

AGENDA ITEM SUMMARY

WORK SESSION DATE: February 16, 2010

AGENDA ITEM TITLE: Fly Quiet Committee Meeting Update

STAFF RESPONSIBLE: Jim Elwood, Airport Director

ISSUE STATEMENT:

Airport staff and consultants have been preparing the year-end 2009 Fly Quiet Report. A Fly Quiet Committee meeting will be held on February 16, at 10:00 am to present the findings to the Committee. This briefing is to update the BOCC on the results of that meeting and the results of the 2009 Report.

BACKGROUND:

The Airport has been conducting off-airport noise measurements for several years to determine actual aircraft noise levels and to determine aircraft-generated noise levels within the Airport environs. In addition, Airport staff, consultants and committee members have identified several criteria to measure voluntary noise reduction efforts by Airport users. The 2009 Fly Quiet Report is the first annual report that presents the results of these efforts and to identify those users who have achieved the greatest noise reduction or have operated the quietest aircraft.

KEY DISCUSSION ITEMS:

The major items that have been discussed were the operators that were recognized as the “best performers” and the overall reduction in aircraft noise achieved at the Airport. The 2009 Report will serve as the first annual report to compare subsequent year’s noise reduction and best operators. Recognition will be given to the “best performers” for 2009, as well as those operators that were most improved. Honorable mention will be given to operators who replace older, louder aircraft with newer generation, quiet aircraft.

RECOMMENDED BOCC ACTION:

No action required, information only.

FLY QUIET PROGRAM 2009



Aspen Pitkin County Airport

Fly Quiet Program Recap

- ➔ **Ongoing Noise Monitoring and Reporting**
- ➔ **Discussion of Ways to Recognize and Acknowledge Quiet Aircraft Operators**

Fly Green/Fly Clean Program Outline

➔ What is Being Measured

➔ Annual Results

➔ Notifications and Acknowledgements

– Best Operators, Part 135

- Two Categories

- More than 30 operations

- Less than 30 operations

– Best Operators, Single Aircraft Owner/Operator

– Poor Operators

Fly Quiet Program Elements

➔ Fleet Quality

- Stage 2
- Fleet Quality Rating



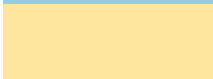
➔ High Single Event Levels

- Above 90 SEL

➔ Most Improved

Fly Quiet Evaluation

➔ Report Scoring

<u>Rating</u>	<u>Fleet Quality Score</u>	<u>High Noise Events</u>	<u>Color</u>
Good	9 to 10	0	
Average	4 to 9	0	
Poor	Below 4	More than 1	

➔ Two categories of aircraft operations

– Part 135 Operations

- More than 30 operations per year
- Less than 30 operations per year

– Single Aircraft Owner/Operators

Fleet Quality Rating and High Noise Events

2009 – 7.1

Past 2 Years -- 6.5

Code	Part 135 Operator	Base Period		2008		2009 Fleet Noise Quality (FNQ)					FNQ Score	High Events	
		2006/2007		Annual 2008		1st Half		2nd Half		Annual 2009			Change
		Avg. Annual	Score	Dept.	Score	Dept.	Score	Dept.	Score	Dept.	Score		
Operators with more than 30 departures per year													
BJS	Business Jet Solutions	0		3	9.3	41	9.0	53	9.3	94	9.1		
LXJ	Bombardier FlexJet	392	9.1	439	9.0	159	9.0	219	8.8	378	8.9	-0.3	
ELJ	Delta Air Elite	29	9.2	26	8.7	11	8.5	23	8.5	34	8.5	-0.7	
FIV	Citation Shares	338	8.4	307	8.1	112	8.3	170	8.1	282	8.2	-0.1	
EJA	Executive Jet Aviation (NetJet)	1647	8.0	1542	7.8	616	8.0	646	7.9	1262	8.0	0.0	
EJM	Executive Jet Management	62	7.4	68	8.0	37	8.1	49	7.5	86	7.8	0.4	
AIRPORT AVERAGE		6.7		6.9							7.1	0.4	
PWA	Priester Charters	29	6.0	36	7.5	22	7.1	27	7.0	49	7.1	1.0	
GTH	General Aviation Flying	8	5.8	30	6.5	19	6.4	12	6.6	31	6.5	0.7	
OPT	Flight Options	642	3.6	448	3.6	131	3.8	135	4.2	266	4.0	0.4	

Operators with less than 30 departures per year													
JCT	Jet Charter	6	9.3			5	10.0	3	10.0	8	10.0	0.7	
GDG	SP Aviation	16	9.1	12	9.8	2	10.0	3	10.0	5	10.0	0.9	
SBE	World Class Aviation	0		8	10.0	6	9.9	17	10.0	23	10.0		
OAE	Omni Air Express	22	8.2	38	7.6	7	8.2	17	8.9	24	8.7	0.5	
HPJ	Hop-a-Jet Inc.	11	7.6	7	7.7	3	8.6	5	8.4	8	8.5	0.9	
PJC	Pittsburgh Jet Center	0				9	8.5	7	8.1	16	8.3		
LJY	LJ Aviation	10	7.5	13	7.8	4	8.2	9	8.3	13	8.2	0.7	
CNK	Sunwest Aviation	2	7.2	2	10.0	3	10.0	1	2.0	4	8.0	0.8	
TWY	Sunset Aviation	9	5.4	16	5.9	7	7.7	4	8.0	11	7.8	2.4	
FWK	Flightworks	23	6.4	25	7.6	5	6.7	7	8.3	12	7.7	1.3	
SVW	Global Jet			1	7.5	4	7.5			4	7.5		
AIRPORT AVERAGE		6.7		6.9							7.1	0.4	
XSR	EAC Aircraft Management	0		2	2.0			8	7.0	8	7.0		
WWI	World Wide Jet Charters	8	4.2	10	5.4	5	4.0	4	9.5	9	6.4	2.2	
TFF	Talon Air	6	4.6	12	6.5	7	7.6	2	2.0	9	6.3	1.7	
LMO	Sky Limo Corporation	0		1	2.0	2	2.0	7	7.5	9	6.3		
SWQ	Swift Air	52	9.7	19	9.9	2	9.8	3	2.0	5	5.1	-4.5	
NUS	Northern Illinois Flight Center	1	8.1	9	4.9	7	4.0	2	6.2	9	4.5	-3.6	
CYO	Air Transport Inc.	3	4.0	9	4.3	3	5.0	7	4.0	10	4.3	0.3	
JNH	M & N Aviation	20	3.3	16	3.9	10	3.2	11	4.7	21	4.0	0.6	
CWZ	Capitol Wings Airline	6	3.6	9	3.6	5	4.0	1	3.6	6	3.9	0.3	1
UJT	Universal Jet Aviation	3	2.4	4	0.0	12	3.4	2	4.9	14	3.6	1.3	3
CKL	Aviation Charter Services	3	5.9	5	4.0	4	3.2			4	3.2	-2.7	
HTL	Jet Linx Aviation	58	3.0	36	3.2	11	3.3	7	2.0	18	2.8	-0.2	
ELT	Elliott Aviation	3	6.5	9	4.0	4	2.0	9	2.7	13	2.5	-4.1	
LIF	Life Flights	16	2.0	9	1.5	3	0.0	4	1.7	7	1.0	-1.0	6
LYM	Key Lime Air	4	0.0	3	0.0			5	0.0	5	0.0	0.0	4

Good	
Average	
Poor	

Other Operators (Less than 4 Annual Departures and non-Part 135 Operators)													
Other Part 135 Operators (<4 Ops)		461	6.9	404	7.5	21	6.2	20	7.0	41	6.6		0
GA	General Aviation non-Part 135	6052	6.5	5234	6.7	1896	6.7	2045	6.9	3941	6.8	0.4	87

Events

Single Aircraft Operators -- High Scores

➔ Single Aircraft Operator– High Scores

- 176 operators with a Fly Quiet score of 9.7 or greater
- Three single operators had more than 30 operations with a perfect Fly Quiet score of 10
 - Morgans Mach One Machine
 - Delaware L 60 Operation
 - Konfara Co

Fleet Quality Rating and High Noise Events

Single Aircraft Operators

Low Scores

Tail Number	Aircraft Type	Registered Owner		State	Departures 2009			FQ Score	High Events		
		Tail Number	Aircraft		Winter	Summer	Annual		Winter	Summer	Annual
Operators with at least 4 departures per year with a Fly Quiet Score of 0											
N400WY	GLF3	C & S AVIATION LTD		TX	9	15	24	0.0	1	6	7
N300WY	GLF3	C & S AVIATION LTD		TX	10	6	16	0.0	1	6	7
N15ER	LJ25	RICHARDSON E W		NC	5	8	13	0.0	3	11	14
N540EA	GLF2	JETMARK AVIATION LLC		CT	8	3	11	0.0	1	1	2
N58AJ	GLF3	AIR STERLING LLC		NY	1	8	9	0.0		3	3
N345MC	LJ25	MCOCO INC		TX	2	3	5	0.0		3	3
N4UB	GLF2	WELLS FARGO BANK NORWEST NA		UT	3	2	5	0.0		2	2
N555SD	LJ25	REEVES LLOYD D		NM	0	4	4	0.0	1	4	5
N226RM	GLF2	AVIATION ASSOCIATES LLC		TX		4	4	0.0		4	4
N360MB	GLF3	N 360 MB LLC		MI	2	2	4	0.0	1	2	3
N250MS	GLF2	MARTIN SPROCKET AND GEAR INC		TX	2	2	4	0.0		1	1
N555RE	GLF3	RALEIGH HOLDINGS LLC		CA	3	1	4	0.0		1	1
N702DM	GLF3	PAPA GRANDE AVIATION LLC		TX	2	2	4	0.0		1	1
Other Operators with at least one High Noise Event											
N711UF	GLF3	FERTITTA FRANK J III TRUSTEE		NV	3	0	3	0.0	5		5
N259SK	GLF3	S & K AVIATION LLC		FL		2	2	0.0		3	3
N975RG	GLF3	RG AVIATION LLC		FL	2	0	2	0.0	2		2
N148V	GLF2	CASTLE CREEK HOLDINGS CO		DL		1	1	0.0		2	2
N221WR	GLF3	WESTGATE AVIATION LLC		FL	1		1	0.0	2		2
N3DP	GLF3	GREEN CHAIR PRODUCTIONS INC		CA	0	1	1	0.0		2	2
N524DW	LJ25	CHARTER AIRLINES INC		NV	0	1	1	0.0		2	2
N1CG	FA50	ICG LLC		CO	12	4	16	3.6		1	1
N619MC	GLF2	LAGS AIR LLC		FL	1	2	3	0.0		1	1
N147X	GLF3	DX SERVICE CO INC		TX	2		2	0.0	1		1
N216RR	GLF2	GS II HOLDINGS LLC		NY	2		2	0.0	1		1
N499BS	LJ25	499 BS LEASING LLC		FL	2	0	2	0.0	1		1
N608MD	GLF2	SENTERRA CONSULTING LLC		TX	1	1	2	0.0		1	1
N801DL	FA50	INDEFENSIBLE CORP		FL	1	1	2	3.6		1	1
N2000	GLF2	MODEL TRANSPORTATION LLC		CA	1		1	0.0	1		1
N219RB	LJ25	PAULI-MAR INVESTMENT CO		MI		1	1	0.0		1	1
N34TN	LJ25	WILLIAMS DEVELOPMENT & CONST		TX	1	0	1	0.0	1		1
N466JB	GLF2	DREAM TOY LLC		CA	1	0	1	0.0	1		1
N557JK	GLF3	BANK OF UTAH TRUSTEE		UT		1	1	0.0		1	1
N71WJ	GLF2	W & J AIR LLC		TX	0	1	1	0.0		1	1
N800TD	GLF3	OSLO EXPRESS INC		CT	1	0	1	0.0	1		1
N817MF	GLF3	MONROE BUSINESS VENTURES LLC		NY	1	0	1	0.0	1		1
N918BG	GLF3	BHG FLIGHTS LLC		NY	0	1	1	0.0		1	1

Loudest Noise Events (Woody Creek) Winter, per day

Aircraft	Event Time	Aircraft	Stage	Ops	Rwy	Lmax	SEL	Graph Of SEL
	Jan 13, 12:34	GLF3	2	D	33	87.9	97.0	
	Dec 28, 17:12	LJ25	2	D	33	86.9	96.8	
	Dec 22, 16:06	GLF3	2	D	33	84.6	95.7	
	Dec 19, 15:45	GLF2	2	D	33	86.4	95.2	
	Dec 28, 14:48	GLF2	2	D	33	84.8	95.1	
	Nov 14, 09:38	LJ25	2	D	33	86.1	94.8	
	Jan 05, 15:05	LJ25	2	A	15	85.0	94.7	
	Jan 04, 15:23	LJ25	2	D	33	84.0	94.4	
	Nov 01, 07:58	GLF3	2	D	33	84.3	94.3	
	Dec 28, 15:10	GLF3	2	D	33	82.3	94.1	
	Jan 04, 12:02	GLF3	2	D	33	85.0	94.0	
	Jan 10, 16:52	GLF3	2	D	33	81.9	93.3	
	Jan 04, 16:11	GLF3	2	D	33	82.4	93.2	
	Apr 20, 07:24	GLF3	2	D	33	81.5	93.1	
	Dec 24, 17:32	GLF2	2	D	33	81.9	93.0	
	Dec 19, 13:32	GLF3	2	D	33	82.8	92.8	
	Dec 26, 15:45	GLF3	2	D	33	82.6	92.4	
	Jan 05, 16:19	GLF2	2	D	33	81.8	92.3	
	Jan 01, 17:10	GLF3	2	D	33	81.9	91.8	
	Jan 04, 14:42	LJ25	2	D	33	80.4	91.1	
	Dec 21, 12:26	GLF3	2	D	33	78.6	90.8	
	Dec 30, 15:16	GLF3	2	D	33	79.7	90.7	
	Dec 28, 16:46	GLF3	2	D	33	81.9	90.6	
	Jan 04, 16:44	GLF3	2	A	15	79.8	90.4	
	Dec 26, 14:00	GLF3	2	D	33	81.8	90.3	

Loudest Noise Events (Woody Creek) Summer, per day

Aircraft	Event Time	Aircraft	Stage	Ops	Rwy	Lmax	SEL	Graph Of SEL
	May 23, 19:02	GLF2	2	D	33	93.5	102.4	
	May 22, 20:04	LJ25	2	D	33	92.4	101.0	
	May 22, 18:59	LJ25	2	D	33	92.1	100.6	
	Jun 01, 19:30	LJ25	2	D	33	89.0	99.8	
	Jul 27, 11:36	LJ25	2	D	33	90.6	99.3	
	Sep 07, 10:02	GLF3	2	D	33	88.9	98.9	
	May 10, 14:24	LJ24	2	D	33	91.8	98.8	
	Jul 20, 10:17	LJ25	2	D	33	90.3	98.0	
	Aug 10, 08:45	LJ25	2	D	33	86.6	96.9	
	May 15, 08:43	LJ24	2	D	33	89.2	96.7	
	Jul 29, 14:10	GLF2	2	D	33	86.5	96.6	
	Jul 03, 16:50	LJ25	2	D	33	86.8	96.6	
	Sep 07, 15:29	GLF2	2	D	33	88.2	96.5	
	Sep 27, 08:29	LJ24	2	D	33	86.2	96.4	
	Oct 20, 13:06	GLF3	2	D	33	86.3	96.4	
	Oct 20, 12:46	GLF3	2	A	15	92.0	96.4	
	Jul 02, 14:10	GLF2	2	D	33	85.1	96.4	
	Sep 03, 18:54	GLF3	2	D	33	86.7	96.2	
	Aug 24, 13:27	LJ25	2	D	33	86.8	96.2	
	Aug 30, 12:12	GLF3	2	D	33	87.6	96.1	
	Aug 24, 13:17	LJ25	2	D	33	86.2	96.1	
	Aug 11, 20:12	LJ25	2	D	33	86.4	96.1	
	Oct 11, 13:44	LJ25	2	D	33	89.7	95.4	
	Jun 12, 18:50	GLF3	2	D	33	85.5	95.1	
	Sep 02, 08:56	GLF3	2	D	33	84.9	95.0	

Notifications and Acknowledgements

➔ Charters and Fractional Operators

- Best Operator with more than 30 operations
 - BJS – Business Jet Solutions
- Best Operators with less than 30 operations
 - JCT – Jet Charter
 - GDG – SP Aviation
 - SBE – World Class Aviation
- Most Improved
 - PWA – Priester Charters (> 30 operations)
 - TWY – Sunwest Aviation (< 30 operations)

Notifications and Acknowledgements

➔ Single Aircraft Operator

- 176 operators with a Fly Quiet score of 9.7 or greater
- Three single operators had more than 30 operations with a perfect Fly Quiet score of 10
 - Morgans Mach One Machine
 - Delaware L 60 Operation
 - Konfara Co

Notifications and Acknowledgements

- ➔ **Single Aircraft Operator that retired older aircraft or replaced with newer, quieter technology**
 - GR Aircraft
 - Retired Gulfstream III, replaced with a Gulfstream IV
 - NW Aircraft
 - Retired Learjet 25
 - Aircraft Guaranty
 - Retired Gulfstream III

Annual Airport Fly Quiet Performance

➔ Annual DNL

- Noise Contours
 - Contour Size
- Measured Noise Levels

➔ High Single Event Levels

- Above 90 SEL

➔ Fleet Quality

- Stage 2

2009 Annual Airport Performance-- Results

➔ DNL Noise Levels

- 1,298 acres (55 DNL)
- 52.5 DNL (Woody Creek)

➔ Number of Events Above 90 SEL

- 0.76 per day

➔ Stage 2 Mix

- 4.6%

➔ Fleet Quality Rating

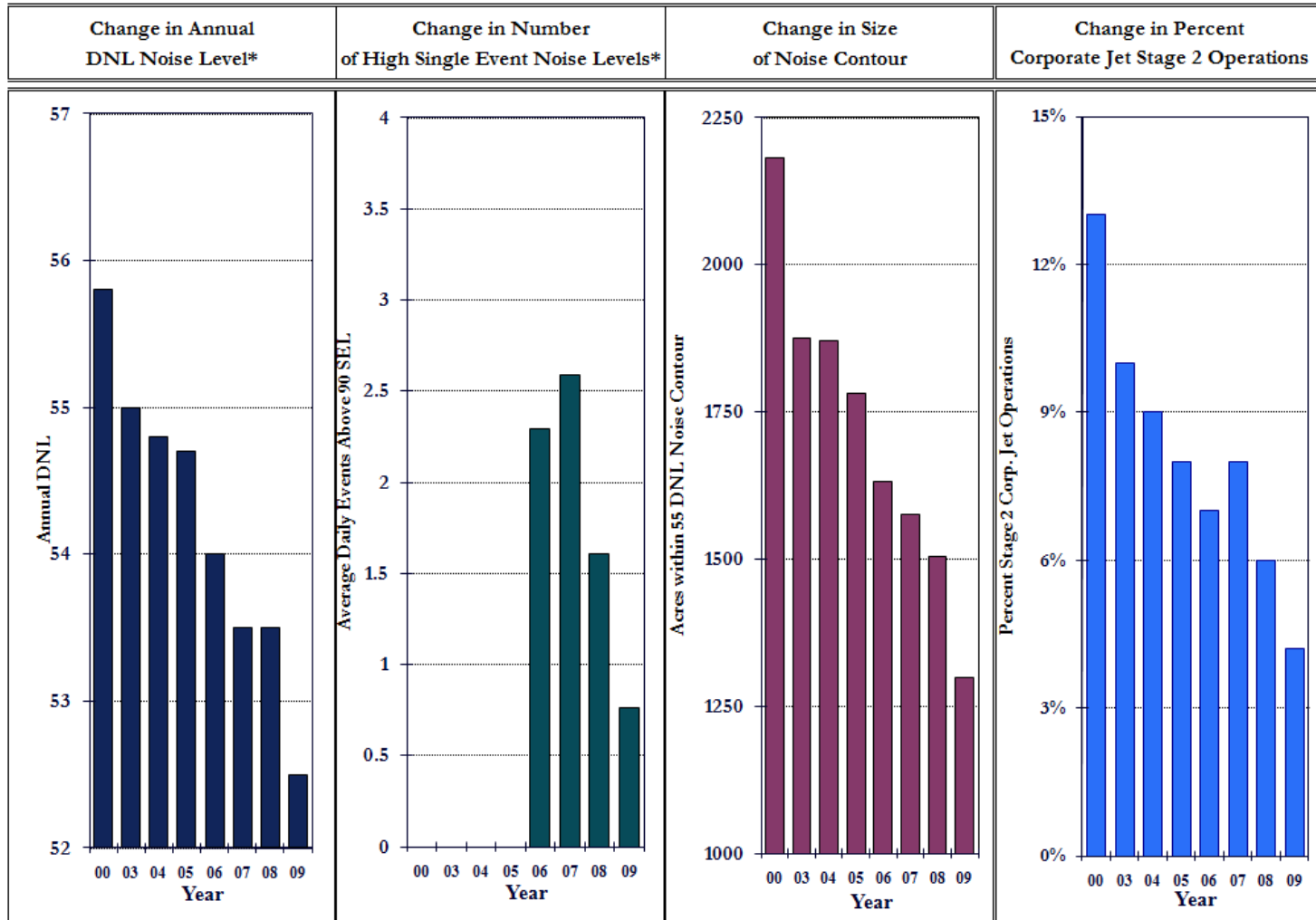
- 7.1

Loud Corporate Jet Aircraft

<u>Year</u>	<u>G2/G3</u>	<u>LR25</u>
2003	1202	372
2004	1432	319
2005	1221	265
2006	1035	260
2007	913	157
2008	720	112
2009	367	109

Historical Comparison

DNL – Loud Events – Contour Size – Stage 2



* DNL and SEL Noise Events from Woody Creek Measurement Site
 Year Around Measurements of High Noise Events at Wood Creek Started in 2006