

Additional Information

Agile MicroSat Mission Narrative

Application for FCC Form 442 Experimental Radio Service
(File 0982-EX-CN-2020)

Lincoln Laboratory

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February 10, 2021

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The following additional information is provided by the request of FCC OET .

Applicant:	MIT LL
File Number:	0982-EX-CN-2020
Confirmation:	EL187237
Date of Original Email:	01/27/2021
Correspondence Reference No:	59676

1. SpaceCap analysis file	AMS-1 SpaceCap.txt AMS-1 SpaceCap SpacePub.rtf
2.	
a) SATELLITE DATA	
INCLINATION ANGLE	97.4 deg
APOGEE IN KILOMETERS	500 km
PERIGEE IN KILOMETERS	500 km
ORBITAL PERIOD IN HOURS DECIMAL	1.5769 hrs
NUMBER OF SATELLITES IN THE SYSTEM	1
b) SATELLITE TRANSMITTER ANTENNA	
GAIN	6.0 dBi
BEAMWIDTH	40 deg
c) SATELLITE TRANSMITTER ANTENNA AZIMUTH	EARTH COVERAGE (EC)
d) EARTH STATION RECEIVER ANTENNA	
GAIN	47 dBi
BEAMWIDTH	0.4 deg
AZIMUTHAL RANGE	360 deg
SITE ELEVATION ABOVE MEAN SEA LEVEL	18 m
ANTENNA HEIGHT ABOVE TERRAIN	5 m
e) EARTH STATION RECEIVER ANTENNA AZIMUTH	360 deg
MINIMUM ANGLE OF ELEVATION (V00 TO V90)	V05