



LMI Advisors LLC
2550 M Street, NW, Suite 300
Washington, DC 20037

Carlos M. Nalda
T +1 571.332.5626
cnalda@lmiadvisors.com

December 12, 2020

Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

**Re: Panasonic Avionics Corp. – Section 1.65 Submission,
Call Sign: E100089, File No. SES-MFS-20200513-00528**

Dear Ms. Dortch:

Pursuant to Section 1.65 of the Federal Communication Commission's ("FCC") rules, 47 C.F.R. § 1.65, and in response to an inquiry from the FCC International Bureau, Panasonic Avionics Corp. ("PAC") updates certain information in connection with the above-referenced application to modify its earth station aboard aircraft ("ESAA") blanket license, Call Sign E100089. Specifically, the table below provides tank pressure (gas law) calculations and supplements the Orbital Debris Analysis/Management Report for the GSAT-14 satellite included in the Technical Appendix submitted with the application.

TABEL 1. GSAT-14 Tank Pressure (Gas Law) Calculations

| | Volume (ltr) | Composition of Liquid/ Gas (e.g. He, N2O4) | Maximum fuel/oxidizer remaining(kg) after de-orbiting | Maximum pressurant remaining(kg), after de-orbiting | Internal maximum temperature (DegC) in graveyard orbit | Internal maximum pressure (Bar) in graveyard orbit |
|--------------------|--------------|--|---|---|--|--|
| Fuel Tank #1 | 516 | MMH | 2.32 Kgs | - | 10oC-30oC | Less than 12 bar |
| Oxidizer Tank #1 | 516 | N2O4 | 10 Kgs | - | 10oC-30oC | Less than 12 bar |
| Pressurant Tank #1 | 35.5 | He | - | 0.4 Kg | 10oC-30oC | Less than 75 bar |
| Pressurant Tank #2 | 35.5 | He | - | 0.4 Kg | 10oC-30oC | Less than 75 bar |

Please do not hesitate to contact me with any questions regarding this matter.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Carlos M. Nalda", written in a cursive style.

Carlos M. Nalda
Principal
LMI Advisors

cc: Paul Blais, FCC International Bureau
Cindy Spiers, FCC International Bureau