

SES AMERICOM, INC. C-BAND TRANSITION QUARTERLY REPORT (published 12/21/21)

Overall Highlights



- **As of December 21, 2021, SES has completed approximately 30% of Phase II satellite transitions.**
 - We have installed “blue” filters at approximately **30%** of the Incumbent Earth Station (IES) locations associated with SES satellites.¹
 - We have installed approximately **10%** of the antennas associated with our Phase II transition schedule.
 - Gateway services that will be transitioned to our Brewster or Hawley facilities are also on schedule, with approximately **50%** of the transitions associated with Phase II now completed.



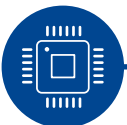
Satellite Manufacture and Launch Procurement

- **Satellite procurement programs are progressing as planned** with Boeing, Northrop Grumman and Thales.
 - The vendors have successfully completed the design phases and most of the components have been manufactured, tested, and delivered.
 - They have started assembly, integration and testing for the SES-18, SES-19, SES-20, SES-21 and SES-22 satellites.
 - Construction of the second ground spare, SES-23, began on June 1, 2021.
- **With ULA and SpaceX contracted to launch the first four satellites in 2022, spacecraft and launch vehicle integration analyses are near completion for all programs.**
 - SES has submitted applications for authority to launch and operate the satellites.
 - The 30-day launch slot selections for SES-18 and SES-19, SES-20 and SES-21, and SES-22 are on track to be confirmed by February 2022.



Satellite Service Migrations

As of December 21, 2021, SES has completed approximately **30%** of Phase II service transitions on our satellites.



Compression Technology

- **100% of uplink services subject to compression are currently in service.**
 - All uplink compression equipment has been shipped to and installed at the earth station locations associated with the SES services requiring compression technology, and all of the equipment has been configured and tested.
- **100% of IESs subject to compression have been fully transitioned and are on air as of October 31, 2021.**
 - All downlink equipment, including demodulators, decoders, transcoders and related equipment, has been shipped to IES operators—including lump sum electees—receiving SES satellite services requiring compression technology.



Incumbent Earth Station Migration

- **As of December 21, 2021, we have installed approximately 10% of the new antennas we anticipate will be needed to complete the Phase II transition.**
 - USSI continues to conduct virtual site surveys for IESs subject to our Phase II activities to identify the information needed in order for SES 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 TT&C antenna installations, along with the associated ground equipment, are near completion at both Brewster and Hawley, with completion scheduled by the end of 2021.
 - Phase II TT&C antenna construction and the modification of existing antennas to be utilized for TT&C purposes has commenced at SES’s Hawley, Manassas, Woodbine, South Mountain, and Hawaii locations.
 - As of December 21, 2021, approximately **50%** of Phase II gateway services have been transitioned.

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