



**Agenda Item 2: Report of activities and deliverables of the GESEA and Subgroups**

**b) ATM implementation. Progress of the Subgroups**

**RUNWAY SYSTEM CAPACITY UPGRADE**

(Prepared by Paraguay)

**SUMMARY**

This information paper presents the activities carried out by Paraguay for the capacity update of the runway system 20/02 of the Silvio Pettirossi International Airport -SGAS.

**References:**

- Twenty-Seventh Workshop/Meeting of the SAM Implementation Group SAM/IG/27 (May 31 to June 3, 2022).
- Twenty-Ninth Workshop/Meeting of the SAM Implementation Group (SAM/IG/29 (Lima, Peru, May 15-19, 2023)

**1. Background**

1.1 Monitoring of the activities of Sub-group 3 ATFM of the SAM Airspace Study and Implementation Group (GESEA/SG3) and the tasks to be developed on Runway Capacity Calculation and SAM ATC Sectors.

1.2 The course on capacity calculation of ATM045 runway systems and ATC ATM044 sector capacity calculation held at the Air Navigation Management Center (CGNA), Brazil, in April 2023.

1.3 Analysis of the capacity study of the runway system 20/02 of the Silvio Pettirossi International Airport -SGAS, was carried out by the team of the Air Navigation Management Center (CGNA-BRASIL) and the Department of Flow Management Unit (FMU/SGAS- PARAGUAY).

**2. Analysis**

2.1 Documentation analyzed

- a) ESMS data – Threshold use, aircraft categories and aircraft by turbulent wake – the records considered were statistical data from 01/01/2022 to 12/31/2022, and data collected on July 3, 4, 5 and 6, 2023.
- b) AIP-Paraguay - The results obtained are published in AIP-PARAGUAY as Supplement A08/C10.

2.2 For the determination of the runway capacity, the following factors were considered:

- a) Planning factors; and
- b) Factors related to landing and take-off operations.
- c) During the final approach procedure to runway 02 the time from the OSUNU position (FAF - IAC RNAV(GNSS) Z RWY 02 SGAS) to the THR crossing was recorded.
- d) During the final approach procedure to runway 20 the time from the BURVA position (FAF - IAC RNAV(GNSS) Z RWY 20 SGAS) to the THR crossing was recorded.
- e) To obtain the percentage of runway utilization, data were collected in the 2022 annual period.
- f) The capacity study of the runway system of the Silvio Pettirossi International Airport – ESMS considered the operational variables of each category of aircraft, in this way the capacity was calculated for each threshold in use.

3. **Suggested action**

3.1 The Meeting is invited to:

- a) Take note of the information presented in this paper.

<p>PARAGUAY DIRECCIÓN NACIONAL DE AERONÁUTICA CIVIL GESTIÓN DE INFORMACIÓN AERONÁUTICA SECCIÓN PUBLICACIONES ESTACIÓN RADAR – MARIANO ROQUE ALONSO JOSÉ MARTÍ C/ CNEL. FÉLIX BOGADO TEL: +595 21 7585293 TEL: +595 21 7585010 AFTN: SGASYRYN – SGASYNX E-MAIL: <a href="mailto:aispublicacionespy@gmail.com">aispublicacionespy@gmail.com</a></p>		<p><b>SUPLEMENTO AIP A08/C10 12 OCT 2023</b></p>
<p>“INFORMACIÓN AERONÁUTICA ACTUALIZADA AYUDA A LA SEGURIDAD OPERACIONAL DE LA NAVEGACIÓN AÉREA” “AERONAUTICAL INFORMATION UPDATED IS SUPPORT TO REGARDING OPERATIONAL SAFETY OF AIR NAVIGATION”</p>		

**FECHA DE EFECTIVIDAD: 12 OCT 2023**

**AD**

**AEROPUERTO INTERNACIONAL “SILVIO PETTIROSSI” – SGAS**

Se procede a la actualización de los datos de capacidad de pista del Aeropuerto Internacional “Silvio Pettirossi”.

❖ Ref. AIP PARAGUAY ENR 1.9-2

**ESTE SUPLEMENTO REEMPLAZA AL SUP A07 – C09 (18 SEP 2023)**

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- a) La planificación de vuelos,
- b) El uso de la capacidad de espacio aéreo disponible durante todas las fases de vuelo,
- c) La elaboración de principios de orientación para optimizar la afluencia de tránsito aéreo.

**Las siguientes operaciones de aeronaves quedan exentas de las medidas ATFM:**

- a) **STS/HEAD:** Para un vuelo con estatus "Jefe de Estado".
- b) **STS/STATE:** Para aeronaves militares registradas o aeronaves civiles registradas utilizadas en servicios militares, de aduanas y policía.
- c) **STS/EMER:** Aeronaves de emergencia/prioritarias.
- d) **STS/HOSP:** Para un vuelo médico, expresamente declarado por las autoridades médicas.
- e) **STS/HUM:** Vuelos de carácter humanitario (vuelos de ambulancia).
- f) **STS/SAR:** Misiones de búsqueda y salvamento.

**4 CAPACIDAD DE SECTORES ATC**

**Región de Información de Vuelo – FIR Asunción:** 11 (once) aeronaves bajo control simultaneo de un Controlador Aéreo.

**Área Terminal – TMA Asunción:** 08 (ocho) aeronaves bajo control simultaneo de un controlador de Tránsito Aéreo.

**5 CAPACIDAD DE PISTA DEL AEROPUERTO INTERNACIONAL SILVIO PETTIROSSI**

**Capacidad del Sistema de la Pista 02**  
**ARR + DEP = 34 Aeronaves/Hr.**

**Capacidad del Sistema de la Pista 20**  
**ARR + DEP = 32 Aeronaves/Hr.**

**CAPACIDAD SISTEMA PISTA 02/20**  
**ARR + DEP = 33 AERONAVES**