



## Council Agenda Report

**From:** Paul Sloan, Economic Development Manager

**Subject:** Approval of Amendment to Agreement with Tartaglia Engineering for a Scope of Continuing Services for Next Phase of FAA Spaceport License Application Process

**Date:** June 07, 2022

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### Facts:

1. The City retained the professional services of Tartaglia Engineering to conduct a preliminary technical review on the feasibility of developing a commercial spaceport operation at the Paso Robles Airport utilizing a horizontal launch platform.
2. The findings of the preliminary technical review indicate there are no known fatal flaws that would make pursuing a spaceport designation at the Paso Robles Airport unattainable at this juncture.
3. On [March 29, 2022](#), Council directed staff to return to Council with a budget proposal and appropriation request for the next phase of the FAA Spaceport license application process.
4. Tartaglia Engineering has subsequently provided a scope of continuing services with a proposed budget not to exceed \$114,000 (see Attachment 1, Draft Resolution, Exhibit A).

### Options

1. Take no action;
2. Approve amendment with Tartaglia Engineering not to exceed \$114,000 for phase 2 spaceport licensing work; or
3. Provide alternative direction to staff.

### Analysis and Conclusions

Tartaglia Engineering has determined via their Preliminary Technical Review that establishing a licensed Spaceport operation at the Paso Robles Airport is feasible. While there is no Federal Aviation Administration (FAA) fee for applying for a Spaceport License, there are substantial known and unknown costs associated with the steps involved with preparing the detailed application for submission.

The efforts identified in this phase of work are considered as essential for the continued forward progress of the Paso Robles Spaceport project. The work product generated during this next contract phase will be of value to the permitting process going forward.

Tartaglia Engineering has outlined the following proposed activities as part of the next phase of the Spaceport license application process:

- Conduct detailed investigation and evaluation of potential air-space corridors
- Establish potential route from Spaceport to the designated offshore airspace labeled W-532
- Liaise with National Oceanic and Atmospheric Administration (NOAA) and Chumash Tribe on Marine Sanctuary process for securing operational route authority
- Meet with Point Mugu, Oakland Air Route Traffic Control Center, and other authorities
- Coordinate findings with regional Department of Defense (DoD) airspace stakeholders
- Research conceptual launch platforms and obtain performance specifications
- Define on-airport Spaceport areas and facilities needs
- Provide concept layout on airport layout plan (ALP)
- Commence preparation of preliminary spaceport plan of operations (PSPO)

Services provided and products produced during this continuing services period are intended to further the Spaceport project toward licensing with the FAA, and to provide local decision makers with information regarding the overall Spaceport development and operational effort.

The effort outlined is anticipated to extend for a total of 90 calendar-days (3 months). Upon conclusion of this phase, the consultant and City staff will return to the City Council with outcomes, findings and analysis responsive to the scope of work. At that point, staff will seek additional direction on if the City Council wishes to move forward with additional phases of outreach, analysis, research and engagement related to the spaceport license process.

**Fiscal Impact**

Staff is recommending an appropriation of \$114,000 in available general fund reserves to fund the next phase of the Spaceport license application process as outlined in the proposal. Future allocations to the project will be subject to City Council consideration and approval.

**Recommendation (Option 2)**

Approve Resolutions 22-XXX, authorizing the City Manager to execute a professional services agreement amendment with the Tartaglia Engineering, not to exceed \$114,000 for phase 2 spaceport licensing work.

**Attachments**

1. Resolution 22-XXX, authorizing a contract with Tartaglia Engineering  
Exhibit A - Tartaglia Engineering Scope of Continuing Services
2. Tartaglia Engineering Professional Services Agreement Amendment

# Attachment 1

## RESOLUTION 22-XXX

### RESOLUTION OF THE CITY COUNCIL OF THE CITY OF EL PASO DE ROBLES APPROVING THE FIRST AMENDMENT TO THE AGREEMENT WITH TARTAGLIA ENGINEERING FOR CONTINUING SERVICES RELATED TO THE NEXT PHASE OF THE FAA SPACEPORT LICENSE APPLICATION PROCESS

WHEREAS, the City retained the professional services of Tartaglia Engineering to conduct a Preliminary Technical Review on the feasibility of developing a commercial spaceport operation at the Paso Robles Airport utilizing a horizontal launch platform; and

WHEREAS, the findings of the Preliminary Technical Review indicate there are no known fatal flaws that would make pursuing a spaceport designation at the Paso Robles Airport unattainable at this juncture; and

WHEREAS, on March 29, 2022, Council directed staff to return to Council with a budget proposal and appropriation request for the next phase of the FAA Spaceport license application process; and

WHEREAS, Tartaglia Engineering has subsequently provided a Scope of Continuing Services with a proposed budget not to exceed \$114,000.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF EL PASO DE ROBLES DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. All of the above recitals are true and correct and incorporated herein by reference.

Section 2. The City Council hereby approves and authorizes the City Manager to execute a First Amendment to the Agreement with Tartaglia Engineering for a Scope of Continuing Services for the next phase of the FAA Spaceport License application process, not to exceed \$114,000, in accordance with the Tartaglia Engineering proposal in substantially the form attached hereto as Exhibit A, subject to any minor, technical, or non-substantive changes to the agreement, approved by the City Attorney, and consistent with Council's intent.

Section 3. The City finds that the execution of the professional services agreement amendment with Tartaglia Engineering for a Scope of Continuing Services for the next phase of the FAA Spaceport License application process is not a project subject to CEQA. In the alternative, the execution of the professional services agreement amendment is exempt from CEQA because it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment (State CEQA Guidelines, section 15061, subd. (b)(3).)

APPROVED this 7th day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

ATTEST:

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Steven W. Martin, Mayor

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Melissa Boyer, City Clerk

Exhibit A – Tartaglia Engineering Scope of Continuing Services

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Phone: 805-466-5660 • [civilengineers@tartaglia-engineering.com](mailto:civilengineers@tartaglia-engineering.com)

Paul Sloan, Economic Development Manager  
City of Paso Robles  
1000 Spring Street  
Paso Robles, CA 93446

April 8, 2022  
(Revised May 4, 2022)

File: 21-00

Project: Paso Robles Air and Spaceport  
Subject: Expanded Scope of Services

Dear Mr. Sloan:

Congratulations on such a successful joint session of Council, Planning Commission, and Airport Commission several weeks ago. Your presentation was a great introduction, paving the way for Stu and I to present the results of our effort-to-date. The dialog, both from and within the three groups in attendance, as well as the general public, was overwhelmingly positive. It appears the Spaceport has community-wide support.

Out of a desire to keep the forward momentum, and in-line with our previous discussion, time has been spent preparing this proposal for continuing services, as an amendment to our current services agreement. Services provided and products produced during this continuing services period are intended to further the Spaceport towards licensing with the FAA, and to provide local decision makers with information regarding the overall spaceport development and operational effort.

### ***SCOPE OF CONTINUING SERVICES***

With a focus on continuing forward momentum the Team of Tartaglia Engineering and S.O. Witt and Associates proposes to provide the following services in support of Spaceport Paso Robles:

1. Continue representation of Spaceport through active participation in periodic technical advisory groups and zoom sessions, presentations to Council, Planning Commission, and Airport Advisory Committee (including the Tuesday evening, March 29<sup>th</sup> meeting), along with communications via e-mail and phone to members of staff.  
Deliverables:
  - A. Active participation in meetings and calls.
  - B. Notes and details regarding discussions or in response to requests for items that develop during these meetings.
2. Continue research into the potential vehicle / platform, and space launch partners. Identification of the platform and potential partner(s) will be critical not only for the successful completion of the application for a site license, but also to help characterize and quantify the nature and extent of on-airport improvements and upgrades that could be required, in support of and reflective of a specific weight class and vehicle size, data presently unknown. Pursue both alternate horizontal platforms: the single vehicle to space, and the vehicle with attached carrier that separates over the ocean.  
Deliverables:
  - A. Notes and minutes including documentation regarding operational parameters of specific platforms being developed, generated from meetings and phone calls with platform developers, including those that have already identified interest and those that may not yet be of consideration.

- B. Comments reflective of a review of operational and promotional materials received from these developers.
3. Marine sanctuary. Favorable comments were received during the meeting and from the REACH group regarding their effort to preserve space launch opportunities. The focus of this effort is to initiate direct communications with local Chumash representatives, introducing the concept of up to twelve (12) commercial space activity launches from a new Paso Robles Spaceport each year, and to prepare and submit documentation to NOAA, Chumash, and other entities that may be involved in the establishment process, specific to the anticipated program at Paso Robles. A conceptual operation passing over the intended marine sanctuary area will be prepared and presented. An overall goal is to secure operational / route authority in advance of sanctuary final determination. Timing is critical.
- Deliverables:
- A. Notes and minutes from meetings and phone calls with the two entities facilitating the development of the sanctuary.
- B. Draft / preliminary agreements in support of KPRB Spaceport operations, should negotiations advance to this level of formality.
4. Team members have initiated contact with NAWCWD Range Operations and will meet with the Range Department to brief them on the operations concept from KPRB inside the W532, including steps and requirements for securing airspace authority for launch within the secured airspace areas off the coast. The Team will remain engaged with the NAWCWD Range Operations team, providing updates as the licensing activity progresses and issues require mitigation.
- Deliverables:
- A. Notes and minutes from meetings and phone calls with agency personal.
- B. Draft / preliminary agreements in support of KPRB Spaceport operations, should negotiations advance to this level of formality.
5. Further definition of airspace corridors from Paso Robles Airport to logical points of launch over the Pacific, including how to get to / through Hunter Liggett to Whiskey areas off the coast. Team members will meet with Hunter Liggett operations staff, Oakland Center ARTCC staff on proposed operations in the out years from KPRB. The team will draft a working description of an ATCAA (Air Traffic Control-Assigned Airspace) concept for space activity from KPRB which can be activated by ATT as needed to alleviate the need for a TFR in the out years. Members will coordinate findings with other regional DoD airspace stakeholders.
- Deliverables:
- A. A draft working description of the operational concept with a focus on sanctioned operations without a TFR.
- B. Notes and minutes from meetings and phone calls with agency personal.
6. Team Tartaglia will craft a draft operations concept paper for future use by KPRB Air and Space Port which will be an inclusion in the draft licensing submittal to FAA/AST. This document will grow with KPRB and become a living operations document for the facility prior to, during, and post Hazardous Operations. Preferably based on one or two select vehicle platforms, this effort could alleviate concern and anxiety from the tenants and users regarding the ability to safely co-habitat.
- Deliverables:
- A. A draft operations concept paper, to be built upon and expanded as Spaceport Paso continues to advance.
7. Further definition of on-airport Spaceport areas, including preliminary revisions to the Airport Layout Plan. Team members will craft a definition of on-airport existing and new / proposed facilities required to support space operations that could include:
- A. ARFF facilities, equipment requirements, and staging areas (emergency response).



- B. Airspace.
- C. Security fencing and access control improvements, communications (on and off airport) during Haz. Ops, surveillance systems.
- D. Vehicle and foot traffic movement restrictions during Haz. Ops.
- E. ATC requirements during space operations.
- F. Movement and non-movement area designations and limitations during spaceport operations.
- G. Possible runway, taxiway and apron improvements, upgrades, and / or expansions.
- H. Runway and Taxiway Object Free Area (ROFA & TOFA) enhancements.
- I. Runway and Taxiway Safety Area (RSA & TSA) improvements and enhancements.
- J. Hazardous materials containment and control facilities.
- K. An on-airport hazardous and safety area delineation signage plan.
- L. Conceptual airfield modifications to facilitate spaceport development in the infield area, within the triangle.
- M. Potential spaceport participant lease site designations, including airfield setback restrictions, and proposed ingress and egress routes.

To the extent possible, development and operational cost estimates will be prepared, along with anticipated timelines for the dispersion of funds.

Deliverables:

- A. A draft, modified ALP, sheet 3 of the 14-sheet set of drawings, ready for distribution and consideration by the Airport Advisory Committee.
  - B. Details of specific items that cannot be conveyed on the revised ALP sheet.
  - C. Notes and minutes from meetings and discussions the Airport Advisory Committee regarding conceptual / proposed airfield modifications.
  - D. Preliminary construction cost estimates.
  - E. Preliminary operational cost estimates.
8. Generate graphics and renderings for the Spaceport and associated facilities, to reflect the above activities as the Team progresses with spaceport design and operations.
- Deliverables:
- A. Further refinements of graphics provided, to support the spaceport application.
  - B. Possible generation of a Day-Of-Event Operational Guidelines graphic for team member use.
  - C. Possible enhanced area plans and maps depicting draft routes of operations from KPRB to off the coast, in support of the spaceport application.

The efforts identified in this Scope of Continuing Services are considered as essential for the continued forward progress of Spaceport Paso Robles. Not all of these items are specifically required of an application for spaceport, however every item on this list is reflective of the many questions that have been raised and subjects that have been discussed regarding the spaceport since our involvement began last fall. They reflect the individual and collective interests of the Council, the Commission, the Committee, and the Technical Advisory Committee, providing an expanded vision upon which to build. All of the product generated during this next contract phase will be of value to the permitting process going forward.

*Paul Sloan, Economic Development Manager  
City of Paso Robles*

*April 8, 2022  
(Revised May 4, 2022)*

## **COMPENSATION**

Tartaglia Engineering and S.O. Witt and Associates propose to provide the services identified in the Scope of Service Section of this proposal on a Time and Material basis, not to exceed a total of One Hundred Fourteen Thousand (\$114,000) dollars, based on the following summary:

Item	Summary	Budget
1	Continue representation of Spaceport in meetings, conference calls, presentations	\$9,000
2	Continue research into potential vehicles / platforms, and spaceport partners	\$9,000
3	Communication regarding proposed marine sanctuary focused on gaining approval	\$5,000
4	Initiate contact with Point Mugu / authority holders	\$6,000
5	Further investigation and evaluation of air-space corridors	\$25,000
6	Draft Operational Summary	\$20,000
7	Further definition of on-airport facilities	\$25,000
8	Generate graphics to facilitate communication	\$9,000
	Estimated Travel to perform the above	\$6,000
	Total	<u>\$114,000</u>

Tartaglia Engineering will prepare and provide monthly invoices to the city based on percent-complete estimates for each individual task item prepared by the firm, reflecting services performed within the previous 30 days. Tartaglia Engineering reserves the right to shift individual line-item budgets around based on modifications to efforts required, while remaining under the not-to-exceed total amount of \$114,000.

## **TIME FOR PERFORMANCE**

Members of Tartaglia Engineering and S.O. Witt and Associates are prepared to continue our services in support of Spaceport, uninterrupted, continuing today. The effort outlined is anticipated to extend for a total of 90 calendar-days (3 months). Documents and work product will be continuously forwarded to the city throughout the engagement period as items and efforts are performed.

On behalf of Tartaglia Engineering and S.O. Witt and Associates, thank you for the opportunity to propose our continuing professional effort in support of Spaceport Paso Robles. Please call or reach out with any questions you may have regarding this proposal.

Sincerely,

**TARTAGLIA ENGINEERING**

John A. Smith, PE.  
Principal

## FIRST AMENDMENT TO THE PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF EL PASO DE ROBLES AND TARTAGLIA ENGINEERING

### 1. Parties and Date.

This First Amendment to the Agreement to provide professional services for the Spaceport at Paso Robles Airport is made and entered into as of this **\*\*\*INSERT DAY\*\*\*** day of **\*\*\*INSERT MONTH\*\*\***, 2022, by and between the City of El Paso de Robles (“City”) and Tartaglia Engineering (“Consultant”). City and Consultant are sometimes individually referred to as “Party” and collectively as “Parties.”

### 2. Recitals.

2.1 Original Agreement. City and Consultant have entered into an agreement entitled “City of El Paso de Robles Professional Services Agreement,” dated January 11, 2022 (the “Agreement”) for the purpose of retaining the professional services of Consultant for the development of a Spaceport at Paso Robles Airport (the “Project”).

2.2 Amendment. City and Consultant desire to amend the Agreement to provide for continuing services in order to further the Project toward licensing with the Federal Aviation Administration (“FAA”) and to provide City with information regarding overall Project development and operational efforts.

2.3 Amendment Authority. This First Amendment is authorized pursuant to Section 3, “Additional Work,” of the Agreement.

### 3. Terms.

3.1 Exhibit A. Exhibit A of the Agreement (“Scope of Services”) is hereby amended in its entirety to read as Exhibit 1, attached to this First Amendment. To the extent any terms of the original Exhibit A do not conflict with or materially alter the terms of Exhibit 1, those terms shall continue in full force and effect.

3.2 Exhibit B. Exhibit B of the Agreement (“Schedule of Charges/Payments”) is hereby amended in its entirety to read as Exhibit 2, attached to this First Amendment. To the extent any terms of the original Exhibit B do not conflict with or materially alter the terms of Exhibit 2, those terms shall continue in full force and effect.

#### 3.3 Continuing Effect of Agreement.

Except as amended by this First Amendment, all other provisions of the Agreement remain in full force and effect and shall govern the actions of the parties under this First Amendment. From and after the date of this First Amendment, whenever the term “Agreement” appears in the Agreement, it shall mean the Agreement as amended by this First Amendment.

#### 3.4 Adequate Consideration.



# Attachment 2

The Parties hereto irrevocably stipulate and agree that they have each received adequate and independent consideration for the performance of the obligations they have undertaken pursuant to this First Amendment.

## 3.5 Severability.

If any portion of this First Amendment is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

## 3.6 Counterparts.

This First Amendment may be executed in duplicate counterparts, each of which is deemed to be an original, but when taken together shall constitute but one and the same instrument.

**[SIGNATURES ON FOLLOWING PAGE]**

# Attachment 2

## SIGNATURE PAGE FOR FIRST AMENDMENT TO THE PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF EL PASO DE ROBLES AND TARTAGLIA ENGINEERING

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first written above.

CITY OF EL PASO DE ROBLES

TARTAGLIA ENGINEERING

By: \_\_\_\_\_  
Ty Lewis  
City Manager

By: \_\_\_\_\_  
Its: \_\_\_\_\_

Printed Name: \_\_\_\_\_

ATTEST:

By: \_\_\_\_\_  
Melissa Boyer  
City Clerk

CITY ATTORNEY APPROVAL:

By: \_\_\_\_\_  
City Attorney

REVIEWED:

By: \_\_\_\_\_  
City Project Manager

## EXHIBIT 1

### Scope of Continuing Services

With a focus on continuing forward momentum, the team of Tartaglia Engineering and S.O. Witt and Associates proposes to provide the following services in support of Spaceport Paso Robles (the "Project"):

#### Task 1: Continued Representation of Spaceport.

The team will continue representation of the Project through active participation in periodic technical advisory groups and Zoom sessions, presentations to the City Council, Planning Commission, and Airport Advisory Committee, along with communications via e-mail and phone to members of staff.

1. The team will provide active participation in meetings and calls.
2. The team will maintain notes and details regarding discussions and will provide such notes in response to requests for items that develop during such meetings.

#### Task 2: Continued Research.

The team will continue research into the potential vehicle/platform, and space launch partners. Identification of the platform and potential partner(s) will be critical not only for the successful completion of the application for a site license, but also to help characterize and quantify the nature and extent of on-airport improvements and upgrades that could be required, in support of and reflective of a specific weight class and vehicle size, such data presently unknown. The team will pursue both alternate horizontal platforms: the single vehicle to space, and the vehicle with attached carrier that separates over the ocean.

Deliverables include:

1. Notes and minutes including documentation regarding operational parameters of specific platforms being developed, generated from meetings and phone calls with platform developers, including those that have already identified interest and those that may not yet be of consideration.
2. Comments reflective of a review of operational and promotional materials received from such developers.

#### Task 3: Marine Sanctuary.

In response to favorable comments received during meetings and from the REACH group regarding efforts to preserve space launch opportunities, the team will focus its efforts to initiate direct communications with local Chumash representatives, including discussion of the concept of up to twelve (12) commercial space activity launches from a new Paso Robles Spaceport each year, and to prepare and submit documentation to NOAA, Chumash, and other entities that may be involved in the establishment process, specific to the anticipated program at Paso Robles. A conceptual operation passing over the intended marine sanctuary area will be

prepared and presented. An overall goal is to secure operational and route authority in advance of sanctuary final determination. Time is of the essence.

Deliverables include:

1. Notes and minutes from meetings and phone calls with the two entities facilitating the development of the sanctuary.
2. Draft and/or preliminary agreements in support of KPRB Spaceport operations, should negotiations advance to this level of formality.

#### Task 4: Meet with NAWCWD Range Operations Team.

Initiate and maintain contact with NAWCWD Range Operations and meet with the Range Department to brief them on the operations concept from KPRB inside the W532, including steps and requirements for securing airspace authority for launch within the secured airspace areas off the coast. The team will remain engaged with the NAWCWD Range Operations Team, providing updates as the licensing activity progresses and issues require mitigation.

Deliverables include:

1. Notes and minutes from meetings and phone calls with agency personnel.
2. Draft and/or preliminary agreements in support of KPRB Spaceport operations, should negotiations advance to this level of formality.

#### Task 5: Identify Airspace Corridors.

The team will further define and identify airspace corridors from Paso Robles Airport to logical points of launch over the Pacific, including how to get to or through Hunter Liggett to Whiskey areas off the coast. Team members will meet with Hunter Liggett operations staff and Oakland Center ARTCC staff concerning proposed operations in the out years from KPRB. The team will draft a working description of an ATCAA (Air Traffic Control-Assigned Airspace) concept for space activity from KPRB which can be activated by ATT as needed to alleviate the need for a TFR in the out years. Members will coordinate findings with other regional DoD airspace stakeholders.

Deliverables include:

1. A draft working description of the operational concept with a focus on sanctioned operations without a TFR.
2. Notes and minutes from meetings and phone calls with agency personnel.

#### Task 6: Operations Concept Paper.

The team will craft a draft operations concept paper for future use by KPRB Air and Space Port which will be an inclusion in the draft licensing submittal to FAA/AST. This document will grow with KPRB and become a living operations document for the facility prior to, during, and after Hazardous Operations. The document will be based on one or two select vehicle platforms, and will be aimed to alleviate concerns of tenants and users regarding the ability to safely cohabitate.



Deliverables include:

1. A draft operations concept paper, to be built upon and expanded as Spaceport Paso continues to advance.

## Task 7: Define On-Airport Spaceport Areas.

The team will further define and identify on-airport Spaceport areas, including preliminary revisions to the Airport Layout Plan. Team members will craft a definition of on-airport existing and new and/or proposed facilities required to support space operations that could include:

- A. ARFF facilities, equipment requirements, and emergency-response staging areas.
- B. Airspace.
- C. Security fencing and access control improvements, communications (whether on- or off-airport) during Hazardous Operations, surveillance systems.
- D. Vehicle and foot traffic movement restrictions during Hazardous Operations.
- E. ATC requirements during space operations.
- F. Movement and non-movement area designations and limitations during spaceport operations.
- G. Possibly runway, taxiway, and apron improvements, upgrades, and/or expansions.
- H. Runway and Taxi Object Free Area (ROFA & TOFA) enhancements.
- I. Runway and Taxi Safety Area (RSA & TSA) improvements and enhancements.
- J. Hazardous materials containment and control facilities.
- K. On-airport hazardous and safety area delineation signage plan.
- L. Conceptual airfield modifications to facilitate spaceport development in the infield area, within the triangle.
- M. Potential spaceport participant lease site designations, including airfield setback restrictions, and proposed ingress and egress routes.

Deliverables include:

1. To the extent possible, development and operational cost estimates along with anticipated timelines for the dispersion of funds.
2. A draft modified ALP, sheet 3 of the 14-sheet set of drawings, ready for distribution and consideration by the Airport Advisory Committee.
3. Details of specific items that cannot be conveyed on the ALP sheet.
4. Notes and minutes from meetings and discussions with the Airport Advisory Committee regarding conceptual/proposed airfield modifications.
5. Preliminary construction cost estimates.
6. Preliminary operational cost estimates.

## Task 8: Generate Graphics and Renderings.

The team will generate graphics and renderings for the Spaceport and associated facilities, to reflect the above activities as the Team progresses with Spaceport design and operations.

Deliverables include:

1. Further refinements of graphics already provided, to support the spaceport application.

2. Possible generation of a Day-of-Event Operational Guidelines graphic for team member use.
3. Possible enhanced area plans and maps depicting draft routes of operations from KPRB to off the coast, in support of the Spaceport application.

The efforts identified in this Scope of Continuing Services are considered as essential for the continued forward progress of Spaceport Paso Robles. Not all of these items are specifically required of an application for the Spaceport, however every item on this list is reflective of the many questions that have been raised and subjects that have been discussed regarding the Spaceport since the initiation of the Project. They reflect the individual and collective interests of the City Council, the Commission, the Committee, and the Technical Advisory Committee, providing an expanded vision upon which to build. All of the product generated during this next contract phase will be of value to the permitting process going forward.

### **Time for Performance**

Members of Tartaglia Engineering and S.O. Witt and Associates will continue services in support of the Project, uninterrupted, from the date of this Amendment. The effort outlined is anticipated to extend for a total of ninety (90) calendar days (three months). Documents and work product will be continuously forwarded to the City throughout the engagement period as items and efforts are performed.

## EXHIBIT 2

### Schedule of Charges/Payments

Tartaglia Engineering and S.O. Witt and Associates will provide the services identified in the Scope of Continuing Service of this proposal on a Time and Material basis, not to exceed a total of One Hundred Fourteen Thousand (\$114,000.00) dollars. Tartaglia team will prepare and provide monthly invoices to the City based on percent-complete estimates for each individual task item prepared by the firm, reflecting services performed within the previous 30 days. Tartaglia engineering reserves the right to shift individual line-item budgets around based on modifications to efforts required, while remaining under the not-to-exceed total amount of \$114,000.

Item	Summary	Budget
1	Continue representation of Spaceport in meetings, conference calls, presentations	\$9,000
2	Continue research into potential vehicles / platforms, and spaceport partners	\$9,000
3	Communication regarding proposed marine sanctuary focused on gaining approval	\$5,000
4	Initiate contact with Point Mugu / authority holders	\$6,000
5	Further investigation and evaluation of air-space corridors	\$25,000
6	Draft Operational Summary	\$20,000
7	Further definition of on-airport facilities	\$25,000
8	Generate graphics to facilitate communication	\$9,000
	Estimated Travel to perform the above	\$6,000
	<b>Total</b>	<b>\$114,000</b>