



THE FRONT PAGE

KSC's front door to Business Development and Research and Technology

SUMMER 2016



Center Planning and Development (CPD) is the "front door" for partnerships with NASA's John F. Kennedy Space Center (KSC).

We are developing the world's premier spaceport for government and commercial space industries using comprehensive resource planning and partnerships.

For more information about CPD, visit <http://kscpartnerships.ksc.nasa.gov/>.

NASA selects Orbital ATK to begin negotiations for space in iconic VAB

NASA has selected Orbital ATK Inc. of Dulles, Virginia, to begin negotiations on an agreement to use High Bay 2 in the iconic Vehicle Assembly Building (VAB) at the agency's Kennedy Space Center.

The prospective property use agreement, which also will include a mobile launcher platform, reflects Kennedy's transformation to a multi-user spaceport supporting both government and commercial organizations.

"Over the past few years, the people of Kennedy have worked diligently to transform the center. We are now a true multi-user spaceport supporting a variety of different partners successfully," said Bob Cabana, Kennedy director. "We look forward to working with Orbital ATK in the future to help expand the capabilities of this unique, historic asset."

NASA will remain the primary user of the VAB for the Space Launch System and Orion programs. If an agreement is negotiated, NASA will act as the overall site operator for the facility.

The potential agreement is the result

of a competitive Announcement for Proposals the agency released in June 2015.

The VAB, a national landmark, was completed in 1966 for the assembly of the Apollo/Saturn V moon rockets. For 30 years, it acted as the final assembly point for all space shuttle missions. The building is 525 feet tall and 518 feet wide.

Essentially a large steel box, a mobile launcher platform measures 160 by 135 feet. The platform's surface features wide openings that align with a space-bound vehicle's engines and direct the rocket's blast into the flame trench below.

More online

For more information about partnership opportunities with Kennedy, visit: <http://kscpartnerships.ksc.nasa.gov>

For more information about Orbital ATK, visit: <https://www.orbitalatk.com/>

For more information on NASA and agency programs, visit: <http://www.nasa.gov>

Message from CPD Leadership

Center Planning and Development (CPD) still faces many challenges as our multi-user spaceport continues to grow. This year, with the support of KSC's outstanding workforce, we have overcome significant obstacles and reached many milestones to continue our success here at Kennedy. I often mention a famous quote by John F. Kennedy saying: "A rising tide lifts all boats." This quote has special meaning as we grow our economy to benefit all members of the community. We all play a role in our success story and what we are accomplishing here. Communicating our partnerships and strategies that have transformed Kennedy into a multi-user spaceport is vital to our continued success. We have much to offer to our partners such as services, capabilities, infrastructure and land use . . . the possibilities remain endless!

Here are a few accomplishments so far this year.

- Blue Origin cleared land at Exploration Park to build a 750,000-square-foot manufacturing center to build their reusable fleet of orbital

See Page 2



Kennedy makes land available for potential commercial partnerships

Kennedy Space Center released a notice of availability for undeveloped land to potentially support activities in launch operations and support, assembly, testing and processing of space systems, renewable energy, research and development, and vertical launch and landing. The announcement is part of Kennedy’s transformation to a multi-user spaceport based on effectively utilizing land assets identified in the center’s 20-year Master Plan.

“We look forward to new commercial partnerships as KSC supports emerging space markets. Making this land available is yet another step in our

evolution as a diverse spaceport that supports NASA and the commercial space industry,” said Scott Colloredo, director of Kennedy’s Center Planning and Development.

The center has transformed from a government-focused launch base to a multi-user spaceport that can accommodate different vehicles, systems and commercial launch providers. Kennedy features a host of launch and processing facilities, a one-of-a-kind runway and laboratories suited to multiple requirements. The center is well-equipped to support the full spectrum of needs for space launch service companies.

From Page 1

launchers that will lift off from SLC 36. The facility is expected to be operational by end of 2017.

- CPD, in conjunction with Spaceport Integration, hosted two public meetings in March to present the Environmental Impact Statement for the new future land use map, as a part of the KSC 20-Year Master Plan. An official KSC future land use map will be adopted at the culmination of the EIS process this fall.

- CPD held a Partnership Landscape Forum in April for partners and prospective partners to discuss requirements for small class vehicles and accessibility to multi-use assets including Launch Pad 39C, which continues to garner significant interest.

- NASA selected Orbital ATK in April to begin negotiations to utilize the VAB High Bay 2. This prospective property use agreement, including a mobile launcher platform, demonstrates our true multi-use strategy, expanding the capabilities of historic assets at Kennedy.

- CPD released a Notice of Availability (NOA) in June targeting users interested in developing commercial capabilities on vacant KSC property in accordance with the KSC Master Plan. We continue to receive interest from commercial companies for utilization of our multi-user spaceport.

Our KSC Partnerships external website continues to evolve as a tool for partnership opportunities.

Check out our website at <http://kscpartnerships.ksc.nasa.gov/> to learn more about how to partner with Kennedy.

*-- Tom Engler
Acting Director, Center Planning and Development*

Notice of Availability (NOA) 3 – Seeking Aerospace Industry Interest in Land Development at Kennedy

NASA Kennedy Space Center (KSC) issued a Notice of Availability (NOA) to publicize opportunities for commercial or non-government entities to develop vacant land on KSC property in accordance with the KSC Master Plan.

To submit a response, go to fbo.gov and search for Solicitation Number: NOA-KSC-Land-Dev_2016-2018 or go to: <http://go.nasa.gov/1XuxYLw>. For any questions regarding this NOA, contact Nancy Potts, economic development manager, at nancy.a.potts@nasa.gov.

Prospective partners attend Partnership Landscape Forum

More than 20 partners and prospective partners participated in a Partnership Landscape Forum hosted by the Center Planning and Development Directorate (CPD) at Kennedy Space Center on April 7. The workshop was led by CPD Director Scott Colloredo, with welcoming remarks by Kennedy Center Director Bob Cabana.

“The landscape here at the Kennedy Space Center has changed tremendously in the last five years. We really are a multi-user spaceport and now we’re moving into a new phase of working agreements,” Cabana said. “We’ve put the infrastructure in place to help make that happen. This is really an exciting time.”

Representatives from various Kennedy organizations shared information on the requirements necessary to do business with the center, including agreement approach and framework; commercial operations, safety and mission assurance requirements; and a perspective from the Federal Aviation Administration (FAA). Presentations also covered Kennedy’s payload services capabilities, the Universal Propellant Servicing System developed for use at Launch Pad 39C and other launch locations, and the autonomous flight termination system that is available to customers through the center’s Technology Transfer Office.

“We’re counting on you, our current and future partners represented here today, to help shape the future of Kennedy and the whole space coast,” said Colloredo.

Government and academia forum participants included the U.S. Air Force 45th Space Wing, FAA, Florida Department of Transportation, Space Florida, the Space Coast Economic Development Commission and Em-



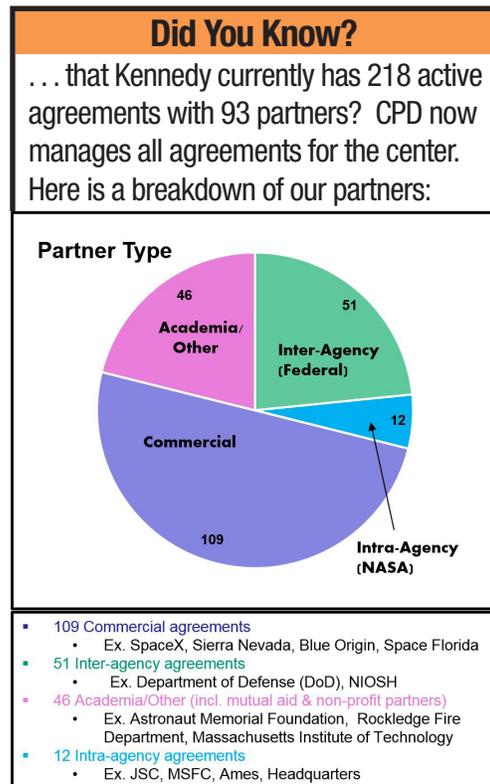
Scott Colloredo, director of the Center Planning and Development Directorate at Kennedy Space Center, listens to a question from one of the participants during the Partnership Landscape Forum V held April 7 in a conference room at the center. Photo credit: NASA/Frankie Martin

bry-Riddle Aeronautical University.

Industry attendees included Blue Origin, Boeing, Ensco, Gilmour Space Corp., Greenboard Enterprise, Masten, Micro Aerospace Solutions, Orbital ATK, Rocket Crafters Inc., Rocket Lab USA, Space Systems Alliance, SpaceX, TrailBlazer Technologies, United Launch Alliance and Virgin Galactic.

Attendees were encouraged to ask questions and participate in a roundtable discussion.

“Thank you for coming out today to share your ideas. Your feedback will help make this multi-user spaceport successful,” said Kennedy Deputy Director Janet Petro. “We want to be the place that people want to come to do business.”



PARTNER SPOTLIGHT

Exploration Park Phase 2 - Bringing Jobs to the Space Coast

In May, Blue Origin broke ground on their Orbital Launch Site Manufacturing Complex. The complex is on 139 acres at Exploration Park on Space Commerce Way at Kennedy Space Center. Half of the land, primarily old citrus grove, will be developed while the other half will be used for wetlands mitigation and buffer area.

The complex will include several facilities including a 660,000+ square foot state-of-the-art rocket factory. The facility will be used for manufacturing, processing, integration and testing of Blue Origin's reusable fleet of orbital launch vehicles. It will be the first of its kind in Florida. Currently, rockets launched from the Cape Canaveral Spaceport are manufactured out of state and brought to Florida for assembly and integration. Blue Origin plans to construct the launch vehicles here at the Cape, which will include a significant



supply chain presence for manufacturing, not just final assembly.

The project is expected to bring 330 new jobs and further strengthen Space Florida's vision of the Cape Canaveral Spaceport and Florida as the world's leading space transportation and commerce center. More than \$200 million of capital investment is planned between the manufacturing complex at Exploration Park and the new work

being done at Space Launch Complex 36 (SLC-36).

Blue Origin's facility is only the first large project destined for Exploration Park. Exploration Park, developed and operated by Space Florida under a long-term enhanced use lease with NASA/KSC, will be home to many other projects. OneWeb Satellites recently announced that they will build a satellite manufacturing facility of approximately 100,000 square feet in the park, employing about 250 people. The work Blue Origin is doing also is expected to attract a number of second-tier suppliers.

The project is expected to be completed by the end of 2017 to allow Blue Origin to begin to manufacture their orbital launch vehicles which could be ready for the first launch from SLC-36 by 2020.

-- Courtesy of Space Florida



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