

**APPENDIX M**

**LOFT APPROVAL  
&  
DESCRIPTION**



U.S. Department  
of Transportation  
Federal Aviation  
Administration

FLIGHT STANDARDS DISTRICT OFFICE 19  
One Thorn Run Center, Suite 200  
1187 Thorn Run Extension  
Coraopolis, Pennsylvania 15108

April 1, 1993

Captain William Mathis  
Director - Flight Operations & Standards  
USAir, Inc.  
Pittsburgh International Airport  
P.O. Box 12346  
Pittsburgh, Pennsylvania 15231-0346

Dear Captain Mathis:

This letter is in reference to your letter of March 29, 1993, requesting initial approval for USAir's Recurrent Loft program. Initial approval is granted to these programs with an effective date of April 5, 1993. The Recurrent Loft Flight Training Modules are approved as listed in the Flight Operations Training Manual for the following programs:

- MD-80 Recurrent Loft
- DC-9 Recurrent Loft
- B-727 Recurrent Loft
- ✓ B-737-200 Recurrent Loft
- B-737-300/400 Recurrent Loft
- B-757/767 Recurrent Loft
- F-28 Recurrent Loft
- F-100 Recurrent Loft

The expiration of this initial approval is April 30, 1995. This office requests USAir, Inc. provide at least seven days advance notice of any training to be conducted under this curriculum to allow for evaluation of the training in accordance with FAR 121.405(b) and (c).

Approval is also granted for each loft scenario as submitted with your request. Please ensure that the Recurrent Loft Scenario numbers are listed in the FOM.

Approval of this recurrent program is also based on the understanding that all USAir pilots will receive training in LDA approaches by May 1, 1994.

Sincerely,

David L. Bowden  
Principal Operations Inspector

M-1

# USAir

JANUARY 18, 1994

Date: ALL B-737-300/400 CHECK PILOTS  
To: FLIGHT MANAGER - B-737-300/400  
From:  
Subject: RECURRENT LOFT (RLF) B-733-RLF-2

*Interoffice  
Correspondence*

Enclosed is LOFT 394 to be used effective February 1, 1994. A slightly different scripting format is utilized this year which will be common to all aircraft types at USAir. The 1993 LOFT was designed to be a low threat introductory effort to integrate CRM topics into our training environment. LOFT 394 will provide an enhanced briefing and LOFT scenario to improve upon our beginning efforts. Some highlights of these enhancements are as follows.

- A. Briefing guidance which provides particular discussion topics pertinent to the LOFT scenario.
- B. Increased workload. To begin to really examine certain aspects of CRM training, all aircraft types were directed to create more complex situations. To that end, a deicing event is required at CLT, and a single engine taxi with an inoperative APU is required at GSO.
- C. CRM is CREW resource management. To emphasize this, a Flight Attendant is involved in an abnormal procedure.
- D. Specific guidance for using "ATC CHATTER" and sending ACARS messages is provided for use in the PIT simulators.
- E. Introduction to LDA and FMC visual approaches in RLF training.
- F. More PT type events are included in the first two legs of the LOFT. The time required to do this is three hours. Therefore an additional ten minute break is required between legs one and two.
- G. "TRAIN THE WAY YOU FLY". Real world vectoring will be utilized during the CAT II approach. In order to comply with ATC speed requests, the crew will need to delay configuring the final landing gear and flaps. Both the briefing and LOFT scenario scripting will facilitate this.

LOFT 394 is intended to create situations where CRM skills such as workload management, team building, and perhaps conflict resolution will be required to complete the LOFT. It is imperative that the Check Pilots be thoroughly familiar with the briefing and all aspects of the scripted scenario to effectively administer this LOFT.

M-2

## RLF 394 BRIEFING

### Paperwork and Preflight Video (10 min.)

### Team Building - Captain Briefing (10 min.)

- One of the goals of the 1993 RLF was to emphasize the importance of the Captain's briefing. The purpose of this briefing is to create an environment where all crew members are encouraged to bring operational concerns to the Captain. Captain can you think of an example of safety of flight items that a Flight Attendant might relay to you? (How about the speed brakes up for takeoff?)
- Can you see how giving a good briefing can enhance your pilot-in-command authority and make your decision making process easier? (Crew members bring information to you because you are in command, and the more information you have, the easier it is to solve problems.)
- Have you changed the way you brief crew members in the last year?
- Do you know that Flight Attendants and First Officers expect a briefing from you?
- First Officer, have you noticed any improvements in this area?
- What briefing items do you appreciate or dislike?
- Are Captains briefing the Flight Attendants more now than a year ago?

### Deicing Procedures (15 min.)

- First Officer, the temperature is 50° F and a light rain is falling as you begin your preflight inspection of the aircraft exterior. What additional precautions must you take during this inspection? (Inspect the top of the wing from inside the main cabin for ice accumulation. Pilot's Handbook page 3-51-2,3)
- You notice ice is forming on the cold soaked wings, and determine that deicing is required. How would you handle a situation where the Captain felt it was not necessary? (Discuss inquiry and assertiveness.)
- Captain can you see how this assertiveness should be received in a positive way as a genuine attempt to help you decide to deice the airplane, and not as an affront to your authority?
- First Officer, can you see the need to present your opinion in a professional and diplomatic manner?
- Would the Pilot's Handbook and Flight Operations Manual (FOM) be an effective resource to resolve this conflict? (Specific requirements for deicing are set forth.)

### Deicing Procedures (cont'd)

- The Captain decides to deice the airplane, and you taxi out in the aforementioned weather. Are there any special procedures to follow? (Engine anti-ice must be on for taxi, and a pretakeoff check must be made of the wings.)
- Do you understand that on the 737 this inspection is the same regardless of whether or not you have exceeded the holdover time?
- Can you see how computation of holdover times is really only a guide for estimating anti-icing fluid effectiveness on the 737? (You do the same inspection whether or not you have exceeded the holdover time.)
- Your aircraft today will have snow on the wings when you perform a "Receiving Check". There will also be 1/4" of slush on the runway. It will be assumed that deicing has been requested by the Captain. You as a crew must decide how to proceed based on actual weather conditions. **THIS AND ALL OTHER SEGMENTS OF THE LOFT ARE DESIGNED TO ALLOW YOU TO PROCEED TO YOUR DESTINATION. PLEASE KEEP THIS IN MIND AS YOU MAKE YOUR DECISIONS.**

### WORKLOAD MANAGEMENT (10 Min.)

- \* Emergency Situations create very high workload environments for flight crew members. The level of stress can vary greatly depending on the emergency. Human beings do not always function at their best in these situations. It may well take the combined efforts of all crew members to safely deal with an emergency. One of the best tools to manage your workload in this situation is the proper use of the EMERGENCY checklist. We use the challenge-response-response method while completing this checklist.
- Captain, with this in mind, describe how you would handle an engine fire.
- How would you handle a situation where you had to reject a takeoff for an engine fire, and decided to evacuate the airplane? (Discuss the importance of considering flap extension prior to shutting down the engines to aid in passenger evacuation over the wings.)

## TRAIN THE WAY YOU FLY - LDA APPROACHES (15 min.)

It is common practice for ATC to request a speed higher than final approach speed until reaching the outer marker. Our profiles in Chapter 18 provide configuration guidance for "ideal" ATC vectoring. Page 18-40-1 of the Pilot's handbook addresses the discretion the crew may use in delaying extension of the landing gear and final landing flaps to accommodate ATC speed requests, or in the event of capturing the glideslope well outside the outer marker. (Brief discussion of this page.)

- In keeping with our "Train the Way You Fly" philosophy, you will be asked to maintain a specific speed as long as feasible during an ILS approach today. Feel free to delay configuring the aircraft as long as you are comfortable, keeping in mind that you are required to be stabilized and on proper speed by 1,000 AGL.
- Due to the timing that is required on many non-precision approaches, can you see how this configuration delay would not be suitable for these types of approaches.

Instrument approaches create an increase in cockpit workload. Confusion about approach procedures can increase workload further. We will be shooting the LDA DME 18 approach at DCA today. Is this a straight in or circling approach? (By definition, it is circling because the final approach course is more than 30° of the runway center line.)

- Can you use straight in landing minimums? (yes)
- Do we need circling weather of 1,000 foot ceiling and three miles visibility to begin this approach? (no)
- This approach has a glide slope. Is it a precision approach? (No, because its minimum is published as an MDA.)
- If you use the autopilot APR mode to couple this approach, and set the MDA in the altitude window, will the autopilot level the aircraft off at the preselected altitude? (No, because when the glide slope is coupled, the altitude capture function of the AFDS is inhibited.)
- Can you see that good workload management would involve a thorough approach briefing, resolving any procedural conflicts prior to beginning this approach?

## LOFT SCENARIO BRIEFING (15 MIN.)

- You are to perform a Receiving Check on an aircraft that the F/O has reported to have snow on the wings.
- You will be parked at gate C-19 in CLT. You will be pushed back and told to taxi to runway 18L. Visual cues for taxi are limited. (Discuss the taxi route at both CLT and GSO. Crew should feel free to ask for "progressive". In the PIT simulator the jetway at GSO where we park will be identified with red lights.
- There are no ground personnel in the visual, so just simulate all wave off and parking events.
- TCAS is inop.

PITTSBURGH SIMULATOR OPERATING GUIDE FOR RLF 394  
(Complete all items prior to the crew being seated.)

- A. Press "Sim Control" button on lower left side of the Instructor's Panel.
- B. Line select "Slews and Pushbacks" on line 18.
- C. Line select "90 degree turn" on line 12 until "Capt." does not appear or the word "NO" does appear.
- D. Select page two or three of the "Environment" page and insert a winds aloft altitude of 20,000 feet, and a wind direction 230 degrees at a speed of 80 knots. (This tail wind will reduce the enroute time during the GSO-DCA segment. Climb performance will deteriorate as you climb through 20,000 feet, but eventually return to normal.)
- E. Press the "LOFT" button on the lower center control panel.
- F. Line select LOFT 394.
- G. Line select CLT weather on the top left of the screen.
- H. Line select "Forward Entry Door" and "Cargo Door". (This indicates these doors are open as normally occurs at the gate.)
- I. Input a fuel load of 15,500 lbs. and a gross weight of 115,500 lbs. on the top right hand side of the same screen.
- J. Press the "Gate" button on the lower instructor's control panel. You are now parked at gate C-19 at CLT.
- K. Allow the crew to be seated and refer to the scenario scripting to conduct the LOFT. Line selecting certain programmed items such as "ATC Chatter" or "ACARS Messages" will put a different page on the screen. Once you have utilized the appropriate function of this page, use the "PREVIOUS PAGE" key located on the left side of the numbered keys on the lower left control panel to return to the main LOFT menu page. (These functions are available in the PIT simulators only.)
- L. The logbook should contain an MEL sticker for the inoperative TCAS. During the LOFT if an item becomes inoperative, do not write this up. Tell the crew to simulate all appropriate logbook and maintenance action has taken place and they need only check the MEL book for any actions required on their part.

M-6

**CHARLOTTE 300 #3**  
**SIMULATOR OPERATING GUIDE FOR RLF 394**  
**(Complete all items prior to the crew being seated.)**

- A. Press "TOTAL RESET"
- B. Press "LOFT INDEX"
- C. Line select 20 (upper CRT) and input total fuel of 15,500#.
- D. Line select 25 (upper CRT) and input gross weight of 115,500#.
- E. Line select LOFT scenario 394 (upper CRT).
- F. Line select 01 (lower CRT). This presets CLT weather for departure. Select "RAMP" on right side of upper CRT to position simulator to CLT gate C-19.
- G. Line select "Forward Door Open" and "Cargo Door Open". (This indicates these doors are open as normally occurs at the gate.)
- H. Allow the crew to be seated and refer to the LOFT scenario scripting to conduct the loft.
- I. The logbook should contain an MEL sticker for the inoperative TCAS and ACARS. During the LOFT if an item becomes inoperative, do not write this up. Tell the crew to simulate all appropriate logbook and maintenance action has taken place and they need only check the MEL book for any actions required on their part.

**NOTE:** To return to LOFT scenario presets at any time, select "LOFT INDEX" key, line select "LOFT SCENARIO 394" (upper CRT), line select 01 (lower CRT).

**CHARLOTTE 300 #2**  
**SIMULATOR OPERATING GUIDE FOR RLF 394**  
**(Complete all items prior to the crew being seated.)**

- A. Press "TOTAL RESET"
- B. Use keyboard "PAGE" button then #1 and INSERT
- C. Line select #8.
- D. Line select #2, Input fuel of 15,500#.
- E. Line select#8, input GW of 115,500#.
- F. Line select LOFT 394, second screen appears, line select #1 again to set CLT weather. Press RWY HDG to position simulator at CLT gate C-19.
- G. Line select "Forward Door Open" and "Cargo Door Open". (This indicates these doors are open as normally occurs at the gate.)
- H. Allow the crew to be seated and refer to the LOFT scenario scripting to conduct the loft.
- I. The logbook should contain an MEL sticker for the inoperative TCAS and ACARS. During the LOFT if an item becomes inoperative, do not write this up. Tell the crew to simulate all appropriate logbook and maintenance action has taken place and they need only check the MEL book for any actions required on their part.

**NOTE:** To return to LOFT scenario presets at any time, use keyboard "PAGE 1" and insert line select #8, line select #1.

M-8

# RECURRENT LOFT

Leg 1:

LOFT 394  
1/18/94

Departure Data	Problem Highlights	Arrival Data
Stn <u>    </u> Flight <u>394</u> Gate <u>    </u> Fuel # <u>    </u> GW # <u>    </u> Route <u>CLT - GSO</u>	1. 2. 3.	

Segment	Instructor Inputs	Communications	Weather	Probable Actions
Approach	<ul style="list-style-type: none"> <li>- Select Approach Chatter. (PIT only)</li> <li>- On downwind, select Autothrottle Fail and APU Fail.</li> <li>- Prior to switching to tower frequency delete approach chatter.</li> <li>- Do not use tower chatter.</li> </ul>	<p style="text-align: center;"><i>GSO</i></p> GSO: "Fly heading xxx°, descend to 4000, vectors ILS 23." GSO: (When turning base leg) "Slow to 170 knots." GSO: "Your position is six miles northeast of BRANT, turn left heading 270, maintain 4,000 until established. You are cleared for the ILS 23 approach. Maintain 170 knots as long as feasible." GSO: "Touchdown RVR 1200. Rollout RVR 800, runway condition dry." GSO: "Contact tower at BRANT on 119.1." Twr: "Wind 140/10 cleared to land runway 23."	ATIS _____ WIX ¼F 30/30 140/10 29.85 ILS 23 approach	
Landing or Miss	At 50 feet AGL, after Captain says "LANDING", give rejected landing.	Twr: (at 50 feet AGL) "Go around, there is a truck on the runway." Twr: "Turn left 090 maintain 3000, contact Departure on 124.35."		Captain's missed approach
Landing or Miss	Provide vectors for another ILS runway 23 approach	Dept: (When turning base leg) "Maintain 170 knots." Dept: "USAir 394, you are 5 miles N.E. of Brant. Maintain 3000 until established, turn left heading 270, Cleared ILS 23 approach, contact Tower at Brant on 119.1." Twr: "Wind 140/10, runway 23 cleared to land" Twr: "Contact Ground on 121.9."		
Taxi	<ul style="list-style-type: none"> <li>- Increase visibility for taxi.</li> <li>- Give specific instructions to taxi to gate 48. (Gate 47 in sim #2)</li> <li>- Open doors.</li> <li>- Stop and Change Video Tape.</li> <li>- Clear autothrottle Fail.</li> </ul>	Grd: "Taxi to your gate via Golf and Mike."  Instructor: Advise F/O that if this was a real flight, a walkaround inspection (Predeparture Aircraft Check) would be required.		If second APU start is attempted, call for a ground observer.
Parking				Ensure crew checks IRS accuracy prior to shutting down the IRS.

USAIR PILOT RECORDS  
 13:03  
 10/26/94

39

# RECURRI T LOFT

LOFT 394

1/18/94

Leg 2:

Departure Data	Problem Highlights	Arrival Data
Stn <u>GSO</u> Flight <u>394</u> Gate <u>48 or 47</u> Fuel <u>18,500 #</u> GW <u>117,300 #</u> Route <u>GSO - DCA</u>	1. APU Inop 2. Door seal leak reported by Flight Attendant	

Segment	Instructor Inputs	Communications	Weather	Probable Actions
Cruise	Select Center chatter (In PIT only give a frequency change while inputing the malfunction. This will cover up the air noise in the cockpit.) Select Slow Pressurization Leak when 40 miles south of RIC	F/A: FA reports air noise around Aft Service Door. Center: "Descent and maintain FL230, I'll work on lower." Center: "Give left turn off airway and descent to 10,000. RIC altimeter, 29.98. When level at 10,000 give direct IRONS."		Abnormal rather than an Emergency Descent, should be started to 10,000 ft.
Descent		Center: (20 miles south of IRONS) "Contact DCA approach on 124.7."		
Approach	- Select Approach Chatter. (PIT only). - Advise gate H5 via ACARS (message #5) or radio.	DCA: "Depart IRONS heading 350° vectors for LDA DME RW18 approach. Descend and maintain 3000." DCA: "Your position is four miles west of FERGI, turn right heading 110, maintain 3,000 until established, you are cleared for the LDA DME runway 18 approach." DCA: "Contact DCA Tower 119.1 at BESSE."	ATIS _____ 80vc 2 38/36 270/10 29.98 LDA DME RW 18 approach.	Crew should brief correct LDA approach.
Landing	- Remove all Chatter (PIT only). - When aircraft clears runway, terminate LOFT.	Twr: "Wind 270/10 runway 18 cleared to land."		

MFO

# RECURR :T LOFT

Leg 2:

LOFT 394  
1/18/94

Departure Data	Problem Highlights	Arrival Data
Stn <u>GSO</u> Flight <u>394</u> Gate <u>48 or 47</u> Fuel <u>18,500#</u> GW <u>117,300 #</u> Route <u>GSO-DCA</u>	1. APU inop 2. Door seal leak reported by Flight Attendant	

Segment	Instructor Inputs	Communications	Weather	Probable Actions
Preflight	<ul style="list-style-type: none"> <li>- Start Video Tape</li> <li>- Select GSO weather &amp; GSO gate.</li> <li>- Do not enter fuel (18,500 #) or gross weight (117,300#) until crew asks to be fueled.</li> <li>- Close all A/C doors</li> <li>- If crew asks, send ACARS message #3 for Takeoff Alternate RDU (PIT only)</li> <li>- Send APU MEL via ACARS (message #2) or radio.</li> </ul>	Clearance: "CAF maintain 5000, expect FL250 within 10 minutes, Departure 124.35, Squak 0514."  Agent: Weight and Balance (NO GSI message in CLT only)  F/A: Seated & Stowed message.	ATIS _____ WIX ¼F 30/30 140/10 29.85 RW23	T/O alternate (RDU)  If crew asks, give RDU weather: 15 ovc 3F 33/30 calm 29.83
Pushback	<ul style="list-style-type: none"> <li>- Ensure push turns nose away from Captain. (Pushback left in sim #2)</li> <li>- Increase visibility for taxi if necessary.</li> </ul>	Grnd Crew: Start #1 engine at gate, then push back. Ramp is congested. Unable to crossbleed start on ramp. (Maintenance refuses to start #2 engine due to proximity of external air access panel and #2 engine intake.)		Crew should contact ground for crossbleed start location
Start				Crew should consult P.H. for abnormal start.
Taxi	<ul style="list-style-type: none"> <li>- Select Ground Chatter (PIT only)</li> <li>- Send "NO GSI" message #4 via ACARS (PIT only)</li> <li>- If crew asks, send ACARS message for takeoff alternate RDU. (PIT only)</li> </ul>	Grnd: "Taxi to runway 23 via Mike and Golf." (Lima and Golf in sim #2) Crossbleed start permitted on taxiway Golf.  Grnd: "Runway 23 RVR now 600/600/600."		Crew consults Pilot's Handbook for crossbleed start procedure
Takeoff	<ul style="list-style-type: none"> <li>- Set 600 RVR for takeoff</li> <li>- Remove all Chatter (PIT only).</li> </ul>	Twr: "Wind 140/10, turn left heading 090°, runway 23 cleared for takeoff." Twr: "Contact departure control 124.35."		
Climb	<ul style="list-style-type: none"> <li>- Select Departure Chatter. (PIT only)</li> <li>- Select DCA weather</li> </ul>	Dept: "Radar contact, turn left heading 040°, intercept J14 & maintain 13,000." Dept: "Contact Washington Center on 124.05" Center: Issue appropriate frequency changes and climb clearances to FL 250. (Center frequencies: 128.5, 127.35, 126.2)		

3

TOW 394 A/C582 2018 \*CAPT/SCC APPR\*  
 T/O CLT WIND 1615 OAT 28 EAI  
 FLP \*RW18L SLUSH1/4 \*RW18R SLUSH1/4  
 01 -MAX 137200 138500  
 05 -MAX 138100 138100  
 LND GSO WIND 1410 OAT 30  
 FLP RW23 DRY  
 30 114000  
 40 114000  
 \*RW18L MTOW 117000 -- LND LMT\*

FINAL W/B CLT 394/09JAN A/C582 2020  
 OPR WT 73500  
 PAX WT 23680 F 8 Y120  
 CGO WT 3200  
 GRS WT W/O FUEL 100380 ZFW 106500 \*OK\*  
 FOB 15000  
 GTOW 115380 MTOW 117000 \*OK\*  
 MIN F 465 MAX F 5000 PAX 128  
 TTLLOAD IN F 2000  
 O/O MAC 20 STBLZR 4.7  
 OAT 28 ELV 749  
 FLP RWY 18L RWY 18R  
 VIM V1 VR V2 VIM V1 VR V2  
 01 119/137/139/148 119/137/139/148  
 05 119/131/133/142 119/131/133/142

DATA\WP\TOWWMSG

M-72

FLT 394 CLT /GSO ATN TRI / ETD 21.30 PAY 0251 RC 3461  
AC 582 8737-300 MSC/E35 /290 ETE 00.18 LGW 1101 RW 1131  
RTE 1 0078NM TAS 351 GS 365 WIND P006 ELV CLT 00749  
GSO 00926

FUEL TIME  
CLT -GSO .....0030 00.18 APPR 006  
A. N TRI/ ..0033 00.27 0124NM FL220  
HOLD 15000 FT.0044 00.50  
RESERVE .....0040 00.45  
TAXI.....0003  
TOTAL.....0150  
CONTNGCY/XTR..0000 00.00  
TANKER FUEL...0000 00.00  
MINIMUM FUEL..0150

MEL OR CDL-  
MEL 23-9 ER ACARS INOP  
MEL 34-40 TCAS INOP

PHONE 747 5619

IFR ROUTING  
CLT. CLT070..GSO205.GSO  
ATC FILED ALTITUDE 11

I HEREBY ACKNOWLEDGE RECEIPT OF THIS FLIGHT PLAN AND NECESSARY ATTACHMENTS AND CONSIDER ALL CONDITIONS INCLUDING MY PHYSICAL CONDITION SUITABLE FOR THIS FLIGHT. I HAVE ADEQUATE KNOWLEDGE OF ALL FACTORS AFFECTING THE ROUTE WEATHER NAVIGATION COMMUNICATIONS TERRAIN OBSTRUCTIONS AND ALL APPLICABLE PROCEDURES AND REGULATIONS.

.....  
CAPTAIN'S PRINTED NAME

.....  
EMPLOYEE NUMBER

.....  
CAPTAIN'S SIGNATURE

RC 3461 PLAN 0101 PAGE 01 OF 01

10NOV1303 0037 DUI

M-13

FFXFRUS

DATE 11/10/93

FLT 394 CLT /GSD ATN TRI / ETD 21.30 PAY 0251 RC 3461  
 582 8737-300 MSC/E35 /290 ETE 00.18 LGW 1101 RGW 1131  
 R12 1 0078NM TAS 351 WIND P006 ELV CLT 00749  
 GSO 00926

FUEL TIME  
 CLT -GSD .....0030 00.18 AFPR 006  
 ALTN TRI/ ..0033 00.27 0124NM FL220  
 HOLD 15000 FT.0044 00.50  
 RESERVE .....0040 00.45  
 TAXI.....0003  
 TOTAL.....0150 TANKER FUEL.....0000  
 CONTNGCY/XTR..0000 00.00 TANKER TIME.....00.00  
 MINIMUM FUEL..0150 TANKER SAVINGS...\$ 0.

MEL OR CDL -

MEL 23-9 FR ACARS INOP

MEL 34--0 TCAS INOP

PHONE 747 5619

IFR FILED ROUTING  
 CLT.CLT070..GSO0205.GSO  
 ATC FILED ALTITUDE 11

TO	DST	MC	FL	DAT	WIND	DFT	TAS	G/S	DTGO	TME	T/TME	T/REM	BO	T/BO
TOC	013	073	11	M01	30018	R04	192	202	0065	0.04	0.04	0.14	013	0013
CLT37	022	073	11	M06	29027	R03	351	371	0043	0.04	0.08	0.10	003	0016
T	011	029	11	M06	29027	R05	350	353	0032	0.01	0.09	0.09	002	0015
GSO	052	029							0000	0.09	0.18	0.00	012	0030

  

CLT	FIELD	N35	12.9/W080	56.6	---	---	ETC	ETA	ATA	F08	AF08	TROP
CLT	FIELD	N35	12.9/W080	56.6	---	---	.....	.....	.....	0147	.....	...
TOC	.....	N35	18.2/W080	41.4			00.04	.....	.....	0134	.....	376
CLT37	.....	N35	26.9/W080	16.1			00.04	.....	.....	0131	.....	377
TOC	.....	N35	36.9/W080	11.0			00.01	.....	.....	0129	.....	380
GSO	.....	N36	05.9/W079	56.2			00.09	.....	.....	0117	.....	380

ALT	SPD	T/TIME	TSD	RGW	MRGW	AWAR	PL	GWA
11/	E35	00.18	0030	1131	1385	P006M03	0251	7 /1000
09/	E50	00.18	0030	1131	1385	P003M01	0251	5 /1000

CLT/0090/  
 XXX ATC FLIGHT PLAN XXX  
 FP USA113 T/8739/R 351 CLT P2130 110  
 CLT.CLT070..GSO0205.GSO/0018  
 RC 3461 PLAN 0101 PAGE 01 OF 01

M-14

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.. .. STATION COPY STATION COPY STATION COPY.. ..

FLT 394 GSO /DCA ATN PHL / ETD 23.10 PAY 0279 RC 9282  
AC 582 2737-300 MSC/E35 /290 ETE 00.37 LGW 1140 RGW 1190  
TE 1 0240NM TAS 430 GS 500 WIND P048 ELV GSO 00926  
DCA 00016

FUEL TIME  
GSO -DCA .....0050 00.37 APPR 006  
ALTN PHL/ ..0027 00.21 0106NM FL130  
HOLD 15000 FT.0041 00.45  
RESERVE .....0040 00.45  
TAXI.....0003  
TOTAL.....0161  
CONTNGCY/XTR..0020 00.21  
TANKER FUEL...0000 00.00  
MINIMUM FUEL..0181

MEL 09 CDL-  
MEL 23-9 FR ACARS INOP  
MEL 34-40 TCAS INOP

DISPATCHER PARRIS  
RELEASE TIME 22.10

PHONE 747 5026

TFR ROUTING  
30..GSO..J14..RIC..IRONSB..DCA  
ATC FILED ALTITUDE 25

..  
I HEREBY ACKNOWLEDGE RECEIPT OF THIS FLIGHT PLAN AND NECESSARY  
ATTACHMENTS AND CONSIDER ALL CONDITIONS INCLUDING MY PHYSICAL  
CONDITION SUITABLE FOR THIS FLIGHT. I HAVE ADEQUATE KNOWLEDGE  
OF ALL FACTORS AFFECTING THE ROUTE WEATHER NAVIGATION COMMUNI  
CATIONS TERRAIN OBSTRUCTIONS AND ALL APPLICABLE PROCEDURES  
AND REGULATIONS.

.. ..  
CAPTAIN'S PRINTED NAME

.. ..  
EMPLOYEE NUMBER

.. ..  
CAPTAIN'S SIGNATURE

..  
..  
RC 9282 PLAN 0101 PAGE 01 OF 01

21OCT1848 0053 DUI

M-15

FLT 394 GSO /DCA ATN PHL / ETD 23\_10 PAY 0279 RC 9282  
 AC 582 8737-300 MSC/E35 /290 ETE-00.37 LGW 1140 RGW 1190  
 RTE 1 0240NM TAS 430 WIND P048 ELV GSO 00926  
 DCA 00016

FUEL TIME  
 GSO -DCA .....0050 00.37 APPR 006  
 ATN PHL/ ..0027 00.21 0106NM FL130  
 H D 15000 FT.0041 00.45  
 RESERVE .....0040 00.45  
 TAXI.....0003  
 TOTAL.....0161  
 CONTNGCY/XTR..0020 00.21  
 MINIMUM FUEL..0181

TANKER FUEL.....0000  
 TANKER TIME.....00.00  
 TANKER SAVINGS...\$ 0.

MEL OR CDL -

MEL 23-9 FR ACARS INOP

MEL 34--0 TCAS INOP

DISPATCHER GARRIS  
 RELEASE TIME 22.10

PHONE 747 5036

IFR FILED ROUTING  
 GSO..GSO.J14.RIC.IRONS2.DCA  
 ATC FILED ALTITUDE 25

TO	DST	MC	FL	DAT	WIND	DFT	TAS	G/S	DTGO	TME	T/TME	T/REM	SD	T/90
TDC	063	052	25	M10	24053	R00	317	370	0174	0.10	0.11	0.25	020	0025
JAXSN	007	022	25	M24	23062	L01	431	493	0127	0.01	0.12	0.25	001	0026
RIC	085	064	25	M24	23071	R00	430	501	0082	0.10	0.22	0.15	010	0036
TOD	004	018	25	M25	24082	R08	429	481	0078	0.01	0.23	0.14	000	0036
DJAAY	244	018							0034	0.07	0.30	0.07	009	0044
DCA	034	019							0000	0.07	0.37	0.00	006	0050

	LAT	/LONG	VOR	FREQ	ETE	ETA	ATA	FOR	#FOR	TROP
GSO FIELD	N36	05.9/W079	58.2	---	.....	.....	.....	0178	.....	....
GSO	N36	02.7/W079	58.2	116.20	00.01	.....	.....	0173	.....	482
TDC	N36	28.2/W078	55.2		00.10	.....	.....	0153	.....	482
JAXSN	N36	42.6/W078	47.4		00.01	.....	.....	0152	.....	482
RIC	N37	30.1/W077	19.2	114.10	00.10	.....	.....	0142	.....	473
TOD	N37	34.2/W077	19.4		00.01	.....	.....	0142	.....	463
DJAAY	N38	17.6/W077	09.4		00.07	.....	.....	0134	.....	463
DCA	N38	51.1/W077	02.3		00.07	.....	.....	0129	.....	461

ALT	SPD	T/TIME	TBO	RGW	MRGW	AWAR	PL	GWA
25/	E35	00.37	0050	1190	1385	P048M13	0279	19 /1000
23/	E35	00.37	0050	1190	1385	P046M11	0279	19 /1000

GSO/0230/  
 RC 9282 PLAN 0101 PAGE 01 OF 02  
 XXX ATC FLIGHT PLAN XXX  
 FP USA113 T/B735/R 431 GSO P2310 250  
 GSO..GSO.J14.RIC.IRONS2.DCA/0037

RC 9282 PLAN 0101 PAGE 02 OF 02

M-16

TOW	394	A/C 582	2034	*CAPT/SCC APPR*
T/O	GSO	WIND 1410	OAT 30	EAI
FLP		*RW23 DRY	*RW05 DRY	
01	-DER	126700	126700	
05	-DER	124000	124000	
LND	DCA	WIND 2115	OAT 38	
FLP		RW18 WET		
30		114000		
40		114000		
*RW23		MTCW 120000	-- LND LMT*	

FINAL W/B	GSO	7394/13SEP	A/C 582	2034
OPR WT	72500			
PAX WT	23040		F 3 Y120	
CGO WT	3200			
GRS WT W/O FUEL	98740	ZFW	106500	*OK*
FOB	18100			
GTOW	115340	MTCW:	120000	*OK*
MIN F 300	MAX F 5000	PAX	128	
TTLLOAD IN F	2000			
O/O MAC 20	STBLZR 4.7			
BALANCED N1	OAT 30	ELV	926	
FLP RWY 23	ASSUM/TEMP	RWY 05	ASSUM/TEMP	
01	38.5 M	88.5 M		
05	38.5 M	88.5 M		
	V1M V1 VR V2	V1M V1 VR V2		
01	132/142/142/149	132/141/142/149		
05	129/136/136/143	129/135/136/143		

DATA WP\TCWWBMSG

M-17

GSD SA 161701 W1 X 1/4F 20/30/1410/2985

GSD FT 292223 RAMFT DEC29 2215Z/4 OVC 11/2F 2405  
OCNL 4 SCT 15 OVC 3F. 04Z/15 OVC 5F. 06Z/20 SCT  
3214. 08Z/CLR. 17Z.

G NS 300021 12/011 GSD TACAN AZM QTS  
GSD NS 300021 12/023 GSD PTCY THN IR

GSD UA NONE PRESENT

GSD FC 300051 FIELD COND 001 NOTAM 93-98 EFF 11-27-93 TAXIWAY  
ALPHA LIGHTING IS OUT UNTILL FURTHER NOTICE

GSD FC 300051 FIELD COND 002 THE ROTATING BEACON IS OUT OF  
SERVICE UNTIL FURTHER NOTICE

-----  
6000 9000 12000 15000 24000 30000 34000 39000  
TRI 2941-06 2753-07 2764-10 2884-19 2798-30 761543 762551 763559  
TRI SA 300003 SA 2350 26 SCT 100 SCT 15 158/37/29/2711/998/  
308 1570 40  
TRI FT 292209 RAMFT DEC29 2204Z/30 SCT 2408. 03Z/30  
SCT 3012620 OCNL 30 BKN. 09Z/30 SCT. 17Z.

TRI NS NONE PRESENT

TRI UA NONE PRESENT

TRI ED 300036 0030 FFINE

TRI FC 292350 FIELD COND 001 RADIO 129.75 OPS/RADIO NOT  
MANNED DURING FLT OPS. JETS-GATE 3 PROPS-GATE  
2 WX/DOC AT GATE. CONTRACT MTC ONLY.

M-18

05 23 14 32  
 DRY DRY DRY DRY  
 CA SA 161700 M8 OVC 2 38/36/2710/2998  
 CA FT 161416 RAMFT 1415Z/100 SCT 250 -BKN  
 0407. 16Z/70 SCT 250 BKN 0410. 23Z/70 BKN 250  
 BKN 0806. 06Z/70 BKN 250 OVC 1206. 09Z.  
 CA NS 161720 11/058 DCA 15-33 NW 2000 CLSD 0330-1130 DLY TIL  
 171130.  
 CA NS 161720 11/068 DCA 18-36 CLSD 0600-1130 DLY EFF  
 180600-201130  
 CA NS 161720 11/069 DCA 15-33 NW 2000 CLSD 0330-0600 DLY EFF  
 180330-200600  
 CA UA 161707 UA /OV SWL/TM 1700/FL200/TP T42/TA -19/TB OCNL  
 LGT/RM IMC  
 CA FC 161700 FIELD COND 001 TWY D AND E CLSD FROM 1030PM TIL  
 0630AM UFN  
 CA FC 161700 FIELD COND 002 TWY I CLSD UNTIL 1030Z UFN  
 CA FC 161700 FIELD COND 003 RWY 3/21 CLSD UNTIL 1200 LCL.  
 TWYS D G AND I AND J WILL CLOSE AT  
 1030PM FOR CONSTRUCTION

R DISPLAY

RW 18 36 15 33 03 21  
 CD DRY DRY DRY DRY DRY DRY  
 DCA CN 292050 US NOTAM 001 05/29A/93...ATTN 757  
 FLIGHTS....WHEN USING GATE H6 USE DOOR  
 L3....AND WHEN USING GATE H8 USE DOOR L1.....  
 DCA CN 161136 US NOTAM 002 09/16A/93 GATE H-9 IS A TOW IN  
 GATE. POWER MUST BE SHUT DOWN PRIOR TO TOW IN.  
 DCA IN 161142 INTL NOTAM 001 09/16B/93 ATTENTION: F-100  
 FLTS..... JETWAY POWER CORDS ARE NOT COMPATABLE  
 TO F-100/S. WILL NEED TO USE APU WHILE AT GATE  
 IN DCA.  
 DCA FN 201926 FDC NOTAM 001 FDC 1/1789 DCA FI/T /DCA/  
 WASHINGTON NATIONAL WASHINGTON DC. VOR/DME RWY  
 15 ORIGINAL..... MIN ALT CADDE INT  
 DCA FN 091255 FDC NOTAM 002 1/5955 WASHINGTON NATIONAL  
 WASH DC. RADAR-1 AMDT 25..RNAV RWY 33 AMDT 5  
 NDB RWY 36 AMDT 9 ILS RWY 36 AMDT 3 7 VOR RWY  
 36 AMDT 11...CIRCLING MDA/HAA ALL CATS 720/704.  
 VOR/ DME RWY 15 ORIG. CIRCLING MDA/HAA CATS  
 A/B/C 720/704. ILS RWY 36 CAT II AMDT  
 37...MISSED APPRCH ADD NOTE: OBSTNS IN MISSED  
 APPRCH AREA REQUIRE RATE OF AT LEAST FT PER  
 MILE FPM/KTS 810/ 100 1220/150 1620/200:  
 NO WIND CONDS.  
 DCA FN 050617 FDC NOTAM 003 2/0589 /DCA/ FI/T WASHINGTON  
 NATIONAL WASHINGTON D.C. RNAV RWY 33 A DT  
 5...S-33 ALL CATS MDA/HAT 720/707 VIS CAT C 2  
 D 2 1/4.

M-19

RW 05 23 14 32  
CD DRY DRY DRY DRY

PHL SA 161702 SA 1653 250 -SCT 15 298/59/41/E3403/041  
PHL FT 161411 RAMFT NOV16 1403Z/120 SCT 250 BKN  
3610. 16Z/40 SCT 100 SCT. 22Z/100 SCT 250 SCT.  
09Z.  
PHL NS 161623 11/016 PHL 17-35 CLSD TIL 1745

PHL UA NONE PRESENT  
PHL FC 161700 FIELD COND 001 ALL SURFACES BARE

JR DISPLAY

RW 09R 27L 09L 27R 17 35  
CD DRY DRY DRY DRY DRY DRY

PHL CN 011901 US NOTAM 001 ATTN ALL PARIS CREWS....THE  
INT L FLT FOLDER SHOULD BE GIVEN TO THE FLIGHT  
ATTENDANTS WHO SHOULD THEN PLACE THE FOL DER  
IN THE INT L FORMS CASE RED SUITCASE . THE  
AGENTS WILL THEN REMOVE THE FOLDER FROM THE  
CASE AND PLACE IT INTHE 90 DAY STATI ON  
FILE....  
PHL CN 091148 US NOTAM 002 ATTALL BDA PILOTS....THE INT L  
FLIGHT FOLDER SHOULD B E GIVEN TO THE F/A PRIOR  
TO LANDING....THE F/A SHOULD PLACE THE FOLDER  
IN THE PLASTIC FORMS POUCH...THE AGENTS WILL  
REMOVE THE F OLDER FROM TEH POUCH AND PLACE IN  
THE STATION 90 DAY FILE  
PHL CN 091149 US NOTAM 003 ATTN ALL SJU PILOTS...THE INT L  
FLIGHT FOLDER SHOULD B E GIVEN TO THE GATE  
AGENT MEETING THE FLIGHT....THE AGENT WILL T  
HEN PLACE THE FOLDER IN THE STATION 90 DAY FILE  
PHL CN 172029 US NOTAM 004 09/17A/93 PILOT ADVISORY..NEW  
PROCEDURE IN AFFECT 09/18/93...CONTACT  
USAIR RAMP CONTROL FREQ. 130.05 PRIOR TO PUSH  
BACK ..LOAD CONTROL FREQ. 129.8 ...IN RANGE  
FREQ. 131.0  
PHL CN 172119 US NOTAM 005 09/17B/93 PILOT ADVISORY:  
DEPARTING A/C DUE TO RAMP CONGESTION PLEASE  
MONITOR RAMP CONTROL FREQ. FROM ALL  
GATES....ARRIVING A/C PLEASE ADHERE TO PHL PAGE  
10-T IN JEPFESON .  
PHL FN 122154 FDC NOTAM 001 FDC 3/6188 PHL FI/T PHILADELPHIA  
INTL PHILADELPHIA PA. ILS RWY 9L ORIG-A. ILS  
RWY 9R AMDT 7. CONVERGING ILS RWY 9R AMDT 3.  
ILS RWY 9R CAT II AMDT 7. ILS RWY 17 AMDT 4.  
ILS RWY 27L AMDT 5. ILS RWY 27R AMDT 6. NDB RWY  
27L AMDT 5. RADAR REQUIRED.  
RIC SA 161702 SA 1650 60 SCT 250 -OVC 8 295/64/43/0709/039  
R? FT 161412 RAMFT NOV16 1409Z/55 OVC 0610. 17Z/55  
BKN 250 OVC. 00Z/55 BKN 100 OVC 1007. 08Z/50  
OVC. 09Z.

RIC NS NONE PRESENT  
RIC FN 142013 FDC NOTAM 001 FDC 3/5669 RIC FI/P RICHMOND  
INTL BYRD FIELD RICHMOND VA. ILS RWY 2  
ORIG... TCH 50. THIS BECOMES ILS RWY 2

M-20