

## **EXHIBIT C**



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## **INMARSAT**

### **ACCESS APPROVAL Number DASS-102**

♦ This document includes : 6 (six) pages



**Annex I to Inmarsat  
Certificate of Access approval  
for an Aircraft Earth Station      No: DASS-102**

1.	Date of Issue	:	24 February 2000
2.	AES Integrator	:	Thomson-CSF Detexis
3.	Avionics Type	:	Jetsat Aero-I
4.	Technical Characteristics and Installation details	:	See Attachment A
5.	Optional Capabilities*	:	None
6.	Limitations	:	None
7.	Approved to Module 1 Version	:	1.46.04
8.	Approved to Module 2 Version	:	1.20.02
9.	Provisions attached to Commissioning Certificate	:	None

\* Recommissioning may be required when adding optional capabilities



# ATTACHMENT A

ACCESS APPROVAL NUMBER: DASS-102

## TECHNICAL DETAILS

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1. RF CHANNEL RATES : P: 600, 1200 BIT/S  
R: 600, 1200 BIT/S  
T: 600,1200 BIT/s  
C: 8400 BIT/S
2. IMPLEMENTATION LEVEL : VOICE, DATA 2
3. AES CLASS : Class 3
4. NUMBER OF CHANNELS : 4 VOICE + 1 DATA
5. ANTENNA : a) Antenna Type:  
Thomson-CSF Detexis IGA  
b) Beam Pointing Error:  
Maximum value = 0.5 dB  
d) Cable Losses:  
HLD to Antenna: 1.4 dB (1) 2.1 dB (2)  
(the HLD integrates the HPA and the D/LNA)
6. AES COVERAGE VOLUME : (1) 97.1% Minimum  
(2) 85% Minimum
7. EQUIPMENT MANUFACTURER(S)  
SDU/HLD/IGA : Thomson-CSF Detexis, St Cloud, France



**ATTACHMENT A (cont'd...)**

**ACCESS APPROVAL NUMBER: DASS-102  
TECHNICAL DETAILS**

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**8. EQUIPMENT PART NUMBERS**

SDU	:	3433-500-XXX
HLD	:	3433-300-XXX
IGA	:	3433-105-XXX



SUPPLEMENT CONTROL SHEET FOR  
AES CONFIGURATION SATCOM JETSAT AERO-I WITH  
ACCESS APPROVAL NUMBER DAASS-102

New Issue Number	Date	AES Engineer	Description of the Modification
A	24/02/00	Carole Plessy-Gourdon	Original Access approval





# ACCESS APPROVAL CERTIFICATE

## FOR AN AIRCRAFT EARTH STATION INSTALLATION TYPE FOR USE WITH THE INMARSAT SATELLITE COMMUNICATIONS SYSTEM

**WHEREAS**, Thomson-CSF Detexis the Integrator of an Aircraft Earth Station Installation, identified as **Jetsat Aero-I**, has submitted test data which demonstrates that the Aircraft Earth Station Installation type when operating in the environmental conditions set forth in the Integrator's application dated 7 July 1999, meets the applicable technical requirements for use with the Inmarsat Satellite Communications System, as issued by Inmarsat Limited in the document entitled "Aeronautical System Definition Manual"; and

**WHEREAS**, said Integrator has certified that all other installations of the same type will meet said technical requirements in a similar manner to the unit subjected to test and that the results of the tests in accordance with procedures approved by Inmarsat Ltd. demonstrate that said Aircraft Earth Station Installation type and other units of the same type are capable of providing the following communications functions, reliant upon any conditions or exceptions in Annex I:

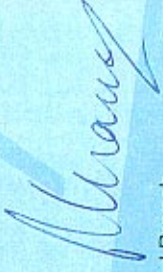
**Basic Communications Capacity Class** : Voice +Data 2 : 3

**Installation Type Subsystem Reference**  
Jetsat Aero-I

**Manufacturer**  
Thomson-CSF Detexis

**NOW, THEREFORE**, in reliance upon the foregoing, Inmarsat Ltd. does hereby certify that the Aircraft Earth Station Installation type identified herein is acceptable for use with the Inmarsat Satellite Communications System as of the date of this certificate.

**Inmarsat Limited**

**Signature** :   
**Name** : Paul Branch  
**Title** : Vice President - Product Development & Engineering  
**Date** : 25 February 2000

**NOTE, HOWEVER:**

1. This certificate is intended only as formal notification to the above identified AES Integrator that Inmarsat Ltd. has determined, on the basis of data submitted by the AES Integrator, that the Aircraft Earth Station Installations of the type identified herein, meet the relevant standard (with the exceptions described in Annex I) for use with the Inmarsat system. This certificate is not a warranty and Inmarsat Ltd. hereby expressly disclaims any and all liability arising from or in connection with issuance, use, or misuse of this certificate. This certificate does not confer access approval for the Aircraft Earth Station Installation type to any other system.

2. This certificate does not authorise the operation of any AES in the Inmarsat system. Such authorization requires commissioning after installation. In accordance with the commissioning procedures established by Inmarsat Ltd. In addition, the operation of the AES may also be subject to national licensing requirements.

\* For the purpose of commissioning, the Access approval Number must be quoted with the applicable issue identifier, refer to Annex I.