Paper ID: 36306 oral

## SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (B2)

Fixed and Broadcast Communications (2)

Author: Mr. Robert D. Briskman Sirius XM Radio, United States, rbriskman@verizon.net

Mr. Joseph Foust Maxar, United States, Joe.Foust@sslmda.com

## NEW ADVANCED SATELLITE RADIO SATELLITES

## Abstract

Satellite radio is a broadcast service primarily to vehicles consisting of over a hundred audio/data channels (i.e., music, news, sports, weather, traffic, commentary, etc.) fully described in previous IAC papers. The Sirius XM system currently operates throughout most of North America and Canada. The sixteen year history of the Sirius XM satellite constellations was provided at IAC-16, the constellations currently are configured with geostationary orbit satellites located at approximately 85 and 115 degrees West Longitude. These satellites are expected to operate at full performance for several years. However, given the time required to design, build, test and launch such large, complex satellites, new satellites have recently been ordered. The paper describes these new satellites, particularly with regards to their use of advanced technologies and their improved operational capabilities, such as being able to operate at full EIRP (Effective Isotropic Radiated Power) in either of the legacy Sirius or XM radio frequency bands.