

OCTOBER 2019 UPDATE

All Things Aviation



Introduction of Newer Aircraft

As was discussed at the September 23 Aviation Committee meeting, on October 1, Delta Air Lines began flying the fuel-efficient, quieter Airbus A220-100 aircraft on its five daily nonstops between John Wayne Airport (JWA) and Salt Lake City¹. In addition to improved fuel efficiency, the A220-100 has a higher climb rate and a quieter engine than the B717-200 aircraft it replaces. During its first flights at JWA, the Delta Air Lines A220-100 measured +5.0 to +8.0 dB lower than acceptable noise limits at some JWA noise monitoring stations. The regional jet is configured for 109 seats.

The following page includes a comparison of the A220 and other aircraft operating at JWA. One of the stark contrasts is the comparison to the MD80, which no longer operates at the airport, but at one time was considered a “quiet aircraft” and was significant in establishing the Class A noise limits for departures. The figures for the MD80 were taken from a 2008 quarterly noise report. Data for the other types of aircraft listed were taken from more recent noise readings and provides a first-hand look at technological changes that have evolved over the years.² The table on the following page compares the different aircraft and the noise each registered at the noise monitors against the Class A and E noise monitor limits.

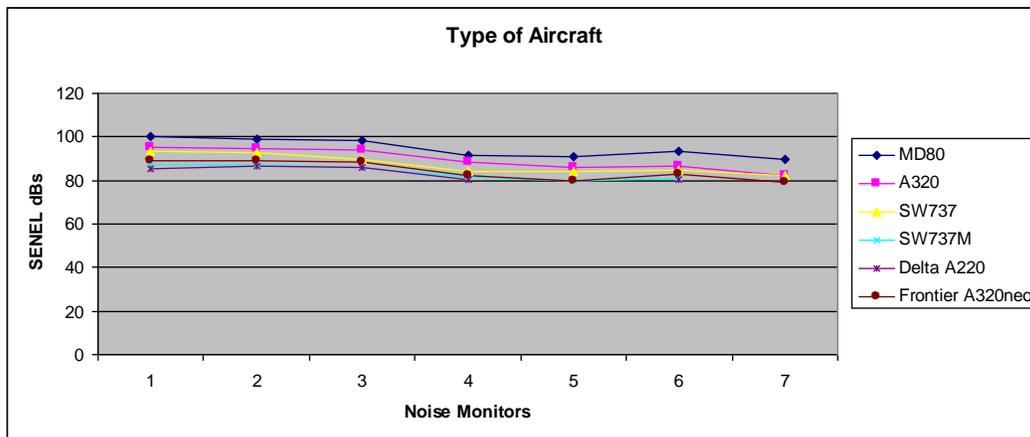
¹ For those wishing to monitor the flights, the current schedule is: 7:10 AM; 10:20 AM; 1:10 PM; 4:50 PM and 6:45 PM.

² Data for all but the A220 were taken from quarterly noise reports. Data for the A220 was taken from the data of the qualification of the A220 at the airport and just one of the flights was used for comparison.

Table of Aircraft and Noise Readings (in dBs)

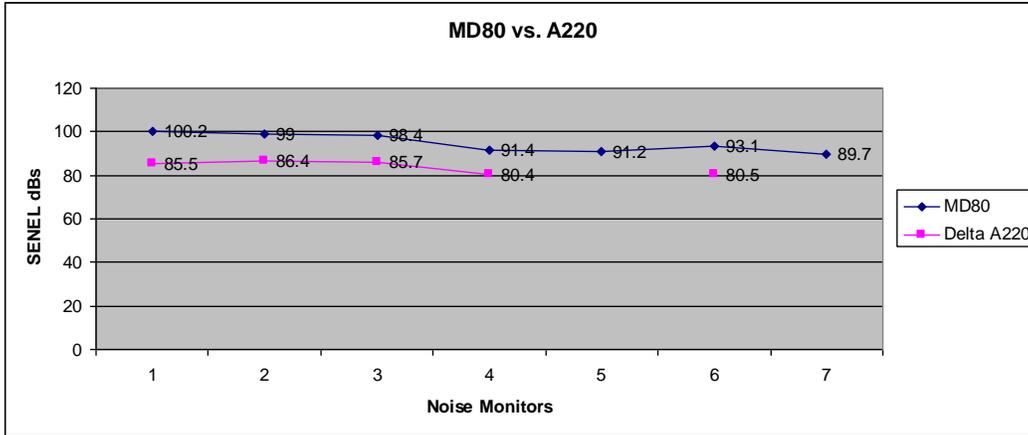
Noise Monitor	Class A	Class E	MD80	A320	SW737	SW737M	Delta A220	Frontier A320neo
NMS1	102.5	94.1	100.2	95.5	93.5	87.2	85.5	89.2
NMS2	101.8	93.5	99	94.8	92.8	87.2	86.4	89.1
NMS3	101.1	90.3	98.4	93.8	89.9	85.8	85.7	88.4
NMS4	94.8	86.6	91.4	88.2	84.1	81.5	80.4	82.2
NMS5	95.3	87.2	91.2	85.8	84.1	80	DR	79.9
NMS6	96.8	87.2	93.1	86.3	84.5	81.1	80.5	83
NMS7	93.7	86.6	89.7	82.5	82	DR	DR	79.1

The following is a chart of the noise performance of the different aircraft at the noise monitors:

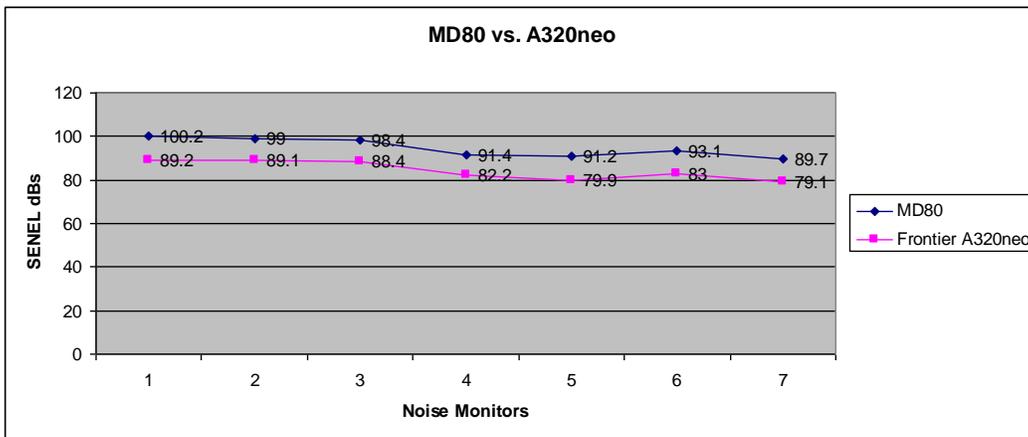


The chart on the following page is a comparison of the old MD80 and the new A220. Just one A220 flight was chosen for comparison. The one flight did not register a noise reading at NMS 5 or 7 and averaged approximately 12.5+ dBs less than the MD80 at the remaining five departure noise monitors.³

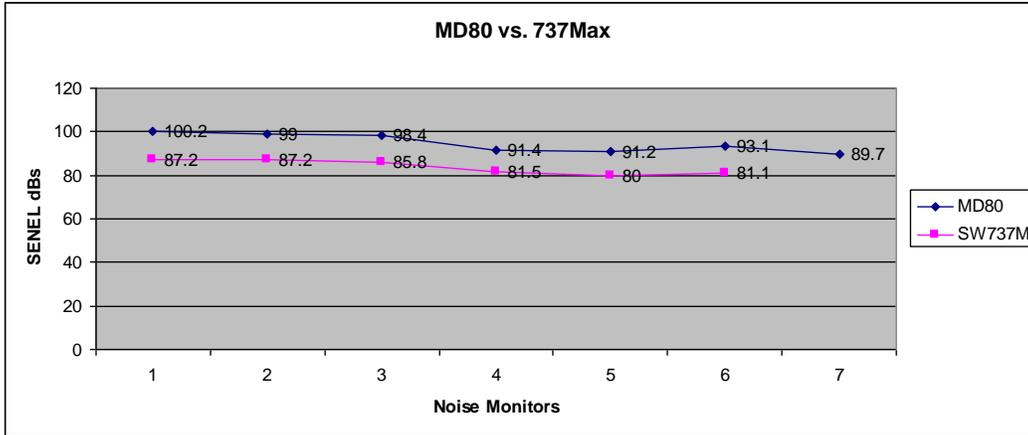
³ It should be noted that a change of 3dBs is barely perceptible whereas to make something seem about half as noisy requires a reduction of about 10 dB.



The chart below shows the difference between the A320Neo, currently operated by Frontier Airlines, and the MD80. The Neo has shown marked improvement over the older technology. The average difference in dBs is approximately 10 dBs. The Neo operates currently as a Class A Carrier.



The chart on the following page compares the MD80 to the 737Max. Southwest has operated the Max at JWA as a Class A Carrier. The difference in dBs with the Max and the old MD80 is 11 dBs+.



General Aviation Improvement Project Timeline

The County’s proposed General Aviation Improvement Project (GAIP) continues to dominate the community’s interest. On September 10, 2019, the Board of Supervisors approved the Request for Proposals (RFP) for two (2) Full-Service Fixed Base Operators as well as one Limited-Service Fixed Based Operator (FBO). Each of the potential proposers will now prepare applications to be considered for one of the Full-Service FBOs or the Limited-Service FBO. The timeline for the selection process is as follows:

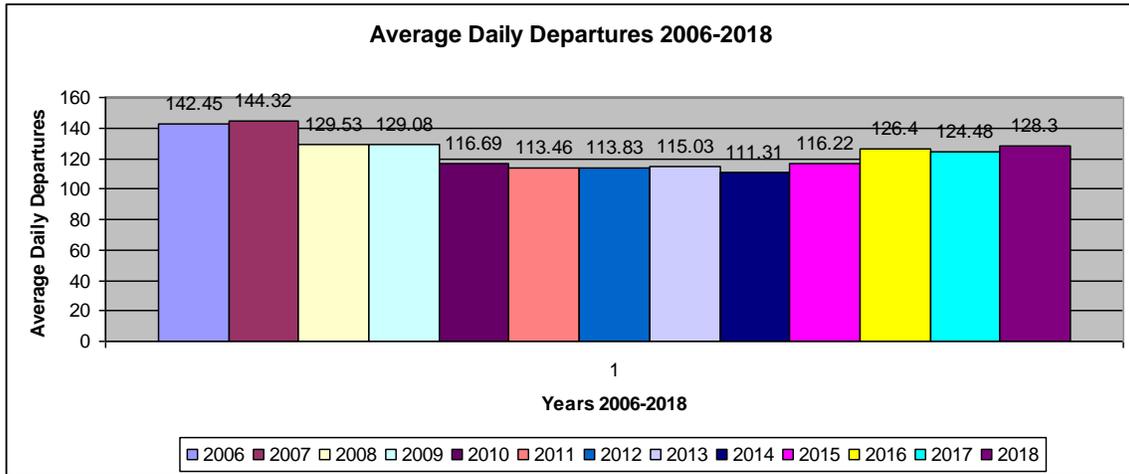
▪ Proposal Due Date and Time	December 19, 2019 2:00 PM PDT
▪ Panel Review & Interviews	December - February 2020
▪ Airport Commission	March 2020
▪ Board Selection of Preferred FBO Operators to Negotiate Terms for Potential Award	April 2020
▪ Negotiation of Terms with Selected FBO Operators	May 2020
▪ Board Award of Leases to FBO Operators	June 2020

The City of Newport Beach has continued to advocate the elements it believes will best protect our community.

JWA July Results

Airline passenger traffic at John Wayne Airport decreased in July 2019 as compared with July 2018. In July 2019, the Airport served 946,111 passengers, a decrease of 4.5% when compared with the July 2018 passenger traffic count of 991,003. Commercial aircraft operations decreased 5.0% and commuter aircraft operations increased 152.7% when compared with July 2018 levels. Total aircraft operations decreased in July 2019 as compared with the same month in 2018. In July 2019, there were 27,520 total aircraft operations (take-offs and landings), a 3.3% decrease compared to 28,466 total aircraft operations in July 2018. General aviation activity, which accounted for 69.7% of the total aircraft operations during July 2019, decreased 4.3% when compared with July 2018. The top three airlines in July 2019 based on passenger count were Southwest Airlines (287,054), American Airlines (161,088) and United Airlines (156,878).

By comparison, the number of Average Daily Departures (ADDs) for July 2019 was 132.94 ADDs vs. 134.45 ADDs for 2018. A further historical comparison of ADDs for the years of 2006 to 2018 is as follows:



Next City Aviation Committee Meeting

The next meeting of the Aviation Committee is scheduled for October 28, at 5:30 p.m. It will be held in the Civic Center Community Room, 100 Civic Center Drive.

Next Quarterly Noise Meeting

For those interested in reviewing the results of the most recent 2019 noise reports, the quarterly meeting will be held on December 18 at 2 p.m. The meeting will be held at JWA's administrative office at 3160 Airway Avenue, Costa Mesa, 92626.

Ontario Airport

Ontario International Airport (ONT) continues to take off as the number of passengers for 2019 is up 7.54% for the year through August 2019. The rapid expansion of commercial air service at ONT continues with the inauguration of United Airlines' nonstop flights serving Houston's George Bush Intercontinental Airport (IAH). ONT now reaches 21 domestic and international destinations with nonstop service. In addition, Delta and Jet Blue have both introduced new and expanded service to the airport.

With two runways, one that is 12,200 feet long⁴ and another that is 10,200 feet long, the current facilities support 10 Million Annual Passengers (MAP) and, through expansion and surface transportation infrastructure development, has a potential capacity of 31 MAP.

An interesting comparison can be made with Southwest, which served approximately 287,000+ passengers at JWA in July while also servicing another 232,000+ passengers at ONT. At the same time, Southwest served another 106,000+ passengers at Long Beach.

Noise Abatement Departure Procedure (NADP)

Many people have asked which planes are flying the NADP1, the close in procedure, or the NADP2, the distant procedure. The following page contains the latest update on the procedures used by the different carriers.

⁴ By comparison JWA has one commercial runway of 5,701 ft.

John Wayne Airport Departure Procedures - Updated as of 9/25/19		
Air Carrier	NADP1 - Close In	NADP2 - Distant
Alaska		
B734/737/738		✓
A319/320		✓
American		
A319/320/321		✓
B738		✓
B752		✓
Compass		
E175	✓	
Delta		
A220/319/320	✓	
B712	✓	
B737/738	✓	
B752	✓	
FedEx		
A306	✓	
Frontier		
A319/320/32N/321	✓	
Horizon		
E175		✓
JetSuiteX		
E135	✓	
SkyWest		
CRJ7/9	✓	
E175	✓	
Southwest		
B737/738	✓	
United*		
A319/320	✓	
B737/738	✓	
UPS		
A306	✓	
B752		✓
WestJet		
B736/737		✓

* July 23-October 2, 2019, United Airlines demo flights utilizing NADP1

Questions about the Airport or Operations

This is a friendly reminder that if you have any questions about John Wayne Airport and its departures and/or operations, please do not hesitate to contact the City of Newport Beach City Manager's Office at 949-644-3001. In addition there is extensive information on the City's website: newportbeachca.gov/jwa.