## APPENDIX H CONSOLIDATED FAA RESPONSE TO LAWA REQUESTS FOR NON-STANDARD MODELING PRACTICES

The following pages present a copy of the consolidated FAA response to LAWA's requests for guidance regarding non-standard modeling practices in four areas: (1) user-defined aircraft in the INM Version 7.0b, (2) noise-power-distance (NPD) curve adjustments for the GIII aircraft with hushkits, (3) a non-standard descent angle to Runway 16R, and (4) non-standard aircraft type modeling substitutions. Appendix F presents a copy of LAWA's consolidated request to the FAA related to the first three items. Appendix G presents LAWA's request related to the fourth item.

The noise contours presented in this document followed the FAA guidance.

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- The request also seeks approval to change the glide slope angle for Runway 16R from the 3-degree (INM standard) to 3.9-degrees as specified for both visual and ILS approaches. The corresponding noise modeling followed standard practice in INM and the results appear reasonable. AEE approves the use of 3.9 degree glide slope in noise modeling for VNY NEM updates.
- Below are AEE's responses to the proposed INM aircraft substitution requests:

#	Aircraft Code	Represented Aircraft Models	Proposed INM Substitution	AEE Recommendation
1	C56X	Cessna 560XL Citation Excel	CNA55B	Concur
2	GALX	1126 GALAXY-GULFSTREAM 200	CL601	CL-600 WITH ALF-502 ENGINES
3	GLEX	Bombardier Global Express BD-700	GV	Concur
4	H25C	Raytheon Hawker Bae HS 125- 1000	LEAR35	Concur
5	L39	Aero L-39 Albatros	T-38A	Concur
6	PRM1	Premier 1-390	CNA500	Concur
7	AC68	AC6L Aero Commander 680	BEC58P	Concur
8	B25	North American B-25 Mitchell	DC3	Concur
9	B26	Boeing (Douglas) B-26 Marauder/Invader	DC3	Concur
10	C46	Curtiss C-46 Commando	DC3	Concur
11	C82	FAIRCHILD C-82 JET PACKET	DC3	C119L
12	U16	Grumman HU-16 Albatross	DC3	Concur
13	C411	Cessna 411	BEC58P	Concur
14	CE25	Hydroplane Che-25	BEC58P	Concur
15	P68	Partenavia P.68	BEC58P	Concur
16	TCOU	Helio H-580 Twin Courier	BEC58P	Concur
17	B350	Beechcraft King Air 350	DHC6	Concur
18	C10T	Cessna P210 (turbine)	CNA208	Concur
19	C2	Grumman Greyhound	HS748A	Concur
20	CVLT	Convair 580	CVR580	Concur
21	P46T	Piper Malibu Meridian	SD330	Concur
22	P68T	Partenavia P.68 (turbine)	CNA441	Concur
23	P180	Piaggio P-180 Avanti	DHC6	Concur
24	PC12	PILATUS PC-12 EAGLE	1900D	CNA208
25	TBM7	SOCATA TBM-700	1900D	CNA208
26	BK117C	Eurocopter BK117C.1C	B222	Concur
27	B412	Bell 412/412EP	BO105	Concur
28	EC20	Eurocopter EC120 Colibri	SA341G	Concur
29	EXPL	MD 900 Explorer	EC130	Concur
30	B47G/H	Bell 47-G/H	R44	Concur
31	B430	Bell 430	S76	Concur
32	S58T	Sikorsky S-58	S76	Concur

**2)** AEE recommends the use of INM type CL600 ALF-502 engines to represent the IAI 1126 Galaxy/Gulfstream G200 aircraft within the noise modeling. The CL601 with CF34 engines would likely underestimate the noise because the flyover noise certification level (79.9dB) cited from the FAA's AC 36-1H is for full power takeoff, not for power cutback.

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Instead, CL-600 with ALF-502 engines should provide a better match. CL-600's maximum takeoff weight matches that of G200 well. In addition, CL-600's flyover and approach noise levels match that of the G200 well. AEE further conducted INM noise contour comparison between CL600 and CL601 and confirmed that CL600 would generate larger noise contours in general. 11) AEE recommends the use of INM military type C119L to represent the Fairchild C-82 Jet Packet within the noise modeling. The C119L is a slightly larger military variant of the C-82 that AEE believes will more accurately represent the C-82 instead of the DC3. 24) AEE recommends the use of INM type CNA208 to represent the Pilatus PC-12 Eagle within the noise modeling. The CNA208 is also a single engine turboprop aircraft similar in size to the PC-12. The use of a single engine, fuselage mounted, turboprop aircraft that is similar in weight to the PC-12 will provide a more realistic representation of the PC-12 instead of a twin engine turboprop with wing mounted engines. 25) AEE recommends the use of INM type CNA208 to represent the Socata TBM-700 within the noise modeling. The CNA208 is also a single engine turboprop aircraft similar in size to the Socata TBM-700. The use of a single engine, fuselage mounted, turboprop aircraft that is similar in weight to the Socata TBM-700 will provide a more realistic representation of the Socata TBM-700 instead of a twin engine turboprop with wing mounted engines. Please understand that the approvals listed above are limited to this particular Part 150 Noise Exposure Map update for Van Nuys Airport (VNY). Any additional projects or non standard INM input at VNY or any other site will require separate approval If you have questions concerning this matter, please feel free to contact me at victor.globa@faa.gov or 310/725-3637. Sincerely. Victor Globa Environmental Protection Specialist

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