

SES AMERICOM, INC. C-BAND TRANSITION QUARTERLY REPORT (published 12/22/22)



Overall Highlights

- **We remain on track and in some cases ahead of schedule for completing our Phase II transition activities in advance of the December 5, 2023 clearing deadline.**
 - As of December 15, 2022, SES has completed approximately **68%** of Phase II satellite transitions.
 - We have installed “blue” bandpass filters at approximately **65%** of the Incumbent Earth Station (IES) locations associated with SES satellites.¹
 - We have installed nearly **100%** of the antennas associated with our Phase II transition schedule.
 - TT&C / Gateway antenna construction and other upgrades are complete.
 - Gateway services (i.e., platforms and SES-provided customer uplinks/downlinks) associated with Phase II are complete.



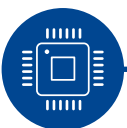
Satellite Manufacture and Launch Procurement

- **Satellite procurement and launch programs are progressing, with three satellites already launched.**
 - On June 29, 2022, SpaceX launched the first Thales satellite, SES-22, to 135° West, where it started operations on August 2, 2022.
 - The Boeing satellites, SES-20 and SES-21, were launched by ULA on October 4, 2022. SES-21 became operational on December 1, 2022, and SES-20 is on track to arrive at 103° W.L. by the end of December, where it will operate as an in-orbit spare.
 - The Northrop Grumman satellites, SES-18 and SES-19, have experienced delays related to manufacturing and priority government launches and their earliest available launch opportunity is Q1 2023.



Satellite Service Migrations

- **As of December 15, 2022, SES has completed approximately 68% of Phase II service transitions on our satellites.**
 - Based on our performance completing our Phase I service transitions, we anticipate completing all Phase II service transitions on time.



Compression Technology

- **All compression activities were completed as of October 31, 2021.**



Incumbent Earth Station Migration

- **As of December 15, 2022, we have installed filters at approximately 65% of the IES locations identified for Phase II clearing, as well as nearly 100% of the new antennas needed to complete the transition.**
 - SES continues to conduct virtual site surveys for IESs subject to our Phase II activities to identify the information needed to prepare the sites for satellite service transitions and the eventual installation of filters.
 - We will continue to identify IESs that require new antennas through our outreach efforts.



TT&C/Gateway Construction/Service Transition

- **Construction of TT&C/Gateway facilities in Brewster, WA, and Hawley, PA, remains on target.**
 - The full motion TT&C antenna installations, along with the associated ground equipment, are complete at Hawley and are near completion at Brewster.
 - All four gateway antenna systems planned for the Hawley facility have been fully installed, tested, and put into operation.
 - All Phase II gateway services have been transitioned.
 - Phase II TT&C antenna construction and the modification of existing antennas to be utilized for TT&C purposes for the new C-band spacecraft has been completed at SES's Hawley, Manassas, Woodbine, South Mountain, and Hawaii locations.

¹ “Blue” filters block the lower 300 MHz of the C-band (3700 – 4000 MHz).
A description of the filter specifications is available [here](#).