

Docket No. SA-521

Exhibit No. 11G

NATIONAL TRANSPORTATION SAFETY BOARD

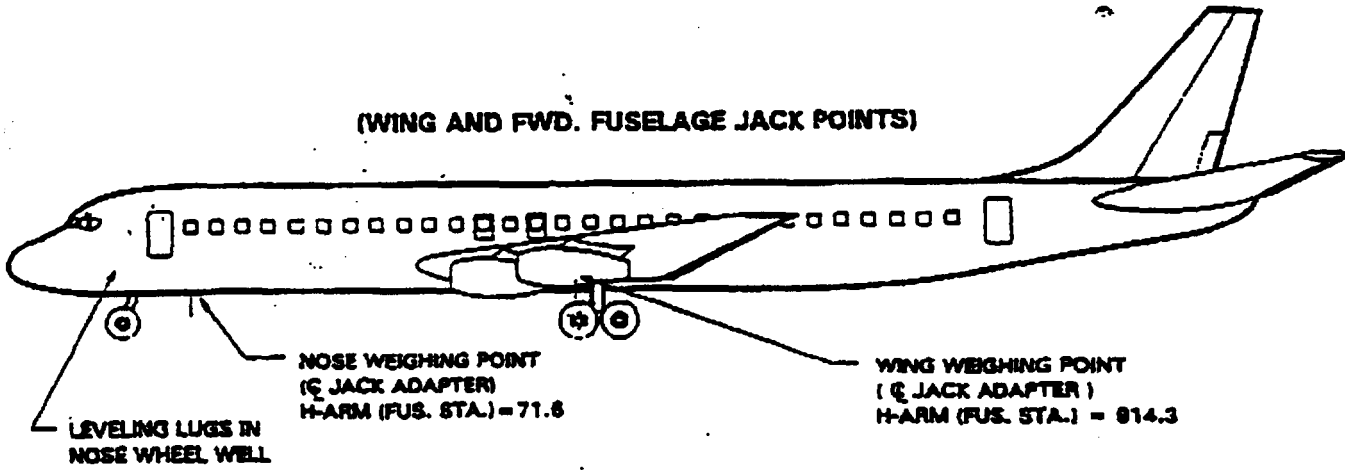
Washington, D. C.

Attachment F – Weight and Balance

(5 Pages)

AIRPLANE OPERATING WEIGHT & BALANCE - (DC-9-11/15)

(WING AND FWD. FUSELAGE JACK POINTS)



WEIGHING DATA

| WEIGHING POINTS (JACKPOINTS) | SCALE READING | TARE | SCALE CORR. | NET WEIGHT (POUNDS) | H-ARM (FUS STA) | MOMENT (INCH - LB/10,000) ABOUT FUS STA "0" |
|-------------------------------------|----------------|-----------|-------------|---------------------|-----------------|---|
| LEFT WING JACK | 67,378 | -1 | 0 | 67,377 | | |
| RIGHT WING JACK | 66,826 | -1 | 0 | 66,825 | | |
| SUB TOTAL (WING JACKS) | 134,204 | | | 134,202 | 914.3 | 122700888.6 |
| NOSE JACK PAD | 12,597 | -1 | 0 | 12,596 | 71.6 | 901873.6 |
| AIRPLANE "AS-WEIGHED" | 146,801 | -3 | | 146,798 | 841.99 | 123602762.2 |
| ADD ITEMS | | | | | | |
| PLOTS | | | | 400.0 | -79 | -31800 |
| FE | | | | 200.0 | -44 | -8800 |
| CREW BAGS | | | | 90.0 | 551 | 49590 |
| NAV CASES | | | | 135.0 | 551 | 74385 |
| SPK INVENTORY | | | | 280.0 | 630 | 157500 |
| TARE FUEL | | | | 794 | 853.5 | 677679 |
| Manuals & Forms | | | | 100 | -26 | -2400 |
| LESS ITEMS | | | | | | |
| | | | | | | |
| | | | | | | |
| BASIC OPERATING WEIGHT (BOW) | | | | 148,767 | 837.0 | 124519116.2 |

NOTE: COMPUTE SPK INVENTORY SECTION ONLY IF SPK IS INSTALLED

$$\text{AIRPLANE BOW C.G. (\% MAC)} = \frac{\text{BOW H-ARM} - \text{STA. LEMAC}}{\text{MAC}} \times 100 = \frac{(837) - 788.7}{275.8} \times 100 = 17.14 \text{ \% MAC (BOW CONDITION)}$$

$$\text{BOW INDEX UNIT} = \frac{\text{BOW} \times (\text{BOW H-ARM} - \text{STA. \% MAC})}{10,000} = \frac{(148767) \times (837.0 - 888.7)}{10,000} = 322.824 \text{ I.U. (BOW CONDITION)}$$

$$\text{BOW ADJUSTED WEIGHT} = \frac{(\text{BOW ARM} - 858) \times \text{BOW}}{772,520} + 25 + \frac{\text{BOW ROUNDED (TO NEAREST 100)}}{772,520} = \frac{(837 - 858) \times 148,767}{772,520} + 25 + (148,800) = 148,821 \text{ (BOW ADJ WT)}$$

| | | |
|-----------------|-----------------------------|------------------------|
| WEIGHED BY | REG. NO. N8079U | DOUGLAS SER. NO. 45947 |
| EWA O.C. REVIEW | REP. STA. NO. -CRS T64R1640 | DATE 11/02/99 |

MEO 115 (REVISION 2 10/1/88)

F-1

0065

NON-ROUTINE WORK CARD TENNESSEE TECHNICAL SERVICES, LLC

FORM NO. 28

CRS T64R1640

TASK NO.

W/D NO. 1441

56001

ITEM LOCATION (CIRCLE ONE)

CABIN TAIL ENG
 LT WING RT WING LG & W/W DOOR/HATCHES

FUNCTION (CIRCLE ONE)

MECH ELEC RADIO SM CLEAN
 NDT CRSD PAINT CABIN SHOP

A/C TYPE: MODEL

DC-8-71E

A/C TAIL NO

80790

CUSTOMER REQUEST / TEST (CIRCLE ONE)

ITEM DESCRIPTION

Comply with PRR EWA W & B MANUAL CHAPTER 3 PG 1-17 USE

MEO'S 115, 116, 133 WEIGHT AND BALANCE

REF: TASK CODE 808100

WRITTEN BY:

[Signature]

EMP. NO.

3800000

DAY

28

MO

8

YR

99

EVALUATION (CIRCLE ACTIONS TO BE TAKEN)

CLEAN CHECK LUBE SERVICE TREAT PAINT REMOVE REPAIR TIGHTEN SECURE STOW REPLACE RESET TEST ADJUST

REFERENCE DOCUMENT (M.M.S./I.M./DRAWING/SERVICE BULLETIN/D.E.R. INSTRUCTION ETC)

A.T.A.

CHPT SECT SUBJ 7/2

SPECIAL INSTRUCTIONS

EVALUATION BY

EMP. NO.

O.T. AUTH (CIRCLE)
 YES NO

PARTS AUTH (CIRCLE)
 YES NO

REQD INSPN ITEM
 YES NO (CIRCLE)

CUSTOMER APPROVAL

62.5 *[Signature]*

CORRECTIVE ACTION

Performed A/c weight and balance Checklist IAW EWA MED 133
 Performed A/c weight and balance Calculations IAW EWA MED 115
 REVERSE KIT P/N 155800-04 S/N 63550
 DUE CAB 3-2000

PART NUMBER 'OFF'

SER #

PART NUMBER 'ON'

SER #

PART NUMBER 'OFF'

SER #

PART NUMBER 'ON'

SER #

ACCOMPLISHED BY

[Signature]

EMP. NO.

712252317

SUPERVISOR/LEAD RECHECK

[Signature]

EMP. NO.

15253453

CHECKED BY:

21 *[Signature]*

DAY

2

MO

11

YR

99

| |
|--|
| 16: |
| 17: |
| 18: |
| 19: |
| 20: |
| Time Extension Request |
| Did Another Department Work Task? A&P - SM - AV - Cleaner - Shop |
| If So Indicate Hours Used |
| Re-evaluation # 1 - 2 - 3 - 4 New Estimate Authorized By |
| Reason For Time Extension |

0066

40

EMERY WORLDWIDE AIRLINES AIRCRAFT WEIGHT & BALANCE MANUAL

Act: 8079U

Date: 11/02/99

Sta.: KMQY

Inspector: _____

21
1999

WEIGHING CHECKLIST

| INSTL CW (SIGN) | ITEM | MODEL | NO. INST. | ARM | WEIGHT | MOMENT |
|------------------------------------|----------------------|----------|-----------|----------|--------|-----------|
| ALL INSTL [REDACTED] | CRASH AXE | 63/71/73 | 1 | -32 | 3.0 | -96.0 |
| | | 62 | 1 | 255 | 3.0 | 765.0 |
| | | 54 | 1 | 241 | 3.0 | 723.0 |
| ALL INSTL [REDACTED] | 7 MAN RAFT | 63/71/73 | 2 | -52 | 164.0 | 8528.0 |
| ALL INSTL [REDACTED] | FIREX WAND | 63/71/73 | 1 | -32 | 2.0 | -64.0 |
| | | 62 | 1 | 255 | 2.0 | 510.0 |
| | | 54 | 1 | 241 | 2.0 | 482.0 |
| ALL INSTL [REDACTED] | HALON FIREX | 63/71/73 | 2 | (1)-12 | 16.0 | -192.0 |
| | | | | | (1)-52 | 2.5 |
| | | 62 | 2 | (1)165 | 2.5 | 412.5 |
| | | | 54 | 2 | (1)170 | 16.0 |
| ALL INSTL [REDACTED] | PBE | 63/71/73 | 1 | -32 | 5.0 | -160.0 |
| | | 62 | 1 | 170 | 5.0 | 850.0 |
| | | 54 | 1 | 241 | 5.0 | 1205.0 |
| ALL INSTL [REDACTED] | FIRST AID KIT | 63/71/73 | 1 | -30 | 6.0 | -180.0 |
| | | 62 | 1 | 170 | 6.0 | 1020.0 |
| | | 54 | 1 | 236 | 6.0 | 1416.0 |
| ALL INSTL [REDACTED] | ELT | 63/71/73 | 1 | -30 | 4.0 | -120.0 |
| | | 62 | 1 | 225 | 4.0 | 900.0 |
| | | 54 | 1 | 239 | 4.0 | 956.0 |
| ALL INSTL [REDACTED] | SMOKE GOGGLES | 63/71/73 | 5 | EA. SEAT | 1.6 | NO FACTOR |
| | | 62 | 5 | EA. SEAT | 1.6 | " " |
| | | 54 | 5 | EA. SEAT | 1.6 | " " |
| ALL INSTL [REDACTED] | O ₂ MASKS | 63/71/73 | 5 | EA. SEAT | 5.0 | NO FACTOR |
| | | 62 | 5 | EA. SEAT | 5.0 | " " |
| | | 54 | 5 | EA. SEAT | 5.0 | " " |

EMERY WORLDWIDE AIRLINES AIRCRAFT WEIGHT & BALANCE MANUAL

| INSTL CW (SIGN) | ITEM | MODEL | NO. INST. | ARM | WEIGHT | MOMENT |
|-------------------------|---------------------------|----------|--------------|------|--------|--------|
| 011-11173-11 | O ₂ (PORTABLE) | 63/71/73 | 1 | 0 | 10 | 0 |
| | | 62 | 1 | 200 | 10 | 2000.0 |
| | | 54 | 1 | 275 | 10 | 2750.0 |
| 011-11173-11 | LIFE VESTS | 63/71/73 | 8 | AVG. | 10.4 | -208.0 |
| | | 62 | 7 | AVG. | 9.1 | 360.0 |
| | | 54 | 5 | AVG. | 6.5 | 1235.0 |

MISC. ITEMS (REMOVABLE)

| INSTL CW (SIGN) | ITEM | MODEL | NO. INST. | ARM | WEIGHT | MOMENT |
|-------------------------|---|----------|--------------|-----|--------|--------|
| | (1) ACFT. MANUAL LIBRARY (WITHOUT MANUALS) | 63/71/73 | 1 | -24 | 25.0 | -600.0 |
| | | 62 | 1 | 176 | 25.0 | 4400.0 |
| | | 54 | 1 | 200 | 25.0 | 5000.0 |
| 011-11173-11 | FORMS KIT | 63/71/73 | 1 | -24 | 5.0 | -120.0 |
| | | 62 | 1 | 176 | 5.0 | 880.0 |
| | | 54 | 1 | 200 | 5.0 | 1000.0 |

(1) Manual Library Listing:

1. FAA Approved Airplane Flight Manual
2. EWA Fueling Manual
3. EWW Hazardous Goods Manual
4. EWW General Operations Manual
5. EWW Emergency Procedures Manual
6. EWW Station Handling Manual
7. EWW Airport Analysis Manuals
8. EWA Aircraft Maintenance Manuals
9. EWW Aircraft Operating Manuals, Volumes 1 and 2
10. EWW Normal Checklists
11. EWW Quick Reference Handbook
12. EWW Data Book
13. EWA MEL/CDL
14. EWA Weight & Balance Manual
15. Tracor TA-7900 Operating Manual
16. EWW Flight Training Handbook
17. EWA Inspection Program Volume 1
18. EWA Maintenance Policy and Procedure

Note: Manual weight must be included in the "Add List" by mathematical calculation if all manuals are not on-board aircraft at time of weighing. The standardized manual weight is 95 pounds.

**EMERY WORLDWIDE AIRLINES
AIRCRAFT WEIGHT & BALANCE MANUAL**

| INSTL CW (SIGN) | ITEM | MODEL | NO. INST. | ARM | WEIGHT | MOMENT |
|------------------------------|------------------------------------|----------------------|--------------------|-----|--------|--------|
| 7/8 [REDACTED] | USABLE ENGINE OIL (7.5 LB/GAL.) | 63/71/73 62 54 | MUST BE FULL | N/A | N/A | N/A |
| 7/8 [REDACTED] | USABLE CSD OIL (7.5 LB/GAL.) | 63/71/73 62 54 | MUST BE FULL | N/A | N/A | N/A |
| 7/8 [REDACTED] | TOILET CHEMICALS (8.3 LB/GAL.) | 63/71/73 62 54 | MUST BE FULL | N/A | N/A | N/A |

SPARE PARTS KIT

1. The basic SPK empty weighs 300 pounds which is included in the aircraft Basic Empty Weight. Completely stocked per the inventory list, it weighs 550 pounds. The inventory list will provide a daily status of the SPK actual weight. For the purpose of standardizing weight and balance limits, the inventory weight will be calculated at 250 lbs. on board the aircraft at all times. All parts stocked in the SPK will be removed from the aircraft prior to weighing.
2. Spare hydraulic and engine oils, brakes, and wheel assemblies will be removed from the aircraft prior to weighing.