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# GENERAL NOTICE

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## NOTICE 501 OF 2005

### AIR TRAFFIC AND NAVIGATION SERVICES COMPANY LIMITED

AIR TRAFFIC AND NAVIGATION SERVICES COMPANY ACT, 1993 (ACT No. 45 OF 1993)

PUBLICATION OF AIR TRAFFIC SERVICE CHARGES

REPLACEMENT NOTICE

In terms of section 5(2)(f) of the Air Traffic and Navigation Services Company Act, 1993 (Act No. 45 of 1993), and after further consultation with the users concerned, it is hereby published for general notice that as from **1 April 2005 to 31 March 2006** the Air Traffic and Navigation Services Company Limited, No. 1993/004150/06, will levy the air traffic service charges according to the rules set out in the Schedule.

This notice replaces Notice **2982** of **31 December 2004**.

**M.M. MABASA,**

Chairman : Board of Directors.

March 2005

**SCHEDULE**  
**AIR TRAFFIC SERVICE CHARGES**

**1. Interpretation**

For the purposes of these Rules, unless the context otherwise indicates -

- (a) "ACSA" means Airports Company South Africa Limited;
- (b) "ACSA airport" means a company airport as defined in section 1 of the Airports Company Act;
- (c) "ACSA TMA airspace" means TMA airspace associated with an ACSA airport, which may extend to non-ACSA airports;
- (d) "area (en *route*) airspace" means airspace that excludes -
  - (i) aerodrome airspace;
  - (ii) TMA airspace; and
  - (iii) FIS-only airspace, when the Company has determined its dimensions;
- (e) "aircraft" means any machine that can derive support in the atmosphere from the reactions of the air other than the reactions of the air against the earth's surface, and includes any non-type certificated aircraft;
- (f) "airport" means an aerodrome as defined in section 1 of the Aviation Act, 1962 (Act No. 74 of 1962), and includes an ACSA airport;
- (g) "Airports Company Act" means the Airports Company Act, 1993 (Act No. 44 of 1993);
- (h) "air traffic service charge" means an amount levied by the Company on the operator of an aircraft in connection with the provision of air traffic services to that operator;
- (i) "air traffic service unit" means an air traffic control unit, flight information centre or air traffic service reporting office;
- (j) "ATM" means air traffic management;
- (k) "air traffic management (ATM) services" includes without limitation -
  - (i) airspace organisation and management services;
  - (ii) information management services;
  - (iii) alerting services;
  - (iv) advisory services;
  - (v) conflict management services;
  - (vi) traffic synchronisation services;
  - (vii) flight information services; and
  - (viii) demand and capacity balancing services;

- (l) "BSC" means business sustaining cost;
- (m) "Civil Aviation Regulations" means the Civil Aviation Regulations, 1997, as amended;
- (n) "Company" means Air Traffic and Navigation Services Company Limited;
- (o) "Company representative" means a person designated by the Company for the purposes of these Rules;
- (p) "current charges" means the Aerodrome Charges, the TMA Access Charges and the Area Charges levied in terms of these Rules;
- (q) "d" means flight distance;
- (r) "FACT" means Cape Town International Airport;
- (s) "FADN" means Durban International Airport;
- (t) "FAJS" means Johannesburg International Airport;
- (u) "FC" means fixed cost;
- (v) "FIS-only airspace" means airspace in which flight information services are provided exclusively;
- (w) "flight" means from the moment an aircraft commences its take-off until the moment it completes its next landing;
- (x) "gateway" means the point of entry into or exit from the South African flight information region;
- (y) "maximum certificated mass" means the maximum permissible mass shown in the aircraft flight manual or other document associated with the certificate of airworthiness at which an aircraft may commence its take-off under standard atmospheric conditions at sea level;
- (z) "MCM" means maximum certificated mass;
- (aa) "movement" means a flight, or a portion of a flight, through any aerodrome airspace, TMA airspace or area (en *route*) airspace;
- (bb) "non-type certificated aircraft" includes without limitation any amateur-built, production-built, ex-military and vintage aircraft;
- (cc) "operator", in relation to an aircraft, means -
  - (i) a licensee as defined in section 1 of the ~~Air~~ Services Licensing Act, 1990 (Act No. 115 of 1990), or a licensee as defined in section 1 of the International Air Services Act, 1993 (Act No. 60 of 1993);
  - (ii) any airline of another State which operates a scheduled international public air transport service in terms of an air transport service agreement as contemplated in section 35(1) of the International Air Services Act, 1993, or a permit holder as defined in section 1 of the said Act;
  - (iii) the owner of such aircraft; and
  - (iv) any person who uses an aircraft on behalf of an operator;

- (dd) “owner”, in relation to an aircraft, means the person in whose name such aircraft is registered, and includes any person who is or has been acting as agent in South Africa for a foreign owner;
- (ee) “previous charges” means the *en route* charges, approach charges and air traffic service annual charges levied in terms of the rules contained in Notice 534 of 26 March 2004;
- (ff) “Regulating Committee” means the Regulating Committee established by section 11 of the Airports Company Act;
- (gg) “South African flight information region” means the geographical area consisting of the flight information regions of Johannesburg, Cape Town and Johannesburg Oceanic;
- (hh) “South African Maritime and Aeronautical Search and Rescue Act” means the South African Maritime and Aeronautical Search and Rescue Act, 2002 (Act No. 44 of 2002);
- (ii) “state aircraft” means any state aircraft as contemplated in article 3 of the Convention on International Civil Aviation signed at Chicago on 7 December 1944;
- (jj) “terminal control area” means a control area normally established at the confluence of air traffic service routes in the vicinity of one or more ACSA airports;
- (kk) “TMA” means terminal control area; and
- (ll) “VC” means variable cost.

## 2. Right to levy air traffic service charges

The Company is entitled to levy air traffic service charges by virtue of a permission issued by the Regulating Committee on 1 December 2003 in terms of section 11(5) of the Air Traffic and Navigation Services Company Act, 1993, and published by Notice 1752 of 1 December 2003.

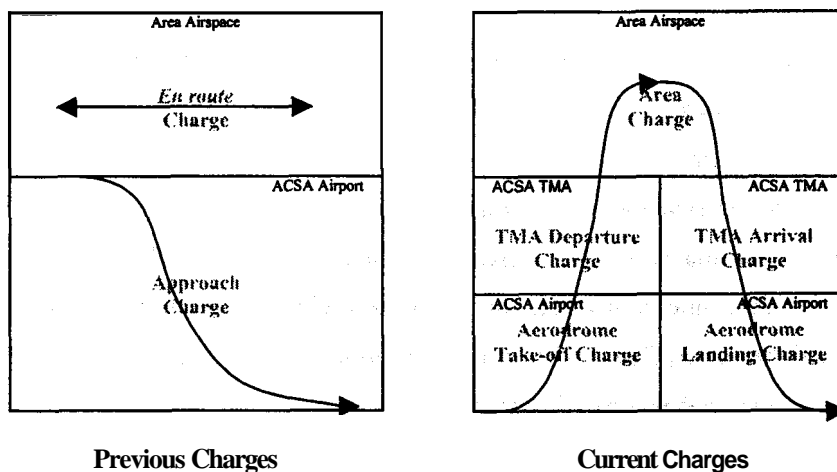
## 3. Air traffic service charges

### 3.1 There are three air traffic service charges, namely:

- (a) an Aerodrome Charge, payable for ATM services, specific to aerodrome airspace and maneuvering area, provided by the Company in respect of a flight that takes off from or lands at an ACSA airport;
- (b) a TMA Access Charge, payable for ATM services, specific to terminal airspace, provided by the Company in respect of a flight that departs from or arrives at ACSA TMA airspace, where the **airport** of origin or destination is within that ACSA TMA airspace;
- (c) an Area Charge, payable for ATM services specific to area (*en route*) airspace provided by the Company in respect of a flight undertaken within a flight information region

established by the Commissioner for Civil Aviation in terms of the Civil Aviation Regulations,

which are graphically illustrated as follows:



3.2 The air traffic service annual charge no longer applies.

#### 4. Cost components

4.1 Charges consist of the following cost components:

- (a) A variable cost component (VC);
- (b) a business sustaining cost component (BSC); and
- (c) a fixed cost component (FC).

4.2 VCs are treated as follows:

- (a) VCs are charged for each flight undertaken at a standard rate **per** movement;
- (b) VCs are the same for Aerodrome Charges, TMA Access Charges and Area Charges.

4.3 BSCs are treated as follows:

- (a) **BSCs are charged for each movement undertaken in relation to the MCM of an aircraft;**
- (b) **BSCs are the same for Aerodrome Charges, TMA Access Charges and Area Charges.**

4.4 FCs are treated as follows:

- (a) FCs are charged for each movement undertaken in relation to the MCM of an aircraft, and for Area Charges, also in relation to d within Company managed airspace;
- (b) Aerodrome Charges, TMA Access Charges and Area Charges each have a unique FC.

## 5. Independent variables

For purposes of charging, the independent variables of the tariff formulas set out in the Appendix, are the following:

- (a) Published MCM expressed in kilograms;
- (b) d measured on the basis of the great circle distance in nautical miles (rounded to the nearest nautical mile) along that portion of the flight path of an aircraft, which is within the boundaries of the South African flight information region, from the take-off airport or gateway to the landing airport or gateway.

## 6. Mass categories

6.1 Subject to the exceptions described in rules 6.2 and 6.3 below, the following aircraft mass categories apply:

- (a) Aircraft with a MCM of 5 000 kilograms or less are charged as follows:
  - (i) VC per movement;
  - (ii) BSC based on MCM; and
  - (iii) FC based on MCM, and for Area Charge, also based on d, but no Area Charge is levied if d equals zero;
- (b) aircraft with a MCM of more than 5 000 kilograms are charged as follows:
  - (i) VC per movement;
  - (ii) BSC based on the square root of MCM; and
  - (iii) FC based on the square root of MCM, and for Area Charge, also based on d, but no Area Charge is levied if d equals zero.

6.2 Aircraft with a MCM of 1 200 kilograms or less are not charged •

- (a) an Area Charge;
- (b) an Aerodrome Charge or a TMA Access Charge at ACSA airports or ACSA TMA airspace other than FAJS, FACT and FADN, but the Company reserves the right to levy an Aerodrome Charge or a TMA Access Charge if in its opinion this exception is abused;

**6.3** For aircraft with a MCM of 5 000 kilograms or less at FAJS, FACT and FADN, the FC components that would otherwise have applied, are replaced with -

- (a) a minimum FC in the calculation of the Aerodrome Charge; and
- (b) a minimum FC in the calculation of the TMA Access Charge.

## **7. Origin-destination differentiation**

**7.1** Differentiation applies in respect of the following flights:

- (a) A domestic flight, which is a flight undertaken by an aircraft where both the airport of departure and the airport of arrival of the aircraft are within South Africa;
- (b) a regional flight, which is a flight undertaken by an aircraft where either the airport of departure or the airport of arrival of the aircraft is within Botswana, Lesotho, Namibia or Swaziland, and the other airport is within South Africa or within Botswana, Lesotho, Namibia or Swaziland;
- (c) an international flight, which is a flight undertaken by an aircraft where either the airport of departure or the airport of arrival of the aircraft is within any State other than South Africa or Botswana, Lesotho, Namibia or Swaziland, and the other airport is within South Africa or elsewhere.

**7.2** All tariff cost components, except the minimum FC in respect of an aircraft with a MCM of 5 000 kilograms or less for Aerodrome and TMA Access at FAJS, FACT and FADN (where a minimum, nondifferentiated FC applies), are differentiated based on origin-destination as set out in the Appendix.

## **8. Formulas and coefficients**

Subject to these Rules, the tariff formulas and tariff coefficients are set out in the Appendix.

## **9. Payment of air traffic service charges and security deposits**

**9.1** Any document produced by the Company on which it is recorded that an ATM service was provided is deemed to be sufficient evidence that the ATM service was indeed provided.

**9.2** The operator of an aircraft which is engaged in a flight in respect of which the operator is liable to pay an air traffic service charge in terms of these Rules and in the case where the flight –



- (a) terminates at an ACSA airport, must pay the air traffic service charge to the Company representative at that ACSA airport before that aircraft is to take ~~off~~ from that ACSA airport;
- (b) commences at an ACSA airport and terminates at an airport other than an ACSA airport, must pay the ~~air~~ traffic service charge to the Company representative at that ACSA ~~airport~~ before that aircraft is to take ~~off~~ from that ACSA airport;
- (c) commences and terminates at airports other than ACSA airports, must pay the air traffic service charge to the Company within **30** days of receipt of an invoice from the Company in respect of the air traffic service charge,

unless the operator has previously entered into an agreement with the Company for payment.

**9.3** The Company may require the operator of an aircraft to deposit with the Company an amount as security against the risk of default on payment, as determined by the Company from time to time.

**9.4** No interest is payable by the Company on any deposit held by it in terms of these Rules.

## **10. General rules, exemptions and exceptions**

**10.1** The tariffs set out in these Rules, including the Appendix, are exclusive of Value-Added ~~Tax~~ and are therefore subject to the appropriate rate applicable to any specific tariff.

**10.2** Air traffic service charges are payable by the operator of an aircraft to the Company.

**10.3** Air traffic service charges are payable in respect of South African and foreign state aircraft, unless other provision has been made by means of an agreement with the Company.

**10.4** Air traffic service charges are payable in respect of helicopters, except at **FAJS** where no TMA Access Charge is levied.

**10.5** No air traffic service charge is payable in respect of an aircraft engaged in any flight for the calibration of any air navigation infrastructure.

**10.6** Air traffic service charges are payable in respect of an aircraft engaged in emergency medical service operations, unless exempted on a case-by-case basis by means of an agreement with the Company.

- 10.7 Subject to rule 10.9 below, no air traffic service charge is payable in respect of **an aircraft** requisitioned for and engaged in search and rescue operations in terms of the South African Maritime and Aeronautical Search and Rescue Act.
- 10.8 Air traffic service charges are payable in respect of an aircraft engaged in search and rescue operations, which aircraft has not been requisitioned in terms of the South African Maritime and Aeronautical Search and Rescue Act, unless exempted on a case-by-case basis by means of an agreement with the Company.
- 10.9 Search mission co-ordination services are payable by the relevant authority or any operator at a rate of R760.70 per hour or part thereof, where these services fall outside of the normal scope of alerting services and assistance to agencies involved in search and rescue operations, in particular where services are activated due to negligence in cancelling service requests.
- 10.10 (a) Aerodrome Charges and TMA Access Charges are payable in respect of Aerodrome and TMA Access movements solely for the purpose of air crew training at a discount of 50% of the applicable standard Aerodrome Charge or standard TMA Access Charge.
- (b) Training movements attract charges as follows:
- (i) **An** Aerodrome Charge is levied for each training movement upon take-off and upon landing from or at an ACSA airport, discounted as described in rule 10.10(a) above;
  - (ii) for a training movement that does not exit the aerodrome airspace, one Aerodrome Charge is levied for each circuit flown, discounted as described in rule 10.10(a) above; and
  - (iii) for a training movement that exits the aerodrome airspace into TMA airspace, rule 10.10(b)(i) above applies for each take-off and each landing, and a TMA Access Charge is levied for each circuit flown within the TMA airspace.
- (c) **For the purposes** of this rule, the words “take-off” and “landing” are construed to include **the use of ATM services** required for take-off and landing.
- (d) **Subject to a directive** or approval to the contrary by the Regulating Committee, the **discount described in rule 10.10(a)** above that applies at FAJS, FACT and FADN, will be **phased out as follows:**

Air crew training at FAJS, FACT or FADN	Training movement tariff discount
2005106	50%
2006107	40%
2007108	30%
2008109	20%
2009110	10%
2010111	0%

10.11 For oceanic flights over the Indian Ocean or the Atlantic Ocean within the South African flight information region, including those to and from Antarctica, the FC component of the Area Charge is 50% of the standard Area Charge.

10.12 Extended air traffic service charges at a rate of R1 521.41 per hour or part thereof, are payable by an operator for the extension of existing air traffic services beyond the normal negotiated and planned service amendments as documented in the Integrated Aeronautical Information Package (IAIP).

10.13 No Area Charge is payable in respect of any aircraft engaged in a flight that takes off and lands at the same airport.

10.14 Subject to a directive or approval to the contrary by the Regulating Committee, the origin-destination differentiation described in rule 7 above, will be phased out over a period of 10 years, as follows:

Financial year	Domestic flight tariff	Regional flight tariff	International flight tariff
2005106	73%	100%	127%
2006/07	76%	100%	124%
2007108	79%	100%	121%
2008109	82%	100%	118%
2009110	85%	100%	115%
2010111	88%	100%	112%
2011112	91%	100%	109%
2012/13	94%	100%	106%
2013/14	97%	100%	103%
2014115	100%	100%	100%

**10.15** The Company reserves the right to exempt the operator of an aircraft from payment of, or discount, any of the air traffic service charges if the Company is satisfied that the application of these Rules would amount to an unfair repetition of the same charge.

**APPENDIX**  
**TARIFF FORMULAS AND COEFFICIENTS**

1. An air traffic service charge is composed of the sum of VC, BSC and FC for each discrete Aerodrome, TMA Access and Area movement undertaken, according to the following mass categories and locations:

Main Weight Category	Airport	Cost Component	Formulas & Coefficients		
			Aerodrome Charge	TMA Access Charge	Area Charge
≤ 5 000 kg	FAJS, FACT & FADN ≤ 5 000 kg	VC	R14,12	R14,12	
		BSC	R98,31/10 000.MCM	R98,31/10 000.MCM	
		FC	R52,50	R94,24	
	1 200 kg > all airports ≤ 5 000 kg*	VC	R14,12	R14,12	R14,12
		BSC	R98,31/10000.MCM	R98,31/10000.MCM	R98,31/10000.MCM
		FC	R104,99/10 000.MCM	R18,85/1 000.MCM	R12,02/100 000.MCMd
> 5 000 kg	All Airports	VC	R14,12	R14,12	R14,12
		BSC	R69,51/100.√MCM	R69,51/100.√MCM	R69,51/100.√MCM
		FC			

2. Each Rand-value coefficient in the table above is multiplied by –

- (a) 73% for a domestic flight;
- (b) 100% for a regional flight: and
- (c) 127% for an international flight,

except in the case of FCs for Aerodrome and TMA Access Charges at FAJS, FACT and FADN for aircraft with MCM ≤ 5 000 kg where the coefficient as stated in the table applies.

3. As an illustration, assume the following flights:

**Example 1**

Domestic flight from FAJS to FACT, with aircraft with MCM = 100 000 kg and d = 686 miles

$$\begin{aligned}
 \text{Charge} &= [\text{Aerodrome Charge at FAJS} + \text{TMA Access Charge at FAJS} + \text{Area Charge} + \text{TMA} \\
 &\quad \text{Access Charge at FACT} + \text{Aerodrome Charge at FACT}].73\% \\
 &= [[\text{VC}_{\text{Aero}} + \text{BSC}_{\text{Aero}} + \text{FC}_{\text{Aero}}] + [\text{VC}_{\text{TMA}} + \text{BSC}_{\text{TMA}} + \text{FC}_{\text{TMA}}] + [\text{VC}_{\text{Area}} + \text{BSC}_{\text{Area}} + \text{FC}_{\text{Area}}] \\
 &\quad + [\text{VC}_{\text{TMA}} + \text{BSC}_{\text{TMA}} + \text{FC}_{\text{TMA}}] + [\text{VC}_{\text{Aero}} + \text{BSC}_{\text{Aero}} + \text{FC}_{\text{Aero}}]].73\%
 \end{aligned}$$

$$\begin{aligned}
&= [[R14,12 + (R69,51/100 \cdot \sqrt{100\,000}) + (R74,24/100 \cdot \sqrt{100\,000})] + [R14,12 + \\
&\quad (R69,51/100 \cdot \sqrt{100\,000}) + (R133,27/100 \cdot \sqrt{100\,000})] + [R14,12 + (R69,51/100 \cdot \sqrt{100\,000}) + \\
&\quad (R84,99/10\,000 \cdot \sqrt{100\,000 \cdot 6861} + [R14,12 + (R69,51/100 \cdot \sqrt{100\,000}) + (R133,27/100 \cdot \\
&\quad \sqrt{100\,000})] + [[R14,12 + (R69,51/100 \cdot \sqrt{100\,000}) + (R74,24/100 \cdot \sqrt{100\,000})].73\% \\
&= [(R14,12.5) + (R69,51/100 \cdot \sqrt{100\,000 \cdot 5}) + (R74,24/100 \cdot \sqrt{100\,000 \cdot 2}) + (R133,27/100 \cdot \\
&\quad \sqrt{100\,000 \cdot 2}) + (R84,99/10\,000 \cdot \sqrt{100\,000 \cdot 686})].73\% \\
&= R3\,157,81
\end{aligned}$$

### Example 2

International flight from **FAJS** to international gateway, with aircraft with **MCM = 4 500 kg** and **d = 211 miles**

$$\begin{aligned}
\text{Charge} &= [\text{Aerodrome Charge at FAJS} + \text{TMA Access Charge at FAJS} + \text{Area Charge}].127\% \\
&= [[VC_{\text{Aero}} + BSC_{\text{Aero}} \cdot 1.127\% + FC_{\text{Aero}}] + [[VC_{\text{TMA}} + BSC_{\text{TMA}} \cdot 3.127\% + FC_{\text{TMA}}] + [VC_{\text{Area}} + \\
&\quad BSC_{\text{Area}} + FC_{\text{Area}}].127\% \\
&= [[R14,12 + (R98,31/10\,000 \cdot 4\,500)].127\% + R52,50] + [[R14,12 + (R98,31/10\,000 \cdot \\
&\quad 4\,500)].127\% + R94,24] + [R14,12 + (R98,31/10\,000 \cdot 4\,500) + (R12,02/100\,000 \cdot 4\,500 \cdot \\
&\quad 211)].127\% \\
&= [(R14,12.3) + (R98,31/10\,000 \cdot 4\,500 \cdot 3) + (R12,02/100\,000 \cdot 4\,500 \cdot 211)].127\% + R52,50 + \\
&\quad R94,24 \\
&= R514,03
\end{aligned}$$