



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

October 27, 2016

Attachment 3 – ACARS Dispatch Release MSP-RAP

OPERATIONAL FACTORS

DCA16IA200

* FLT 2845/07JUL SHIP 3233 MSP-RAP DOMESTIC RLS 1 *

DAL 2845/07JUL ETE- 1:17 RLS 1
JOHN-DENMAN DESK
CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS
 FLT DATE TIME MSG
HD 2845 07JUL2342 RL MSP
-88 PHONE-404-715-0088
MSP/KMSP/MINNEAPOLIS-ST PAUL I - RAP/KRAP/RAPID CITY REGL
SCHEDULED MSP/KMSP 0111Z-2011L - RAP/KRAP 0250Z-2050L
PLANNED 0111Z-2011L 0251Z-2051L
DEST ALTN: NONE

SHIP 3233 IFR BLK FUEL 19000
 MIN FUEL FOR T/O 12504

I HAVE RECEIVED WEATHER REPORTS AND
HD 2845 07JUL2342 RL MSP
D FORECASTS FOR THE
DESTINATION AND ALL REQUIRED ALTERNATE AIRPORTS. I BELIEVE
THE PLANNED FLIGHT CAN BE COMPLETED SAFELY AND I CONSIDER
MY PHYSICAL CONDITION SATISFACTORY FOR THIS FLIGHT:

CAPTAIN 1 SIGNATURE/PRINTED NAME/CREW BASE

HD 2845 07JUL2342 RL MSP

CAPTAIN 2 SIGNATURE/PRINTED NAME/CREW BASE

I CONSIDER MY PHYSICAL CONDITION SATISFACTORY FOR THIS FLIGHT

FIRST OFFICER 1 SIGNATURE/PRINTED NAME/CREW BASE

FIRST
HD 2845 07JUL2342 RL MSP
OFFICER 2 SIGNATURE/PRINTED NAME/CREW BASE

* FLT 2845/07JUL SHIP 3233 MSP-RAP DOMESTIC RLS 1 *

CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS
FLT DATE TIME MSG
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ACARS USE 2845/07 LOCAL DEP DATE IS 07JUL

FLIGHT DISPATCH RELEASE ACKNOWLEDGEMENT - CAPTAIN COPY

I CONSIDER ALL FACTORS INCLUDING MY OWN PHYSICAL
CONDITION SATISFACTORY FOR THIS FLIGHT.

JOHN-DENMAN DESK-88 PHONE-404-715-0088
DAL 2845/07JUL ETE- 1:17 RLS
HD 2845 07JUL2342 RL MSP
1
MSP/KMSP/MINNEAPOLIS-ST PAUL I - RAP/KRAP/RAPID CITY REGL
SCHEDULED MSP/KMSP 0111Z-2011L - RAP/KRAP 0250Z-2050L
PLANNED 0111Z-2011L 0251Z-2051L
DEST ALTN: NONE

TARGET LANDING WINDOW *** 0231Z - 0241Z ***

HD 2845 07JUL2342 RL MSP

IFR ICAO FLIGHT PLAN
SHIP 3233 A320/M-SDE2E3FGIRWZ/S
PBN/A1B1C1D1O1S1T1 NAV/RNVD1E2A1 REG/N333NW
SEL/ALBC CODE/A3A235
ELEVATION MSP/KMSP 842 FT RAP/KRAP 3204 FT

KMSP DWN6 ABR J158 RAP DCT KRAP

FL 360 T-O-C WINDS 24055 ISA P08
ETE- 1:17 NM 440 TAS 459
SCHEDULED GATE 05
CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS
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PASSENGERS 129
CARGO 0
ZERO FUEL WT 121567
BLOCK FUEL 19000
MIN FUEL FOR T/O 12504
RAMP WT 140568
TAKEOFF GROSS WT 140108
FMS RESERVE FUEL 3647
LANDING WT 131804

HD 2845 07JUL2342 RL MSP
COST INDEX 37

FLIGHT PLAN FUEL REQUIRED DISCRETIONARY
TIME/BURN TIME/BURN

TAXI
HD 2845 07JUL2342 RL MSP
:19/ 459
TRIP MSP/KMSP-RAP/KRAP 1:17/ 8305
ALTN: NONE
RESERVE FUEL :45/ 3647
CONTINGENCY FUEL :08/ 552 :07/ 483
TANKER 1:21/ 5554

HD 2845 07JUL2342 RL MSP

MIN FUEL FOR T/O * 12504 *
***** *****
BLOCK FUEL * 19000 *

CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS

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ENROUTE FUEL PLAN

*** PLANNED LNDG FUEL AT DEST *** 10236 ***
*** MINIMUM LNDG FUEL AT DEST *** 3647 ***
*** AVAIL DELAY FUEL *** 6589
WHICH IS 95 MINS AT FL150/CLEAN

HD 2845 07JUL2342 RL MSP

CONTINGENCY FUEL ANALYSIS

95PCT -TIME/ N/A

99PCT -TIME/ N/A

TAXI IN :04/ 96

HD 2845 07JUL2342 RL MSP

FIX LIST KMSP INUNE DWN ABR RAP KRAP

MEL ITEMS FOR SHIP NUMBER 3233

01 M31-31-00E - CLASS II MTC MSG ON ECAM STATUS PAGE - FAULTS

IND BY ACMS

EXPIRES 25OCT16 AT 2359Z

02 M31-55-01 - SYSTEM DATA ACQUISITION CONCENTRATOR UNITS

/S

HD 2845 07JUL2342 RL MSP

DAC/

EXPIRES 10JUL16 AT 2359Z

03 M33-10-01A - COCKPIT AND INSTRUMENT PANEL LIGHTING SYSTEM

EXPIRES 11JUL16 AT 2359Z

04 M25-28-01A - STORAGE BIN / CABIN/GALLEY/LAVATORY STORAGE

COMPT/CLOSETS

EXPIRES 17JUL16 AT 2359Z

CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS

FLT DATE TIME MSG

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** DISPATCHER REMARKS **

01 CITY TANKERING FOR COST.

*****FLIGHT OPERATIONS AND MAINTENANCE REMARKS*****

3233 **FLIGHT OPS AND MTC REMARK**ACFT EQUIPPED FOR EXTENDED

OVERWATER OPERATIONS./C.TAYLOR/MGRNAVDATA/03APR2013

HD 2845 07JUL2342 RL MSP

/LV

3233 FOR OPERATIONAL CONTACT WITH DISPATCH/MCC - ATL RADIO

PHONE NO. 404-715-0160

3233 DRY ICE AIRCRAFT AND COMPARTMENT LIMIT IS 100KG. //PER

M.BIHUNIAK-TECH MGR//RB02AUG13

CITY PAIR REMARKS

NONE

HD 2845 07JUL2342 RL MSP

-

MSP -AIRPORT REMARKS

MSP 01

FDC NOTAMS 6/1318 / 1319 / 1320 REFERENCE DEPARTURES WITH
MSP DME OTS. MSP DEPARTURE WILL PROVIDE RADAR VECTORS AS
NEEDED TO AIRCRAFT WITHOUT GPS. //PER SR DD BRUCE
HAAG//RB06JUL16

MSP 03

T/O AND LND FLOW CHNG DUE TO CNVRG OPS. IF ABLE PLZ ACCEPT
ASSIGNED RWY INCLDG 3

HD 2845 07JUL2342 RL MSP

30/767 ON 30R. DEPT A/C BE READY FOR

IMMEDIATE T/O. IF UNABLE Advice ATC ASAP. /D.

ODEN/FLTOPS/07MAR16/LV

RAP -AIRPORT REMARKS

RAP 01

AIRPORT OPERATIONS - 605-593-3419 (PILOT/DISPATCHER USE
ONLY) //BEH/OCC//

RAP 02

IF NEEDED THE NBR FOR KRAP ASOS IS 605-393-2832/DC/FLTCTRL

RAP 03

FICON INFOR

CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS

FLT DATE TIME MSG

HD 2845 07JUL2342 RL MSP

MATION 605-393-0699/WEBSITE WWW.RCGOV.ORG

RAP 05

AIRPORT TOWER HOURS 0600-2200L. 10-7 UPDATE PENDING.

//YORK/FLTOPS//RB26AUG15

END

-OVERFLT AUTHORIZATIONS

NO OVERFLT AUTHORIZATIONS APPLICABLE TO PLANNED ROUTE

HD 2845 07JUL2342 RL MSP

CDR SUMMARY

P1 BURN 8304 DIST 441 TIME 01:17 ON 10236 FL 360

KMSP.DWN6.ABR.J158.RAP.KRAP

KMSP/FL360

MIN FUEL FOR T/O *11951* WITH NO DELAY FUEL

W1 BURN
HD 2845 07JUL2342 RL MSP
8622 DIST 453 TIME 01:20 ON 9919 FL 360
KMSP.SCHEP8. SCHEP.OTG.FSD.J82.RAP.KRAP
KMSP/FL360
MIN FUEL FOR T/O *12269* WITH NO DELAY FUEL

W3 BURN 8901 DIST 509 TIME 01:23 ON 9640 FL 360
KMSP.KBREW7.FAR.DPR.RAP.KRAP
KMSP/FL360
MIN FUEL FOR T
HD 2845 07JUL2342 RL MSP
/O *12548* WITH NO DELAY FUEL

S3 BURN 9077 DIST 486 TIME 01:26 ON 9464 FL 360
KMSP.ORSKY8. ORSKY.ONTIJ.J16.FSD.J82.RAP.KRAP
KMSP/FL360
MIN FUEL FOR T/O *12724* WITH NO DELAY FUEL

N1
CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS

FLT DATE TIME MSG
HD 2845 07JUL2342 RL MSP
BURN 9108 DIST 531 TIME 01:26 ON 9433 FL 360
KMSP.GEP.J25.BRD.FAR.DPR.RAP.KRAP
KMSP/FL360
MIN FUEL FOR T/O *12755* WITH NO DELAY FUEL

N2 BURN 10638 DIST 687 TIME 01:43 ON 7903 FL 360
KMSP.GEP.J21.DLH.GFK.DPR.RAP.KRAP
KMSP/FL360

MI
HD 2845 07JUL2342 RL MSP
N FUEL FOR T/O *14285* WITH NO DELAY FUEL

SCHEDULED MSP/KMSP 0111Z-2011L - RAP/KRAP 0250Z-2050L
PLANNED 0111Z-2011L 0251Z-2051L

HD 2845 07JUL2342 RL MSP

PLND PLND TAKEOFF ETE ETA PLND PLND
OUT OFF ON IN
0111Z 0130Z Z 1:17 Z 0247Z 0251Z
2011L 2030L TZDIF MINUS 1.0HRS L 2047L 2051L

HD 2845 07JUL2342 RL MSP

RTE LAT MAG IAS/M GS ZT TRMG ZF
FMS LONG TRUE FL ZD ETA ATA PRMG

TAXI N 4452.9 1:17
KMSW W09313.3 CLB 18.5
HD 2845 07JUL2342 RL MSP

DCT N 4501.0 M282 369 :09 1:08 1.9
INUNE W09359.5 T284 CLB 34 16.6

DCT N 4505.2 M282 394 :03 1:05 0.5
DWN

CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS

FLT DATE TIME MSG
HD 2845 07JUL2342 RL MSP
W09427.2 T282 CLB 20 16.1

* T-O-C * N 4516.8 M271 261/.78 416 :13 :52 1.8
W09630.6 T278 FL360 88 14.3

** COST INDEX 37 **

HD 2845 07JUL2342 RL MSP

DCT N 4525.0 M271 260/.79 393 :12 :40 1.1
ABR W09822.1 T278 FL360 79 13.2

** DAL POSN RPT **

** FIR KZDV (DENVER) ** N4429.9 W10125.6 **

* T-O-D * N 4426.3 M241 260/.79 398 :23 :1
HD 2845 07JUL2342 RL MSP
7 2.1
W10136.7 T248 FL360 150 11.1

** COST INDEX 37 **

J158 N 4358.6 M241 271 :12 :05 0.2
RAP W10300.7 T248 DES 66 10.9

** SEE ENROUTE NOTAMS SECTION **

HD 2845 07JUL2342 RL MSP

DCT N 4402.7 M322 262 :05 :00 0.7
KRAP W10303.4 T335 DES 5 10.2

ENRO

CSR 2023 DELTA AIRLINES HISTORY DETAIL RECORDS

	FLT	DATE	TIME	MSG																	
HD	2845	07JUL	2342	RL	MSP																
UTE FORECAST WINDS																					
FIX	CRZ	FL	FL240	FL300	FL340	FL390															
	TROP	SAT	TAT	SAT	TAT	SAT	TAT	SAT	TAT	SAT	TAT	SAT	TAT	SAT	TAT	SAT	TAT	SAT	TAT	SAT	TAT
ABR	36	29071	29065	29078	29079	28063															
	36	-51	-23	-26	005	-42	-13	-49	-21	-52	-24										

HD 2845 07JUL2342 RL MSP

FORECAST WINDS *2210Z* - NEXT UPDATE AT 0450Z

DESCENT FORECAST WINDS

35000 30000 25000 20000 15000 10000 05000

30075 29067 29053 29046 28040 27031 33013

HD 2845 07JUL2342 RL MSP

FIX PAIRS

00 NONE

ALTERNATE AND ENROUTE AIRPORT REMARKS

ENROUTE NOTAMS

RAP 001 0 07JUL16 1820

07/005 NAV VOR NOT MNT 1607080601-1607081200