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# SGDC-1

## IN-ORBIT HEALTH REPORT

**April, 2026**



Autenticado com senha por HENRIQUE SOARES EBERT - 25/05/2026 às 16:45:24.  
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## 2 SUMMARY

This report refers to the period after the interval covered in the previous report, dated March 15<sup>th</sup>, 2025.

Accordingly, the period covered in this report begins on March 16<sup>th</sup>, 2025, and ends on March 15<sup>th</sup>, 2026.

During this period the spacecraft has performed in accordance with specifications without experiencing any major anomalies or loss of unit.

## 3 PAYLOAD

The payload configuration is the nominal one during this period covered by this report.

Payload performances are as expected.

## 4 BUS SUBSYSTEMS

### 4.1 THERMAL

No out of limits has been triggered on the satellite on the thermal subsystem.

### 4.2 STATION KEEPING

Number of maneuvers performed in NM between March 16<sup>th</sup>, 2025, and March 15<sup>th</sup>, 2026:

South maneuvers:	2
North maneuvers:	25
West maneuvers:	52
East maneuvers:	4

SGDC-1 mass at the beginning of the analyzed period was **3128.75 kg**.

- Dry + He:	2459.89 kg (16/03/2025)
- Oxidizer:	381.21 kg
- Fuel:	224.21 kg

At the end of the analyzed period, the mass was **3003.90 kg**



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- Dry + He:	2459.89 kg (15/03/2026)
- Oxidizer:	342.96 kg
- Fuel:	201.06 kg

The total propellant spent during this period was **61,40 kg**.

No abnormal behavior that may generate unexpected propellant consumption has been noticed during maneuvers. Therefore, the updated End of Lifetime prediction is around June 2035.

### 4.3 POWER

Power subsystem behavior is as expected.

Battery performances during eclipses' season is nominal ever since.

Solar array performance is nominal.

Power budget provided at beginning of life is still applicable as no anomaly occurred on batteries or solar arrays.

### 4.4 TELEMETRY COMMAND AND RANGING

TCR subsystem behavior is as expected.

### 4.5 ON BOARD PROCESSORS

No patch loaded on board: no software modification in-flight.

Onboard processors behavior is as expected (no anomaly reported).

### 4.6 GROUND OPERATIONS

Ground operations were performed on regular basis, without any issues.

## 5 GENERAL

Both Brasília Control Center and Rio de Janeiro Control Center were operating nominally since successful migration performed from the temporary to the final facilities.



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## 6 CONCLUSIONS

Based on the information presented and considering the last Health Report (attached) Visiona considers that the satellite is fully operational and with all parameters as expected.



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#### IN-ORBIT HEALTH REPORT

March, 2023

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