# Attachment 9

# Experimental Certificate of Airworthiness

## Maintenance Item Summary Page

Aircraft Type

Boeing 707-321B

Aircraft S/N

20029

Aircraft Reg

N707AR

#### **MISC**

## CERTIFICATE

CERTIFICATE OF AIRWORTHINESS

## **Last Accomplishment Data**

Date:

21-Apr-2011

Method: Sammy

Remarks: Do not issue to aircraft.

## Next Due Data

Date:

20-Jul-2011

		Library		
	DEF	UNITED STATES OF AMERICA PARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION		
	· · · · · · · · · · · · · · · · · · ·	OF COIAL AIRWORTHINESS CERTIFICATE		
A	CATEGORY/D PURPOSE	ESIGNATION EXPERIMENTAL		
В	MANU- FACTURER	NAME NAME NAME NAME		
С	FLIGHT	FROM NA		
D	N- 707AR BUILDER B	oeing Airplane Company (MODEL 707-3218		
E	OPERATING L	MITATIONS DATED 2 APR 2011 ARE PART OF THIS CERTIFICATE DESIGNATION OR OFFICE NO		
Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT AA Form 8130-7 (07/04)  SEE REVERSE SIDE				
NSN: 0052-00-693-4000				



**FAA ORLANDO FSDO-15 5950 HAZELTINE NATIONAL DRIVE CITADEL INTERNATIONAL, SUITE 500 ORLANDO, FLORIDA 32822-5023** 

#### **EXPERIMENTAL OPERATING LIMITATIONS MARKET SURVEYS**

MAKE: MODEL:		Boeing Airplane Company 707-321B	CEDIAL MILLER TO THE THE TATOLAN		
ISSU	-	2 1 APR 2011	SERIAL NUMBER: 20029 EXPIRES: 1 9 JUL 2011		
1.	Prior to	o any government contract on	erations this aircraft must be declared a		
	aircraf	t is in a condition for safe opered prior to making this "Public	The operator must determine that the ration and appropriate for the purpose Aircraft Declaration".		
2.	SURVE	thiness Certificate in the cated	2 1 APR 2011 , are part of the Special lory of EXPERIMENTAL "MARKET cribed above and must be displayed at the nee with 14 CFR § 91.203.		
3.	capin c	son may operate this aircraft up or cockpit entrance and visible DER 8130.2G 8/31/2010	inless FAA Form 8130-7 is displayed at the to passengers or flightcrew members.		
	operation operat	ng compliance with regulations ng kit-built aircraft, to accomp m letter dated <u>2 1 APR 2011</u> , d), and has been made availab tion, this aircraft must be operating rules of	or other than the purpose of R & D, crew training, market surveys, or lish the flight operation outlined in the which describes compliance with 14 CFR § le to the pilot in command of the aircraft. ated in accordance with applicable air 14 CFR part 91, and all additional the provisions of 14 CFR § 91.319(i).		

Department of Transportation
Federal Aviation

Federal Aviation
Administration

	STRATION NUMBER: N7 ED: 2 1 APR 2011	707AR EXPIRES:	1 9 JUL 2011				
	All flights must be conducted within the geographical area described as follows:  NO GEOGRAPHIC RESTRICTIONS						
	individually prescribed ged	the area must be that red the area must be that red tests. Multiple-purpose ographical areas. "Except perated over densely non	ly populated areas having quired to safely conduct the				

- 6. All flights of this aircraft must be conducted within the geographic area indicated on the chart as follows. (4) ORDER 8130.2G 8/31/2010 (NOT APPLICABLE)
- 7. All flights must be conducted in accordance with [that is, describe the PC holder's approved operating procedure, for example, ABC Aircraft Co. Experimental Operating Procedure No. 12 (dated)]. (5) ORDER 8130.2G 8/31/2010 (NOT APPLICABLE)
- 8. When changing between operating purposes of a multiple-purpose certificate, the operator must determine that the aircraft is in a condition for safe operation and appropriate for the purpose intended. A record entry will be made by an appropriately rated person to document that finding in the aircraft logbook. (6) ORDER 8130.2G 8/31/2010 (NOT APPLICABLE)
- 9. This aircraft must not be operated unless it is inspected and maintained in accordance with appropriate military technical publications and/or manufacturer's recommendations. The owner/operator must select, establish, identify, and use an inspection program as set forth in 14 CFR § 91.409(e), (f), (g), and (h). This inspection program must be recorded in the aircraft maintenance records. (7) ORDER 8130.2G 8/31/2010



REGISTR	ATION NUMBER:	N707AR				
ISSUED:	2 1 APR 2011		EXPIRES:	1 9 JUI	L 2011	

- 10. The pilot in command of this aircraft must hold an appropriate category/class rating. If required for the type of aircraft to be flown, the pilot in command also must hold either an appropriate type rating or an LOA issued by an FAA Flight Standards Operations Inspector. (8) ORDER 8130.2G 8/31/2010
- 11. This aircraft is to be operated under VFR, day only. (9) ORDER 8130.2G 8/31/2010 (NOT APPLICABLE)
- 12. This aircraft may be operated under VFR, day and/or night. (10) ORDER 8130.2G 8/31/2010
- 13. This aircraft may be operated under IFR, and must be properly equipped for instrument flight in accordance with 14 CFR § 91.205. (11) ORDER 8130.2G 8/31/2010
- 14.No person may operate this aircraft for carrying persons or property for compensation or hire. (12) ORDER 8130.2G 8/31/2010

  Note: This limitation is excluded when this aircraft is being operated under a "Public Aircraft Declaration".
- 15.No person may be carried in this aircraft during flight unless that person is essential to the purpose of the flight (13) ORDER 8130.2G 8/31/2010 (NOT APPLICABLE)
- 16.Persons may be carried in accordance with [describe the PC holder's approved operating procedure, for example, ABC Aircraft Co. Experimental Operating Procedure No. 12 (dated)]. (14) ORDER 8130.2G 8/31/2010 (NOT APPLICABLE)
- 17. Crew training and checking is authorized.
- 18. The pilot in command of this aircraft must advise each passenger of the experimental nature of this aircraft, and explain that it does not meet the certification requirements of a standard certificated aircraft. (15) ORDER 8130.2G 8/31/2010



<b>REGISTRATION NUMBER:</b>	N707AR		
<b>ISSUED:</b> 2 1 APR 2011		EXPIRES:	1 9 JUL 2011

- 19. This aircraft must contain the placards, markings, etc., (or other operating instructions developed for an STC modification) required by 14 CFR § 91.9. See attached list of supplemental manuals (latest revision). (16) ORDER 8130.2G 8/31/2010
- 20. This aircraft is prohibited from aerobatic flight, that is, an intentional maneuver involving an abrupt change in the aircraft's attitude, an abnormal attitude, or abnormal acceleration not necessary for normal flight. (17) ORDER 8130.2G 8/31/2010
- 21. This aircraft may conduct aerobatic flight in accordance with 14 CFR § 91.303. Aerobatics must not be attempted until sufficient flight experience has been gained to establish that the aircraft is satisfactorily controllable and in compliance with 14 CFR § 91.319(b). Aerobatic maneuvers intended to be performed must be satisfactorily accomplished and recorded in the aircraft records during the flight test period. (18) ORDER 8130.2G 8/31/2010 (NOT APPLICABLE)
- 22. The cognizant MIDO or FSDO must be notified, and its response received in writing, prior to flying this aircraft after incorporation of a major change as defined by 14 CFR § 21.93. (19) ORDER 8130.2G 8/31/2010
- 23. This aircraft must not be used for glider towing, banner towing, or intentional parachute jumping. (20) ORDER 8130.2G 8/31/2010
- 24.No person must operate this aircraft unless within the preceding 12 calendar months it has had a condition inspection performed in accordance with the scope and detail of 14 CFR part 43, appendix D, or other FAA-approved programs, and was found to be in a condition for safe operation. This inspection will be recorded in the aircraft maintenance records. (21) ORDER 8130.2G 8/31/2010
- 25.FAA-certificated repair stations and FAA-certificated mechanics with appropriate ratings as authorized by 14 CFR § 43.3 may perform inspections required by these operating limitations. (22) ORDER 8130.2G 8/31/2010



REGISTRATION NUMBER:	N707AR			
ISSUED: 2 1 APR 2011		EXPIRES:	1 9 JUL 2011	

- 26.Inspections must be recorded in the aircraft maintenance records showing the following, or a similarly worded, statement: "I certify that this aircraft has been inspected on <a href="[Insert Date]">[Insert Date]</a> in accordance with the scope and detail of 14 CFR part 43, appendix D, or other FAA-approved programs, and found to be in a condition for safe operation." The entry will include the aircraft's total time-inservice, and the printed name, signature, certificate number, and type of certificate held by the person performing the inspection. (23) ORDER 8130.2G 8/31/2010
- 27.If aircraft, engine, or propeller operating limitations are exceeded, an appropriate entry will be made in the aircraft records. (24) ORDER 8130.2G 8/31/2010
- 28. This aircraft must not be operated unless it is maintained and inspected in accordance with the requirements of 14 CFR part 43. (25) ORDER 8130.2G 8/31/2010
- 29. This aircraft must display the word "EXPERIMENTAL" in accordance with 14 CFR § 45.23(b). (26) ORDER 8130.2G 8/31/2010
- 30. The pilot in command of this aircraft must notify air traffic control of the experimental nature of this aircraft when operating into or out of airports with operating control towers. The pilot in command must plan routing that will avoid densely populated areas and congested airways when operating VFR. (27) ORDER 8130.2G 8/31/2010
- 31. This aircraft does not meet the requirements of the applicable, comprehensive, and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. The owner/operator of this aircraft must obtain written permission from another country's CAA prior to operating this aircraft in or over that country. That written permission must be carried aboard the aircraft together with the U.S. airworthiness certificate and, upon request, be made available to an FAA inspector or the CAA in the country of operation. (28) ORDER 8130.2G 8/31/2010



ISSUED: 2 1 APR 2011	<u>K                                    </u>	1 9 JUL 2011	
32.Aircraft instruments and equipments be inspected and maintain 14 CFR parts 43 and 91. Any make recorded in the aircraft main (29) ORDER 8130.2G 8/31/2010	ned in accordance v aintenance or inspe	with the requirements of	
33.Application must be made to the ORLANDO FSDO-15, for any rev 8130.2G 8/31/2010	e geographically restricted in the graphs of	sponsible FSDO or MIDO rating limitations. (30) ORD	DER
34. The special airworthiness certificaircraft will expire on	UL 2011 . Howe s transfer of owners SDO with a copy of responsible for sc ested proficiency ar rust be notified with . Such notification	ver, when an aircraft base thip, the new owner/operathe the approved inspection heduling and performing treas. 14 CFR § 47.45 requain 30 days of any change is to be made by submittir	of itor the ires
35.Condition inspections must be papendix D at least every 100 fliby an FAA-certificated mechanic 43.3. (32) ORDER 8130.2G 8/31/2	ight hours.  The ins c with appropriate ı	pections must be perform ratings as defined in 14 CF	ned
36.Familiarization flights must be c	onducted only over	r sparsely populated areas	s. If

aerobatics are involved, the applicant must inform the local FAA office and additional limitations may be imposed as necessary. (33) ORDER 8130.2G

8/31/2010 (NOT APPLICABLE)



REGISTRATION NUM			
ISSUED: 21 AP	R 2011	EXPIRES: _	1 9 JUL 2011

- 37. Air to air refueling is authorized. All applicable manuals, manual supplements and pertinent documents must be used and followed. All changes to the aircraft configuration, to include conversion from transport category to tanker air to air refueling configuration or returning the aircraft to transport category from tanker air to air refueling configuration require a record entry be made by an appropriately rated person. The entry must include a description of the aircraft configuration changes and the specific documents used to make these configuration changes, the aircraft total time in service, the aircraft total cycles, recording of any air to air refueling activity hours, hose reel cycles, quantity of fuel transferred, or any additional data which would be required by the maintenance inspection documents developed to support the continued airworthiness of this aircraft in the tanker air to air refueling configuration, the date, and the printed name, signature, certificate number and type of certificate held by the person making the aircraft log book entry.
- 38.Aircraft log book entry is required when changing from "Market Surveys" or "Public Aircraft" to "Research and Development" and is also required when changing back from "Research and Development" to "Market Surveys" or "Public Aircraft". The log book entry must include the date, printed name, certificate number (if applicable) and signature of the person making the entry.



SSUED:	2 1 APR 2011	<u>N707AR</u>	EXPIRES:	19 JUL	2011
39.These o	pperating limita 2 1 APR 2011	tions are part o	of a Special Air rill expire on _	rworthiness Co	ertificate issue 2011
I have r	ead and under	stand the above	e operatina lir	mitations.	
Signatu Pilot in	re Command:			_ Date:_	2 1 APR 2011
Print na Pilot in	me command:				
Date of	issue:	2 1 APR 20	11		
Issued I		Sámmy K. Hans	on		



Mr. Sammy K. Hanson, AeroTech Services Inc., Silver Springs, Florida.

18-Apr-2011

Subject:

Renewal of Experimental Certificate for

Boeing 707-321B S/N 20029 Reg. N707AR

Dear Sammy,

Below please find information requested.

1.	Total Aircraft Hours as of 18-Apr-2011	47,790 hours	15,169 cycles
2.	Experimental Aircraft Hours as of 18-Apr-2011	95 hrs 56 mins	34 cycles
3.	Bi-Weekly as at 18-Apr-2011	2011-08	
4.	Last Applicable AD	2009-18-10	
	Status of N707AR S/N 20029	Due October 2011	

#### **MANUAL SUPPLEMENTS**

1.	Hushkit Flight Manual Supplement	JS1175	Rev. 3
2	Airplane Flight Manual	D6-1588.6	Rev. 34
3.	AR STC Transport Configuration Flight M	Janual Supplements	
	AR Transport → Tanker Manual	ME-707-ER-13-1	Rev. B
	AR Tanker → Transport Manual	ME-707-ER-13-2	Rev. A

	AR Tanker Flight Manual Supplement	ME-707-ER-05-2	Rev. C (Transport)
	AR Tanker Flight Manual Supplement	ME-707-ER-05-1	Rev. C (Tanker)
4.	Weight & Balance Manuals		
	Weight & Balance Report A + B Kit	ME-707-ER-22	Rev. A (Tanker)
	Weight & Balance Report A Kit	ME-707-ER-02	Rev. A (Transport)
5.	Dual Universal UNS-1C Flight Management System/GPS computers	STC ST09234SC	

#### Best regards,

Noel Mullins
Signed on behalf of
Kevin O'Neill
Director of Quality Control
Omega Air

Form Approved

U.S. Department of Transportation Formula Visit Almanda CERTIFICATE  Administration  Administration				O.M.B. No. 2120-0018  INSTRUCTIONS - Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use attachment. For special flight permits complete Sections II, VI and VII as applicable.																		
	11. REGISTRATION MARK 22. AIRCRAFT BUILDER'S NAME ALLOW BOEING Airplane Company						ane						4. YR. MFF 1969	FAA CODING								
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	NAME Omega Air Inc.  ADDRESS Building 92, 9023 Wetmore Road San Antonio. Texas 78216																					
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STATEMENT OF CONFORMITY							
Section I - Aircraft							
Make     BOEING AIRPLANE COMPANY	2. Model 707-321B	:					
3. SERIAL 20029	4. Registration No. N707AR						
Section II - Engine							
1. Make	2. Model						
3. Serial No.	3. Serial No. Section III - Propeller						
1. Make	2. Hub Model						
3. Blade Model	4. Hub Serial No.						
5. Blade Serial No.							
Section IV -	Certification						
I hereby certify that:							
A. I have complied with Section 21.33(a)							
condition for safe operation, and was flight checked on	B. The aircraft described above, produced under type certificate only (FAR 21 Subpart F), conforms to its type certificate, is in a condition for safe operation, and was flight checked on(Date)						
C. The engine or propeller described above, presented herewit	h for type certification, conforms to th	e type design therefor.					
D. The engine or propeller described above, produced under ty certificate and is in a condition for safe operation. The engine of manufacturer to a final operational check on	D. The engine or propeller described above, produced under type certificate only (FAR 21 Subpart F), conforms to its type certificate and is in a condition for safe operation. The engine or, if applicable, the variable pitch propeller was subjected by the manufacturer to a final operational check on						
Deviations:							
Stage II noise level hushkit.  Refueling equipment "A" Kit installation consists of AR fuel transfer pumps and mounts. AR fuel delivery manifold. AR fuel computer, added wiring Refueling equipment "A" Kit installation consists of AR fuel transfer pumps and mounts. AR fuel delivery manifold. AR fuel computer, added wiring looms, added hydraulic pluming, assorted valves, switches and brackets. Structural additions to support the two pressure boxes containing the hose reels.							
Refueling equipment "B" Kit installation consists of two removable pressure boxes installed in the aft lower cargo area (Lower Lobe), complete with aerial refueling hose reels. This "B" Kit connects to the "A" Kit which transitions to the center fuel tank. The "B" Kit also consists of removable transition tubes and quick disconnect hydraulic lines. A removable refueling control panel is installed at the flight engineers station. The refueling control panel is also part of the "B" Kit.							
Other Mission Equipment Installed 1. Tacan 2. UHF comm. radios 3. Pilots video display system 4. Mode IV IFF Transponder 5. Relative Kinematic Carrier Phase (GPS System)							
Signature Of Certifier	Title Kevin O'Neill - D	irector of Quality Control					
Organization Omega Air Inc.		Date 2 1 APR 2011					
		NSN: 0052-00-025-3002					

# MARKET SURVEYS APPLICANT PROGRAM LETTER SPECIAL AIRWORTHINESS CERTIFICATE

1. Registered Owner (	(as shown on	Certificate of Aircraft re	egistration)		-			
NAME: Ome	ADDRESS 9023 Wetmore Rd Bldg 92, San Antonio, TX 78216-4230							
2. Aircraft Descriptio	n			_				
1. Registration Mark		2. Aircraft Builder		3. Yr. Mfg				
N707AR		Boeing Airplane Com	pany	y 1969				
4. Aircraft Serial Nun	nber	5. Aircraft Model Desig	nation					
20029		707-321B						
3. Describe Program	Purpose for w	hich the aircraft is to be	used (FAR	21.193 (d)(1	1)).			
This aircraft will be u	ised to marke	t contract air to air refu	ıeling servi	ces at airsho	ows and			
demonstrations to Al	lied Air Forc	es Worldwide. Crew T	raining and	l Checking.				
4. List estimated flight	t hours requi	ed for program		Hrs:	800			
List estimated num	ber of flights	required for program		No. Flts:	300			
List estimated dura	tion for progi	rams (FAR 21.193(d)(2))	)	No. Days:	90			
5. Describe the areas	over which the	e flights are to be condu	cted, and ac	ldress of bas	e operation. (F	'AR. 21. 193(d)(3)).		
Base of Operations is	the Patuxen	River Naval Air Statio	on, Lexingto	on Park, Ma	ryland, USA.			
Flights will be condu	cted worldwi	de to include European	Theatre, F	ar East and	Mid East as d	irected		
by the United States l	Navy.							
	<del></del>				<del>-</del>			
6. Describe the aircraf aircraft) (FAR 21.19	-	n (attach three-view dra	awings or th	ree-view dir	nensioned pho	tographs of the		
Three-View drawings	attached.							
***								
	7	2-1-2-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-						
7. Date	1	itle (Print or Type)		Signature				
2 1 APR 2011		O'Neill or of Quality Control						

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PREPARED:	MARCONI FLIGHT SYSTEMS		
H. GARROW	MOJAVE, CALIFORNIA	3 of 15	
	TITLE:	MODEL:	1
CHECKED:	OMEGA AIR B707 TANKER MODIFICATION	B707-300	ı
D. ROBERTS			1
RELEASE DATE:	WEIGHT AND BALANCE REPORT – A + B KIT	DOCUMENT:	
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### 2.0 REFERENCE DIMENSIONS

Reference dimensions for the B707-300 series aircraft are shown in Figure 1. The arm station coordinates and production fuselage station coordinates are summarized in Figure 2. These figures are taken directly from Reference 1, and are applicable to the B707-300 series only.

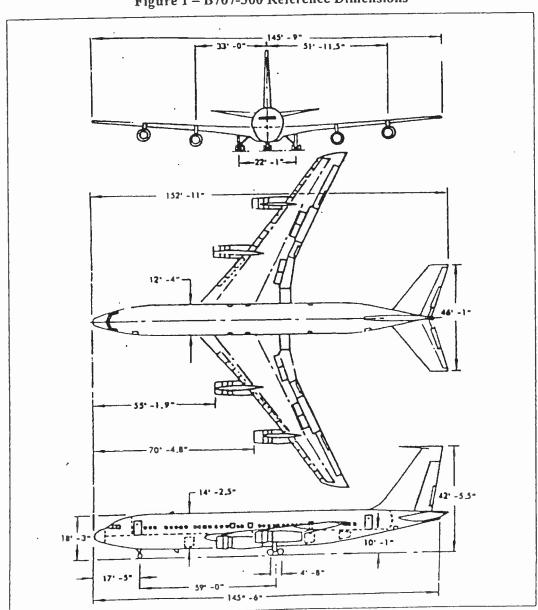
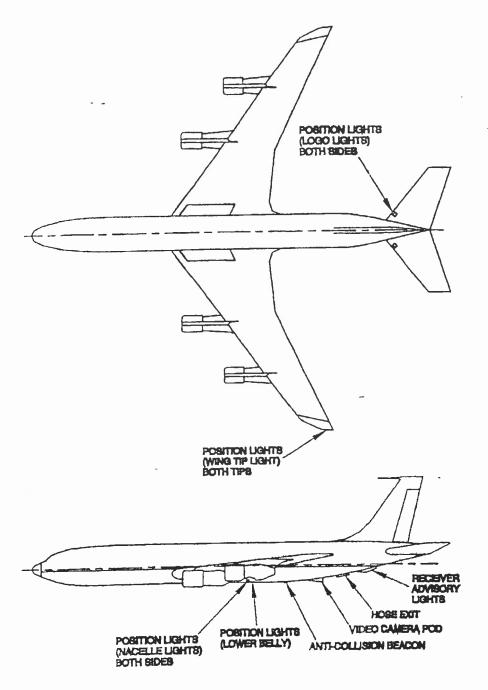
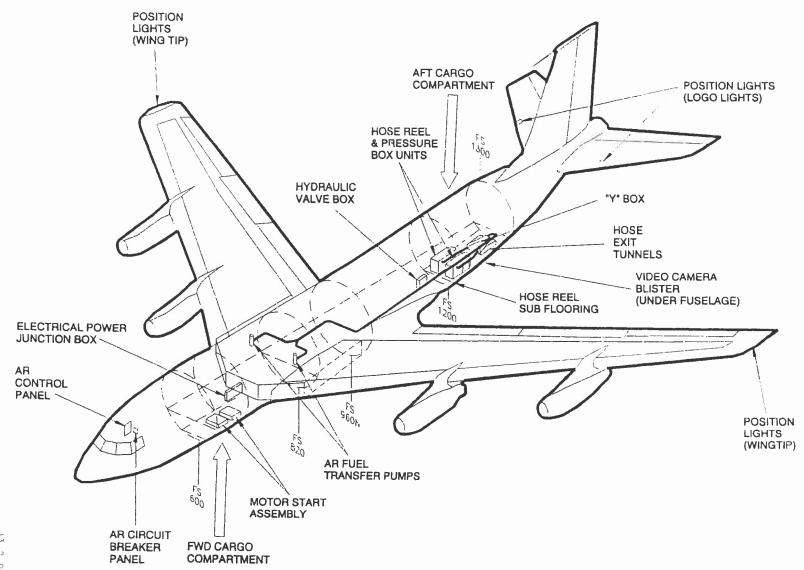


Figure 1 - B707-300 Reference Dimensions



13-2-023(2)-1099

Figure 1-1. Aerial Refueling (AR) System Component Locations (Sheet 2 of 2)



1 10201

# WEIGHT AND BALANCE REPORT

# BOEING 707-321B SERIAL # 20029 N707AR October 9, 2010

Aircraft weight and balance updated to reflect changes as shown below.

ITEM	WEIGHT	ARM	MOMENT
OLD EWCG .	143,637	854,41	122,733,341
Removed G.E. Drogue tracker on tailcone.	(25)	1680	(42,000)
Removed G.P. data recording equipment in aft galley.	(29)	1420	(41,180)
Removed Equipment Rack with equipment on left side in cabin	(250)	640	(160,000)
Removed Laser gyro platform equipment on left side of cabin.	(92)	690	(63,480)
Removed Litton Laser gyro platform on left side of cabin.	(50)	720	(36,000)
Removed power supply on right side of cabin.	(63)	640	(40,320)
Removed E.W.S. Equipment rack on side of cabin.	(269)	708	(190,452)
New Aircraft Empty Weight ===>	142,859	855.11	122,159,909

New Aircraft Empty Weight = 142,859 lbs New Aircraft Total Moment = 122,159,909

New Aircraft C.G. = 855.11 inches aft of datum

New % M.A.C. = 33.82 %

This report supercedes weight and balance report dated 10/04/2010

Patrick Pale	A&P #	 October 9, 2010