

**From:** [Gardiner, Dawn](#)  
**To:** [Combs, Brett A](#)  
**Subject:** Fw: [EXTERNAL] Re: FYI  
**Date:** Tuesday, April 11, 2023 1:46:50 PM

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**From:** Perez, Chris <chris\_perez@fws.gov>  
**Sent:** Thursday, February 16, 2023 9:41 AM  
**To:** Gardiner, Dawn <dawn\_gardiner@fws.gov>  
**Cc:** Orms, Mary <mary\_orms@fws.gov>; DeLaGarza, Imer <Imer\_DeLaGarza@fws.gov>  
**Subject:** Re: [EXTERNAL] Re: FYI

I agree. Stephanie inspected the area as soon as it was open and we could not document any bird mortalities.

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**From:** Gardiner, Dawn <dawn\_gardiner@fws.gov>  
**Sent:** Thursday, February 16, 2023 9:25 AM  
**To:** Perez, Chris <chris\_perez@fws.gov>  
**Cc:** Orms, Mary <mary\_orms@fws.gov>; DeLaGarza, Imer <Imer\_DeLaGarza@fws.gov>  
**Subject:** Re: [EXTERNAL] Re: FYI

I don't think we need to respond. They are sharing opinions and ideas for their group to proceed forward with. I cant think of an action item for us, except next call with FAA we can discuss the questions coming in about decibels and possibility of measuring them- ask what might be used at McGregor and Kenedy Space Center, if anything. (I am the guilty party of the shoddy response).  
Dawn

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**From:** Perez, Chris <chris\_perez@fws.gov>  
**Sent:** Thursday, February 16, 2023 9:16 AM  
**To:** Gardiner, Dawn <dawn\_gardiner@fws.gov>  
**Cc:** Orms, Mary <mary\_orms@fws.gov>; DeLaGarza, Imer <Imer\_DeLaGarza@fws.gov>  
**Subject:** Fw: [EXTERNAL] Re: FYI

Do we need to respond to this? FAA?

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**From:** mary branch <txfinder@att.net>  
**Sent:** Wednesday, February 15, 2023 9:04 PM  
**To:** Tommy J. Saenz <txsurfdog@gmail.com>  
**Cc:** Molly Smith <molly.smith24@gmail.com>; Jim Chapman <jchapmanrgv@gmail.com>; Bill Berg <billberg42@gmail.com>; Maria Galasso <galamm@comcast.net>; Kenneth Saxon <kennethsaxon1@gmail.com>; Vicky Guerra <VGuerra276@aol.com>; Patrick Anderson <PatrickTAnderson@yahoo.com>; Beatriz Reynoso <beatrizERICA.reynoso@gmail.com>; John & Barbara <forjohnandbarbara@gmail.com>; ESG Hound <esg.hound@gmail.com>; David Newstead <dnewstead@cbbep.org>; Perez, Chris <chris\_perez@fws.gov>; Bilodeau, Stephanie A <stephanie\_bilodeau@fws.gov>  
**Subject:** [EXTERNAL] Re: FYI

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Agree. But who do we make a request to? FWS sent me a very shoddy response to my inquiries. Only gave me the decibel level from three miles away. Perhaps we need to do a formal FOIA but it will take weeks to get an answer. Can't we go to FAA or USDOT or DOI and bypass the regional offices of Dawn and Chris?? The video is horrifying but they are all holding to 'no carcasses found.' We need evidence.  
Mary B.

Sent from my iPhone

On Feb 15, 2023, at 8:57 PM, mary branch <txfinder@att.net> wrote:

They have those at airports to avoid birds getting sucked into the engines which can cause aircraft failure and human fatalities. It's part of the USDA animal plant health inspection services that works to avoid bird and aircraft collisions. I'm not a rocket engineer but I'm not sure how birds can get sucked up into anything like that on a rocket. Besides as Jim says it would just be sucking up ashes at that point.

Well this goes back to us talking about the impacts of testing versus launching and whether the EA addresses that. They can test all they want and have very bad impacts on the environment and the wildlife way prior to ever even launching. We talked about addressing that in some way if the EA did not assess impacts and mitigation of testing.

Mary B.

Sent from my iPhone

On Feb 15, 2023, at 8:41 PM, Tommy J. Saenz <txsurfdog@gmail.com> wrote:

I would recommend having SpaceX Boca Chica installing Airport bird cannons to scare birds. Fire cannot just before rocket ignition to scare the away.

<https://www.atlasobscura.com/places/bird-cannon#:~:text=At%20Washington's%20Reagan%20National%20Airport,peak%20spring%20and%20fall%20migration>

Sincerely

Tommy J. Saenz

On Wed, Feb 15, 2023, 8:23 PM Molly Smith <molly.smith24@gmail.com> wrote:

I think they owe us specific scientific data. It's on them to prove effects. After all, isn't this a scientific endeavor?

On Wed, Feb 15, 2023 at 8:07 PM Jim Chapman <jchapmanrgv@gmail.com> wrote:

This is from p.133 of the Final PEA. Ground temperatures reach 212 degrees .3 mile from the launch site. I did the math, that's 180.9 acres. They say no problem, "would dissipate within minutes." They mention the effect on plants("some alteration") but not animals. That tremendous cloud of birds we saw in last week's test? I doubt they would be able to fly away fast enough to avoid that heat.plume. And I think 212 degrees for more than a few seconds would be lethal. Thoughts?

Exhaust/heatplumes:Theheatplumegeneratedfromlauncheswouldtravelawayfrom launchpad,withtemperaturesof2120Fapproximately0.3milefromthelaunchpadand temperaturesreachingambient(900F)0.6milefromthelaunchpad.Theheatplumemaycause somealterationstotheplantcommunityandcouldleadtovegetationchanges,includingloss of

FinalPEAforStarship/SuperHeavyatBocaChica 133 June2022

AffectedEnvironmentand

FAAOfficeofCommercialSpaceTransportation EnvironmentalConsequences

plantcommunitystructure,reductionintotalcover,andreplacementofsamenativespecies withweedspecies.Thesetemperatureswouldbeshortlived(heatplumewoulddissipatewithin minutes)andnotexpectedtopermanentlydamagethevegetation.