



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL ENVIRONMENTAL SATELLITE, DATA,
AND INFORMATION SERVICE

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December 13, 2017

Prof. Judd Bowman
781 E Terrace Mall
ISTB4 - BLDG 75
Tempe, AZ 85287-6004

Subject: Grant of License to Operate a Private, Space-Based, Remote Sensing System

Dear Mr. Bowman:

I am pleased to enclose a license for Arizona State University (the Licensee) to operate a space-based, electro-optical remote sensing CubeSat known as the "Phoenix" satellite. The license application was subject to a thorough interagency review. This license is for the above named system and not for any other system, present or future.

Please keep in mind the Licensee must notify NOAA in a timely manner of any changes to information provided to NOAA and relied upon in issuing this license, and must provide to NOAA additional information (launch vehicle, launch location, launch date, foreign owners, foreign lenders, space segment details, grounds station details, etc.) immediately upon determination.

In accordance with 15 CFR § 960.8, the Licensee must notify NOAA of any significant or substantial foreign agreements that the Licensee intends to enter into no less than 60 days prior to entering into such agreements.

In accordance with 15 CFR § 960.5, the Licensee must provide a publicly-releasable summary of the licensed System within 30 days of the license issuance.

The issuance of this license does not indicate a commitment by any U.S. Government agency to purchase data or products from the system.

This NOAA license is not an export authorization, and does not satisfy any requirement for Licensee to obtain appropriate U.S. export authorizations. The Licensee must submit a separate request to NOAA for delivery of unenhanced data to foreign nationals including students.

The issuance of this license does not relieve the Licensee of the obligation to obtain other licenses and specific written approval from the Federal Communications Commission and other appropriate United States Government agencies, pursuant to applicable statutes, regulations or contracts.

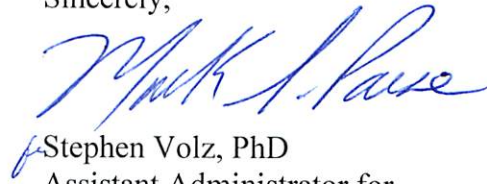
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We encourage the Licensee to engage early with the Joint Space Operating Center (JSPOC) to exchange information and establish formalized communication channels prior to launch. This would allow the JSPOC to provide an assessment of how to support the owner/operator's missions and provide recommendations on how to best achieve mission success. Email: jspoc.ssasharing@us.af.mil.

Please refer any questions regarding this license approval to the Director of NOAA Commercial Remote Sensing Regulatory Affairs, Tahara D. Dawkins, at CRSRA@noaa.gov or 301-713-3385.

Sincerely,

A handwritten signature in blue ink, appearing to read "Stephen Volz".

Stephen Volz, PhD
Assistant Administrator for
Satellite and Information Services

Enclosure
Cc: Glenn Tallia, OGC