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Via IBFS

Karl Kensinger
Associate Division Chief
Satellite Division, International Bureau
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Supplemental Filing of EchoStar Satellite Operating Corporation, File Nos. SAT-STA-20110627-00122, Call Sign S2621

Dear Mr. Kensinger:

EchoStar Satellite Operating Corporation hereby submits the following additional information regarding the above-referenced application for Special Temporary Authority (“STA”) to deorbit the EchoStar 4 satellite from its current orbital location at 76.85° W.L.

The first phase of the deorbiting will involve firing the pyros to isolate the oxidizer tank after the satellite arrives at the disposal orbit. An orbit-raising procedure will be initiated to achieve a minimum perigee of 350 km. This will be achieved through a sequence of multiple maneuvers. EchoStar anticipates that it will take between five and seven days to complete the orbit-raising sequence. The resulting drift rate will be approximately 4.4°/day west at the 350 km minimum perigee. EchoStar expects that it will take around 20 days after orbit-raising before EchoStar 4 drifts outside EchoStar’s earth station antenna coverage. EchoStar will make available its ground earth station resources until the fuel is burned to depletion. In the second phase, EchoStar will execute propellant depletion maneuvers while maintaining a 350 km minimum perigee above the GSO. It will perform the bus shutdown sequence prior to losing antenna coverage. EchoStar expects that it will take approximately 14 days to complete propellant depletion and bus shut down, leaving six days of margin.

At the satellite’s end of life, the batteries will be left in a permanent state of discharge and all sources of stored energy, with the exception of the helium and oxidizer, will be removed so that the fuel will be expended to depletion to the fullest extent possible. However, there could be as much as 18.69

