

**From:** [Dan Grout](#)  
**To:** [Gerry\\_McChesney@fws.gov](mailto:Gerry_McChesney@fws.gov); [Gabrielle Feldman](#)  
**Cc:** [Madeleine Pott](#)  
**Subject:** RE: Any progress on proposed UAS Project  
**Date:** 09/21/2012 03:50 PM

---

Gerry:

I'll let Gabrielle take a look at the flight request and work with Maddy to help fill that out early next week.

The upper cost estimate of \$20,000 is pretty steep for our budget (and won't be possible at all without OWCN funds)...

If they can trim down to \$10,000 or less, it might be possible to do with the OWCN budget. Keep us posted...

I'm not sure how to best handle the payment issue for them...we still have some federal agency funding questions for you for USDA:

(from Sept 17<sup>th</sup> below):

Hi Gerry:

Hope you had a good weekend. The OWCN training Friday went well and was very helpful. I'm glad Jonathan got to be there.

It was good to meet Winston and Paul Gorenzel. I also spoke with and finally met Mike Ziccardi, who said the OWCN committee meets next week to decide about funding our proposal for the trial. Keep your fingers crossed, as we will need the funds to make this happen.

Maddy and I have some questions for you about USDA's involvement we need answered ASAP to finish the Hazing Trial Plan and budgeting this week.

**Could you please contact Eric Covington to get answers to these questions us by Wednesday this week?**

- Is the USDA willing to purchase pyrotechnics on our behalf?
- If so, how will the USDA be reimbursed for these supply purchases?
- Are USDA personnel only available to work a Mon-Sunday schedule?
- Are Valerie and Derek confirmed as being the USDA personnel? What is Valerie's last name and what is her contact information?
- What are the time constraints for Valerie and Derek (other than Derek needing to be on mainland on Dec 1)? Are there restrictions on USDA personnel working more than 7 days in a row? (Could we ask them for 8 days?)
- What is the current total estimated cost for Derek & Valerie's time?
- Can we get a list of what supplies we can count on from the USDA—I know that Derek Milsaps is planning on bringing some equipment from his airfield, but are there other items which will be coming from a larger/more general stock?
- How soon can we get that list of equipment?

- By what date can we count on having access to this equipment—either so that we know where/when to collect it or in the case that we can take it out earlier in November to the island?

Thanks for looking into this for us!

Dan Grout

PS. for ~\$2500 each per week, will USDA buy their own food and travel, or do we have to pay for that?

---

**From:** Gerry\_McChesney@fws.gov [mailto:Gerry\_McChesney@fws.gov]  
**Sent:** Friday, September 21, 2012 3:18 PM  
**To:** Dan Grout; Madeleine Pott; Gabrielle Feldman  
**Subject:** Fw: Any progress on proposed UAS Project

Can you guys take a look at this flight request they want us to fill out. We also need to think about how we'll get them money if they can come through.

Gerry

-----  
 Gerry McChesney  
 Manager, Farallon National Wildlife Refuge and  
 Common Murre Restoration Project  
 U.S. Fish and Wildlife Service  
 San Francisco Bay National Wildlife Refuge Complex  
 1 Marshlands Road  
 Fremont, CA 94555  
 Phone: 510-792-0222, ext. 222, cell: 510-435-9151  
 Fax: 510-745-9285  
 Email: [Gerry\\_McChesney@fws.gov](mailto:Gerry_McChesney@fws.gov)  
<http://www.fws.gov/sfbayrefuges/murre/murrehome.htm>  
<http://www.fws.gov/sfbayrefuges/Farallon/>  
 -----

----- Forwarded by Gerry McChesney/SFBAY/R1/FWS/DOI on 09/21/2012 03:16 PM -----

"Fladeland, Matthew M. (ARC-SG)"  
[<matthew.fladeland@nasa.gov>](mailto:matthew.fladeland@nasa.gov)

09/19/2012 02:01 PM

To: "[Gerry\\_McChesney@fws.gov](mailto:Gerry_McChesney@fws.gov)"  
[<Gerry\\_McChesney@fws.gov>](mailto:Gerry_McChesney@fws.gov)  
 cc: "Berthold, Randall W. (ARC-SGE)"  
[<randall.w.berthold@nasa.gov>](mailto:randall.w.berthold@nasa.gov)  
 Subject: RE: Any progress on proposed UAS Project

Gerry:

We are happy to hear back from you. We had thought a site survey was planned for a week ago and so wondered when it will be rescheduled. Once we have more precise info on how and where we plan to operate on the island, we'll have enough information to move forward with the FAA. As we discussed, this will not be a hazing operation but we will talk with them to better define what the regulations allow. Before we can engage our A/C M&O team we will need to get working on the contract side to MIPR monies to NASA as this is considered a reimbursable mission. It would help us very much if someone from your team could fill out a flight request at <http://airbornescience.nasa.gov/sofrs>. This will help us have all the information in one place to share with the team and triggers the project to generate a cost estimate.

The COA is less of a concern from my perspective than is the readiness of the platform. As you know we have only just acquired these and so we still have to make it through a NASA Airworthiness board and so are making progress on that and are planning flight testing in late Oct and Nov.

Please let us know when you would like to setup the next conference call.

Best regards,

Matt

---

Matthew M. Fladeland  
Airborne Science Manager  
Earth Science Division  
NASA Ames Research Center  
Moffett Field, CA 94035  
650-604-3325 tel  
650-793-6129 cell  
[matthew.fladeland@nasa.gov](mailto:matthew.fladeland@nasa.gov)

---

---

From: Berthold, Randall W. (ARC-SGE)  
Sent: Wednesday, September 19, 2012 12:52 PM  
To: [Gerry\\_McChesney@fws.gov](mailto:Gerry_McChesney@fws.gov); Fladeland, Matthew M. (ARC-SG)  
Subject: Re: Any progress on proposed UAS Project

Gerry,  
NASA only need 60 days. There are still challenges with the mission that you and Matt should discuss, aircraft and support team schedules, budgets, etc.. Once we are on the same page I can put the team to work.  
Randy  
On 9/19/12 12:45 PM, [Gerry\\_McChesney@fws.gov](mailto:Gerry_McChesney@fws.gov) <[mailto:Gerry\\_McChesney@fws.gov](mailto:Gerry_McChesney@fws.gov)> wrote:

Hi Randy,

So what is the next step? With a 90-day review, it then seems like having FAA approval in time for our early December trial is highly unlikely. Do I understand that correctly?

Gerry

---

-----  
Gerry McChesney  
Manager, Farallon National Wildlife Refuge and  
Common Murre Restoration Project  
U.S. Fish and Wildlife Service  
San Francisco Bay National Wildlife Refuge Complex  
1 Marshlands Road  
Fremont, CA 94555  
Phone: 510-792-0222, ext. 222, cell: 510-435-9151  
Fax: 510-745-9285  
Email: [Gerry\\_McChesney@fws.gov](mailto:Gerry_McChesney@fws.gov) <[mailto:Gerry\\_McChesney@fws.gov](mailto:Gerry_McChesney@fws.gov)>  
<http://www.fws.gov/sfbayrefuges/murre/murrehome.htm>  
<http://www.fws.gov/sfbayrefuges/Farallon/>

---

[[cid:part3.06080905.01010502@nasa.gov](mailto:cid:part3.06080905.01010502@nasa.gov)]Randy Berthold

<Randall.W.Berthold@nasa.gov><mailto:Randall.W.Berthold@nasa.gov>

Randy Berthold

<Randall.W.Berthold@nasa.gov><mailto:Randall.W.Berthold@nasa.gov>

09/19/2012 11:56 AM

To

"Gerry McChesney@fws.gov"<mailto:Gerry McChesney@fws.gov>

<Gerry McChesney@fws.gov><mailto:Gerry McChesney@fws.gov>

cc

"Paul McKim@fws.gov"<mailto:Paul McKim@fws.gov>

<Paul McKim@fws.gov><mailto:Paul McKim@fws.gov>, "Fladeland, Matthew M. (ARC-SG)" <matthew.fladeland@nasa.gov><mailto:matthew.fladeland@nasa.gov>, "Sheffner, Edwin J. (ARC-SG)"

<edwin.j.sheffner@nasa.gov><mailto:edwin.j.sheffner@nasa.gov>

Subject

Re: Any progress on proposed UAS Project

Gerry,

NASA has been obtaining COA's in around 60 days. NASA Ames has received 10 COAs in the past year. Many have been very complicated requiring the FAA to allow us to try new methods for compliance, e.g., a chase plane for 50 continuous mile flight line. A complete COA, utilizing a COTS UAS, submitted by a competent UAS operator, can now plan on a 90 day review cycle.

I can't speculate on how the FAA will view bird hazing as a goal and justification but I think if there is scientific merit we can build a persuasive case, one I would be willing to defend. But in our discussions after the meeting we felt we could re-word the goals a bit to reflect the overall mission goal of invasive species control/eradication.  
Randy

On 9/18/12 11:05 AM, Gerry\_McChesney@fws.gov<mailto:Gerry McChesney@fws.gov> wrote:

>

> Have you guys had a chance to check with FAA on the amount of time  
> we'll need to get a permit and whether hazing birds is an option?

>

> Gerry

>

> -----  
> -----

> Gerry McChesney

> Manager, Farallon National Wildlife Refuge and

> Common Murre Restoration Project

> U.S. Fish and Wildlife Service

> San Francisco Bay National Wildlife Refuge Complex

> 1 Marshlands Road

> Fremont, CA 94555

> Phone: 510-792-0222, ext. 222, cell: 510-435-9151

> Fax: 510-745-9285

> Email: Gerry\_McChesney@fws.gov<mailto:Gerry McChesney@fws.gov>

> <http://www.fws.gov/sfbayrefuges/murre/murrehome.htm>

> <http://www.fws.gov/sfbayrefuges/Farallon/>

> -----  
> -----

>

--

Randall W. Berthold, Ph.D.

Diving Safety Officer/UAS Project Office

NASA Ames Research Center

Earth Science Division  
M/S N245-4; Rm. 126  
Moffett Field, CA., 94035-1001  
650.604.3408 Office  
650.604.4680 Fax  
Randall.W.Berthold@nasa.gov<<mailto:Randall.W.Berthold@nasa.gov>>

--

Randall W. Berthold, Ph.D.  
Diving Safety Officer/UAS Project Office  
NASA Ames Research Center  
Earth Science Division  
M/S N245-4; Rm. 126  
Moffett Field, CA., 94035-1001  
650.604.3408 Office  
650.604.4680 Fax  
Randall.W.Berthold@nasa.gov<<mailto:Randall.W.Berthold@nasa.gov>>