The purpose of this license is to enable the airlink testing of four satellites under three different progra

Optus, which has two satellites
PanAmSat-11
Horizons-2

Each satellite has at least one bank of transponders, that have both an uplink and a downlink set of cl
these channels are fed via reflector style, High gain antennas. As detailed in the submission for ques
antenna range with absorber all around them in an attempt to minimize the emission of the downlink f

For the uplink channels, the test antennas will be horn antennas with approximately 60 degree beamv
in order to keep the emissions down.

For the downlink channels, the antennas will be as detailed in the subsequent tabs labeled "Optus", "I
the satellite will be pointing up into the ceiling absorber inside the antenna range where the testing wil
placed strategically in order to keep the emissions down.

For the Telemetry channels, including the uplink power control beacons on the satellite, some of the t
absorber placed around them in order to minimize the external emissions.

In short, we will be testing in an indoor range using enough absorber placed to minimize, as much as
where the tests will take place

This is a list of all the frequencies that we are planning to test on, including as much information abou
that you might need to process this application. If you need more information, please don't hesitate to

Ross Coffelt (703) 406-5782

ıms that this company (Orbital Sciences) is working on:

hannels. With the exception of the telemetry downlink,
ıtion 7 of form 442, these antennas will be tested in an
requencies.

width. These will also have absorber placed strategically

PAS_11", and "Horizons_2". The high gain antennas on
ll be performed. The satellite will also have absorber

he antennas are omnidirectional. These will also have

possible, the radiation that will leave the highbay building

t power levels, antennas and modulations that I can think
ɔ call me and ask. My name and Phone number are: