USV	EF	1	52	NON
2/17/2015	NRU-26	OTF	BA	6	428	NON
4/22/2015	NRU-26	OTR	EF	8	3,019	NON
8/11/2015	NRU-26	OFU	BA	1	123	NON
4/24/2015	NRU-27	UPC	OD	22	7,781	NON
6/23/2015	NRU-27	UPT	EF	1	148	NON
6/30/2015	NRU-27	UTR	EF	51	21,538	NON
7/24/2015	NRU-27	UHH	DU	1	771	NON
7/27/2015	NRU-27	OTF	BA	34	3,274	NON
8/5/2015	NRU-27	UPC	EF	2	705	NON
8/6/2015	NRU-27	OTF	BA	11	879	NON
8/6/2015	NRU-27	OTF	BA	1	90	NON
8/10/2015	NRU-27	UTR	EF	3	1,189	NON
8/10/2015	NRU-27	UTR	EF	1	511	NON
8/30/2015	NRU-27	OCO	TV	0	575	MAJ
8/30/2015	NRU-27	OCO	TV	9	10,839	MAJ
8/30/2015	NRU-27	OCO	TV	22	34,677	MAJ
8/31/2015	NRU-27	OCO	TV	1	11	MAJ
9/1/2015	NRU-27	UPC	EF	255	61,119	MAJ
9/6/2015	NRU-27	UFJ	EF	16	3,446	NON
10/26/2015	NRU-27	UPC	EF	21	2,314	NON
11/24/2015	NRU-27	UPT	EF	22	5,084	MAJ
5/7/2015	OVE-12	USV	EF	1	163	NON
5/19/2015	OVE-12	OSV	EF	1	88	NON
1/3/2015	OVE-15	UTC	EF	2	276	NON
1/12/2015	OVE-15	OTF	EF	6	692	NON
4/23/2015	OVE-15	UPC	DU	7	1,292	NON
4/30/2015	OVE-15	UTC	UN	4	559	NON
5/8/2015	OVE-15	OTF	EF	3	379	NON
6/9/2015	OVE-15	UPC	EF	15	3,581	NON
7/4/2015	OVE-15	OTF	BA	7	531	NON
7/26/2015	OVE-15	OFU	BA	3	372	NON
7/26/2015	OVE-15	OFU	BA	3	409	NON
8/7/2015	OVE-15	OTR	BA	7	629	NON
8/7/2015	OVE-15	OTR	BA	4	726	NON
8/12/2015	OVE-15	OCO	TO	715	99,944	NON
8/29/2015	OVE-15	OCO	TV	659	184,476	MAJ
11/17/2015	OVE-15	OCO	TV	54	73,956	MAJ
11/19/2015	OVE-15	USV	EF	1	747	MAJ
2/1/2015	PHA-13	OFU	BA	77	3,584	NON
3/18/2015	PHA-13	USV	EF	1	190	NON
4/3/2015	PHA-13	OCO	TV	1	452	NON
5/1/2015	PHA-13	USV	DU	5	2,567	NON
5/2/2015	PHA-13	USV	DU	1	87	NON
5/23/2015	PHA-13	OTF	TV	144	17,868	NON

7/18/2015	PHA-13	USV	EF	1	417	NON
8/5/2015	PHA-13	UTC	BA	1	162	NON
8/15/2015	PHA-13	UPC	EF	38	8,078	NON
8/28/2015	PHA-13	OTF	EF	9	581	NON
8/29/2015	PHA-13	UTC	TV	6	8,224	MAJ
9/14/2015	PHA-13	OTF	BA	1	58	NON
9/15/2015	PHA-13	OTF	EF	2	130	NON
10/6/2015	PHA-13	OCN	EF	1	505	NON
10/16/2015	PHA-13	UPC	EF	8	3,849	NON
10/22/2015	PHA-13	OSV	OE	1	49	NON
10/30/2015	PHA-13	OSV	TV	1	217	NON
11/20/2015	PHA-13	OTF	BA	4	176	MAJ
12/8/2015	PHA-13	UTC	TV	98	7,265	NON
12/9/2015	PHA-13	OCO	TV	8	3,317	MAJ
12/9/2015	PHA-13	OTF	TV	7	4,761	MAJ
5/11/2015	PHA-15	OTF	BA	5	620	NON
10/31/2015	PHA-15	OSV	TV	2	313	WTH
12/9/2015	PHA-15	OCO	TV	96	30,723	MAJ
2/11/2015	PHA-16	OTF	BA	10	563	NON
3/30/2015	PHA-16	OCE	EF	1	66	NON
6/24/2015	PHA-16	OSV	AO	1	73	NON
6/24/2015	PHA-16	OSV	AO	5	754	NON
6/30/2015	PHA-16	OTR	BA	60	5,426	NON
7/22/2015	PHA-16	UOT	CP	113	6,230	NON
8/29/2015	PHA-16	OCO	TV	1,334	147,985	NON
8/29/2015	PHA-16	OCO	TV	35	55,406	MAJ
9/5/2015	PHA-16	UEL	EF	128	95,614	NON
9/18/2015	PHA-16	OTF	EF	12	1,110	NON
9/20/2015	PHA-16	OPO	AO	31	20,362	NON
10/30/2015	PHA-16	OFU	TV	57	6,547	NON
11/14/2015	PHA-16	OFC	OD	35	5,135	NON
3/14/2015	PHA-17	OCR	EF	34	1,269	NON
10/2/2015	PHA-17	OTF	BA	25	2,574	NON
10/18/2015	PHA-17	OTR	EF	4	796	NON
10/29/2015	PHA-17	OTF	BA	35	1,573	NON
10/29/2015	PHA-17	OTF	BA	3	179	NON
11/17/2015	PHA-17	OSV	TV	2	5,702	MAJ
12/8/2015	PHA-17	OCO	TV	155	15,584	NON
1/5/2015	ROS-17	USV	EF	1	85	NON
3/25/2015	ROS-17	UPC	OE	1,528	4,610	NON
5/20/2015	ROS-17	OTR	EF	5	2,570	NON
6/29/2015	ROS-17	UPT	EF	7	728	NON
11/18/2015	ROS-17	UTR	EF	8	9,150	MAJ
3/25/2015	SBE-22	OSV	AO	9	508	NON
7/18/2015	SBE-25	OTF	EF	5	834	NON
8/29/2015	SBE-25	OCO	TV	22	60,409	MAJ
8/29/2015	SBE-25	OCO	TV	16	46,456	MAJ
1/18/2015	SBE-26	OSV	TV	1	166	MAJ
3/14/2015	SBE-26	OTF	BA	25	3,378	NON
3/15/2015	SBE-26	OPO	TV	48	33,744	NON
4/26/2015	SBE-26	OTF	BA	1	148	NON
5/7/2015	SBE-26	UPC	DU	3	264	NON
5/13/2015	SBE-26	OTR	BA	7	1,238	NON

5/26/2015	SBE-26	UTC	BA	2	137	NON
6/5/2015	SBE-26	OFU	BA	5	511	NON
7/13/2015	SBE-26	OTF	BA	5	324	NON
7/13/2015	SBE-26	UTR	EF	10	2,777	NON
7/19/2015	SBE-26	UPC	EF	16	3,414	NON
7/19/2015	SBE-26	UPC	EF	97	21,313	NON
8/3/2015	SBE-26	UPC	EF	82	16,534	NON
8/3/2015	SBE-26	UPT	EF	21	8,812	NON
8/29/2015	SBE-26	OTF	TV	2	2,670	MAJ
8/30/2015	SBE-26	OTF	TV	2	1,516	MAJ
9/24/2015	SBE-26	OTF	BA	1	69	NON
9/24/2015	SBE-26	OCO	TV	87	11,037	NON
10/23/2015	SBE-26	UPC	EF	97	16,502	NON
11/17/2015	SBE-26	OCO	TV	70	138,094	MAJ
11/17/2015	SBE-26	OCO	TV	70	138,094	MAJ
12/10/2015	SBE-26	OSV	TV	2	2,019	MAJ
6/21/2015	SOM-13 ¹	OCO	TV	759	43,243	NON
7/3/2015	SOM-13	UPT	AO	8	4,187	NON
10/27/2015	SOM-13	USV	EF	1	274	NON
2/22/2015	SOM-15	USV	EF	1	216	NON
2/24/2015	SOM-15	UPC	EF	8	1,256	NON
5/2/2015	SOM-15	UTR	EF	7	3,220	NON
5/11/2015	SOM-15	USV	EF	1	147	NON
5/20/2015	SOM-15	UEL	EF	79	13,146	NON
6/13/2015	SOM-15	UPC	EF	79	15,076	NON
6/21/2015	SOM-15 ¹	OCO	TV	1,744	99,362	NON
7/10/2015	SOM-15	USV	EF	1	165	NON
9/6/2015	SOM-15	UFJ	EF	279	27,018	NON
9/13/2015	SOM-15	UTR	UN	5	2,201	NON
9/16/2015	SOM-15	UPC	EF	58	8,128	NON
9/17/2015	SOM-15	USV	DU	7	3,743	NON
12/16/2015	SOM-15	USV	EF	1	187	NON
1/6/2015	SOM-16	USV	EF	1	244	NON
5/9/2015	SOM-16	UTC	BA	3	240	NON
5/11/2015	SOM-16	USV	DU	1	195	NON
6/21/2015	SOM-16 ¹	OCO	TV	2,717	154,797	NON
7/9/2015	SOM-16	OTF	BA	14	1,519	NON
7/14/2015	SOM-16	OTF	BA	2	86	NON
7/14/2015	SOM-16	OTF	BA	8	384	NON
7/14/2015	SOM-16	OTF	BA	20	960	NON
7/19/2015	SOM-16	UPC	EF	95	14,225	NON
8/14/2015	SOM-16	UTR	EF	142	64,031	NON
8/23/2015	SOM-16	OTF	BA	1	70	NON
8/29/2015	SOM-16	OCO	TV	3,766	1,174,378	MAJ
8/29/2015	SOM-16	OAR	TV	22	34,091	MAJ
8/30/2015	SOM-16	OTF	TV	6	3,027	MAJ
9/9/2015	SOM-16	UPT	EF	1	340	NON
11/1/2015	SOM-16	OCO	TV	67	5,590	WTH
11/3/2015	SOM-16	OTF	EF	1	79	NON
11/17/2015	SOM-16	OCO	EF	1,440	480,600	MAJ
11/18/2015	SOM-16	OTF	EF	1	1,185	MAJ
12/6/2015	SOM-16	OPO	CP	50	2,270	NON
12/26/2015	SOM-16	USV	EF	1	199	NON

12/30/2015	SOM-16	UPT	EF	12	3,241	NON
12/31/2015	SOM-16	USV	EF	1	394	NON
1/20/2015	SOM-17	USV	EF	1	111	MAJ
1/31/2015	SOM-17	USV	EF	1	116	NON
3/23/2015	SOM-17	USV	EF	1	176	NON
4/5/2015	SOM-17	OTF	BA	9	769	NON
5/16/2015	SOM-17	USV	EF	5	3,067	NON
6/4/2015	SOM-17	OTF	BA	9	789	NON
6/21/2015	SOM-17 ¹	OCO	TV	1,790	101,983	NON
6/25/2015	SOM-17	OTF	BA	57	3,925	NON
7/2/2015	SOM-17	OTR	BA	125	7,594	NON
7/8/2015	SOM-17	USV	UN	8	3,621	NON
8/29/2015	SOM-17	OCO	TV	24	829	MAJ
9/6/2015	SOM-17	OCR	EF	3,048	252,115	NON
9/9/2015	SOM-17	OTR	EF	41	9,521	NON
10/29/2015	SOM-17	USC	EF	10	3,420	NON
11/12/2015	SOM-17	UPT	CP	37	31,006	NON
11/13/2015	SOM-17	OCO	TF	3,051	588,505	NON
11/14/2015	SOM-17	OTR	UN	4	1,326	NON
Totals				79,159	17,988,357	
Totals excluding substation & transmission outages				14,914	2,184,488	

1 Transmission line outage (tree caused) interrupted service to substation

2 Tree limb in substation took transformer bank out of service

2015 RELIABILITY REPORT CODES LEGEND

DISTRIBUTION SUBSTATION CODES	OUTAGE CAUSE CODES
ARD ARDMORE (REDMOND)	AO ACCIDENT OTHER, WITH FIRES
BTR BRIDLE TRAILS	BA BIRD OR ANIMAL
CEN CENTER	CE CUSTOMER EQUIPMENT
CLY CLYDE HILL	CP CAR POLE
COL COLLEGE	DU DIG UP UNDERGROUND
EGT EASTGATE	EF EQUIPMENT FAILURE
EVE EVERGREEN (REDMOND)	EO ELECTRICAL OVERLOAD
FAC FACTORIA	EQ EARTHQUAKE
GOO GOODES CORNER (ISSAQUAH)	FI FAULTY INSTALLATION
HAZ HAZELWOOD (NEWCASTLE)	LI LIGHTNING
HOU HOUGHTON (KIRKLAND)	OD OUTSIDE DISTURBANCE
KWH KENILWORTH (REDMOND)	OE OPERATING ERROR
LHL LAKE HILLS	PO PARTIAL OUTAGE
LOC LOCHLEVEN	TF TREE - OFF RIGHT OF WAY
MED MEDINA (MEDINA)	TO TREE - ON RIGHT OF WAY
MLK MIDLAKES	TV TREE - RIGHT OF WAY UNKNOWN
NOB NORTH BELLEVUE	UII USER - IMPROPER INSTALLATION
NRU NORTHRUP	UN UNKNOWN CAUSE
OVE OVERLAKE (MEDINA)	VA VANDALISM
PHA PHANTOM LAKE	
ROS ROSE HILL (REDMOND)	STORM CODES
SBE SOUTH BELLEVUE	MAJ MAJOR STORM
SOM SOMERSET	NON NON-STORM
	OTH OTHER
	WTH WEATHER - CUSTOMER COUNT BELOW 5%

EQUIPMENT CODES	
ACE ALL CUSTOMER EQUIPMENT	OTR OVERHEAD TRANSFORMER
ARR SURGE ARRESTER	OTS OVERHEAD TRAFFIC CONTROL SIGNAL
CC CAPACITOR CAN	OUP OVERHEAD TO UNDERGROUND
CDH CONDUCTOR DOWN & HOT	OUS HOT OUS OVERHEAD TO
CFD CAPACITOR BANK FUSED DISCONNECT	PED DISCONNECT PEDESTAL
CHG CHARGER	PFT PADMOUNT FAST TRANSFORMER (EDUT130)
CON CONNECTIONS	PMF PADMOUNT SWITCH FUSE
CTX TRANSFORMER INSTRUMENT (CURRENT)	PMJ PADMOUNT J-BOX
DNO DID NOT OPERATE	PMP PADMOUNT METER POINT (EDUM100)
ELT ELBOW - TRANSFORMER	PST PADMOUNT STEP TRANSFORMER (EDUT120)
ERC RECLOSER CONTROLLER	PTF PADMOUNT TRANSFORMER FUSE
FCC FUSE - CAPACITOR CAN	PTX PADMOUNT TRANSFORMER INSTRUMENT
FHV FUSE - HIGH VOLTAGE (POWER)	RLE RELAY - ELECTROMECHANICAL
FLV FUSE - LOW VOLTAGE (CONTROL)	RLM RELAY - MICROPROCESSOR
GAR GUY ANCHOR ROD	RLS RELAY - SOLID STATE
GCB GAS CIRCUIT BREAKER (POWER)	SCS CIRCUIT SWITCHER
INS INSULATOR	SPT STATION POWER TRANSFORMER
LTC LOAD TAP CHANGER	SRG STATION REGULATOR
MAN MANUAL OPERATION	SWC SWITCH - CAPACITOR BANK
MOT MOTOR OPERATOR	SWD SWITCH - DISTRIBUTION DISCONNECT
MTR METER	SWT SWITCH - TRANSMISSION
OAL OVERHEAD AREA LIGHT	TER TERMINATION (POWER CABLE)
OAN OVERHEAD ANCHOR	UCU UNDERGROUND COMMUNICATION CABLE
OAR OVERHEAD ARRESTER	UDC UNDERGROUND DUST CAP
OAT OVERHEAD AUTO TRANSFORMER (EDOT110)	UEL UNDERGROUND ELBOW
OCA OVERHEAD CAPACITOR (EDOC100)	UFE UNDERGROUND FUSED ELBOW
OCB CIRCUIT BREAKER (POWER) - OIL	UFI UNDERGROUND FAULT INDICATOR
OCE CUSTOMER EQUIPMENT	UFJ UNDERGROUND J-BOX
OCN OVERHEAD SECONDARY CONNECTOR	UFO UNDERGROUND FIBER OPTICS
OCO OVERHEAD CONDUCTOR	UFS UNDERGROUND FIRE SIGNAL
OCR OVERHEAD CROSSARM	UGF UNDERGROUND SUBMERSIBLE FUSE
OFC OVERHEAD CUT-OUT	UGV UNDERGROUND VAULT
OFI OVERHEAD FAULT INDICATOR	UHH UNDERGROUND HANDHOLE - SECONDARY
OFL OVERHEAD FLOOD LIGHT	UHM UNDERGROUND HAMMERHEADS
OFS OVERHEAD FIRE SIGNAL	UIC UNDERGROUND INDOOR STRESS CONE
OFU OVERHEAD LINE FUSE / FUSE LINK	UJU UNDERGROUND PRIMARY JUMPER
OGD OVERHEAD DOWN GUY	UMP UNDERGROUND SUBMERSIBLE METER POINT
OGS OVERHEAD SPAN GUY	UNK UNDERGROUND UNKNOWN
OHR OVERHEAD RECLOSER (EDOR100)	UOT UNDERGROUND OUTDOOR TERMINATION
OHS OVERHEAD SECTIONALIZER (EDOX100)	UPC UNDERGROUND PRIMARY CABLE
OIN OVERHEAD INSULATOR	UPH UNDERGROUND PADMOUNT PHASE SHIFTER
OJU OVERHEAD JUMPER WIRE	UPS UNDERGROUND PADMOUNT SWITCH (EDUS100)
OMP OVERHEAD METER POINT (EDOM100)	UPT UNDERGROUND PADMOUNT TRANSFORMER
ONI OVERHEAD NEUTRAL ISOLATOR	USC UNDERGROUND SECONDARY CABLE
OPB OVERHEAD POLE BRACE (EDOP110)	USE UNDERGROUND SECONDARY CONNECT
OPI OVERHEAD INSULATOR PIN	USP UNDERGROUND PRIMARY SPLICE
OPO OVERHEAD POLE (EDOP100)	USS UNDERGROUND SCHOOL SIGNAL
OPS OVERHEAD POLE STUB (EDOP120)	USV UNDERGROUND SERVICE
ORE OVERHEAD REGULATOR (EDOG100)	UTC UNDERGROUND TERMINAL FUSE
OSL OVERHEAD STREET LIGHT (EDOL100)	UTF UNDERGROUND SUBMERSIBLE TRA
OSP OVERHEAD SPLICE PRIMARY	UTR UNDERGROUND SUBMERSIBLE TRANSFORMER
OSS OVERHEAD SCHOOL SIGNAL	UTS UNDERGROUND TRAFFIC CONTROL SIGNAL
OST OVERHEAD STEP TRANSFORMER (EDOT110)	UUS UNDERGROUND SUBMERSIBLE
OSV OVERHEAD SERVICE	VCB VACUUM CIRCUIT BREAKER (POWER)
OSW OVERHEAD SWITCH (EDOS100)	XFR TRANSFORMER - UNKNOWN TYPE
OTF OVERHEAD TRANSFORMER FUSE	XRT NEUTRAL REACTOR
OTH OVERHEAD OTHER	XSS TRANSFORMER - STATION SERVICE