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March 23, 2016

**FILED ELECTRONICALLY**

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12th Street, S.W.  
Washington, D.C. 20554

**Re: Retirement of XM-1 (Call Sign S2118), File No. SAT-STA-20151006-00069**

Dear Ms. Dortch:

XM Radio LLC (“XM Radio”), by its attorney, hereby advises the Commission that it has placed its XM-1 spacecraft, call sign S2118, into a disposal orbit and asks that the Commission close the IBFS license account for this spacecraft.

Deorbit maneuvers commenced on February 15, 2016, and final commands were sent on March 18, 2016. The disposal orbit has a perigee altitude of approximately 360 km above the geostationary arc and an apogee altitude of approximately 364 km above the geostationary arc. The eccentricity is 0.00005.

XM Radio provides the following estimates regarding residual propellants onboard XM-1 (all residual pressures are well below the ratings for the tanks):

Tank	Per Tank Volume	Pressure	Temp.*	Mass
Propellant (MMH)	387 liters (two interconnected tanks)	70 kPa	16° C	Less than 2 kg total for two tanks
Oxidizer (MON-3)	387 liters (two interconnected tanks)	210 kPa	16° C	11 kg total for two tanks
Helium	69 liters (two interconnected tanks)	2200 kPa	16° C	0.32 kg total for two tanks
Xenon Tank 1	69 liters	3713 kPa	23° C	17.1 kg
Xenon Tank 2	69 liters	3811 kPa	23° C	17.6 kg

\* Note that all temperatures are provided as of decommissioning. The spacecraft manufacturer has advised XM Radio that temperatures will drop to approximately -20° C following decommissioning, resulting in lower tank pressures.

In light of the satellite's retirement, XM Radio requests that the Commission terminate the license account for call sign S2118 in the IBFS database.

Please address any questions regarding this matter to the undersigned.

Respectfully submitted,

*/s/ Karis A. Hastings*

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