

From: [Kendal Keyes](#)
To: [Stacey.Zee@faa.gov](#); [Orms, Mary](#); [Matthew.Thompson@spacex.com](#); [Reagan Faught](#); [Michael Strutt](#); [Greg Creacy](#)
Cc: [Reyes, Ernesto](#); [Spier, Mark E](#); [Winton, Bryan](#); [Clements, Pat](#); [Ardizzone, Chuck CA](#); [Gardiner, Dawn](#); [Jess, Robert RJ](#); [Daniel.Murray@faa.gov](#); [Howard.Searight@faa.gov](#); [Lemuel.Thomas@faa.gov](#); [Reagan Faught](#); [Greg Creacy](#); [David.Kroskie](#); [Michael Strutt](#); [Jackie Robinson](#); [Nicholas.Baker@icf.com](#)
Subject: [EXTERNAL] RE: SpaceX
Date: Friday, April 26, 2019 10:34:58 AM
Importance: High

That's terrific. It will help a lot.

Thank you

Kendal Keyes, Regional Natural Resources Coordinator
Texas Parks & Wildlife Department - State Parks Division
715 S. Hwy. 35, Rockport, TX 78382
office (361)790-0325
mobile (361) 205-4086
kendal.keyes@tpwd.texas.gov

From: [Stacey.Zee@faa.gov](#) [mailto:Stacey.Zee@faa.gov]

Sent: Friday, April 26, 2019 11:32 AM

To: [Kendal Keyes](#) <Kendal.Keyes@tpwd.texas.gov>; [mary_orms@fws.gov](#); [Matthew.Thompson@spacex.com](#); [Reagan Faught](#) <Reagan.Faught@tpwd.texas.gov>; [Michael Strutt](#) <Michael.Strutt@tpwd.texas.gov>; [Greg Creacy](#) <Greg.Creacy@tpwd.texas.gov>

Cc: [ernesto_reyes@fws.gov](#); [mark_spier@nps.gov](#); [bryan_winton@fws.gov](#); [pat_clements@fws.gov](#); [chuck_ardizzone@fws.gov](#); [dawn_gardiner@fws.gov](#); [robert_jess@fws.gov](#); [Daniel.Murray@faa.gov](#); [Howard.Searight@faa.gov](#); [Lemuel.Thomas@faa.gov](#); [Reagan Faught](#) <Reagan.Faught@tpwd.texas.gov>; [Greg Creacy](#) <Greg.Creacy@tpwd.texas.gov>; [David Kroskie](#) <David.Kroskie@tpwd.texas.gov>; [Michael Strutt](#) <Michael.Strutt@tpwd.texas.gov>; [Jackie Robinson](#) <Jackie.Robinson@tpwd.texas.gov>; [Nicholas.Baker@icf.com](#)

Subject: RE: SpaceX

Hi Kendel – We are putting together a summary of the plans we have sent you in the past and will get you files. My goal is to get a response by COB today – or Monday at the very latest.

Thanks.

From: [Kendal Keyes](#) <Kendal.Keyes@tpwd.texas.gov>

Sent: Friday, April 26, 2019 10:41 AM

To: [Zee, Stacey \(FAA\)](#) <Stacey.Zee@faa.gov>; [mary_orms@fws.gov](#); [Matthew.Thompson@spacex.com](#); [Reagan Faught](#) <Reagan.Faught@tpwd.texas.gov>; [Michael Strutt](#) <Michael.Strutt@tpwd.texas.gov>; [Greg Creacy](#) <Greg.Creacy@tpwd.texas.gov>

Cc: [ernesto_reyes@fws.gov](#); [mark_spier@nps.gov](#); [bryan_winton@fws.gov](#); [pat_clements@fws.gov](#); [chuck_ardizzone@fws.gov](#); [dawn_gardiner@fws.gov](#); [robert_jess@fws.gov](#); [Murray, Daniel \(FAA\)](#) <Daniel.Murray@faa.gov>; [Searight, Howard \(FAA\)](#) <Howard.Searight@faa.gov>; [Thomas, Lemuel \(FAA\)](#) <Lemuel.Thomas@faa.gov>; [Reagan Faught](#) <Reagan.Faught@tpwd.texas.gov>; [Greg Creacy](#) <Greg.Creacy@tpwd.texas.gov>; [David Kroskie](#) <David.Kroskie@tpwd.texas.gov>; [Michael Strutt](#) <Michael.Strutt@tpwd.texas.gov>; [Jackie Robinson](#) <Jackie.Robinson@tpwd.texas.gov>

Subject: RE: SpaceX

Hi Stacey:

I order to prepare for the May 8th meeting, we really need to have this information today or Monday at the latest. As I said below, we do not have the final version of various plans, permits, and agreements that have been developed, or even a comprehensive list. A summary of these materials, with current status, and the final or most recent version of each would be really useful.

We would especially like to have a copy of the final version of the Security Plan.

Please let me know if there is anything we can do to help.

Thank you,

Kendal

Kendal Keyes, Regional Natural Resources Coordinator
Texas Parks & Wildlife Department - State Parks Division
715 S. Hwy. 35, Rockport, TX 78382
office (361)790-0325
mobile (361) 205-4086
kendal.keyes@tpwd.texas.gov

From: [Stacey.Zee@faa.gov](#) [mailto:Stacey.Zee@faa.gov]

Sent: Friday, April 12, 2019 7:51 AM

To: [Kendal Keyes](#) <Kendal.Keyes@tpwd.texas.gov>; [mary_orms@fws.gov](#); [Matthew.Thompson@spacex.com](#)

Cc: [ernesto_reyes@fws.gov](#); [mark_spier@nps.gov](#); [bryan_winton@fws.gov](#); [pat_clements@fws.gov](#); [chuck_ardizzone@fws.gov](#); [dawn_gardiner@fws.gov](#); [robert_jess@fws.gov](#); [Daniel.Murray@faa.gov](#); [Howard.Searight@faa.gov](#); [Lemuel.Thomas@faa.gov](#); [Reagan Faught](#) <Reagan.Faught@tpwd.texas.gov>; [Greg Creacy](#) <Greg.Creacy@tpwd.texas.gov>; [David Kroskie](#) <David.Kroskie@tpwd.texas.gov>; [Michael Strutt](#) <Michael.Strutt@tpwd.texas.gov>; [Jackie Robinson](#) <Jackie.Robinson@tpwd.texas.gov>

Subject: RE: SpaceX

We will send out an update with the latest files within the next week

Thanks!

From: [Kendal Keyes](#) <Kendal.Keyes@tpwd.texas.gov>

Sent: Thursday, April 11, 2019 2:13 PM

To: [Zee, Stacey \(FAA\)](#) <Stacey.Zee@faa.gov>; [mary_orms@fws.gov](#); [Matthew.Thompson@spacex.com](#)

Cc: [ernesto_reyes@fws.gov](#); [mark_spier@nps.gov](#); [bryan_winton@fws.gov](#); [pat_clements@fws.gov](#); [chuck_ardizzone@fws.gov](#); [dawn_gardiner@fws.gov](#); [robert_jess@fws.gov](#); [Murray, Daniel \(FAA\)](#) <Daniel.Murray@faa.gov>; [Searight, Howard \(FAA\)](#) <Howard.Searight@faa.gov>; [Thomas, Lemuel \(FAA\)](#) <Lemuel.Thomas@faa.gov>; [Reagan Faught](#) <Reagan.Faught@tpwd.texas.gov>; [Greg Creacy](#) <Greg.Creacy@tpwd.texas.gov>; [David Kroskie](#) <David.Kroskie@tpwd.texas.gov>; [Michael Strutt](#) <Michael.Strutt@tpwd.texas.gov>; [Jackie Robinson](#) <Jackie.Robinson@tpwd.texas.gov>

Subject: RE: SpaceX

Stacey:

In trying to brief new staff I have discovered that I do not have the final version of various plans, permits, and agreements that have been developed, or even a comprehensive list. A summary of these materials, with current status, and the final or most recent version of each would be really useful.

The Environmental Impact Statement, Biological and Conference Opinion, Record of Decision, Programmatic Agreement,

and Memorandum of Agreement are posted at

https://www.faa.gov/about/office_org/headquarters_offices/ast/environmental/nepa_docs/review/launch/spacex_texas_launch_site_environmental_impact_statement/

This is very helpful. Are the other plans, permits, and agreements which are included within the various documents, like fixing the historical marker, developing the interpretive signage and website, posted anywhere? If not, can we arrange for all of this information to be listed, the status summarized, and the latest versions distributed to us all or posted somewhere?

Thank you,

Kendal

Below is a partial list of plans, permits, and agreements that have been developed:

Environmental Impact Statement

Biological and Conference Opinion
Record of Decision
Programmatic Agreement
Memorandum of Agreement
Unanticipated Discoveries Plan
Final Archaeological Resources Investigation
Final Architectural Survey
FAA-Launch-Specific License
FAA-Launch Operator License
FAA-Experimental Permit
USACE-Section 404 Permit

PA Appendix D Required Plans:

- a. Lighting Management Plan
- b. Facility Design Plan
- c. Vibration Monitoring Plan
- d. Unanticipated Discoveries Plan
- e. Hurricane Plan
- f. Construction Stormwater Pollution Prevention Plan
- g. Operation Stormwater Pollution Prevention Plan
- h. Spill Pollution and Prevention Plan
- i. Hazardous Materials Emergency Response Plan
- j. Emergency Action Plan
- k. Security Plan

Kendal Keyes, Regional Natural Resources Coordinator
Texas Parks & Wildlife Department - State Parks Division
715 S. Hwy. 35, Rockport, TX 78382
office (361) 790-0325
mobile (361) 205-4086
kendal.keyes@tpwd.texas.gov

From: Stacey.Zee@faa.gov [mailto:Stacey.Zee@faa.gov]

Sent: Wednesday, April 10, 2019 3:17 PM

To: mary_orms@fws.gov; Matthew.Thompson@spacex.com

Cc: Kendal Keyes <Kendal.Keyes@tpwd.texas.gov>; ernesto_reyes@fws.gov; mark_spier@nps.gov; bryan_winton@fws.gov; pat_clements@fws.gov; chuck_ardizzzone@fws.gov; dawn_gardiner@fws.gov; robert_jess@fws.gov; Daniel.Murray@faa.gov; Howard.Searight@faa.gov; Lemuel.Thomas@faa.gov

Subject: RE: SpaceX

Mary –

Thank you for this information and thank you for your comments on the WR. Much of this was covered in our discussion from last fall and a letter we sent you earlier.

We are pulling your WR comments and various emails into a table and will provide comment responses and previous documents and letters to help the understanding. We are working to get something to you early next week.

-Stacey

From: Orms, Mary <mary_orms@fws.gov>

Sent: Friday, April 05, 2019 2:54 PM

To: Zee, Stacey (FAA) <Stacey.Zee@faa.gov>; Matthew.Thompson@spacex.com

Cc: Kendal Keyes <Kendal.Keyes@tpwd.texas.gov>; Ernesto Reyes <ernesto_reyes@fws.gov>; Mark Spier <mark_spier@nps.gov>; Bryan Winton <bryan_winton@fws.gov>; Pat Clements <pat_clements@fws.gov>; Chuck Ardizzzone <chuck_ardizzzone@fws.gov>; Dawn Gardiner <dawn_gardiner@fws.gov>; Robert Jess <robert_jess@fws.gov>

Subject: SpaceX

Stacey,

As provided in 50 CFR §402.16, reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has been retained (or is authorized by law) and if: (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; (3) the agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not considered in this opinion; or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must cease pending reinitiation.

I received a drone video of the current site. I compared its location and size to the original project site we analyzed under the BO. What I noticed was that the location of the piping plover habitat impacts we assessed is not the same. It has moved further west into another area that was not presumed to have the same impacts because of the site configuration. Therefore, "take" of that habitat has not been assessed and the one we did is not longer valid.

Therefore, the current vegetation monitoring plan that is being implemented is no longer valid because the area is not being impacted. The "take" issued will have to be reanalyzed and the vegetation monitoring plan revised. I have attached pictures that show the old and new location of the site and the areas analyzed and Figure 15 and 16 of the BO for you to compare.

The closures are another issue. We understand there is an agreement between The Texas General Land Office and Cameron County. It includes holidays that SpaceX cannot have activities and authorizes Cameron County to issue the notices of closure. However, our consultation is with FAA. FAA authorized the activities under the waiver, and the BO is the agreement we have with FAA, therefore, measures as to how to conduct those closures should be undertaken as the FAA has agreed to under the BO. The Service has informed FAA several times that it is not in compliance, yet the closures continue in a manner unacceptable under the BO.

As added information sea turtles have started nesting south of the border, therefore we expect sea turtles to start nesting any day along our beaches, in particular Boca Chica. We know Sea Turtle Inc. and SpaceX have had discussions and hopefully if all goes well Sea Turtle Inc. will be able to arrive at the SpaceX station on Monday and begin their patrols on Tuesday.

We recommend a meeting or call to discuss the 1) piping plover issue, because, at this time FAA is not covered for impacts to the plover; 2) closures as FAA is out of compliance; 3) Reinitiation of the BO and/or how to handle all the changes in project purpose, location, design, operation and monitoring.

--

Mary Orms

U.S. Fish and Wildlife Service
Ecological Services Field Office
P.O. Box 81468
Corpus Christi, TX 78468-1468
4444 Corona Dr., Suite 215
Corpus Christi, Texas 78411-4300
Office Phone: (361) 994-9005
Direct Line: (361) 225-7315
Fax: (361) 994-8262