

# THE U.S. C-BAND TRANSITION IS COMPLEX AND WELL UNDERWAY

## PLANNING

SES will finalize the plans to transition approximately 200 services from 500 to 200 MHz of C-band spectrum and work directly with the clearinghouse and relocation coordinator throughout the process.

- File plan with FCC
- File updated plans with FCC
- Set up a database to ensure efficient roll-out and accurate accounting
- Partner with industry groups to understand their questions and share best practices
- Outreach to ensure all Incumbent Earth Stations accessing SES satellites have been accounted for
- Outreach to Phase 1/Phase 1R Incumbent Earth Station operators to schedule equipment installation by SES-hired teams
- Outreach to Phase 2 Incumbent Earth Station operators to schedule equipment installation by SES-hired team

## SATELLITES

SES will launch four new satellites to guarantee sufficient capacity for current customers and ensure the continuity and quality of existing services.

- Manufacture the satellites
- Launch the satellites
- Raise the satellites to their testing orbital locations
- Complete testing
- Move the satellites to their final orbital locations and initiate service on the satellites
- Migrate services from old satellites to new satellites

## PREPARATION

SES will establish the platform necessary to transition services—including TV and radio distribution and data network ecosystems—safely and seamlessly.

- Hire U.S. companies to help install/retune ground equipment
- Hire U.S. companies to build satellites necessary to transition customers
- Hire U.S. companies to launch satellites
- Hire U.S. companies to build Gateway and TT&C Systems

## ON-THE-GROUND

Per the Report & Order and customer discussions, SES will ensure the relevant customers' ground stations are correctly pointed and tuned, have upgraded compression technology where required, and have filters installed to protect customers against interference from new 5G services.

- Deploy teams to Phase 1/Phase 1R Incumbent Earth Station to install antenna equipment and filters
- Deploy teams to Phase 2 Incumbent Earth Station to install antenna equipment and filters
- Establish a Help Desk for earth station concerns
- Install antennas and satellite ground control equipment at telemetry, tracking and control ("TT&C") locations to ensure continued safe satellite operations
- Consolidate gateway services to allow ongoing receipt of international video content and to support valuable data services
- Begin customer migrations

**ROLLOUT OF 5G** in 46 top U.S. markets as early as December 2021 and to all Americans in continental U.S. by December 2023

**SEAMLESS CONTINUATION AND PROTECTION OF EXISTING TV AND RADIO SERVICES** delivered via C-band to nearly 120 million homes

