

Total Airline Operations and Exceedances During Late Night Hours

PAX = passenger airline

CRG = cargo airline

Airline Code	Airline Name	Type*	Total Operations	Total Number of Exceedances	Percent of Operations
AAL	American Airlines	PAX	310	5	2%
AAR	Asiana Cargo	CRG	12	9	75%
ABX	ABX Air	CRG	13	0	0
ACA	Air Canada	PAX	13	0	0
AMX	Aeromexico	PAX	1	0	0
ASA	Alaska Airlines	PAX	976	2	Less than 1%
ATN	Air Transport International	CRG	294	7	2%
CAL	China Airlines Cargo	CRG	35	31	89%
CAO	Air China Cargo	CRG	4	4	100%
CKK	China Cargo Airlines	CRG	3	0	0%
CKS	Kalitta Air	CRG	5	3	60%
CLX	Cargolux	CRG	20	14	70%
CPA	Cathay Pacific	PAX	88	0	0
CPZ	Compass Airlines	PAX	39	0	0
CXA	Xiamen Airlines	PAX	1	0	0
DAL	Delta Airlines	PAX	554	0	0
EVA	EVA Air	PAX	120	85	71%
FDX	FedEx Express	CRG	85	57	67%
FFT	Frontier Airlines	PAX	86	0	0
GTI	Atlas Air	CRG	5	4	80%
HAL	Hawaiian Airlines	PAX	10	0	0
JBU	JetBlue	PAX	137	0	0
KAL	Korean Air Cargo	CRG	30	12	40%
NKS	Spirit Airlines	PAX	253	0	0
OAE	Omni Air International	PAX	10	0	0
QXE	Horizon Airlines	PAX	69	0	0
SCX	Sun Country Airlines	PAX	73	0	0
SKW	SkyWest Airlines	PAX	3	0	0
SWA	Southwest Airlines	PAX	195	0	0
UAL	United Airlines	PAX	416	0	0
	Corporate / General Aviation		6	0	0
VDA	Volga-Dnepr Airlines	CRG	3	3	100%
WGN	Western Global Airlines	CRG	5	3	60%
Totals			3874	239	6%

Airlines With No Operations During Late Night Hours:

British Airways, Lufthansa, Virgin Atlantic, Hainan Airlines, Japan Airlines, All Nippon Airlines, Emirates Airlines, Volaris, Jazz Aviation, Iceland Air, Air France, Aer Lingus, Condor, Norwegian Airlines, Singapore Airlines

Aircraft Departures Exceeding 91 dB SEL at Noise Monitor 12

Noise Monitor	Date/Time	Airline	Flight Number	Aircraft Type	SEL Noise Level
SEA12	07/01/2019 02:07	EVA Air	EVA025	B77W	91.97
SEA12	07/01/2019 02:17	Air China Cargo	CAO1010	B77L	91.282
SEA12	07/13/2019 02:04	China Airlines Cargo	CAL5261	B744	97.984
SEA12	07/13/2019 02:19	EVA Air	EVA025	B77W	91.685
SEA12	07/14/2019 00:19	American Airlines	AAL1954	A321	91.402
SEA12	07/14/2019 01:41	Cargolux	CLX38F	B744	96.615
SEA12	07/14/2019 02:21	EVA Air	EVA025	B77W	92.336
SEA12	07/15/2019 01:57	Air China Cargo	CAO1010	B77L	91.468
SEA12	07/15/2019 02:20	EVA Air	EVA025	B77W	91.286
SEA12	07/15/2019 02:38	China Airlines Cargo	CAL5239	B744	93.451
SEA12	07/15/2019 03:46	Korean Air Cargo	KAL256	B748	94.361
SEA12	07/19/2019 02:21	EVA Air	EVA025	B77W	92.653
SEA12	07/20/2019 02:37	China Airlines Cargo	CAL5261	B744	98.705
SEA12	07/22/2019 01:47	Air China Cargo	CAO1010	B77L	92.81
SEA12	07/25/2019 01:06	Cargolux	CLX38B	B748	94.499
SEA12	07/25/2019 04:26	Asiana Cargo	AAR2819	B744	96.925
SEA12	07/28/2019 01:01	Cargolux	CLX38F	B748	93.528
SEA12	07/28/2019 02:20	EVA Air	EVA025	B77W	91.591
SEA12	07/29/2019 02:18	EVA Air	EVA025	B77W	91.078
SEA12	08/01/2019 02:06	EVA Air	EVA003	B77W	92.437
SEA12	08/03/2019 02:05	EVA Air	EVA003	B77W	91.23
SEA12	08/03/2019 02:28	EVA Air	EVA025	B77W	91.267
SEA12	08/03/2019 03:07	China Airlines Cargo	CAL5261	B744	98.07
SEA12	08/04/2019 02:02	Cargolux	CLX38F	B748	92.242
SEA12	08/05/2019 02:26	EVA Air	EVA025	B77W	91.434
SEA12	08/06/2019 02:01	China Airlines Cargo	CAL5261	B744	99.087
SEA12	08/06/2019 02:40	EVA Air	EVA025	B77W	93.028
SEA12	08/10/2019 01:14	Atlas Air	GTI2418	B744	99.53
SEA12	08/10/2019 02:19	EVA Air	EVA003	B77W	94.232
SEA12	08/10/2019 02:49	EVA Air	EVA025	B77W	92.253
SEA12	08/11/2019 02:23	EVA Air	EVA025	B77W	91.11
SEA12	08/15/2019 02:29	EVA Air	EVA025	B77W	91.202
SEA12	08/19/2019 02:07	EVA Air	EVA003	B77W	93.086
SEA12	08/22/2019 01:20	Cargolux	CLX38B	B748	91.31
SEA12	08/24/2019 01:58	EVA Air	EVA003	B77W	94.159
SEA12	08/24/2019 02:15	EVA Air	EVA025	B77W	93.642
SEA12	08/24/2019 02:22	China Airlines Cargo	CAL5261	B744	98.993

SEA12	08/25/2019 01:30	Cargolux	CLX38F	B748	91.946
SEA12	08/25/2019 02:18	EVA Air	EVA025	B77W	92.531
SEA12	08/26/2019 02:01	EVA Air	EVA003	B77W	91.373
SEA12	08/27/2019 02:54	China Airlines Cargo	CAL5261	B744	93.19
SEA12	08/29/2019 00:25	Cargolux	CLX38B	B748	93.807
SEA12	08/29/2019 01:51	EVA Air	EVA003	B77W	92.025
SEA12	08/29/2019 02:25	EVA Air	EVA025	B77W	91.537
SEA12	09/03/2019 01:34	EVA Air	EVA025	B77W	92.236
SEA12	09/03/2019 03:00	China Airlines Cargo	CAL5261	B744	96.04
SEA12	09/06/2019 01:41	EVA Air	EVA025	B77W	92.988
SEA12	09/19/2019 01:10	EVA Air	EVA003	B77W	91.124
SEA12	09/19/2019 02:12	EVA Air	EVA025	B77W	91.96
SEA12	09/20/2019 01:50	EVA Air	EVA025	B77W	91.158
SEA12	09/25/2019 01:48	EVA Air	EVA025	B77W	91.946
SEA12	09/27/2019 01:44	EVA Air	EVA025	B77W	92.095

Aircraft Departures Exceeding 91 dB SEL at Noise Monitor 19

Noise Monitor	Date/Time	Airline	Flight Number	Aircraft Type	SEL Noise Level
SEA19	07/02/2019 00:21	American Airlines	AAL1954	A321	91.126
SEA19	07/02/2019 02:23	EVA Air	EVA025	B77W	91.357
SEA19	07/02/2019 02:44	China Airlines Cargo	CAL5261	B744	99.059
SEA19	07/03/2019 02:21	EVA Air	EVA025	B77W	91.841
SEA19	07/04/2019 02:38	EVA Air	EVA025	B77W	94.441
SEA19	07/05/2019 02:29	EVA Air	EVA025	B77W	91.97
SEA19	07/06/2019 02:37	EVA Air	EVA025	B77W	92.218
SEA19	07/06/2019 02:56	China Airlines Cargo	CAL5261	B744	97.213
SEA19	07/07/2019 02:26	EVA Air	EVA025	B77W	92.229
SEA19	07/07/2019 03:48	Kalitta Air	CKS926	B744	94.562
SEA19	07/08/2019 01:28	Air China Cargo	CAO1010	B77L	91.702
SEA19	07/08/2019 02:42	EVA Air	EVA025	B77W	92.788
SEA19	07/08/2019 04:46	Asiana Cargo	AAR2819	B744	98.007
SEA19	07/09/2019 02:27	EVA Air	EVA025	B77W	92.072
SEA19	07/09/2019 03:19	China Airlines Cargo	CAL5261	B744	98.48
SEA19	07/10/2019 02:18	EVA Air	EVA025	B77W	92.258
SEA19	07/11/2019 02:49	EVA Air	EVA025	B77W	92.193
SEA19	07/12/2019 00:21	American Airlines	AAL1954	A321	91.152
SEA19	07/12/2019 00:34	China Airlines Cargo	CAL5391	B744	94.653
SEA19	07/12/2019 02:22	EVA Air	EVA025	B77W	93.135
SEA19	07/16/2019 02:33	EVA Air	EVA025	B77W	92.319
SEA19	07/16/2019 03:53	China Airlines Cargo	CAL5261	B744	98.734

SEA19	07/17/2019 02:25	EVA Air	EVA025	B77W	92.592
SEA19	07/18/2019 02:21	EVA Air	EVA025	B77W	91.881
SEA19	07/22/2019 04:39	Asiana Cargo	AAR2819	B744	95.716
SEA19	07/23/2019 02:24	EVA Air	EVA025	B77W	93.666
SEA19	07/23/2019 02:46	China Airlines Cargo	CAL5261	B744	99.406
SEA19	07/24/2019 02:22	EVA Air	EVA025	B77W	92.242
SEA19	07/27/2019 02:13	China Airlines Cargo	CAL5261	B744	98.472
SEA19	07/27/2019 02:27	EVA Air	EVA025	B77W	91.112
SEA19	07/29/2019 04:36	Asiana Cargo	AAR2819	B744	95.342
SEA19	07/29/2019 04:58	China Airlines Cargo	CAL5285	B744	99.039
SEA19	07/30/2019 02:01	China Airlines Cargo	CAL5261	B744	98.388
SEA19	07/30/2019 02:18	EVA Air	EVA025	B77W	92.067
SEA19	07/31/2019 02:20	EVA Air	EVA025	B77W	92.808
SEA19	08/01/2019 00:40	Volga-Dnepr Airlines	VDA2141	A124	101.619
SEA19	08/01/2019 03:17	EVA Air	EVA025	B77W	91.865
SEA19	08/02/2019 00:10	China Airlines Cargo	CAL5391	B744	92.479
SEA19	08/02/2019 02:23	EVA Air	EVA025	B77W	91.175
SEA19	08/05/2019 04:40	Atlas Air	GTI2578	B744	98.875
SEA19	08/07/2019 02:26	EVA Air	EVA025	B77W	92.855
SEA19	08/09/2019 02:42	EVA Air	EVA025	B77W	92.297
SEA19	08/12/2019 02:25	EVA Air	EVA025	B77W	91.166
SEA19	08/16/2019 02:18	EVA Air	EVA025	B77W	91.764
SEA19	08/17/2019 02:03	China Airlines Cargo	CAL5261	B744	98.184
SEA19	08/17/2019 02:05	EVA Air	EVA003	B77W	93.036
SEA19	08/17/2019 02:31	EVA Air	EVA025	B77W	92.462
SEA19	08/18/2019 01:55	Cargolux	CLX38F	B748	94.842
SEA19	08/18/2019 02:22	EVA Air	EVA025	B77W	92.727

SEA19	08/19/2019 02:21	EVA Air	EVA025	B77W	92.628
SEA19	08/20/2019 01:49	China Airlines Cargo	CAL5261	B744	95.81
SEA19	08/20/2019 02:24	EVA Air	EVA025	B77W	92.51
SEA19	08/23/2019 02:22	EVA Air	EVA025	B77W	92.257
SEA19	08/26/2019 02:25	EVA Air	EVA025	B77W	92.487
SEA19	08/30/2019 02:09	EVA Air	EVA025	B77W	92.334
SEA19	08/31/2019 00:20	American Airlines	AAL1954	A321	91.916
SEA19	08/31/2019 02:01	EVA Air	EVA003	B77W	92.957
SEA19	08/31/2019 02:28	EVA Air	EVA025	B77W	92.262
SEA19	08/31/2019 02:56	China Airlines Cargo	CAL5261	B744	98.388
SEA19	09/01/2019 02:21	EVA Air	EVA025	B77W	92.683
SEA19	09/02/2019 02:12	EVA Air	EVA025	B77W	92.53
SEA19	09/02/2019 04:33	EVA Air	EVA003	B77W	92.587
SEA19	09/04/2019 01:38	EVA Air	EVA025	B77W	91.786
SEA19	09/07/2019 01:06	EVA Air	EVA003	B77W	91.747
SEA19	09/07/2019 02:04	China Airlines Cargo	CAL5261	B744	97.884
SEA19	09/09/2019 01:42	EVA Air	EVA003	B77W	92.266
SEA19	09/09/2019 02:00	EVA Air	EVA025	B77W	91.839
SEA19	09/09/2019 04:42	Korean Air Cargo	KAL210	B748	94.886
SEA19	09/10/2019 01:52	EVA Air	EVA025	B77W	91.132
SEA19	09/11/2019 01:48	EVA Air	EVA025	B77W	92.448
SEA19	09/11/2019 02:38	China Airlines Cargo	CAL5235	B744	95.794
SEA19	09/11/2019 03:48	Korean Air Cargo	KAL210	B748	93.169
SEA19	09/12/2019 04:27	Cargolux	CLX38B	B748	94.656
SEA19	09/13/2019 01:44	EVA Air	EVA025	B77W	91.102
SEA19	09/14/2019 01:44	EVA Air	EVA025	B77W	92.022
SEA19	09/14/2019 02:20	China Airlines Cargo	CAL5261	B744	96.903
SEA19	09/15/2019 01:45	EVA Air	EVA025	B77W	91.353
SEA19	09/15/2019 01:52	Cargolux	CLX38F	B748	92.015
SEA19	09/16/2019 01:39	EVA Air	EVA003	B77W	92.139
SEA19	09/16/2019 01:48	EVA Air	EVA025	B77W	92.057
SEA19	09/17/2019 02:05	China Airlines Cargo	CAL5261	B744	95.142
SEA19	09/18/2019 01:49	EVA Air	EVA025	B77W	91.424
SEA19	09/21/2019 01:14	Kalitta Air	CKS9514	B744	91.773
SEA19	09/21/2019 01:24	EVA Air	EVA003	B77W	92.449
SEA19	09/21/2019 01:40	EVA Air	EVA025	B77W	91.187
SEA19	09/21/2019 02:01	China Airlines Cargo	CAL5261	B744	98.093
SEA19	09/22/2019 02:02	EVA Air	EVA025	B77W	91.378
SEA19	09/28/2019 01:15	EVA Air	EVA003	B77W	93.218
SEA19	09/28/2019 01:41	China Airlines Cargo	CAL5261	B744	99.053
SEA19	09/28/2019 01:50	EVA Air	EVA025	B77W	92.011
SEA19	09/29/2019 01:41	Cargolux	CLX38F	B748	92.855

Aircraft Arrivals Exceeding 88 dB SEL at Noise Monitor 12

Noise Monitor	Date/Time	Airline	Flight Number	Aircraft Type	SEL Noise Level
SEA12	07/02/2019 00:25	Air Transport Intl	ATN3774	B762	88.28
SEA12	07/02/2019 04:15	FedEx	FDX1885	DC10	89.682
SEA12	07/02/2019 04:58	FedEx	FDX1717	DC10	88.971
SEA12	07/03/2019 04:23	FedEx	FDX1885	MD11	90.087
SEA12	07/05/2019 04:11	FedEx	FDX1885	DC10	88.071
SEA12	07/08/2019 02:26	Asiana Cargo	AAR2829	B744	91.19
SEA12	07/09/2019 04:54	FedEx	FDX1717	DC10	88.758
SEA12	07/10/2019 04:11	FedEx	FDX1885	MD11	90.175
SEA12	07/10/2019 04:29	Western Global Airlines	UNKNOWN	B744	88.617
SEA12	07/16/2019 03:16	Korean Air Cargo	KAL210	B748	89.578
SEA12	07/17/2019 03:18	Air Transport Intl	ATN3203	B763	88.001
SEA12	07/17/2019 04:04	FedEx	FDX1885	MD11	90.996
SEA12	07/17/2019 04:54	Western Global Airlines	UNKNOWN	B744	89.908
SEA12	07/23/2019 04:30	FedEx	FDX37	MD11	88.474
SEA12	07/24/2019 04:24	FedEx	FDX1885	MD11	88.785
SEA12	07/24/2019 04:39	Western Global Airlines	UNKNOWN	B744	88.656
SEA12	07/27/2019 03:38	FedEx	FDX1885	MD11	88.434
SEA12	07/31/2019 00:07	Volga-Dnepr Airlines	VDA2192	A124	91.111
SEA12	08/01/2019 03:44	Korean Air Cargo	KAL210	B748	88.608
SEA12	08/01/2019 03:53	FedEx	FDX1885	MD11	88.768
SEA12	08/17/2019 03:01	Air Transport Intl	ATN3203	B763	88.908
SEA12	08/18/2019 04:12	FedEx	FDX710	MD11	88.331
SEA12	08/20/2019 04:58	FedEx	FDX1717	DC10	89.314
SEA12	08/21/2019 04:15	FedEx	FDX1885	MD11	88.362
SEA12	08/22/2019 04:21	FedEx	FDX1885	MD11	88.664
SEA12	08/31/2019 04:07	FedEx	FDX1885	MD11	88.615
SEA12	09/04/2019 03:41	FedEx	FDX1885	MD11	88.676
SEA12	09/08/2019 04:21	FedEx	FDX710	MD11	91.29
SEA12	09/09/2019 02:33	Korean Air Cargo	KAL209	B748	89.407
SEA12	09/10/2019 04:20	FedEx	FDX1885	MD11	88.379
SEA12	09/11/2019 04:14	FedEx	FDX1885	MD11	88.219
SEA12	09/12/2019 02:06	Cargolux	CLX38B	B748	88.523
SEA12	09/12/2019 03:50	FedEx	FDX1885	MD11	89.239
SEA12	09/13/2019 04:21	FedEx	FDX1885	MD11	89.498
SEA12	09/13/2019 04:58	FedEx	FDX1717	MD11	89.874
SEA12	09/15/2019 02:48	Air Transport Intl	ATN3203	B763	90.084
SEA12	09/15/2019 03:39	FedEx	FDX710	MD11	91.948
SEA12	09/17/2019 04:08	FedEx	FDX1885	MD11	90.086
SEA12	09/17/2019 04:13	Korean Air Cargo	KAL233	B748	89.356
SEA12	09/17/2019 04:54	FedEx	FDX1717	DC10	89.845
SEA12	09/19/2019 04:04	FedEx	FDX1885	MD11	88.144

Noise Monitor	Date/Time	Airline	Flight Number	Aircraft Type	SEL Noise Level
SEA12	09/20/2019 04:04	FedEx	FDX1885	MD11	88.237
SEA12	09/21/2019 04:23	FedEx	FDX1885	MD11	88.315
SEA12	09/22/2019 03:30	FedEx	FDX710	MD11	89.476
SEA12	09/22/2019 03:47	Cargolux	CLX38F	B748	89.544
SEA12	09/24/2019 04:20	FedEx	FDX1885	MD11	90.892
SEA12	09/26/2019 01:52	Alaska Airlines	ASA106	B739	89.328
SEA12	09/26/2019 03:06	Air Transport Intl	ATN3203	B763	89.467
SEA12	09/26/2019 04:17	FedEx	FDX1885	MD11	90.921
SEA12	09/27/2019 04:16	FedEx	FDX1885	MD11	89.475
SEA12	09/28/2019 04:23	FedEx	FDX1885	MD11	88.106
SEA12	09/29/2019 04:43	FedEx	FDX710	MD11	88.116

Aircraft Arrivals Exceeding 82 dB SEL at Noise Monitor 13

Noise Monitor	Date/Time	Airline	Flight Number	Aircraft Type	SEL Noise Level
SEA13	07/02/2019 00:12	American Airlines	AAL2781	A321	92.004
SEA13	07/24/2019 00:24	Air Transport Intl	ATN3774	B762	82.179

Aircraft Arrivals Exceeding 89 dB SEL at Noise Monitor 18

- No Exceedances in Q3 -

Aircraft Arrivals Exceeding 88 dB SEL at Noise Monitor 19

Noise Monitor	Date/Time	Airline	Flight Number	Aircraft Type	SEL Noise Level
SEA19	07/01/2019 01:03	China Airlines Cargo	CAL5235	B744	88.047
SEA19	07/01/2019 02:27	Asiana Cargo	AAR2829	B744	89.22
SEA19	07/06/2019 03:34	FedEx	FDX1885	MD11	90.189
SEA19	07/09/2019 04:05	FedEx	FDX1885	MD11	89.166
SEA19	07/13/2019 03:32	FedEx	FDX1885	MD11	88.685
SEA19	07/15/2019 00:49	Korean Air Cargo	KAL255	B748	88.687
SEA19	07/15/2019 02:06	Asiana Cargo	AAR2829	B744	90.327
SEA19	07/15/2019 04:31	Korean Air Cargo	KAL210	B744	90.872
SEA19	07/16/2019 03:48	FedEx	FDX1885	MD11	88.551
SEA19	07/18/2019 03:55	FedEx	FDX1885	MD11	88.469
SEA19	07/20/2019 03:46	FedEx	FDX1885	MD11	89.588
SEA19	07/20/2019 04:13	Korean Air Cargo	KAL233	B748	88.966
SEA19	07/20/2019 04:51	FedEx	FDX1423	MD11	89.76
SEA19	07/22/2019 02:02	Asiana Cargo	AAR2829	B744	92.254
SEA19	07/22/2019 02:17	China Airlines Cargo	CAL5281	B744	90.784

Noise Monitor	Date/Time	Airline	Flight Number	Aircraft Type	SEL Noise Level
SEA19	07/23/2019 04:02	FedEx	FDX1885	MD11	88.81
SEA19	07/25/2019 03:47	Korean Air Cargo	KAL210	B748	89.265
SEA19	07/25/2019 04:26	FedEx	FDX1885	MD11	89.367
SEA19	07/26/2019 00:13	Air Transport Intl	ATN3774	B763	88.12
SEA19	07/26/2019 03:52	FedEx	FDX1885	MD11	89.357
SEA19	07/29/2019 01:38	China Airlines Cargo	CAL5285	B744	91.124
SEA19	07/29/2019 02:30	Asiana Cargo	AAR2829	B744	89.132
SEA19	08/03/2019 04:12	Korean Air Cargo	KAL233	B748	88.196
SEA19	08/04/2019 02:16	Kalitta Air	CKS514	B744	88.878
SEA19	08/04/2019 04:03	FedEx	FDX710	MD11	89.802
SEA19	08/05/2019 01:29	Atlas Air	GTI2468	B744	88.328
SEA19	08/05/2019 02:06	Atlas Air	GTI2588	B744	88.917
SEA19	08/05/2019 02:57	China Airlines Cargo	CAL5285	B744	89.958
SEA19	08/11/2019 03:42	FedEx	FDX710	MD11	89.222
SEA19	08/13/2019 04:19	FedEx	FDX1885	MD11	88.955
SEA19	08/14/2019 03:49	FedEx	FDX1885	MD11	88.039
SEA19	08/15/2019 04:14	FedEx	FDX1885	MD11	88.645
SEA19	08/15/2019 04:45	Alaska Airlines	ASA108	B739	88.546
SEA19	08/24/2019 03:59	FedEx	FDX1885	MD11	88.91
SEA19	08/25/2019 03:47	FedEx	FDX710	MD11	88.859
SEA19	08/27/2019 00:41	Volga-Dnepr Airlines	VDA2286	A124	95.601
SEA19	08/27/2019 03:57	FedEx	FDX1885	MD11	90.642
SEA19	08/28/2019 04:01	FedEx	FDX1885	MD11	90.199
SEA19	09/03/2019 02:51	Cargolux	CLX46U	B744	92.404
SEA19	09/05/2019 03:57	FedEx	FDX1885	MD11	88.707
SEA19	09/05/2019 04:55	FedEx	FDX1423	MD11	88.212
SEA19	09/25/2019 03:58	FedEx	FDX1885	MD11	90.416