

SES AMERICOM, INC. C-BAND TRANSITION QUARTERLY REPORT (published 9/30/22)



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.**
 - The SES-20 and SES-21 satellites launched successfully on October 4, 2022.
 - As of September 30, 2022, SES has completed approximately **48%** of Phase II satellite transitions.
 - We have installed “blue” bandpass filters at approximately **57%** of the Incumbent Earth Station (IES) locations associated with SES satellites.¹
 - We have installed approximately **95%** of the antennas associated with our Phase II transition schedule.
 - TT&C / Gateway antenna construction and other upgrades are on track.
 - Gateway services (i.e., platforms and SES-provided customer uplinks/downlinks) associated with Phase II are now complete.



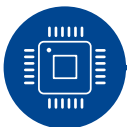
Satellite Manufacture and Launch Procurement

- **Satellite procurement and launch programs are progressing, with SES-20 and SES-21 successfully launched.**
 - On June 29, 2022, SpaceX launched the first Thales satellite, SES-22, to 135° West, where it started operations on August 2, 2022.
 - On October 4, 2022, ULA successfully launched the Boeing satellites, SES-20 and SES-21. SES anticipates they will be ready for service by mid-November 2022.
 - The Northrop Grumman satellites, SES-18 and SES-19, have experienced delays related to manufacturing and priority government launches and are expected to start commercial service by April 2023.



Satellite Service Migrations

- **As of September 30, 2022, SES has completed approximately 48% 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 September 30, 2022, we have installed filters at approximately 57% of the IES locations identified for Phase II clearing, as well as 95% of the new antennas needed to complete the transition.**
 - USSI 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.
 - As of September 30, 2022, 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 is nearing completion 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](#).