

5-3 NHSC SIMULATOR SESSION 3

Lindbergh 4503

Location: KCOS ready for takeoff runway 35R

Weather: 08020KT 2SM -TSRA OVC005CB 30/20 A3005

Aircraft: TOW 65,000 LBS, FUEL 8,500 LBS (Frozen), MIN 7,000 LBS,
RSV 2,312 LBS, TRIM 6.0
*Set Temp 30, Weight 65,000 LBS for Takeoff, then unfreeze fuel and
adjust to 61,000 LBS airborne*

Clearance: KDCA as filed, maintain 10,000 expect FL370 in 10 min, dep 125.0,
squawk 2234

5-3.1 Briefing

- Hot Weather Operations
- Wind shear – Caution/Warning
- Weather Radar
- EGPWS – Caution/Warning
- Flight control malfunctions: PCU Runaway, Aileron and Elevator Jams, Stab Trim Runaway
- DME ARC – ILS35R from Drake
- Landing and missed approaches with flight control malfunctions
- DCA LDA Approach, River Visual 19 – P56
- Emergency Evacuation

5-3.2 Maneuvers

- Before Takeoff Checks, Flaps 20 Takeoff Speeds (121, 121, 128, 185)
- Radar Operations (failure, thunderstorms in the area, describe process of writing it up, fix, go)
- Flaps 20 Takeoff with windshear
- Pikes Peak EGPWS (*approximately a 260 Heading*)
- Cargo file forces diversion back to KCOS, Air Conditioning Smoke, note the over landing weight, discuss, fix
- Direct DRAKE ILS 35R DME ARC (*Flight control malfunctions on vector to DRAKE*)
- Left side Aileron/Elevator Jam
- Auto Pilot Malfunction to force Hand flying then Stab Trim Runaway
- Landing Windshear – Go Around, Missed Approach with Pitch Mistrim
- Visual Approach and Landing with pitch mistrim, fix and reset
- REPO TO DCA RWY 1 for LDA 19, Missed Approach
- Hydraulic 2 and 3 Low Pressure (*Caution Messages when combined are in the EMER section, Divert to KIAD*)
- Electrical Fire
- Box Checking as time permits
- LOC 1R into KIAD

5-3.3 Debrief

- Overall rundown of lesson
- CRM/RRM
- Issues/questions that arise during lesson

5-3.4 Dispatch Release

DISPATCH RELEASE
OFP 2 GOJET AIRLINES 26OCT2021 2357Z

IFR FLT G7 4503 KCOS/COS STD 0200Z ETD 0200Z
KDCA/DCA STA 0300Z ETA 0522Z
AIRCRAFT TAIL NO N521GJ / CRJ/8C5B1
PERF FACTOR 0.0

BY SIGNING, I BELIEVE THAT THIS FLIGHT CAN BE MADE W/ SAFETY

DX SIGNATURE LAURA GARVEY PHONE +1 314 222 4373 DESK GJ2
[VALID CREW NAMES, POSITIONS and EMPLOYEE NUMBERS]

----- FLIGHT PLAN SUMMARY 4503 KCOS KDCA -----

	TIME	FUEL	ALTN	TIME	DIST	ALT	BURN
BURN	0147	4488	T/O				
MSAP	0005	200	DEST1				
RESERVE	0045	2312					
MIN FUEL		7000					
TAXI OUT	0015	205					
MIN GATE		7205					
CONT	0007	1295					
TOTAL		8500	PAX LOAD	40	BOW	45101	
LDG FUEL	0052	2358	PAYLD	8899	MPAYLD	8900	
			ZFW	54621	MZFW	59000	
			TOW	65000	MTOW	65000	
			LDG WGT	61000	MLDG	61000	
			RAMP WGT	61205	MRMP	66000	

NO TANKERING RECOMMENDED
LOSS FOR EXTRA FUEL USD/1000 LBS. 40.37

OPERATION MODES CLB CRZ DES
CLIMB 290/.74 AVG WND CMP T7 T38 T14
CRUISE 320/.77 AVG TMP CMP P07 P05 P07
DESCENT 290/.74 AVG CRZ WIND 270 / 43

FMS ROUTE
-KCOS/35R N0457F370 BRK DCT JEWLS DCT GCK/N0451F390 DCT ICT DCT
SGF J98 FAM J78 IIU J526 BKW TRUPS# KDCA/01

TERRAIN CLEARANCE CHECK

DD CHECK - TERRAIN CHECK COMPLETED WITH NO LIMITATIONS
DP CHECK - TERRAIN CHECK COMPLETED WITH NO LIMITATIONS

* DMI LIST ***** REFER TO MEL/CDL FOR ALL ITEMS *****
* 23-22-01A ACARS EXPIRE (VALID DATE) *

-----DISPATCH REMARKS-----
SIMULATOR TRAINING FLIGHT, FUEL FROZEN, DCA LDA and RIVER VIS 19

PIC SIGNATURE

COMPUTER FLIGHT PLAN				GOJET				G7 FLT 4503		
WP	LAT	TTIME	DIST	IAS	MCH	MC	ALT	WIND	TFB	
STIME	LONG	TTREM	DTGO	TAS	G/S	HDG	IOAT	WCOMP	MFRM	
KCOS/35R		-----	-----	---	---	---	---	----		
11013		02.57	1376	---	---	---	---	----		
BRK	N38 56.67	00.02	9 290	.74	013 104	329021			319	
002	W104 38.01	02.55	1367 459	228 010	P00		T013		10694	

KZDV		*** DENVER UPPER FIR ***								
		00.06	21			180				
		02.51	1346							

JEWLS	N38 31.97	00.09	24	290	.74	116	248	197027		
742										
007	W103 49.91	02.48	1322	459	394	118	M30	T015		
9952										
TOC	N38 13.65	00.20	78 290	.74	096 370	222051			772	
011	W102 13.66	02.38	1244 459	454 103	M39		T025		9180	

KZKC		*** KANSAS CITY UPPER FIR ***								
		00.24	36			370				
		02.33	1208							

GCK	N37 55.14	00.29	38	249	.77	097	370	218064		
479										
009	W100 43.50	02.28	1170	459	480	103	M40	T043		
8701										
ICT	N37 44.72	00.47	150	238	.77	088	390	229070		
927										
018	W097 35.03	02.10	1021	451	489	096	M47	T045		
7774										
SGF	N37 21.36	01.12	204	238	.77	092	390	247048		
1187										
025	W093 20.04	01.45	817	447	490	099	M51	T047		
6587										
TWRAY	N37 36.08	01.26	112	238	.77	081	390	259048		
637										
014	W091 00.88	01.31	705	445	492	084	M53	T048		
5950										
FAM	N37 40.41	01.30	37	238	.77	084	390	264049		
211										
004	W090 14.04	01.27	668	445	493	085	M53	T049		
5739										

Rev.: 1
Eff.: 04/09/25

Short Course
NHSC Simulator Session 3

CH 5
5—3—5

PLESS N37 48.57 01.38 61 238 .77 083 390 273050 343
008 W088 57.79 01.20 607 445 494 084 M54 T050 5396

*** INDIANAPOLIS UPPER FIR ***
KZID 01.42 32 390
01.16 575

PXV N37 55.70 01.45 25 238 .77 086 390 281053
322
007 W087 45.74 01.13 550 445 493 084 M54 T051
5074

IIU N38 06.21 01.57 104 238 .77 087 390 293059
579
012 W085 34.65 01.00 446 443 494 086 M54 T062
4495

PAGE NUMBER 4 OF
6

WP	LAT	TTIME	DIST	IAS	MCH	MC	ALT WIND	TFB
STIME	LONG	TTREM	DTGO	TAS	G/S	HDG	IOAT WCOMP	
MFRM								

ZIEBR N37 37.97 02.14 137 238 .77 106 390 304070
740
017 W082 45.18 00.44 309 443 505 105 M55 T057
3755

BKW N37 46.82 02.23 78 238 .77 090 390 305085
424
009 W081 07.41 00.34 231 443 497 084 M56 T045
3331

POMYK N37 52.85 02.25 15 238 .77 074 390 305089 83
002 W080 50.34 00.32 216 443 482 065 M56 T046 3248

*** WASHINGTON UPPER FIR ***
KZDC 02.26 5 390
00.32 211

DEBZZ N38 05.23 02.29 25 238 .77 074 390 307094
170
004 W080 15.30 00.29 185 443 482 064 M54 T042
3078

DILNN N38 16.33 02.32 27 238 .77 074 390 312094
154
003 W079 43.87 00.25 158 445 481 064 M53 T035
2924

SEALZ N38 25.39 02.35 23 238 .77 075 390 316091
130
003 W079 17.44 00.22 136 447 472 065 M52 T045
2794

RANJR N38 28.05 02.36	12	238	.77	087	390	318089
68						
001 W079 02.33 00.21	124	447	486	077	M51	T043
2726						
JARHD N38 30.00 02.38	9	238	.77	087	390	319088
51						
002 W078 51.14 00.20	115	447	484	077	M51	T042
2675						
TOD N38 31.38 02.38	7	238	.77	088	390	320087
40						
000 W078 42.35 00.19	107	447	484	079	M51	T042
2635						
PJAAE N38 31.86 02.39	2	290	.74	088	383	320088
2						
001 W078 39.34 00.19	105	447	484	078	M50	T038
2633						
USAAY N38 34.33 02.40	12	290	.74	088	339	326078
12						
001 W078 23.78 00.17	93	447	466	079	M44	T019
2621						
WEEDU N38 35.90 02.41	7	290	.74	087	307	336056
12						
001 W078 14.74 00.16	85	447	458	080	M40	H003
2609						
SUPRT N38 38.87 02.42	8	290	.74	078	270	346042
14						
001 W078 05.56 00.15	78	447	431	072	M34	H010
2595						
OOURR N38 43.97 02.44	13	290	.74	078	212	357036
002 W077 49.66 00.13	64	447	410	073	M22	
					H023	2570

*** WASHINGTON LOWER FIR ***

KZDC	02.45	6	184
	00.12	58	

PAGE NUMBER 5 OF

6

WP	LAT	TTIME	DIST	IAS	MCH	MC	ALT	WIND	TFB
STIME	LONG	TTREM	DTGO	TAS	G/S	HDG	IOAT	WCOMP	MFRM
TRUPS N38 49.26 02.46			2	290	.74	059	174	001035	
17									
002 W077 42.03 00.12			56	447	356	055	M14	H018	
2553									
LETZZ N38 54.71 02.48			13	290	.74	075	112	014031	
33									
002 W077 27.04 00.09			43	447	344	071	M02	T006	
2520									

RLLLL N38 50.92 02.49 8 290 .74 130 089 013031
24
001 W077 18.34 00.08 36 447 318 124 P01 T015
2496

VCTRY N38 45.73 02.51 10 290 .74 131 049 358039
37
002 W077 06.82 00.06 25 447 292 123 P05 T037
2459

HEROO N38 37.62 02.53 8 290 .74 188 026 354036
56
002 W077 06.37 00.04 17 447 281 189 P08 H030
2403

KDCA/01 -----
211 00.00 0 --- --- --- ---
2192

OPERATIONAL IMPACTS

WEIGHT CHANGE DN 500	TRIP M 000042 LBS	TIME M 0000
WEIGHT CHANGE UP 500	TRIP P 000000 LBS	TIME P 0000
FL CHANGE UP FL1	NOT AVAILABLE	
FL CHANGE DN FL1	TRIP P 000213 LBS	TIME M 0000
FL CHANGE DN FL2	TRIP P 000569 LBS	TIME M 0000

WIND AND TEMPERATURE SUMMARY KCOS TO KDCA

CLIMB			T O C			GCK		
FL350	222/47	M39	FL410	232/47	M47	FL410	231/53	M49
FL310	212/43	M38	FL390	225/51	M42	FL390	222/62	M44
FL200	197/7	M23	*FL370	222/51	M40	*FL370	218/65	M42
FL150	333/16	M12	FL350	219/52	M39	FL350	213/66	M40
FL100	329/21	M01	FL330	214/54	M38	FL330	207/67	M38

ICT			SGF			TWRAY		
FL450	239/53	M59	FL450	259/42	M62	FL450	277/41	M63
FL410	231/60	M53	FL410	252/44	M57	FL410	268/45	M58
*FL390	229/70	M49	*FL390	247/48	M52	*FL390	259/48	M53
FL370	225/73	M46	FL370	243/50	M49	FL370	250/46	M51
FL350	220/75	M44	FL350	233/47	M46	FL350	240/43	M48

FAM			PLESS			PXV		
FL450	281/43	M64	FL450	285/47	M64	FL450	290/51	M64
FL410	273/45	M58	FL410	281/48	M58	FL410	287/52	M59
*FL390	264/49	M53	*FL390	273/50	M54	*FL390	281/53	M54
FL370	255/48	M51	FL370	264/51	M52	FL370	274/53	M52
FL350	246/44	M48	FL350	258/48	M49	FL350	271/51	M49

ATC FLIGHT PLAN

FF KZDVZQZX

KSTLGJSO

(FPL-GJS4503-IS

-CRJ7/M-SDE3GLORVW/EB1

-KCOS0200

-N0457F370 BRK DCT JEWLS DCT GCK/N0451F390 DCT ICT DCT SGF J98 FAM

J78 IIU J526 BKW TRUPS4

-KDCA0257

-PBN/B2B3B4C2C3D2D3 SUR/260B DOF/211027 REG/N521GJ EET/KZKC0024