AHM 560

EDP EXCHANGE FOR SEMI-PERMANENT DATA FOR CHECK-IN AND LOAD CONTROL

RECOMMENDED that, Carriers and Handling Compagnies shall exchange information to establish and update the data base for the Departure Control Systems as follows:

1. INFORMATION TO BE EXCHANGED BETWEEN HEAD OFFICES

Contacts - there shall be only one official responsible for compiling/sending data to the handling agent and for receiving/distributing data within his organisation.

If any items on the attachments are irrelevant to a particular EDP (Electronic Data Process) system, such items shall not be omitted from the forms but shall be marked "NOT APPLICABLE".

Updates without specified effective date should be implemented in the system within two weeks after receipt.

Use standardized data sheets, in accordance with the attached specimens.

Exchange of data for notice authorisation to semi-permanent data for use on the handling carriers/compagnies line system, using AHM 052 procedures which is to be redeveloped into machine readable format.

2. INFORMATION TO BE OBTAINED AT STATION LEVEL ACCORDING TO HANDLING AGENT'S LOCAL PROCEDURES

For each sector:

taxi fuel information;
estimated take-off fuel;
estimated trip fuel;
estimated payload;
changes to basic weight/basic index;
changes to dry operating weight/dry operating index;
crew — number and where seated;
pantry — weight and location;
equipment not included in basic weight;
load plan information;
passenger handling information, e.g. seat selection procedures.

Commentary

Several Members have automated or intend to automated their check-in and load control system.
When these systems are intended to include the flights of other carriers, the carriers are required to provide the data necessary for EDP handling.
A carrier may be preparing data for more than one handling agent. It helps to use data sheets of uniform design and content.
In the interest of speed and convenience, data of a seasonal nature should be obtained at station level.

1. HANDLING AGENTS'S CONTACT ADDRESS

Completed sheets and changes of basic data and procedure must be forwarded to:

MAILING ADDRESS: sgs.dcs@sas.dk

TELETYPE ADDRESS: CPHKMSK

REMARKS: OY-RCG

2. CARRIER'S CONTACT ADDRESS

MAILING:
ATLANTIC AIRWAYS
Vagar Airport
FO-380 Soervag
Faroe Islands
Phone : +298 341000 – Fax : +298 341001
E-mail : samal@atlantic.fo

TELETYPE ADDRESS: SITA : FAEADRC

REMARKS: OY-RCG

3. AUTOMATICALLY PRODUCED DOCUMENTS
(tick as required)

NOTOC
SEATPLAN
LOADPLAN
PASSENGER INFO LIST
LOADSHEET
LOADING INSTRUCTION/REPORT

4. MESSAGE REQUIREMENTS
(tick as required)

LPM Load Planing message AHM 580
LDM Load Message AHM 583
ALI Abbreviated Load Information Message AHM 587
CPM ULD Control Message AHM 388 (dispatch only)
MVT Movement Message AHM 011 and 780
DIV Diversion Message AHM 781
SOM Seats Occupied Message Recommended Practice 1712
PTM Passenger Transfer Message Recommended Practice 1718
PSM Passenger Service Message Recommended Practice 1715 (dispatch only)
TPM Teletype Passenger Manifest Recommended Practice 1717 (dispatch only)
PFS Passenger Final Sales Message Recommended Practice 1719 (dispatch only)
IDM Industry Discount Message Recommended Practice 1714
RQL Request List Message Recommended Practice 1709 (dispatch only)
PNL/ADL Passenger Name List, and Additions and Deletions List
(Recommended Practice 1708) (acceptance only)
SAL Seats Available List Recommended Practice 1713 (acceptance only)
SLS Statistical Load Summary AHM 588
FMM Fuel Monitoring Message AHM 782
RQM Request Information Message AHM 783
UWS ULD/Bulk Load Weight Signal AHM 581 (acceptance only)

5. MESSAGE ADDRESSES

Attach a complete address list for all messages mentioned under paragraph 4 above.
Company note: “Atlantic Airways REV 19”

ALL WEIGHTS IN KILOGRAM (kg)

1. PASSENGER AND BAGGAGE WEIGHTS

1.1 Passenger weights

	ALL FLIGHTS EXCEPT HOLIDAY CHARTERS	HOLIDAY CHARTERS
Standard Adult	84	76
Adult Male	88	83
Adult Female	70	69
Child	35	35
Infant	00	00

Remarks: **NIL** for infant carried by an adult on one passenger seat.

1.2 Cabin Baggage Weight

	Yes	No
Cabin baggage weight is included in the above mentioned passenger weights.	☒	☐

If No: Actual cabin baggage weight must be used.

Remarks:

1.3 Checked Baggage Weight

Weight per piece	ACTUAL
Weight per passenger	13

Enter "actual" if standard weight not permited.

Remarks:

2. CREW AND CREW BAGGAGE WEIGHTS

2.1 Crew weights

Cockpit crew	85
Cabin crew	75

Cabin baggage weight is included in the above crew weights. Yes ☒ No ☐

If No: Crew baggage weights must be specified in 2.2.

Remarks:

2.2 Crew Baggage Weights

For check purposes add list of valid weights and indices.

	Cockpit	Cabin
Shorthaul		
Longhaul		
Others*		

*Specify conditions as appropriate.

Remarks:

3. DRY OPERATING WEIGHT AND DRY OPERATING INDEX SPECIFICATIONS
(tick as appropriate)

	DOW		DOI		Remarks
Item	incl.	Excl.	incl.	Excl.	
Basic weight	✓		✓		
Crew	✓		✓		
Crew baggage	✓		✓		
Pantry	✓		✓		
Containers					
Pallets					

Remarks:

1. BALANCE AND SPECIAL INFORMATION - OUTPUT ON LOADSHEET

1.1 Balance output

Please mark your requirements in respective box.			Remarks
Basic Index	BI		
Dry Operating Index	DOI	X	
Deadload Index	DLI		
Deadload MAC	MACDLW		
Loaded Index at zero fuel weight	LIZFW	X	
Loaded Index at take-off weight	LITOW	X	
Loaded Index at landing weight	LILAW	X	
MAC - at zero fuel weight	MACZFW	X	
MAC - at take-off weight	MACTOW	X	
MAC - at landing weight	MACLAW		
Stabilizer trim setting at take-off	STABTO*	X	

*Specify ANU or AND as appropriate.

1.2 Special information

The following information must be entered in the lower part of the EDP-Loadsheet, e.g. Loadmessage before LMC, Baggage, Cargo and Mail specifications, etc.

- LDM before LMC
- PTM with PNL
- BAG
- CARGO and MAIL SPECIFICATIONS

ALL WEIGHTS IN KILOGRAM (kg)

1.3 Seating Conditions

State below the seating conditions are to be shown on the loadsheet in the respective box (give example).

1.4 Special Information

Specify the information to be entered in the lower box of the EDP Loadsheet.

Captain's information/notes, Center of Gravity limits, ramp weight, etc… (give examples).

Loadmessage before LMC, if required, to be shown.

2 AIRCRAFT REGISTRATIONS, WEIGHT AND INDEX DETAILS

DRY OPERATING WEIGHT ☐ BASIC WEIGHT ☒ (tick as appropriate)

For check purposes add list of valid weights and indices.

Fleet Weigt and Index					
Registration	Weight	Index	Registration	Weight	Index
OY-RCG	39945 kg	48,2			

Note: Notification for data changes at short notice may also be made by means of a data exchange message (AHM 052).

3. BASIC INDEX AND MAC FORMULA

3.1 Examples and definitions

$$\text{Index} = \frac{W \,.\, (\text{Sta.} - \text{Ref. Sta.})}{C} + K$$

$$\%\text{MAC} = \frac{\left(\frac{C \,.\, (I - K)}{W}\right) + \text{Ref. Sta.} - \text{LEMAC}}{\frac{\text{MAC}}{100}}$$

W = Weight, actual
Sta. = Station, horizontal distance in meters from station zero to location.
Ref. Sta. = Reference station/axis. Selected station around which all index values are calculated.
K = Constant used as a plus value to avoid negative index figures.
C = Constant used as a denominator to convert moment values into index values.
I = Index value corresponding to respective weight.
MAC = Lenght of the Mean Aerodynamic Chord in meters.
LEMAC = Horizontal distance in meters from the station zero to location of the Leading Edge of the MAC.

3.2 Index formula

Ref. Sta. at = 17.250 meters from zero.
K (constant) = 50
C (constant) = 1000

3.3 MAC information

Lenght of MAC = 4.194 meters
LEMAC at = 16.2016 meters from zero

3.4 Stabilizer trim setting

MAC range	STAB range	
14	3.5	Up
18	3.5	Up
41	-3	Down

linear variation between 18% and 41%

%RC	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Trim	3,5	3,5	3,5	3,5	3,5	3,2	2,9	2,7	2,4	2,1	1,8	1,5	1,2	1,0	0,7	0,4

30	31	32	33	34	35	36	37	38	39	40	41
0,1	-0,2	-0,5	-0,7	-1,0	-1,3	-1,6	-1,9	-2,2	-2,4	-2,7	-3,0

AHM 560 (continued)

EDP-SYSTEM
SEMI-PERMANENT DATA

AIRCRAFT DATA	C Sheet 4
A/C Type A319-115	Carrier RC

4 EFFECT OF FUEL/INJECTION WATER

Fuel Loading ☒
Fuel Usage ☐
Standard Procedure ☒ **(tick as appropriate)**
Non-standard Procedure ☐ **FUEL DENSITY:** **0.785**

Fuel Weight	Index Value
3500	+1.08
4000	+0.56
4500	+0.07
5000	-0.40
5500	-0.84
6000	-1.26
6500	-1.66
7000	-2.03
7500	-2.39
8000	-2.72
8500	-3.04
9000	-3.29
9500	-3.41
10000	-3.41
10500	-3.26
11000	-2.99
11500	-2.58
12000	-2.07
12500	-1.46
13000	-1.93
13500	-2.56
14000	-3.26
14500	-4.03
15000	-4.80
15500	-5.58

Fuel Weight	Index Value
16000	-6.36
16500	-7.13
17000	-7.91
17500	-8.69
18000	-9.47
18500	-10.24
19000	-11.09
FULL	-11.10

5. COCKPIT

5.1 Number of seats and average station

Maximum number of cockpit seats	Length of arm from reference station	Index influence per 1 kg
	meters	
4	-11.810	-0.01181

Remarks:

6 LIMITATIONS

6.1 Aircraft Weight Limitations

Maximum weights for:

Aircraft Reg. or Subtype No.	Ramp/Taxi	Design take-off wet*	Design take-off dry	Zero fuel	Design landing
OY-RCG	73900		73500	58500	62500
	70400		70000	58500	62500
	68400		68000	58500	62500
	66400		66000	58500	62500

*Valid for take-off with injection water.

6.2 CG - Limits for Loadsheet Purposes

Enter the forward and the aft balance limits in the boxes, commencing at the lowest weight and terminating at the highest to checked.

IMPORTANT: If the limits are affected and/or determined by passenger/fuel/version or other conditions, specify each set of limits on a seperate sheet, entering the special condition(s) in the box.

FORWARD

Special condition if applicable		
Specify applicability *	Weight	Index Value
ZFW	35400	+42.95
	43870	+38.34
	49722	+35.64
	50184	+35.54
	50646	+36.19
	51108	+48.17
	51570	+48.52
	52032	+48.77
	52494	+48.90
	52956	+48.91
	53418	+48.81
	53880	+48.60
	54920	+47.92
	56400	+47.72
	58500	+56.76

AFT

Special condition if applicable		
Specify applicability *	Weight	Index Value
ZFW	35400	+63.80
	57114	+76.55
	57576	+76.86
	58500	+77.40

Remark: Operational limits taken into account the following LMC:
- 2 pax max in cabin zones
- 100 kg max in cargo holds

6.2 CG - Limits for Loadsheet Purposes

Enter the forward and the aft balance limits in the boxes, commencing at the lowest weight and terminating at the highest to checked.

IMPORTANT: If the limits are affected and/or determined by passenger/fuel/version or other conditions, specify each set of limits on a seperate sheet, entering the special condition(s) in the box.

FORWARD

Special condition if applicable		
Specify applicability *	Weight	Index Value
TAKEOFF	35400	+40.67
	53000	+32.55
	63000	+46.33
	66000	+45.82
	68000	+45.48
	70000	+45.15
	73500	+44.67

AFT

Special condition if applicable		
Specify applicability *	Weight	Index Value
TAKEOFF	35400	+48.94
	36000	+49.04
	46800	+64.59
	65300	+73.21
	66000	+73.44
	68000	+74.41
	70000	+75.33
	73500	+76.90

Remark: Operational limits taken into account the following LMC:
- 2 pax max in cabin zones
- 100 kg max in cargo holds

EDP-SYSTEM SEMI-PERMANENT DATA	AIRCRAFT DATA	C Sheet 8
Cabin-Configuration(s) 144 YC	A/C Type A319-115	Carrier RC

7. PASSENGER SEATS

Class codes: Class 1 YC Class 4 _____

(e.g. F, Y, C, M, etc…) Class 2 _____ Class 5 _____

Class 3 _____

Note: *Fill in one table for each cabin configuration code.*

Name of cabin section	Number of seats						Total per cabin section
	Class 1	Class 2	Class 3	Class 4	Class 5		
OA	54						54
OB	48						48
OC	42						42
Subtotal							
Total per class	144						

Remarks:

EDP-SYSTEM SEMI-PERMANENT DATA	AIRCRAFT DATA	C Sheet 9
Cabin-Configuration(s) 144 YC	A/C Type A319-115	Carrier RC

8. AVERAGE STATION

8.1 Class/Cabin sections

Class/Cabin Section	Lenght of arm from reference station	Index influence
	meters	per 1kg
OA	-4.968	-0.00497
OB	+1.839	+0.00184
OC	+7.518	+0.00752
Strecher (35kg)	+7.518	+0.00752

8.2 Seating layout

Show the passenger seating layout for the configurations given in the box at the top by inserting the seat row numbers and letters in the following table. For special seats use the description code listed below.

B= Bassinet position
C= Crew seat
E= Emergency exit
G= Groups
H= Incapacitated passenger
I = Infant preference rows/seats
J = Rear facing seats
K= Near galley
L = Leg space seat
M= Wheel chair
N= No smoking
O= Over wing seat
P= Stretcher location
Q= Quiet zone
S= Smoking
T= Near toilet
U= Unaccompagnied minor
V= Seat left vacant/offered last
W= No movie
X= No facility seat (e.g. no distinction between smoking and non-smoking)
Y= Not fitted
Z= Buffer zone
A= Aisle

Alpha/Characters - D, F, R, Blank, not used.

***Note**: Seat designators to be in accordancewith Recommended Practice 1711.*

EDP-SYSTEM SEMI-PERMANENT DATA	AIRCRAFT DATA	C Sheet 11
Cabin-Configuration(s) 144 YC	A/C Type A319-115	Carrier RC

8.2.1 Seatplan Layout/Facilities and Row Index Influence

Section	Row No.	ROW LETTER										Index influence per seat row
		A	B	C	D	E	F					per 1 kg
OA	1	N	NV	N	N	NV	N					-0.00822
	2	NU	NV	N	N	NV	NU					-0.00741
	3	N	NV	N	N	NV	N					-0.00659
	4	N	NV	N	N	NV	N					-0.00578
	5	N	N	N	N	N	N					-0.00497
	6	N	N	N	N	N	N					-0.00416
	7	NI	N	N	N	N	NI					-0.00334
	8	NOI	NO	NO	NO	NO	NOI					-0.00253
	9	NOI	NO	NO	NO	NO	NOI					-0.00172
OB	10	NOE	NOE	NOE	NOE	NOE	NOE					-0.00083
	11	NOI	NO	NO	NO	NO	NOI					-0.00007
	12	NOI	NO	NO	NO	NO	NOI					+0.00070
	13	NOI	NO	NO	NO	NO	NOI					+0.00146
	14	NOI	NO	NO	NO	NO	NOI					+0.00222
	15	NOI	NO	NO	NO	NO	NOI					+0.00298
	16	NI	N	N	N	N	NI					+0.00374
	17	NI	N	N	N	N	NI					+0.00451
OC	18	NIU	N	N	N	N	NIU					+0.00527
	19	NHMIU	N	N	N	N	NHMIU					+0.00603
	20	NIU	N	N	N	N	NIU					+0.00679
	21	NHMIU	N	N	N	N	NHMIU					+0.00753
	22	NPIU	NP	NP	NP	NP	NPIU					+0.00827
	23	NHMPIU	NPU	NPU	NPU	NPU	NHMPIU					+0.00900
	24	NP	NP	NP	NP	NP	NP					+0.00974

8.3 Cabin Crew Seats

Crew seats locations	Maximum No. of seats	Lenght of arm from reference station	Index influence
		meters	per 1 kg
AFT of toilet La	2	-9.923	-0.009923
AFT of stowage S2	1	+10.957	+0.010957
FWD of toilet L	1	+11.429	+0.011429

Remarks:

8.4 Galleys

Galley locations	Lenght of arm from reference station	Index influence
	meters	per 1 kg
G1	-10.572	-0.01057
G4	+12.145	+0.01215

Remarks:

EDP-SYSTEM SEMI-PERMANENT DATA	AIRCRAFT DATA	C Sheet 12
Cabin-Configuration(s) 144 YC	A/C Type A319-115	Carrier RC

8.5 Pantry Weight/Pantry Code (normally used for above mentioned cabin configurations).

Pantry Code	Pantry Weight	Index change
Outbound	770 kg	+3,2
Inbound	479 kg	+1,8
Charter	790 kg	+3,2
Total		

Note: The columns "Pantry Weight" and "Location" must be filled in only if Basic Weight is specified under paragraph 2.

Remarks:

8.6 Crew distribution/Crew Code (normally used for above mentioned cabin configurations).

Note: *The column "Location" is to be filled in only if Basic Weight is specified under paragraph 2.*

Crew Code	Cockpit Crew	Cabin Crew	Location *	Location of crew baggage

*Use the locations as under paragraph 8.3

9. DETAILS FOR COMPARTMENT TRIM

		Maximum capacity		
Compartment Number	Description	Gross Weight	Volume *	Index value per 1 kg
1	Forward cargo hold	2268	8,51	-0.00563
4	Aft cargo hold	3021	11,83	+0.00447
5	Rear (Bulk) cargo hold	1497	7,22	+0.00840
DIP-Locker				

*Volume information required for bulk compartments only.

Remarks:

FWD and AFT cargo compartments:
The floor structure is capable of supporting a max distributed load of 732 kg/m2.
Each floor pannel is capable of supporting a load of 906 kg

9.1 Combined Load Limitations

Attach relevant compagny regulations.

10. DETAILS FOR BAY/SECTION TRIM

	Maximum capacity		
Bay/Section	Gross Weight	Volume *	Index value per 1 kg
Bulk			

* Volume information required for bulk compartments only.

Note 1: *Attach a plan for each compartment configuration.*

Note 2: *Use additional sheets as required.*

10.1 Unsymmetrical Load Limitations

Attach relevant compagny regulations.

11. BALLAST

FIXED PROVISIONS FOR CARRYING BALLAST.

Specify or attach a table.

Remarks:

1. CG — LIMITS

ALL WEIGHTS IN KILOGRAM (kg)

1.1 Planning Limits

CG-limits for loadplanning purposes shall be agreed between carrier and system operator.

1.2 Desired Trim Line at ZFW for fuel Saving Purposes

If possible the first 2000kg shall be in compartment 4. After 2000kg it shall be divided 50/50 between compartment 1 and 4 or 5. Ex. If you have 2500kg og bag and cargo, then the first 2000kg in compartment 4. The remaining 500kg is divided with 250kg in compartment 1 and 250kg in compartment 4 or 5.

2. UNIT LOAD DEVICES DETAILS

		Maximum capacity		
Type Code	Tare Weight	Gross Weight	Volume *	Remarks

* Containers/Igloos only

Note: *For pallets, specify Lower Deck or Main Deck.*

3. SPECIAL LOAD

AVIH 2-5 in compartment 1 and 4 and 5
DGR 1-4 is allowed.

When Strecher in Cabin add 35kg and placed in OC, index change +0.263