



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

December 7, 2020

Attachment 5 – Southwest Flight 278 Dispatch Release

OPERATIONAL FACTORS/HUMAN PERFORMANCE

DCA19IA036

Domestic Dispatch Release

Flight 278 from OAK to BUR

SOUTHWEST AIRLINES IFR DISPATCH RELEASE-1
FLIGHT 278

JEPP PLAN# 7977
12/06/18 1415Z

DEPART 1610Z ARRIVE 1720Z STE/ETE: 00+57/00+52 TAXI OUT: 00+10
KOAK/OAK: 0810L KBUR/BUR: 0920L TAXI IN: 00+03
" 1010C 1120C PROPOSED DEPARTURE TIME: 1610Z

REMARKS:

AC EQUIP - ELTS

ADDITIONAL FUEL FOR DESTINATION WEATHER

FLT: AC: NOSE: TYPE: CAP: ATOG: LM:
278 N752SW N752 B737-700W 143 132.9 L

DEPART: KOAK/OAK (9` ) ARRIVE: KBUR/BUR ( 778`) DIST: 0311 NM
T/O ALTN: ALTN 1: KLAS/LAS ALTN 2: KONT/ONT

FMS RTE OAKBUR01:

KOAK CNDEL4 CISK0..RDHOT ROKKR2 KBUR

KOAK: N3743.3 W12213.3

TOC: 310 WIND: 354/022 TEMP/DEV: M48/-02 FL CHANGE: 310

MEL/CDL:

<MEL> 38-1-02 (12/10/2018) POTABLE WATER SYSTEM/COMPONENT DEACTIVATED OR
ISOLATED [--> FWD LAV SINK <--]

	FUEL	TIME	PLAN	WEIGHT	STRUC	LIMIT
ENROUTE BURN	0049	00+52	OW	085465		
CONT/HOLD	0011	00+15	PYLD	025500		
DISP ADD	0027	00+35	ZFW	111000	MZFW	120500
ALTERNATE	0044	00+48	FOB	017200	MFW	046100
FAR RESERVE	0035	00+45	TOW	128200	MTOW	154500
MEL/CDL	0000		BURN	004900		
BALLAST	0000		LGW	123300	MLGW	128000
MINIMUM TAKEOFF	0166	03+15	MQTW	171000		

EXTRA 0006
PLAN TAXI OUT 0003 00+10
MINIMUM PLANNED 0175

TANKER 0000
MAXIMUM PLANNED 0175

PLAN ARR FUEL 0123 02+31 ARR STN CONT FUEL IMPACT: 15 MIN

AVG WIND P010 CRZ CI40

FUEL BURN ADJUSTMENT FOR 1000 LBS INCREASE IN TOW: 0013 LBS

TAKEOFF: 30

WIND	TEMP	QNH	RWY COND	BLDS	ENG	AI	FP	WT	LMT
000T00	11	29.95	5-GOOD	ON	OFF		1	154.5	S

Flight 278 from OAK to BUR

WIND	TEMP	QNH	RWY COND	BLDS	ENG/WNG	AI	ICE	FP	WT	LMT
120T08	11	29.92	DISP-WET	ON	OFF/OFF		NO	40	132.9	S
120T08	11	29.92	5-GOOD	ON	OFF/OFF		NO	40	132.9	S

ENROUTE:	APU	ENG	A/I			
ENROUTE (METHOD 1)	NORM	ON				
SEGMENT			TERRAIN	OVRWGT	WT	ALT
NO LIMITING TERRAIN					154.5	NONE

DESK: 61 PH: [REDACTED]

SIGNATURE: _____

----- FITNESS FOR DUTY STATEMENT -----

SIGNATURE: _____

SIGNATURE: _____

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX END OF RELEASE XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

JEPP PLAN# 7977
12/06/18 1415Z

WYPT	FREQ	AWY	IAS	MCH	ALT	TRP	MSA	MC	SEGD	FRMN	TTREM	ETA / ATA
LAT	LONG		TAS	G/S	TMP	WND	ALFT	TC	DTGO	SEGF	TTIME	SEGT
NAVAID	NAME				ATP	AWND		MH		AFOB		

[illegible]

TOC	CNDEL4	278	CLB	310	310	082	123	0065	14.7	00+40	 /
N3701.8	W12155.2	439	456	M48	354/022	136	0246	02.6	00+12	00+12	
..				...		121					

KTINA	CNDEL4	278	751	310	310	082	123	0053	14.1	00+33	 /
N3623.1	W12109.8	439	456	M48	354/022	136	0193	00.6	00+19	00+07	

Domestic Dispatch Release

Flight 278 from OAK to BUR

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..                ...      121      ....

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CISK0      CNDEL4  278  752  310  300  082  128  0053  13.5  00+26  .... / ....
N3541.9  W12027.9  440  453  M48  287/015  140  0140  00.6  00+26  00+07
..                ...      128      ....

-----

RDHOT      ..      279  754  310  300  075  128  0008  13.4  00+25  .... / ....
N3535.6  W12021.6  441  448  M48  256/017  141  0132  00.1  00+27  00+01
..                ...      130      ....

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TOD      ROKKR2  280  756  310  300  075  127  0034  13.0  00+21  .... / ....
N3509.6  W11954.6  442  442  M48  232/019  140  0098  00.4  00+31  00+04
..                ...      130      ....

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KBUR      ROKKR2  ---  ---  DSC  ---  ---  088  ---  12.4  00+00  .... / ....
N3412.0  W11821.5  ---  ---  ---  --- / ---  100  0000  00.6  00+52  00+21
..                ...      076      ....

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ALTITUDE/ROUTE OPTIONS

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..      ALTITUDE      FUEL      TIME      FMS RTE NBR
..      -----      ----      -----      -----
..      330      0049      00+51      OAKBUR01
..      290      0050      00+52      OAKBUR01
..      270      0051      00+53      OAKBUR01

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ATC FLIGHT PLAN

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(FPL-SWA278-IS
-B737/M-SDE2E3GIJ4RWZ/S
-KOAK1610
-N0439F310 CNDEL4 CISK0 DCT RDHOT ROKKR2
-KBUR0052 KLAS
-PBN/A1D101S2T1 NAV/RNVD1E1A1 RNP10 DAT/1FANSE2PDC REG/N752SW
"EET/KZLA0026)

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RAIM OUTAGE TIMES

NO RAIM OUTAGES

ALTERNATE DATA

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..      ELEV      MSA      DIST      FL      W/C      TIME      FUEL
T/O ALTN      -

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Flight 278 from OAK to BUR

DEST ALTN 2 - KONT/ONT 0944` 129 0069 050 M006 00+16 0015

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----- ENROUTE WIND AND TEMPERATURE SUMMARY -----
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WPT	FL250	FL290	FL310	FL330	FL370	FL410

KOAK						
LEJAY	02017M3802	02025M4602	01028M4902	36028M5002	34029M4904	32032M4901
CNDEL	02018M3802	02026M4602	01028M4902	00028M5002	34030M4903	32033M4902
PORTE	02018M3802	02027M4602	01029M4902	00029M4903	34030M4903	32034M4902
KTINA	04012M3802	01019M4604	35022M4802	35024M4801	33027M4802	31031M4902
CISKO	27009M3801	28013M4701	29015M4802	30017M4801	30024M4702	30029M4802
RDHOT	23013M3801	24016M4701	26017M4802	27017M4802	29024M4702	29030M4801
HONZK	20016M3801	22019M4702	23019M4802	25018M4703	27024M4702	28031M4802
PRPLE	19019M3802	20024M4602	22025M4804	24023M4703	26027M4703	26038M4802
XXELL	19021M3802	21028M4603	22029M4804	24027M4704	26029M4703	26039M4803
YUTOO	20022M3702	21030M4603	22032M4803	23030M4703	24039M4704	27035M4801
TRAVV	20024M3702	21033M4603	22034M4803	23033M4703	24040M4703	27036M4802
ROKKR	20025M3702	21034M4603	22036M4803	23034M4703	24039M4703	26036M4802
ZEPPE	20026M3702	21035M4602	21037M4803	23036M4703	24039M4705	26037M4802
IVINS	20027M3702	21036M4602	21038M4803	23037M4704	24040M4705	26038M4802
MIKEI	20029M3702	21037M4602	21040M4803	23039M4704	24040M4605	26038M4801
KBUR	21031M3702	21040M4602	21042M4804	23042M4804	24042M4704	26040M4802

34000	30000	24000	18000	12000	09000
24/034M47	21/036M48	20/023M35	21/019M21	18/017M08	16/015M03

----- ENROUTE RADIO FREQUENCIES -----

WYPT	LAT	LONG	STATION	SWA FREQ	ARINC FREQ
KOAK	N3743.3	W12213.3	OAK	130.70	130.4
KTINA	N3623.1	W12109.8	SJC	131.70	...
CISKO	N3541.9	W12027.9	...	...	...
RDHOT	N3535.6	W12021.6	BUR	...	128.90
KBUR	N3412.0	W11821.5	...	...	...

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX END OF FLIGHT PLAN XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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KOAK CNDEL4 CISK0..RDHOT ROKKR2 KBUR

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MEL/CDL	0000		BURN	004900		
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MINIMUM TAKEOFF	0166	03+15	MQTW	171000		

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PLAN TAXI OUT 0003 00+10
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120T08	11	29.92	5-GOOD	ON	OFF/OFF		NO	40	132.9	S

ENROUTE:	APU	ENG	A/I			
ENROUTE (METHOD 1)	NORM	ON				
SEGMENT			TERRAIN	OVRWGT	WT	ALT
NO LIMITING TERRAIN					154.5	NONE

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..                ...      128      ....

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..                ...      130      ....

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CISKO	N3541.9	W12027.9	...	...	...
RDHOT	N3535.6	W12021.6	BUR	...	128.90
KBUR	N3412.0	W11821.5	...	...	...

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX END OF FLIGHT PLAN XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX