

2-5 SIMULATOR SESSION 5

Lindbergh 4505

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 5.7, CG 27%

*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

2-5.1 Briefing

- Hot Weather Operations
- Wind Shear – Caution/Warning
- Crosswind Takeoff (90 degree crosswind at 28kts) Crosswind Landing (90 degree crosswind at 30kts)
- Weather Radar
- EGPWS – Caution/Warning
- Flight Control Malfunctions: PCU Runaway, Aileron and Elevator Jams, Stab Trim Runaway
- DME ARC – ILS 35R KCOS from Drake
- Landing and Missed Approaches with Flight Control Malfunctions
- LDA Approach KDCA LDA Z 19, Review CCI pages.
- Brief River Visual 19 – P56, Highlight CCI Guidance for the River Visual Approach
- Emergency Evacuation

2-5.2 **Maneuvers**

- Rejected Takeoff (Instructor Discretion to select a malfunction to cause a rejected takeoff)
- Program Thunderstorm close to the departure end of the runway
- Hot and Heavy Takeoff (*65,000 LBS*)
- Takeoff with Windshear
- Radar Operations
- Pikes Peak EGPWS (*Approximately a 260 Heading*)
- Create Reason (Cargo Fire that Progresses to Cabin Fire) to Divert Back to KCOS, Note the Over Landing Weight, Discuss, Fix.
- Direct DRAKE ILS 35R DME ARC (*Flight Control Malfunctions on Vector to DRAKE*)
- Aileron PCU Runaway
- Aileron/Elevator Jam
- Landing Windshear – Go Around
- Auto Pilot Malfunction to Force Hand Flying and Stab Trim Runaway
- Stab Trim Runaway
- Visual Approach with Flight Control Malfunction
- Missed Approach with Flight Control Malfunction
- Landing with Flight Control Malfunction

2-5.2.1 **Time Permitting**

- REPO TO DCA RWY 1 for RNAV DEP
- LDA Z 19 approach
- Hydraulic 2 & 3 Low Pressure (After QRH is Complete, Divert to KIAD SE ILS Hand Flown NO AP/FD "Raw Data" Weather 700ft/3mi (MFO).)

2-5.3 **Debrief**

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

2-5.4 Dispatch Release

DISPATCH RELEASE
OFP 2 GOJET AIRLINES 26OCT2021 2357Z

IFR FLT G7 4505 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
CA- A D.B COOPER

----- FLIGHT PLAN SUMMARY 4505 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 YYYY-MM-DD (VALID DATE) *

-----DISPATCH REMARKS-----
SIMULATOR TRAINING FLIGHT, FUEL FROZEN

PIC SIGNATURE

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COMPUTER FLIGHT PLAN			GOJET				G7 FLT 4505		
WP	LAT	TTIME	DIST	IAS	MCH	MC	ALT WIND	TFB	
STIME	LONG	TTREM	DTGO	TAS	G/S	HDG	IOAT WCOMP	MFRM	
KCOS/35R		-----	-----	---	---	---	---	----	
		02.57	1376	---	---	---	---	----	11013
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	
*** DENVER UPPER FIR ***									
KZDV		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	
*** KANSAS CITY UPPER FIR ***									
KZKC		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
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
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WP STIME	LAT LONG	TTIME TTREM	DIST DTGO	IAS TAS	MCH G/S	MC HDG	ALT IOAT	WIND WCOMP	TFB MFRM
ZIEBR 017	N37 37.97 W082 45.18	02.14 00.44	137 309	238 443	.77 505	106 105	390 M55	304070 T057	740 3755
BKW 009	N37 46.82 W081 07.41	02.23 00.34	78 231	238 443	.77 497	090 084	390 M56	305085 T045	424 3331
POMYK 002	N37 52.85 W080 50.34	02.25 00.32	15 238 216 443	.77 074 482 065	390 305089 M56		83 T046 3248		
*** WASHINGTON UPPER FIR ***									
KZDC		02.26 00.32	5 211			390			
DEBZZ 004	N38 05.23 W080 15.30	02.29 00.29	25 185	238 443	.77 482	074 064	390 M54	307094 T042	170 3078
DILNN 003	N38 16.33 W079 43.87	02.32 00.25	27 158	238 445	.77 481	074 064	390 M53	312094 T035	154 2924
SEALZ 003	N38 25.39 W079 17.44	02.35 00.22	23 136	238 447	.77 472	075 065	390 M52	316091 T045	130 2794
RANJR 001	N38 28.05 W079 02.33	02.36 00.21	12 124	238 447	.77 486	087 077	390 M51	318089 T043	68 2726
JARHD 002	N38 30.00 W078 51.14	02.38 00.20	9 115	238 447	.77 484	087 077	390 M51	319088 T042	51 2675
TOD 000	N38 31.38 W078 42.35	02.38 00.19	7 107	238 447	.77 484	088 079	390 M51	320087 T042	40 2635
PJAAE 001	N38 31.86 W078 39.34	02.39 00.19	2 105	290 447	.74 484	088 078	383 M50	320088 T038	2 2633
USAAY 001	N38 34.33 W078 23.78	02.40 00.17	12 93	290 447	.74 466	088 079	339 M44	326078 T019	12 2621
WEEDU 001	N38 35.90 W078 14.74	02.41 00.16	7 85	290 447	.74 458	087 080	307 M40	336056 H003	12 2609
SUPRT 001	N38 38.87 W078 05.56	02.42 00.15	8 78	290 447	.74 431	078 072	270 M34	346042 H010	14 2595
OOURR 002	N38 43.97 W077 49.66	02.44 00.13	13 290 64 447	.74 078 410 073	212 357036 M22		25 H023 2570		
*** WASHINGTON LOWER FIR ***									
KZDC		02.45 00.12	6 58			184			

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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

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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-GJS4505-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
KZID0141 KZDC0225 CODE/A68D44 OPR/GJS PER/C RMK/TCAS)