From: (b)(6)
Sent: Tuesday, October 01, 2019 11:18 AM
To: Haire, Mark
Subject: FW: minimizing calls to duty officers during sleeping hours

For your awareness.

From: Hoc, HOO X
Sent: Tuesday, October 01, 2019 11:16 AM
To: Pearson, Laura <Laura.Pearson@nrc.gov>
Cc: Crouch, Howard <Howard.Crouch@nrc.gov>; Waugh, Andrew <Andrew.Waugh@nrc.gov>; Kennedy, Silas <Silas.Kennedy@nrc.gov>; (b)(6) (b)(6) Richardson, Rebecca <Rebecca.Richardson@nrc.gov>; (b)(6) (b)(6) (b)(6) Yip, Brian <Brian.Yip@nrc.gov>
Subject: RE: minimizing calls to duty officers during sleeping hours

Laura,

Here is the guidance that your predecessor(s) provided to us with respect to immediate notifications to the ILTAB Duty Officer. The implication is that all other notifications to the duty officer will be during normal working hours. In our parlance, **IMMEDIATELY NOTIFY** means no matter the hour. Please feel free to provide us guidance on when, or if, we are ever to immediately notify the ILTAB duty officer of events. For instance, if only during emergencies, please specify what constitutes an emergency (Security EALs invoked by the licensee, armed response to the facility by LLEA, credible threat information, etc.)

1. **IF** notification involves activities which pose a potential direct or communicated threat to the site including, but not limited to:
   - Ongoing security events. (basis for the drone calls since they were loitering in the OCA)
   - Verbal/telephone/e-mail threats.
   - Bomb threats.
   - Threats to site employees.
   - Fence jumpers/intrusions.
   - Security barrier penetrations.
   - Discovery of weapons or explosives.
   - Event involving law enforcement response/investigation on the owner-controlled area (OCA) or watercraft exclusion areas.
   - Event involving FBI investigation.
   - Security-related media attention at any level.
   - Sabotage/Tampering

   THEN IMMEDIATELY NOTIFY:
   ILTAB Duty Officer (Call List 24)

Regards,
Howie Crouch

Headquarters Operations Officer
U. S. Nuclear Regulatory Commission

phone: 301-816-5100
fax: 301-816-5151
hoo.hoc@nrc.gov
secure: hoo1@nrc.sgov.gov

U.S.NRC
Protecting People and the Environment

From: Kennedy, Silas
Sent: Tuesday, October 01, 2019 10:36 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Cc: Crouch, Howard <Howard.Crouch@nrc.gov>; Waugh, Andrew <Andrew.Waugh@nrc.gov>; Pearson, Laura <Laura.Pearson@nrc.gov>
Subject: FW: minimizing calls to duty officers during sleeping hours

HOO,

Please place a note in the turnover log stating "Until further notice, do not call the ILTAB duty officer from 10 pm until 6 am for drone flyovers of Palo Verde. Send an email to ILTAB in the morning. This is specific to Palo Verde only. For all other licensed facilities, continue to follow HOO procedures until changes are made."

Thanks,

Silas

From: Pearson, Laura
Sent: Tuesday, October 01, 2019 8:09 AM
To: Kennedy, Silas <Silas.Kennedy@nrc.gov>
Subject: RE: minimizing calls to duty officers during sleeping hours

Silas, can we temporarily halt calls to the ILTAB duty officer about drones flying over this NPP in the wee hours, before we are able to make a permanent change to the procedures? There is nothing ILTAB can do about it at night, and if my staff has to be woken up about it each night, it will start to cause other problems for us. We have a small staff and having people out or late because they are not getting adequate sleep will impact our ability to get work done.

From: (b)(6)
Sent: Tuesday, October 01, 2019 6:36 AM
To: Pearson, Laura <Laura.Pearson@nrc.gov>
Subject: RE: minimizing calls to duty officers during sleeping hours

Thanks. Got another call last night at 12:30. Same place, same drones.

(b)(6)

From: Pearson, Laura
Sent: Monday, September 30, 2019 10:13 AM
To: (b)(6)
Subject: FW: minimizing calls to duty officers during sleeping hours

FYI

From: Kennedy, Silas
Sent: Monday, September 30, 2019 9:48 AM
To: Waugh, Andrew <Andrew.Waugh@nrc.gov>
Cc: Pearson, Laura <Laura.Pearson@nrc.gov>; (b)(6) Crouch, Howard <Howard.Crouch@nrc.gov>
Subject: RE: minimizing calls to duty officers during sleeping hours

Andy,

Please work with (b)(6) to update HOO procedures to help minimize calls to ILTAB during the middle of the night. Please see emails below.

Thanks,

Silas

From: Pearson, Laura
Sent: Monday, September 30, 2019 9:43 AM
To: Kennedy, Silas <Silas.Kennedy@nrc.gov>; (b)(6)
Subject: RE: minimizing calls to duty officers during sleeping hours

Thanks! (b)(6) is the POC.

From: Kennedy, Silas
Sent: Monday, September 30, 2019 9:25 AM
To: Pearson, Laura <Laura.Pearson@nrc.gov>
Subject: RE: minimizing calls to duty officers during sleeping hours

Good Morning Laura,

Probably the best way forward is to change the procedure to clearly state what ILTAB would like to be notified for immediately and notified in the morning (email). If you can give me a point of contact in your branch, I can have him work with one of my procedure leads to propose a change.

Silas

Silas Kennedy
Chief, Operations Branch
Division of Preparedness and Response
Nuclear Security and Incident Response
301-287-0756 Work
(b)(6) Mobile

From: Pearson, Laura
Sent: Monday, September 30, 2019 9:18 AM
To: Kennedy, Silas <Silas.Kennedy@nrc.gov>
Subject: minimizing calls to duty officers during sleeping hours

Silas,

Our folks got calls last night at 2am, which is correct per the procedure. However, I am wondering if there is a way to cut down on calls in the middle of the night for issues that ILTAB can't add value to. The call last night about drones is a good example—in the middle of the night, ILTAB can't really do anything about it anyway apart from say "ok thanks" and handle it in the morning. However, the call interrupts sleep, and then they are either groggy or come in late, so there's negative returns on it from an organizational perspective. We are also understaffed in here, so I need all my folks to be able to come in and be alert. Can we change the procedure or reinterpret the procedure so that staff are only called in a true emergency? Thanks.

Laura Pearson
Chief, Intelligence Liaison and Threat Assessment Branch
Office of Nuclear Security and Incident Response
301-492-3933

From: (b)(6)
Sent: Monday, October 28, 2019 1:35 PM
To: (b)(6)
Subject: FW: Palo Verde NPP - Suspicious Activity Reports
Attachments: 2019 - Palo Verde, 2.pdf; 2019 - Palo Verde.pdf

Good afternoon.

I wanted to follow up with you to see whether there is any continued investigation into the two UAV overflight events at Palo Verde from earlier this month, or whether these have been closed "unresolved."

Thank you,

(b)(6)

From (b)(6)
Sent: Tuesday, October 01, 2019 2:03 PM
To: (b)(6)
Subject: Palo Verde NPP - Suspicious Activity Reports

SA (b)(6)

We have received two separate suspicious activity reports from Palo Verde Nuclear Power Plant regarding multiple UAVs flying over / around the facility overnight. The first report was from Sunday night, and the other report was from Monday night (see attached).

Site security was unable to observe any identifying markings on the UAVs themselves or locate the operator(s), so I do not know how much additional investigation can be undertaken. However, if you are able to get any additional information, please let me know so that I can update our records / database accordingly.

Thank you,

(b)(6)

Intelligence Specialist
Response Coordination Branch, Region IV
U.S. Nuclear Regulatory Commission
Tel: (b)(6)
(b)(6)

SID # SID-02998 Created by Thomas Kendzia on Sep 30, 2019 12:22:11 AM

General Information | Access Control | All Tabs

Last Comment

Thomas Kendzia [1823], Sep 30, 2019 1:28:36 AM, Draft:

Record Number	EN #	Incident Status
SID-02998	N/A	(•) Open ( ) Closed Resolved ( ) Closed Unresolved

General Information

Incident / Communication Document Date
Sep 29, 2019 20:50:00 MST(-0700)

Subject/Short Description
DRONE FLYOVER

Reporting Organization
Power Reactor - Operating

Site/Licensee
Palo Verde

Site/Licensee Name	State	Region	Timezone
Palo Verde	AZ	4	(GMT-7:00) Mountain Standard Time [US/Arizona]

Report Category
Drone

Non-Sensitive Attachments

(R) Sensitive Attachments
SID2998-01.01.WAV
SID2998-02.37.WAV
SID2998-12.46.WAV
SID2998-12.49.WAV
SID2998-12.55.WAV
SID2998-12.56.WAV

Document Links

External Links

External Reference Number

Vehicle(s) Involved (Query)

Person(s) Involved (Query)

Non Responsive Record

Incident Information

73.71 Report?
Yes No

37.57 Report?
Yes No

37.81 Report?
Yes No

Notification Date/Time/Timezone
Sep 29, 2019 23:47:00 CDT

(R) Caller Name	(R) Caller Title	Caller Affiliation	(R) Call Back Phone #
Daphne Rodriguez	Acting Security Section Chief	Palo Verde Security	623-393-1715

HOO/HERO
Thomas Kendzia

ILTAB Duty Officer
(b)(6)

(R) Detailed Description of Incident
Officer noticed several drones (5 or 6) flying over the site. The drones are circling the 3 unit site inside and outside the Protected Area. The drones have flashing red and white lights and are estimated to be 200 to 300 hundred feet above the site. It was reported the drones had spotlights on while approaching the site that they turned off when they entered the Security Owner Controlled Area. Drones were first noticed at 2050 MST and are still over the site as of 2147 MST. Security Posture was normal, which was changed to elevated when the drones were noticed. The Licensee notified one of the NRC resident inspectors.

Prepare to Redact

As of 0237 EST, no drones have been observed at the site since 2230 MST. Officers believe drones were over 2 feet in diameter.

Notified the R4DO (Gaddy) and ILTAB (b)(6).

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

Redacted Description of Incident
Officer noticed several drones (5 or 6) flying over the site. The drones are circling the 3 unit site inside and outside the Protected Area. The drones have flashing red and white lights and are estimated to be 200 to 300 hundred feet above the site. It was reported the drones had spotlights on while approaching the site that they turned off when they entered the Security Owner Controlled Area. Drones were first noticed at 2050 MST and are still over the site as of 2147 MST. Security Posture was normal, which was changed to elevated when the drones were noticed. The Licensee notified one of the NRC resident inspectors.

Redact Selected Text

As of 0237 EST, no drones have been observed at the site since 2230 MST. Officers believe drones were over 2 feet in diameter.

Notified the R4DO (Gaddy) and ILTAB (b)(6)

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

Updates / ILTAB Summary

Last Updated
Sep 30, 2019 0:22:11 CDT

Caller's Notification Information

(R) Name	(R) Organization	(R) Phone
Maricopa County Sheriff Office	LLEA	602-876-1011
Albuquerque FAA Office	FAA	505-856-4500
Phoenix FAA Office	FAA	602-306-2566
Heather Martin, Washington DC FAA Office	FAA	202-267-3333
Regional FBI Office	FBI	623-466-1999
DHS Office	DHS	202-282-8101

NRC's External Notifition Information

(R) = "Restricted Field" (not viewable by general users)

SID # SID-02999 Created by Bethany Cecere on Oct 1, 2019 12:09:22 PM

General Information | Access Control | All Tabs

Last Comment

Bethany Cecere [1705], Oct 1, 2019 12:27:32 PM, Draft:
* * * This event was originally entered as an update to SID-02998, but is administratively now a new event in the database. * * *

Record Number	EN #	Incident Status
SID-02999	N/A	(•) Open ( ) Closed Resolved ( ) Closed Unresolved

General Information

Incident / Communication Document Date
Sep 30, 2019 20:51:00 MST(-0700)

Subject/Short Description
DRONE FLYOVER

Reporting Organization
Power Reactor - Operating

Site/Licensee
Palo Verde

Site/Licensee Name	State	Region	Timezone
Palo Verde	AZ	4	(GMT-7:00) Mountain Standard Time [US/Arizona]

Report Category
Drone

Non-Sensitive Attachments

(R) Sensitive Attachments
Sid2998 20191001 0011.WAV
Sid2998 20191001 0100.WAV
Sid2998 20191001 0352.WAV

Document Links
SID # SID-02998 (ILTAB)

External Links

External Reference Number

Vehicle(s) Involved (Query)

Person(s) Involved (Query)

Incident Information

73.71 Report?
Yes No

37.57 Report?
Yes No

37.81 Report?
Yes No

Notification Date/Time/Timezone
Sep 30, 2019 23:13:00 CDT

(R) Caller Name	(R) Caller Title	Caller Affiliation	(R) Call Back Phone #
ISMAEL GARCIA	Security Supervisor	Palo Verde Security	623-393-1715

HOO/HERO
Donald Norwood

ILTAB Duty Officer
(b)(6)

(R) Detailed Description of Incident
* * * This event was originally entered as an update to SID-02998, but is administratively now a new event in the database. * * *

Prepare to Redact

Four (4) drones were observed flying beginning at 2051 MST and continuing through the time of this report (2113 MST). As occurred last night, the drones are flying in, through, and around the owner controlled area, the security owner controlled area, and the protected area. Also, as last night, the drones are described as large with red and white flashing lights. Spotlights have not been noted tonight.

The licensee has not changed their security posture. The licensee continues to monitor the drones.

As of 0355 EDT, no drones have been observed at the site since before 0020 MST. LLEA surveyed the area and were unable to locate drones on the ground or anyone controlling the drones.

The licensee notified FAA (both Phoenix and Albuquerque), FBI, DHS, and the Maricopa Sheriff's Office. The licensee notified the NRC Resident Inspector.

Notified R4DO (Proulx) and ILTAB (b)(6)

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

Redact Selected Text

Redacted Description of Incident
* * * This event was originally entered as an update to SID-02998, but is administratively now a new event in the database. * * *

Four (4) drones were observed flying beginning at 2051 MST and continuing through the time of this report (2113 MST). As occurred last night, the drones are flying in, through, and around the owner controlled area, the security owner controlled area, and the protected area. Also, as last night, the drones are described as large with red and white flashing lights. Spotlights have not been noted tonight.

The licensee has not changed their security posture. The licensee continues to monitor the drones.

As of 0355 EDT, no drones have been observed at the site since before 0020 MST. LLEA surveyed the area and were unable to locate drones on the ground or anyone controlling the drones.

The licensee notified FAA (both Phoenix and Albuquerque), FBI, DHS, and the Maricopa Sheriff's Office. The licensee notified the NRC Resident Inspector.

Notified R4DO (Proulx) and ILTAB (b)(6)

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

Updates / ILTAB Summary

Last Updated
Oct 1, 2019 12:09:22 CDT

Caller's Notification Information

(R) Name	(R) Organization	(R) Phone
Maricopa County Sheriff Office	LLEA	602-876-1011
Albuquerque FAA Office	FAA	505-856-4500
Phoenix FAA Office	FAA	602-306-2566
Heather Martin, Washington DC FAA Office	FAA	202-267-3333
Regional FBI Office	FBI	623-466-1999
DHS Office	DHS	202-282-8101

NRC's External Notifition Information

(R) = "Restricted Field" (not viewable by general users)

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:33 PM
To: (b)(6)
Cc: Pearson, Laura
Subject: FW: PVGS - UAV overflights (an update)

(b)(6)

See below for an update on the UAV overflights at Palo Verde. The licensee asked about the best way to report future overflight events, and I encouraged them to continue to route those through the HOO, rather than to me directly. I also used this opportunity to reinforce the value of suspicious activity reporting more broadly.

Just wanted to keep you in the loop. Have a nice afternoon.

(b)(6)

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:31 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Cc: Dixon, John <John.Dixon@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: PVGS - UAV overflights (an update)

Scott,

At the urging of John Dixon (thanks, John!), I just received a call from Sean Darnseif and Michael Casenza (?) from PVGS to update me on the activities their site is undertaking to attempt to identify the UAV operators from earlier this week.

According to our discussions just now, PVGS is working closely with their regulatory affairs staff, LLEA, DHS, FAA, and FBI to address the UAV overflights. Further, PVGS intends to deploy a counter-drone technology from Area Armor to attempt to identify the UAV operators. This technology apparently has a 13-mile radius and can determine the specific point from which the UAVs were launched so that LLEA / site security can locate the operator(s). I confirmed with the licensee that they have coordinated the use of this counter drone technology with FAA, and they informed me that this technology only locates the UAVs; it does not interfere with the flight pattern of those UAVs in any way. PVGS has also staffed an additional team on the backshift to help search for any potential operators should additional UAVs be observed later this week.

I have conveyed this information to my FBI counterpart with whom I have been coordinating this week for his awareness, and I have asked both PVGS and the FBI to keep me informed of any additional information they may receive during the course of this investigation. I will also share this information with ILTAB for their on-call duty officer's awareness.

Thank you,

(b)(6)

Intelligence Specialist
Response Coordination Branch, Region IV
U.S. Nuclear Regulatory Commission

Tel: (b)(6)
(b)(6)

From: Haire, Mark
Sent: Thursday, October 03, 2019 8:15 AM
To: (b)(6)
Subject: FW: PVGS - UAV overflights (an update)

FYI

Mark S. Haire
Chief, Response Coordination Branch
Nuclear Regulatory Commission, Region-IV
817-200-1223 office
(b)(6) *cell*

From: Holian, Brian
Sent: Thursday, October 03, 2019 5:35 AM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>; Rivers, Joseph <Joseph.Rivers@nrc.gov>; Helton, Shana <Shana.Helton@nrc.gov>; Bailey, Marissa <Marissa.Bailey@nrc.gov>
Cc: Thomas, Brian <Brian.Thomas@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Rivera, Alison <Alison.Rivera@nrc.gov>; Atack, Sabrina <Sabrina.Atack@nrc.gov>; Pearson, Laura <Laura.Pearson@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Thanks Scott and all ...

Good cautions Scott. Things we have thought of. (b)(5)
(b)(5)

NEI has a drone working group and we will bring these examples to them

(b)(5)

Thanks for your close coordination on these
Brian
Ps. We will get our updates talking points...

On: 03 October 2019 03:48,
"Morris, Scott" <Scott.Morris@nrc.gov> wrote:

(b)(5)

(b)(5)

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 6:25 PM -0500
To: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Atack, Sabrina" <Sabrina.Atack@nrc.gov>, "Pearson, Laura" <Laura.Pearson@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

PS-let's please not brief this out further until I get to Dan and we have a bit more info.

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 7:14 PM -0400
To: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Since drones are aircraft and they are not violating a law, what is the action that can be taken legally if they locate the operator?

Mark

-------- Original Message --------
From: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>
Date: Wed, October 02, 2019 6:55 PM -0400
To: "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Lombard, Mark" <Mark.Lombard@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Stone, Rebecca" <Rebecca.Stone@nrc.gov>, "Miller, Geoffrey" <Geoffrey.Miller@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Actually, the system they describe is not a counter-UAV technology. It is a detection system that could aid in the identification of the people flying the UAVs. However, at this time, the pilots are not violating ay laws or regulations by flying over the plant.

Joe

From: Helton, Shana <Shana.Helton@nrc.gov>
Sent: Wednesday, October 2, 2019 5:05 PM
To: Bailey, Marissa <Marissa.Bailey@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>; Holian, Brian <Brian.Holian@nrc.gov>
Cc: Thomas, Brian <Brian.Thomas@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Rivers, Joseph <Joseph.Rivers@nrc.gov>; Rivera, Alison <Alison.Rivera@nrc.gov>; Stone, Rebecca <Rebecca.Stone@nrc.gov>; Miller,

Geoffrey <Geoffrey.Miller@nrc.gov>
Subject: FYI: PVGS - UAV overflights (an update)

FYI, note the below re: licensee using counter-drone technology. (Thanks, Geoff, for passing this along.)

From: Miller, Geoffrey
Sent: Wednesday, October 02, 2019 5:03 PM
To: Helton, Shana <Shana.Helton@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>
Cc: Lantz, Ryan <Ryan.Lantz@nrc.gov>
Subject: FW: PVGS - UAV overflights (an update)

FYI – in case you hadn't heard through other channels.

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:31 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Cc: Dixon, John <John.Dixon@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: PVGS - UAV overflights (an update)

Scott,

At the urging of John Dixon (thanks, John!), I just received a call from Sean Darnseif and Michael Casenza (?) from PVGS to update me on the activities their site is undertaking to attempt to identify the UAV operators from earlier this week.

According to our discussions just now, PVGS is working closely with their regulatory affairs staff, LLEA, DHS, FAA, and FBI to address the UAV overflights. Further, PVGS intends to deploy a counter-drone technology from Area Armor to attempt to identify the UAV operators. This technology apparently has a 13-mile radius and can determine the specific point from which the UAVs were launched so that LLEA / site security can locate the operator(s). I confirmed with the licensee that they have coordinated the use of this counter drone technology with FAA, and they informed me that this technology only locates the UAVs; it does not interfere with the flight pattern of those UAVs in any way. PVGS has also staffed an additional team on the backshift to help search for any potential operators should additional UAVs be observed later this week.

I have conveyed this information to my FBI counterpart with whom I have been coordinating this week for his awareness, and I have asked both PVGS and the FBI to keep me informed of any additional information they may receive during the course of this investigation. I will also share this information with ILTAB for their on-call duty officer's awareness.

Thank you,

(b)(6)

Intelligence Specialist
Response Coordination Branch, Region IV
U.S. Nuclear Regulatory Commission
Tel: (b)(6)
(b)(6)

From: Dixon, John
Sent: Tuesday, October 01, 2019 9:02 AM
To: Peabody, Charley
Cc: Bywater, Russ; You, David
Subject: FW: SID Notice: 9/30/2019

This is getting serious attention now. Nothing required of us at this time.

John L. Dixon
Chief, Branch D
817-200-1574
(b)(6) *(c)*

From: (b)(6)
Sent: Tuesday, October 01, 2019 8:54 AM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>; Dixon, John <John.Dixon@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Subject: RE: SID Notice: 9/30/2019

Thanks, Scott.

As you may have already seen, there was a second overnight overflight incident last night, also involving multiple drones. I am contacting the FBI's WMD Coordinator to follow up with him on this second overflight incident, having already contacted them yesterday about the Sunday night incident.

And yes, I agree that both of these overflight incidents at Palo Verde meet several criteria that we have historically used in triaging UAV overflights as particularly worthy of follow-up (# of UAVs involved, time of day, length of overflight, maneuvers, etc.).

(b)(6)

From: Morris, Scott
Sent: Tuesday, October 01, 2019 8:51 AM
To: (b)(6) Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>; Dixon, John <John.Dixon@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Subject: FW: SID Notice: 9/30/2019

FYI

From: Holian, Brian
Sent: Monday, September 30, 2019 3:54 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Dorman, Dan <Dan.Dorman@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>
Subject: Re: SID Notice: 9/30/2019

Yes Scott. Agree

But we also had several high speed drones over Limerick that caused a VP to call about 8months ago.

We are tracking these. SIDS helps us track.

Dan - of note last week is that FERC in their recent rulemaking has a suspicious activity reporting requirement
Mark - Norm (OGC) took note of that also
Try to get more specifics - I don't think they asked us for comment on their rule
Brian

On: 30 September 2019 13:31,
"Morris, Scott" <Scott.Morris@nrc.gov> wrote:

This one was very unusual in my experience!!! 5 or 6 drones flying over the site for over 1 ½ hours? With lights off?

Officer noticed several drones (5 or 6) flying over the site. The drones are circling the 3 unit site inside and outside the Protected Area. The drones have flashing red and white lights and are estimated to be 200 to 300 hundred feet above the site. It was reported the drones had spotlights on while approaching the site that they turned off when they entered the Security Owner Controlled Area. Drones were first noticed at 2050 MST and are still over the site as of 2147 MST. Security Posture was normal, which was changed to elevated when the drones were noticed. The Licensee notified one of the NRC resident inspectors.

As of 0237 EST, no drones have been observed at the site since 2230 MST. Officers believe drones were over 2 feet in diameter.

From: Hoc, HOO X
Sent: Monday, September 30, 2019 2:22 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: SID Notice: 9/30/2019
Importance: High

~~FOR OFFICIAL USE ONLY - LIMITED DISTRIBUTION~~

SID#: SID-02998 ; Palo Verde ; Open

~~The following attached report may contain "law enforcement sensitive" information. Please do not relay this information to individuals who do not have a "need to know".~~

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151

From: Miller, Geoffrey
To: Morris, Scott; Shaffer, Mark
Cc: Lantz, Ryan
Subject: FW: SID Notice: 9/30/2019
Date: Tuesday, October 01, 2019 9:19:57 AM

(b)(6) might have a good point . . .

From: (b)(6)
Sent: Tuesday, October 1, 2019 9:58 AM
To: Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: FW: SID Notice: 9/30/2019

Geoff / Mark:

(b)(5)

Just my two cents worth of an observation. I'm off to a tabletop exercise.

(b)(6)

From: (b)(6)
Sent: Tuesday, October 01, 2019 8:54 AM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>; Dixon, John <John.Dixon@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Subject: RE: SID Notice: 9/30/2019

Thanks, Scott.

As you may have already seen, there was a second overnight overflight incident last night, also involving multiple drones. I am contacting the FBI's WMD Coordinator to follow up with him on this second overflight incident, having already contacted them yesterday about the Sunday night incident.

And yes, I agree that both of these overflight incidents at Palo Verde meet several criteria that we have historically used in triaging UAV overflights as particularly worthy of follow-up (# of UAVs involved, time of day, length of overflight, maneuvers, etc.).

(b)(6)

From: Morris, Scott
Sent: Tuesday, October 01, 2019 8:51 AM
To: (b)(6) Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>; Dixon, John <John.Dixon@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Subject: FW: SID Notice: 9/30/2019

FYI

From: Holian, Brian
Sent: Monday, September 30, 2019 3:54 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Dorman, Dan <Dan.Dorman@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>
Subject: Re: SID Notice: 9/30/2019

Yes Scott. Agree

But we also had several high speed drones over Limerick that caused a VP to call about 8months ago.

We are tracking these. SIDS helps us track.

Dan - of note last week is that FERC in their recent rulemaking has a suspicious activity reporting requirement
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Log Book Entry Report

10/16/2019 (00:00 ET) : TURNOVER

Non-Responsive Record

NEW TURNOVER ITEMS ON TOP (Keep for two weeks, then delete or move to appropriate section if needed.)

Non-Responsive Record

GENERAL TURNOVER NOTES:

- Until further notice, do not call the ILTAB duty officer from 10 pm until 6 am for drone flyovers of Palo Verde. Call ILTAB in the morning. This is specific to Palo Verde only. For all other licensed facilities, continue to follow HOO procedures until changes are made. (per Silas)

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

PROCEDURE CHANGES:

BRANCH CHIEF GENERAL NOTES, HINTS, AND TIPS:

Non-Responsive Record

UPCOMING CONFERENCE BRIDGE RESERVATIONS:

UPCOMING DRILLS AND EXERCISES:

Non-Responsive Record

Non-Responsive Record

Log Book Entry Report

10/23/2019 (00:00 ET) : TURNOVER

Non-Responsive Record

NEW TURNOVER ITEMS ON TOP (Keep for two weeks, then delete or move to appropriate section if needed.)

Non-Responsive Record

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Non-Responsive Record

Non-Responsive Record

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Non-Responsive Record

PROCEDURE CHANGES:

BRANCH CHIEF GENERAL NOTES, HINTS, AND TIPS:

Non-Responsive Record

UPCOMING CONFERENCE BRIDGE RESERVATIONS:

UPCOMING DRILLS AND EXERCISES:

Non-Responsive Record

Non-Responsive Record

Log Book Entry Report

10/24/2019 (00:00 ET) : TURNOVER

Non-Responsive Record

NEW TURNOVER ITEMS ON TOP (Keep for two weeks, then delete or move to appropriate section if needed.)

Non-Responsive Record

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Non-Responsive Record

Non-Responsive Record

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Non-Responsive Record

PROCEDURE CHANGES:

BRANCH CHIEF GENERAL NOTES, HINTS, AND TIPS:

Non-Responsive Record

UPCOMING CONFERENCE BRIDGE RESERVATIONS:

UPCOMING DRILLS AND EXERCISES:

Non-Responsive Record

Non-Responsive Record

Log Book Entry Report

10/29/2019 (00:00 ET) : TURNOVER

Non-Responsive Record

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Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

PROCEDURE CHANGES:

Non-Responsive Record

Non-Responsive Record

BRANCH CHIEF GENERAL NOTES, HINTS, AND TIPS:

Non-Responsive Record

UPCOMING CONFERENCE BRIDGE RESERVATIONS:

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Non-Responsive Record

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Log Book Entry Report

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Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

From: (b)(6)
To: Miller, Geoffrey; Haire, Mark
Subject: RE: SID Notice: 9/30/2019
Date: Tuesday, October 01, 2019 10:32:00 AM

Geoff,

I look forward to that discussion. I would love to have a better understanding of where we are going as an Agency on the topic of drones.

Safe travels back.
(b)(6)

From: Miller, Geoffrey
Sent: Tuesday, October 01, 2019 10:32 AM
To: (b)(6) Haire, Mark <Mark.Haire@nrc.gov>
Subject: RE: SID Notice: 9/30/2019

Excellent observation, (b)(6) – thank you for that! I just met with Shana Helton and Jeremy Bowen for a detailed discussion about drones, FERC, and where we are with reporting requirements. They also gave me a couple one-pagers they are developing. I'll stop by your office to give you a download after I get back tomorrow.

Thank you again,

Geoff

From: (b)(6)
Sent: Tuesday, October 1, 2019 9:58 AM
To: Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: FW: SID Notice: 9/30/2019

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And yes, I agree that both of these overflight incidents at Palo Verde meet several criteria that we have historically used in triaging UAV overflights as particularly worthy of follow-up (# of UAVs involved, time of day, length of overflight, maneuvers, etc.).

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Importance: High

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SID#: SID-02998 ; Palo Verde ; Open

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Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:19 PM
To: (b)(6)
Subject: RE: Palo Verde NPP - Suspicious Activity Reports

Good afternoon,

I just wanted to let you know, although you may already be aware, that the licensee intends to deploy a counter-drone technology from Area Armor to attempt to identify the UAV operators. This technology apparently has a 13 mile radius and can determine the specific point from which the UAVs were launched. They have also staffed an additional team on the backshift to help search for any potential operators should additional UAVs be sited later this week.

If you learn of any additional information related to the PVGS overflights, I would certainly appreciate it if you could pass it my way.

Thank you,

(b)(6)

From: (b)(6)
Sent: Tuesday, October 01, 2019 2:03 PM
To: (b)(6)
Subject: Palo Verde NPP - Suspicious Activity Reports

SA (b)(6)

We have received two separate suspicious activity reports from Palo Verde Nuclear Power Plant regarding multiple UAVs flying over / around the facility overnight. The first report was from Sunday night, and the other report was from Monday night (see attached).

Site security was unable to observe any identifying markings on the UAVs themselves or locate the operator(s), so I do not know how much additional investigation can be undertaken. However, if you are able to get any additional information, please let me know so that I can update our records / database accordingly.

Thank you,

(b)(6)

Intelligence Specialist
Response Coordination Branch, Region IV
U.S. Nuclear Regulatory Commission
Tel: (b)(6)
(b)(6)

From: (b)(6)
Sent: Tuesday, October 22, 2019 3:31 PM
To: Lanfear, Raymond
Subject: RE: Palo Verde Security Event. ~~*OUO*~~

Typically, yes. I just didn't know whether the topic of UAVs had come up during any of your more routine engagement with PVGS. I plan to reach out to the site security folks later this week to follow-up, but I didn't want to duplicate any efforts that may have already been undertaken.

Thanks.
(b)(6)

From: Lanfear, Raymond
Sent: Tuesday, October 22, 2019 3:29 PM
To: (b)(6)
Subject: RE: Palo Verde Security Event. ~~*OUO*~~

I do not know.

I thought the SID stood for itself. Should other UAV overflights occur, a new SID would capture it.

From: (b)(6)
Sent: Tuesday, October 22, 2019 3:25 PM
To: Lanfear, Raymond <Raymond.Lanfear@nrc.gov>
Subject: RE: Palo Verde Security Event. ~~*OUO*~~

Thanks for the update, Ray.

On a different topic, I assume, having seen no further SID reports on the topic, that there have been no additional UAV overflights of PV. Is that correct?

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

From: (b)(6)
Sent: Thursday, October 03, 2019 12:19 PM
To: Morris, Scott; Lantz, Ryan; Miller, Geoffrey; Vegel, Anton; Inverso, Tara
Cc: Dixon, John; Haire, Mark
Subject: RE: PVGS - UAV overflights (an update)

You're welcome.

One more update for general awareness:

The FBI's WMD Coordinator wrote back this morning and indicated that PVGS has begun the process of designating their airspace as restricted through the FAA, and that the effort was being led by DOE. He indicated that the FBI is working to "assist the DOE in this process."

(b)(6)

From: Morris, Scott
Sent: Thursday, October 03, 2019 12:17 PM
To: (b)(6) Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Cc: Dixon, John <John.Dixon@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: RE: PVGS - UAV overflights (an update)

THANKS (b)(6)

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:31 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Cc: Dixon, John <John.Dixon@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: PVGS - UAV overflights (an update)

Scott,

At the urging of John Dixon (thanks, John!), I just received a call from Sean Darnseif and Michael Casenza (?) from PVGS to update me on the activities their site is undertaking to attempt to identify the UAV operators from earlier this week.

According to our discussions just now, PVGS is working closely with their regulatory affairs staff, LLEA, DHS, FAA, and FBI to address the UAV overflights. Further, PVGS intends to deploy a counter-drone technology from Area Armor to attempt to identify the UAV operators. This technology apparently has a 13-mile radius and can determine the specific point from which the UAVs were launched so that LLEA / site security can locate the operator(s). I confirmed with the licensee that they have coordinated the use of this counter drone technology with FAA, and they informed me that this technology only locates the UAVs; it does not interfere with the flight pattern of those UAVs in any way. PVGS has also staffed an additional team on the backshift to help search for any potential operators should additional UAVs be observed later this week.

I have conveyed this information to my FBI counterpart with whom I have been coordinating this week for his awareness, and I have asked both PVGS and the FBI to keep me informed of any additional information they

may receive during the course of this investigation. I will also share this information with ILTAB for their on-call duty officer's awareness.

Thank you,

(b)(6)

Intelligence Specialist
Response Coordination Branch, Region IV
U.S. Nuclear Regulatory Commission
Tel: (b)(6)
(b)(6)

From: Morris, Scott
To: Miller, Geoffrey
Cc: Lantz, Ryan; Haire, Mark
Subject: RE: PVGS - UAV overflights (an update)
Date: Thursday, October 03, 2019 12:14:12 PM

That was my concern too.

From: Miller, Geoffrey
Sent: Thursday, October 03, 2019 6:40 AM
To: Morris, Scott <Scott.Morris@nrc.gov>
Cc: Lantz, Ryan <Ryan.Lantz@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: RE: PVGS - UAV overflights (an update)

(b)(5)

From: Morris, Scott
Sent: Wednesday, October 02, 2019 9:48 PM
To: Lombard, Mark <Mark.Lombard@nrc.gov>; Rivers, Joseph <Joseph.Rivers@nrc.gov>; Helton, Shana <Shana.Helton@nrc.gov>; Bailey, Marissa <Marissa.Bailey@nrc.gov>; Holian, Brian <Brian.Holian@nrc.gov>
Cc: Thomas, Brian <Brian.Thomas@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Rivera, Alison <Alison.Rivera@nrc.gov>; Atack, Sabrina <Sabrina.Atack@nrc.gov>; Pearson, Laura <Laura.Pearson@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

(b)(5)

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 6:25 PM -0500
To: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>, "Morris, Scott"

<Scott.Morris@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Atack, Sabrina" <Sabrina.Atack@nrc.gov>, "Pearson, Laura" <Laura.Pearson@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

PS-let's please not brief this out further until I get to Dan and we have a bit more info.

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 7:14 PM -0400
To: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Since drones are aircraft and they are not violating a law, what is the action that can be taken legally if they locate the operator?

Mark

-------- Original Message --------
From: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>
Date: Wed, October 02, 2019 6:55 PM -0400
To: "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Lombard, Mark" <Mark.Lombard@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Stone, Rebecca" <Rebecca.Stone@nrc.gov>, "Miller, Geoffrey" <Geoffrey.Miller@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Actually, the system they describe is not a counter-UAV technology. It is a detection system that could aid in the identification of the people flying the UAVs. However, at this time, the pilots are not violating ay laws or regulations by flying over the plant.

Joe

From: Helton, Shana <Shana.Helton@nrc.gov>
Sent: Wednesday, October 2, 2019 5:05 PM
To: Bailey, Marissa <Marissa.Bailey@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>; Holian, Brian <Brian.Holian@nrc.gov>
Cc: Thomas, Brian <Brian.Thomas@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Rivers, Joseph <Joseph.Rivers@nrc.gov>; Rivera, Alison <Alison.Rivera@nrc.gov>; Stone, Rebecca <Rebecca.Stone@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>

Subject: FYI: PVGS - UAV overflights (an update)

FYI, note the below re: licensee using counter-drone technology. (Thanks, Geoff, for passing this along.)

From: Miller, Geoffrey
Sent: Wednesday, October 02, 2019 5:03 PM
To: Helton, Shana <Shana.Helton@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>
Cc: Lantz, Ryan <Ryan.Lantz@nrc.gov>
Subject: FW: PVGS - UAV overflights (an update)

FYI – in case you hadn't heard through other channels.

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:31 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
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Thank you,

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From: Morris, Scott
Sent: Tuesday, October 1, 2019 9:51 AM
To: (b)(6) Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>; Dixon, John <John.Dixon@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Subject: FW: SID Notice: 9/30/2019

FYI

From: Holian, Brian
Sent: Monday, September 30, 2019 3:54 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Dorman, Dan <Dan.Dorman@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>
Subject: Re: SID Notice: 9/30/2019

Yes Scott. Agree

But we also had several high speed drones over Limerick that caused a VP to call about 8months ago.

We are tracking these. SIDS helps us track.

Dan - of note last week is that FERC in their recent rulemaking has a suspicious activity reporting requirement
Mark - Norm (OGC) took note of that also
Try to get more specifics - I don't think they asked us for comment on their rule
Brian

On: 30 September 2019 13:31,
"Morris, Scott" <Scott.Morris@nrc.gov> wrote:

This one was very unusual in my experience!!! 5 or 6 drones flying over the site for over 1 ½ hours? With lights off?

Officer noticed several drones (5 or 6) flying over the site. The drones are circling the 3

unit site inside and outside the Protected Area. The drones have flashing red and white lights and are estimated to be 200 to 300 hundred feet above the site. It was reported the drones had spotlights on while approaching the site that they turned off when they entered the Security Owner Controlled Area. Drones were first noticed at 2050 MST and are still over the site as of 2147 MST. Security Posture was normal, which was changed to elevated when the drones were noticed. The Licensee notified one of the NRC resident inspectors.

As of 0237 EST, no drones have been observed at the site since 2230 MST. Officers believe drones were over 2 feet in diameter.

From: Hoc, HOO X
Sent: Monday, September 30, 2019 2:22 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: SID Notice: 9/30/2019
Importance: High

~~FOR OFFICIAL USE ONLY~~ - LIMITED DISTRIBUTION

SID#: SID-02998 ; Palo Verde ; Open

~~The following attached report may contain "law enforcement sensitive" information. Please do not relay this information to individuals who do not have a "need to know".~~

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

From: Inverso, Tara
Sent: Friday, October 4, 2019 10:08 AM
To: R4DRP-DIV; R4DRS-DIV; R4ACES; Morris, Scott; Shaffer, Mark; Murphy, Jerome; Crockett, David; Herrera, Jeffrey; (b)(6) Haire, Mark
Subject: Reactor Team Successes!!

REGION IV VISION: *"Together, we work to foster a culture of high trust that maximizes professional growth and inspires leadership at all levels."*

Hi Region IV Reactor Folks,

Non-Responsive Record

Thanks for everything you do and have a great weekend,
Tara

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Non-Responsive Record

Thank you to the Palo Verde resident staff for keeping the region informed on multiple drone flights over the protected area that involved multiple agency interactions. Thanks also to (b)(6) for her efforts on this issue!

Non-Responsive Record

SID # SID-02998 Created by Thomas Kendzia on Sep 30, 2019 12:22:11 AM

General Information | Access Control | All Tabs

Last Comment

Leah Salisbury [1715], Nov 25, 2019 11:11:45 AM, ILTAB:

Record Number	EN #	Incident Status
SID-02998	N/A	○ Open ○ Closed Resolved ◉ Closed Unresolved

General Information

Incident / Communication Document Date
Sep 29, 2019 20:50:00 MST(-0700)

Subject/Short Description
DRONE FLYOVER

Reporting Organization
Power Reactor - Operating

Site/Licensee Name	State	Region	Timezone
Palo Verde	AZ	4	(GMT-7:00) Mountain Standard Time [US/Arizona]

Report Category
Drone

Clear Personally Identifiable Info

Non-Sensitive Attachments

(R) Sensitive Attachments

SID2998-01.01.WAV
SID2998-02.37.WAV
SID2998-12.46.WAV
SID2998-12.49.WAV
SID2998-12.55.WAV
SID2998-12.56.WAV

Document Links
SID # SID-02999 (Released All)

External Links

External Reference Number

Vehicle(s) Involved (Query)

Person(s) Involved (Query)

Incident Information

73.71 Report? Yes No
37.57 Report? Yes No
37.81 Report? Yes No

Notification Date/Time/Timezone
Sep 29, 2019 23:47:00 CDT

(R) Caller Name	(R) Caller Title	Caller Affiliation	(R) Call Back Phone #
Daphne Rodriguez	Acting Security Section Chief	Palo Verde Security	623-393-1715

HOO/HERO
Thomas Kendzia

ILTAB Duty Officer
(b)(6)

(R) Detailed Description of Incident
Officer noticed several drones (5 or 6) flying over the site. The drones are circling the 3 unit site inside and outside the Protected Area. The drones have flashing red and white lights and are estimated to be 200 to 300 hundred feet above the site. It was reported the drones had spotlights on while approaching the site that they turned off when they entered the Security Owner Controlled Area. Drones were first noticed at 2050 MST and are still over the site as of 2147 MST. Security Posture was normal, which was changed to elevated when the drones were noticed. The Licensee notified one of the NRC resident inspectors.

As of 0237 EST, no drones have been observed at the site since 2230 MST. Officers believe drones were over 2 feet in diameter.

Notified the R4DO (Gaddy) and ILTAB (b)(6)

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

Redacted Description of Incident
Officer noticed several drones (5 or 6) flying over the site. The drones are circling the 3 unit site inside and outside the Protected Area. The drones have flashing red and white lights and are estimated to be 200 to 300 hundred feet above the site. It was reported the drones had spotlights on while approaching the site that they turned off when they entered the Security Owner Controlled Area. Drones were first noticed at 2050 MST and are still over the site as of 2147 MST. Security Posture was normal, which was changed to elevated when the drones were noticed. The Licensee notified one of the NRC resident inspectors.

As of 0237 EST, no drones have been observed at the site since 2230 MST. Officers believe drones were over 2 feet in diameter.

Notified the R4DO (Gaddy) and ILTAB (b)(6)

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

Updates / ILTAB Summary
ILTAT (Smith) left a voicemail for the FBI's WMD Coordinator on 9/30/2019, and was informed on 10/1/2019 that the FBI is actively coordinating with the site, LLEA, and the FAA. ILTAT followed up with the WMD Coordinator on 10/28/2019. Due to a lack of identifying features on the drone and the absence of an identified operator, this incident is being closed "unresolved."

Last Updated
Nov 25, 2019 11:11:00 CST

Caller's Notification Information

(R) Name	(R) Organization	(R) Phone
Maricopa County Sheriff Office	LLEA	602-876-1011
Albuquerque FAA Office	FAA	505-856-4500
Phoenix FAA Office	FAA	602-306-2566
Heather Martin, Washington DC FAA Office	FAA	202-267-3333
Regional FBI Office	FBI	623-466-1999
DHS Office	DHS	202-282-8101

NRC's External Notifition Information

(R) = "Restricted Field" (not viewable by general users)

SID # SID-02999 Created by Bethany Cecere on Oct 1, 2019 12:09:22 PM

General Information | Access Control | All Tabs

Last Comment

Leah Salisbury [1715], Nov 25, 2019 11:11:19 AM, ILTAB:

Record Number	EN #	Incident Status
SID-02999	N/A	○ Open ○ Closed Resolved ◉ Closed Unresolved

General Information

Incident / Communication Document Date
Sep 30, 2019 20:51:00 MST(-0700)

Subject/Short Description
DRONE FLYOVER

Reporting Organization
Power Reactor - Operating

Site/Licensee Name	State	Region	Timezone
Palo Verde	AZ	4	(GMT-7:00) Mountain Standard Time [US/Arizona]

Report Category
Drone

Clear Personally Identifiable Info

Non-Sensitive Attachments

(R) Sensitive Attachments

Sid2998 20191001 0011.WAV
Sid2998 20191001 0100.WAV
Sid2998 20191001 0352.WAV

Document Links
SID # SID-02998 (Released All)

External Links

External Reference Number

Vehicle(s) Involved (Query)

Person(s) Involved (Query)

Incident Information

Non Responsive Record

73.71 Report?
Yes No

37.57 Report?
Yes No

37.81 Report?
Yes No

Notification Date/Time/Timezone
Sep 30, 2019 23:13:00 CDT

(R) Caller Name	(R) Caller Title	Caller Affiliation	(R) Call Back Phone #
ISMAEL GARCIA	Security Supervisor	Palo Verde Security	623-393-1715

HOO/HERO
Donald Norwood

ILTAB Duty Officer
(b)(6)

(R) Detailed Description of Incident
* * * This event was originally entered as an update to SID-02998, but is administratively now a new event in the database. * * *

Four (4) drones were observed flying beginning at 2051 MST and continuing through the time of this report (2113 MST). As occurred last night, the drones are flying in, through, and around the owner controlled area, the security owner controlled area, and the protected area. Also, as last night, the drones are described as large with red and white flashing lights. Spotlights have not been noted tonight.

The licensee has not changed their security posture. The licensee continues to monitor the drones.

As of 0355 EDT, no drones have been observed at the site since before 0020 MST. LLEA surveyed the area and were unable to locate drones on the ground or anyone controlling the drones.

The licensee notified FAA (both Phoenix and Albuquerque), FBI, DHS, and the Maricopa Sheriff's Office. The licensee notified the NRC Resident Inspector.

Notified R4DO (Proulx) and ILTAB (b)(6)

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

Redacted Description of Incident
* * * This event was originally entered as an update to SID-02998, but is administratively now a new event in the database. * * *

Four (4) drones were observed flying beginning at 2051 MST and continuing through the time of this report (2113 MST). As occurred last night, the drones are flying in, through, and around the owner controlled area, the security owner controlled area, and the protected area. Also, as last night, the drones are described as large with red and white flashing lights. Spotlights have not been noted tonight.

The licensee has not changed their security posture. The licensee continues to monitor the drones.

As of 0355 EDT, no drones have been observed at the site since before 0020 MST. LLEA surveyed the area and were unable to locate drones on the ground or anyone controlling the drones.

The licensee notified FAA (both Phoenix and Albuquerque), FBI, DHS, and the Maricopa Sheriff's Office. The licensee notified the NRC Resident Inspector.

Notified R4DO (Proulx) and ILTAB (b)(6).

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

Updates / ILTAB Summary
ILTAT (Smith) contacted the FBI's WMD Coordinator on 10/1/2019, and was informed that the FBI is actively coordinating a response with the site, LLEA, and the FAA. ILTAT followed up again on 10/28/2019. Due to a lack of identifying features on the drone and the absence of an identified operator, this incident is being closed "unresolved."

Last Updated
Nov 25, 2019 11:10:00 CST

Caller's Notification Information

(R) Name	(R) Organization	(R) Phone
Maricopa County Sheriff Office	LLEA	602-876-1011
Albuquerque FAA Office	FAA	505-856-4500
Phoenix FAA Office	FAA	602-306-2566
Heather Martin, Washington DC FAA Office	FAA	202-267-3333
Regional FBI Office	FBI	623-466-1999
DHS Office	DHS	202-282-8101

NRC's External Notifition Information

(R) = "Restricted Field" (not viewable by general users)

From:	You, David
To:	Bywater, Russ; Peabody, Charley; Dixon, John; Lingam, Siva; Braisted, Jonathan
Cc:	You, David
Subject:	Palo Verde Plant Status: Wednesday October 2, 2019
Date:	Wednesday, October 02, 2019 10:08:35 AM

Common Unit
- None

Palo Verde Unit 1
Mode/Power Level/Planned Power Changes: Mode 1 / 100% **Risk: Green**

TS Action Statements:
- 3.3.10, Condition A: 9/28 @0018, 'B' QSPDS failed due to loss of communication. Restart of the system did not solve the issue. I&C continues troubleshooting.

Events/Conditions of Interest/Major Activities:
- None

Palo Verde Unit 2
Mode/Power Level/Planned Power Changes: Mode: 1 / 100% **Risk: Green**

TS Action Statements:
- None

Events/Conditions of Interest/Major Activities:
- Receiving intermittent CPC/CEAC trouble alarm. I&C investigating
- Planned "C" reactor trip switchgear breaker changeout (18 month periodicity)

Palo Verde Unit 3
Mode/Power Level/Planned Power Changes: Mode: 1 / 98% **Risk: Green**

TS Action Statements:
- None

Events/Conditions of Interest/Major Activities:
- The outage begins Friday night, 10/4-5.
- Control room received DAFAS B trip alarm last night. Currently both A and B DAFAS is tripped. FIN is troubleshooting.
- Possible plan to recirculate the RWT using the A HPSI pump. This will place the HPSI pump in an inoperable status (~2 days). Operators are staging FLEX equipment for risk mitigation.

Other
- No drone activity reported last night.

From:	Lingam, Siva
To:	Pascarelli, Robert
Subject:	FW: Palo Verde Plant Status: Tuesday October 1, 2019
Date:	Tuesday, October 01, 2019 10:49:00 AM
Attachments:	PVNGS security report.pdf

FYI (security-related for Drone flying near the plant).

From: You, David
Sent: Tuesday, October 01, 2019 10:22 AM
To: Bywater, Russ <Russell.Bywater@nrc.gov>; Peabody, Charley <Charles.Peabody@nrc.gov>; Dixon, John <John.Dixon@nrc.gov>; Lingam, Siva <Siva.Lingam@nrc.gov>; Braisted, Jonathan <Jonathan.Braisted@nrc.gov>
Cc: You, David <David.You@nrc.gov>
Subject: Palo Verde Plant Status: Tuesday October 1, 2019

Common Unit
- None

Palo Verde Unit 1
Mode/Power Level/Planned Power Changes: Mode 1 / 100% **Risk: Green**

TS Action Statements:
- 3.3.10, Condition A: 9/28 @0018, 'B' QSPDS failed due to loss of communication. Restart of the system did not solve the issue. I&C continues troubleshooting.

Events/Conditions of Interest/Major Activities:
- EDG A surveillance run in progress. Will be completed this morning.
- "A" Control oil pump planned maintenance.

Palo Verde Unit 2
Mode/Power Level/Planned Power Changes: Mode: 1 / 100% **Risk: Green**

TS Action Statements:
- None

Events/Conditions of Interest/Major Activities:
- Planned work on West Wing 2. As a precaution the control room has placed loads on the auxiliary transformer (SO1, 3, 5 buses).

Palo Verde Unit 3
Mode/Power Level/Planned Power Changes: Mode: 1 / 98% **Risk: Green**

TS Action Statements:
- None

Events/Conditions of Interest/Major Activities:
- The outage begins Friday night, 10/4-5.
- Planned excore linear monthly calibration.

Other

More drone activity spotted last night.

Palo Verde
Nuclear Generating Station

PVNGS Nuclear Security
Security Incident Form

Incident Type	IR #
Unauthorized unmanned aerial vehicles activity detected	N-9-19-007

Person Reporting Incident	Department	Phone Ext.
(b)(6)	Security Department	82-2006

Date of Incident	Time of Incident	PVAR #	Location
9/30/19	8:51 PM	19-14124	OCA/SOCA/PA

Date Reported to Security	Time Reported to Security	Injury Involved	Medical Attention
9/30/19	8:51 PM	☐ Yes ☒ No	☐ Yes ☒ No

Suspect(s) or other Personnel Involved	Fire Protection Notified
N/A	☐ Yes ☒ No

MCSO Contacted	MCSO Report #	Time MCSO Contacted	Deputy Name(s)
☒ Yes ☐ No	19030260	2105 hours	Brian Tapley

Type of Property/Equipment Involved	Serial Number	Estimated Value
Unmanned Aerial Vehicles	N/A	N/A

Fitness For Duty Contacted	Person Contacted	Date	Time
☐ Yes ☒ No	☐ Yes ☒ No		

Reporting Officer (Print)	Reporting Officer (Signature)	Security Supervisor (Signature)
(b)(6)	(b)(6)	

Report Details

On 9/30/19 at approximately 2051 hours, it was reported by a Security Team Leader that Unmanned Aerial Vehicles (UAVs) were approaching the plant from the east (true east). The hours of darkness made it difficult to estimate the altitude at which the UAVs were flying. Two Security Team Leaders (b)(4) (b)(4) The UAVs appeared to have been launching from behind the mountain range at the intersection of Southern Ave and 361 Ave just east of the plant. Four UAVs were confirmed to have been spotted at one time flying northwest over Unit 1 and returning northeast over Unit 3. LEA (MCSO) deputies were dispatched to the area of the mountain range with a Security Unit Team Leader in an attempt to determine the location of the UAV operators but were unsuccessful. No other UAVs were observed after approximately 2300 hours.

These UAVs are believed to have been the same UAVs that flew over plant the night before on 9/29/19 at approximately 2020 hours (refer to CR# 14095 for details).

All required notifications were made IAW 20DP-0SK49 Security Integrated Response Plan and additional Security contingency measure were implemented IAW 21SP-0SK11 Security Contingencies. No additional compensatory measures are required IAW 20SP-0SK08 Compensatory Measures for Loss of Security Equipment/Effectiveness.

From:	Carneal, Jason
To:	Akhavannik, Huda; Benney, Brian; Betts, Ikeda; Carneal, Jason; Issa, Alfred; King, Mark; Mitchell, Recasha; Nolan, Catherine; Pannier, Stephen; Ramadan, Liliana; Regner, Lisa; Sigmon, Rebecca; Thomas, Eric; Thompson, John; Winslow, Julie
Subject:	FW: Drones one-pager
Date:	Friday, December 27, 2019 10:16:22 AM
Attachments:	UAV Oct2019short.docx

Note: The attached one-pager concerns drones generally (and not at Palo Verde) and is considered a non-responsive record.

FYI – attached is the one-pager that NSIR produced for OPA on drones. It came up during the OpE brief today when we discussed the Palo Verde drone / South Texas robocall.

From: Felts, Russell
Sent: Friday, December 27, 2019 10:03 AM
To: Carneal, Jason <Jason.Carneal@nrc.gov>
Subject: FW: Drones one-pager

From: Burnell, Scott
Sent: Monday, December 23, 2019 9:49 AM
To: Gavrilas, Mirela <Mirela.Gavrilas@nrc.gov>; Taylor, Robert <Robert.Taylor@nrc.gov>; Veil, Andrea <andrea.veil@nrc.gov>; Felts, Russell <Russell.Felts@nrc.gov>; Erlanger, Craig <Craig.Erlanger@nrc.gov>
Subject: Drones one-pager

Hello everyone;

Per Mirela's request, this is the current OPA guidance on drones. Thanks.

Scott

Non-Responsive Record

From:	Lombard, Mark
To:	Helton, Shana; Bowen, Jeremy; Bailey, Marissa; Atack, Sabrina; Thomas, Brian
Subject:	RE: Fwd: Re: PVGS - UAV overflights (an update)
Date:	Thursday, October 3, 2019 12:55:28 PM
Attachments:	image001.jpg

Also fyi. The HOOs verified no flyovers last night.

From: Lombard, Mark
Sent: Thursday, October 3, 2019 5:26 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: RE: Fwd: Re: PVGS - UAV overflights (an update)
Thanks Ossy. I appreciate it!

-------- Original Message --------
From: "Hoc, HOO X" <HOO.Hoc@nrc.gov>
Date: Thu, October 03, 2019 5:16 AM -0400
To: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Subject: RE: Fwd: Re: PVGS - UAV overflights (an update)

Caty was the one searching yesterday and may have additional info, but I found this info on the FAA website:

Security Sensitive Airspace Restrictions

Drones are prohibited from flying over designated national security sensitive facilities. Operations are prohibited from the ground up to 400 feet above ground level, and apply to all types and purposes of UAS flight operations. Examples of these locations are:

- Military bases designated as Department of Defense facilities
- National landmarks – Statue of Liberty, Hoover Dam, Mt. Rushmore
- Certain critical infrastructure, such as nuclear power plants

-Ossy
Headquarters Operations Officer
U. S. Nuclear Regulatory Commission
phone: 301-816-5100
fax: 301-816-5151
hoo.hoc@nrc.gov
secure: hoo1@nrc.sgov.gov

color NRC seal

From: Lombard, Mark
Sent: Thursday, October 03, 2019 4:58 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: RE: Fwd: Re: PVGS - UAV overflights (an update)
Thanks. If you have that reference I need it this morning if possible. And is it AZ only or US wide?

-------- Original Message --------

From: "Hoc, HOO X" <HOO.Hoc@nrc.gov>
Date: Thu, October 03, 2019 4:03 AM -0400
To: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Subject: RE: Fwd: Re: PVGS - UAV overflights (an update)

We received your email but have not received anything from Palo Verde.
By the way, one of the other HOOs found a reference stating that it is illegal to fly over a nuclear power plant. They will be in at noon and could follow up with what they found.

Headquarters Operations Officer
U. S. Nuclear Regulatory Commission
phone: 301-816-5100
fax: 301-816-5151
hoo.hoc@nrc.gov
secure: hoo1@nrc.sgov.gov

color NRC seal

From: Lombard, Mark
Sent: Thursday, October 03, 2019 3:47 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: Re: Fwd: Re: PVGS - UAV overflights (an update)
Just checking to see if you all got my email.

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 7:19 PM -0400
To: "Hoc, HOO X" <HOO.Hoc@nrc.gov>
CC: "Holian, Brian" <Brian.Holian@nrc.gov>
Subject: Fwd: Re: PVGS - UAV overflights (an update)

Please let me know if we we get a follow up SID on this as soon as it comes in please. My ringer is way up in case it comes in late tonight.

Thank you,

Mark

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 7:14 PM -0400
To: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Since drones are aircraft and they are not violating a law, what is the action that can be taken legally if they locate the operator?

Mark

-------- Original Message --------
From: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>
Date: Wed, October 02, 2019 6:55 PM -0400
To: "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Lombard, Mark" <Mark.Lombard@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Stone, Rebecca" <Rebecca.Stone@nrc.gov>, "Miller, Geoffrey" <Geoffrey.Miller@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Actually, the system they describe is not a counter-UAV technology. It is a detection system that could aid in the identification of the people flying the UAVs. However, at this time, the pilots are not violating ay laws or regulations by flying over the plant.
Joe

From: Helton, Shana <Shana.Helton@nrc.gov>
Sent: Wednesday, October 2, 2019 5:05 PM
To: Bailey, Marissa <Marissa.Bailey@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>; Holian, Brian <Brian.Holian@nrc.gov>
Cc: Thomas, Brian <Brian.Thomas@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Rivers, Joseph <Joseph.Rivers@nrc.gov>; Rivera, Alison <Alison.Rivera@nrc.gov>; Stone, Rebecca <Rebecca.Stone@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>
Subject: FYI: PVGS - UAV overflights (an update)
FYI, note the below re: licensee using counter-drone technology. (Thanks, Geoff, for passing this along.)

From: Miller, Geoffrey
Sent: Wednesday, October 02, 2019 5:03 PM
To: Helton, Shana <Shana.Helton@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>
Cc: Lantz, Ryan <Ryan.Lantz@nrc.gov>
Subject: FW: PVGS - UAV overflights (an update)
FYI – in case you hadn't heard through other channels.

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:31 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Cc: Dixon, John <John.Dixon@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: PVGS - UAV overflights (an update)
Scott,
At the urging of John Dixon (thanks, John!), I just received a call from Sean Darnseif and Michael Casenza (?) from PVGS to update me on the activities their site is undertaking to attempt to identify the UAV operators from earlier this week.

According to our discussions just now, PVGS is working closely with their regulatory affairs staff, LLEA, DHS, FAA, and FBI to address the UAV overflights. Further, PVGS intends to deploy a counter-drone technology from Area Armor to attempt to identify the UAV operators. This technology apparently has a 13-mile radius and can determine the specific point from which the UAVs were launched so that LLEA / site security can locate the operator(s). I confirmed with the licensee that they have coordinated the use of this counter drone technology with FAA, and they informed me that this technology only locates the UAVs; it does not interfere with the flight pattern of those UAVs in any way. PVGS has also staffed an additional team on the backshift to help search for any potential operators should additional UAVs be observed later this week.
I have conveyed this information to my FBI counterpart with whom I have been coordinating this week for his awareness, and I have asked both PVGS and the FBI to keep me informed of any additional information they may receive during the course of this investigation. I will also share this information with ILTAB for their on-call duty officer's awareness.
Thank you,

(b)(6)
Intelligence Specialist
Response Coordination Branch, Region IV
U.S. Nuclear Regulatory Commission
Tel: (b)(6)
(b)(6)

-------- Original Message --------
From: "Hoc, HOO X" <HOO.Hoc@nrc.gov>
Date: Thu, October 03, 2019 4:03 AM -0400
To: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Subject: RE: Fwd: Re: PVGS - UAV overflights (an update)

We received your email but have not received anything from Palo Verde.
By the way, one of the other HOOs found a reference stating that it is illegal to fly over a nuclear power plant. They will be in at noon and could follow up with what they found.

Headquarters Operations Officer
U. S. Nuclear Regulatory Commission
phone: 301-816-5100
fax: 301-816-5151
hoo.hoc@nrc.gov
secure: hoo1@nrc.sgov.gov

color NRC seal

From: Lombard, Mark
Sent: Thursday, October 03, 2019 3:47 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: Re: Fwd: Re: PVGS - UAV overflights (an update)
Just checking to see if you all got my email.

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 7:19 PM -0400
To: "Hoc, HOO X" <HOO.Hoc@nrc.gov>
CC: "Holian, Brian" <Brian.Holian@nrc.gov>
Subject: Fwd: Re: PVGS - UAV overflights (an update)

Please let me know if we we get a follow up SID on this as soon as it comes in please. My ringer is way up in case it comes in late tonight.

Thank you,

Mark

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 7:14 PM -0400
To: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Since drones are aircraft and they are not violating a law, what is the action that can be taken legally if they locate the operator?

Mark

-------- Original Message --------
From: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>
Date: Wed, October 02, 2019 6:55 PM -0400
To: "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Lombard, Mark" <Mark.Lombard@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Stone, Rebecca" <Rebecca.Stone@nrc.gov>, "Miller, Geoffrey" <Geoffrey.Miller@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Actually, the system they describe is not a counter-UAV technology. It is a detection system that could aid in the identification of the people flying the UAVs. However, at this time, the pilots are not violating ay laws or regulations by flying over the plant.
Joe

From: Helton, Shana <Shana.Helton@nrc.gov>
Sent: Wednesday, October 2, 2019 5:05 PM

To: Bailey, Marissa <Marissa.Bailey@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>; Holian, Brian <Brian.Holian@nrc.gov>
Cc: Thomas, Brian <Brian.Thomas@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Rivers, Joseph <Joseph.Rivers@nrc.gov>; Rivera, Alison <Alison.Rivera@nrc.gov>; Stone, Rebecca <Rebecca.Stone@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>
Subject: FYI: PVGS - UAV overflights (an update)

FYI, note the below re: licensee using counter-drone technology. (Thanks, Geoff, for passing this along.)

From: Miller, Geoffrey
Sent: Wednesday, October 02, 2019 5:03 PM
To: Helton, Shana <Shana.Helton@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>
Cc: Lantz, Ryan <Ryan.Lantz@nrc.gov>
Subject: FW: PVGS - UAV overflights (an update)

FYI – in case you hadn't heard through other channels.

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:31 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Cc: Dixon, John <John.Dixon@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: PVGS - UAV overflights (an update)

Scott,

At the urging of John Dixon (thanks, John!), I just received a call from Sean Darnseif and Michael Casenza (?) from PVGS to update me on the activities their site is undertaking to attempt to identify the UAV operators from earlier this week.

According to our discussions just now, PVGS is working closely with their regulatory affairs staff, LLEA, DHS, FAA, and FBI to address the UAV overflights. Further, PVGS intends to deploy a counter-drone technology from Area Armor to attempt to identify the UAV operators. This technology apparently has a 13-mile radius and can determine the specific point from which the UAVs were launched so that LLEA / site security can locate the operator(s). I confirmed with the licensee that they have coordinated the use of this counter drone technology with FAA, and they informed me that this technology only locates the UAVs; it does not interfere with the flight pattern of those UAVs in any way. PVGS has also staffed an additional team on the backshift to help search for any potential operators should additional UAVs be observed later this week.

I have conveyed this information to my FBI counterpart with whom I have been coordinating this week for his awareness, and I have asked both PVGS and the FBI to keep me informed of any additional information they may receive during the course of this investigation. I will also share this information with ILTAB for their on-call duty officer's awareness.

Thank you,

(b)(6)
Intelligence Specialist
Response Coordination Branch, Region IV
U.S. Nuclear Regulatory Commission
Tel: (b)(6)

(b)(6)

From: Lombard, Mark
To: Lombard, Mark
Subject: NSIR update
Date: Friday, October 4, 2019 5:11:33 PM
Attachments: UAV One-Pager.docx

A few items this wonderful Friday afternoon:

- This week has been Drone-a-palooza for ssure. With the two drone swarm flyovers at PVNGS early in the week getting a lot of attention in the agency and outside (e.g., folks who work in the EEOB), we learned a lot and briefed a lot. And our UAV/drone Commission paper should go up to them next week. See the attached one (two really) pager we put together. It is intended for internal and external stakeholders. DOE is working closely with FAA to designate areas over NPPs are no-fly zones and we are working to communicate to licensees what that means. At this time, we are not planning to impose new requierments on licensees, but the landscape is dynamic and changing. May also be an invite ffor me to travel downtown for a limited ateendance NSC/CISR meeting to discuss.
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-

Have an awesome weekend!
mark

NRC's Ongoing Assessment of Unmanned Aerial Vehicles

Key Messages:

- Non-Responsive Record
- Non-Responsive Record
- Non-Responsive Record
- Non-Responsive Record

Facts:

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  - Non-Responsive Record
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- Non-Responsive Record
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Updated October 4, 2019

- Non-Responsive Record
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    - As an example, the NRC received a report of recent suspicious UAV activity from a nuclear power plant licensee. The licensee has kept the NRC informed of their interaction with law enforcement and the FAA, along with their planned actions.
- Non-Responsive Record
- Non-Responsive Record
    - Non-Responsive Record
    - Non-Responsive Record

From: Bowen, Jeremy
To: Helton, Shana; Thomas, Brian; Rivera, Alison; Rivers, Joseph; Stone, Rebecca
Subject: FYI - Drones Stakeholder Engagement Document
Date: Wednesday, October 23, 2019 8:03:52 AM
Attachments: UAV One-Pager.docx

Same attachment on pgs. 65

FYI,

For your records, attached is the final version of the document that was created to support external stakeholder engagement related to drones. It was shared with the regional DRS Directors & Deputies, NRR, OPA, OCA, OEDO, and the Commission. I believe Mark also shared it with DHS and DOE.

Jeremy

Non-Responsive Record

From: Hoc, HOO X <HOO.Hoc@nrc.gov>
Sent: Friday, October 4, 2019 7:27 AM
To: Lombard, Mark <Mark.Lombard@nrc.gov>
Cc: (b)(6) Pearson, Laura <Laura.Pearson@nrc.gov>
Subject: RE: SID Notice: 10/3/2019 * * * ~~OFFICIAL USE ONLY - SECURITY RELATED INFORMATION * * *~~

In PWS we've identified 42 drone SIDs in the past 3 years (57 SIDs since 12/27/14), but we are cc'ing ILTAB duty officer and BC to give you an official answer since they track these events.

Headquarters Operations Officer
U. S. Nuclear Regulatory Commission
phone: 301-816-5100
fax: 301-816-5151
hoo.hoc@nrc.gov
secure: hoo1@nrc.sgov.gov

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

From: Lombard, Mark
Sent: Friday, October 04, 2019 7:05 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: Re: SID Notice: 10/3/2019 * * * ~~OFFICIAL USE ONLY - SECURITY RELATED INFORMATION * * *~~

Good morning. Can you all easily find out how many drone SIDs we have had over the last 3 years?

-------- Original Message --------
From: "Hoc, HOO X" <HOO.Hoc@nrc.gov>
Date: Thu, October 03, 2019 10:12 PM -0400
To: "Hoc, HOO X" <HOO.Hoc@nrc.gov>
Subject: SID Notice: 10/3/2019 * * * ~~OFFICIAL USE ONLY - SECURITY RELATED INFORMATION~~ * * *

~~FOR OFFICIAL USE ONLY -~~ LIMITED DISTRIBUTION
SID#: SID-03000 ; Seabrook ; Open
~~The following attached report may contain "law enforcement sensitive" information. Please do not relay this information to individuals who do not have a "need to know".~~

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

ID	EN #	Date	Region	Reporting Organization	Site/Licensee Name	Report Category	Current Phase	Status	Last Updated
Non-Responsive Record									
SID-02999	N/A	09/30/2019	4	Power Reactor - Operating	Palo Verde	Drone	ILTAB	Open	10/01/2019
SID-02998	N/A	09/29/2019	4	Power Reactor - Operating	Palo Verde	Drone	ILTAB	Open	10/01/2019
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SID-02889	N/A	11/11/2017	4	Power Reactor - Operating	Palo Verde	Drone	ILTAB	Closed Unresolved	12/21/2017
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From:	Lombard, Mark
To:	Warner, Deanna
Subject:	Fw: SID Notice: 9/30/2019
Date:	Sunday, March 22, 2020 12:47:18 PM
Attachments:	SID.pdf

From: Hoc, HOO X <HOO.Hoc@nrc.gov>
Sent: Monday, September 30, 2019 3:22 AM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: SID Notice: 9/30/2019

~~FOR OFFICIAL USE ONLY~~ LIMITED DISTRIBUTION

SID#: SID-02998 ; Palo Verde ; Open

~~The following attached report may contain "law enforcement sensitive" information. Please do not relay this information to individuals who do not have a "need to know".~~

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

Event #: *SID-02998* Security Event Description

Site:	Palo Verde	
Facility Type:	Power Reactor - Operating	
Event Date/Time:	09/29/2019	America/Phoenix
Notify Date/Time:	9/30/2019 12:47:00 AM	(EDT)
Last Update Date:	9/30/2019 1:22:11 AM	(EDT)
Event Type:	Drone	
H.E.R.O:	Thomas Kendzia	
Caller Affiliation:	Palo Verde Security	

Officer noticed several drones (5 or 6) flying over the site. The drones are circling the 3 unit site inside and outside the Protected Area. The drones have flashing red and white lights and are estimated to be 200 to 300 hundred feet above the site. It was reported the drones had spotlights on while approaching the site that they turned off when they entered the Security Owner Controlled Area. Drones were first noticed at 2050 MST and are still over the site as of 2147 MST. Security Posture was normal, which was changed to elevated when the drones were noticed. The Licensee notified one of the NRC resident inspectors.

As of 0237 EST, no drones have been observed at the site since 2230 MST. Officers believe drones were over 2 feet in diameter.

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

From: Lombard, Mark
To: Warner, Deanna
Subject: Fw: SID Notice: 10/1/2019 - 2nd occurrence noted as update to SID-02998 is now SID-02999
Date: Sunday, March 22, 2020 12:47:10 PM
Attachments: SID.pdf

From: Hoc, HOO X <HOO.Hoc@nrc.gov>
Sent: Wednesday, October 2, 2019 12:54 PM
To: Hoc, HOO X <HOO.Hoc@nrc.gov>
Subject: SID Notice: 10/1/2019 - 2nd occurrence noted as update to SID-02998 is now SID-02999

~~FOR OFFICIAL USE ONLY -~~ LIMITED DISTRIBUTION

This event was originally entered as an update to SID-02998, but is administratively now a new event in the database.

SID#: SID-02999 ; Palo Verde ; Open

~~The following attached report may contain "law enforcement sensitive" information. Please do not relay this information to individuals who do not have a "need to know".~~

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

Event #: *SID-02999* Security Event Description

Site:	Palo Verde	
Facility Type:	Power Reactor - Operating	
Event Date/Time:	09/30/2019	America/Phoenix
Notify Date/Time:	10/1/2019 12:13:00 AM	(EDT)
Last Update Date:	10/1/2019 1:09:22 PM	(EDT)
Event Type:	Drone	
H.E.R.O:	Donald Norwood	
Caller Affiliation:	Palo Verde Security	

* * * This event was originally entered as an update to SID-02998, but is administratively now a new event in the database. * * *

Four (4) drones were observed flying beginning at 2051 MST and continuing through the time of this report (2113 MST). As occurred last night, the drones are flying in, through, and around the owner controlled area, the security owner controlled area, and the protected area. Also, as last night, the drones are described as large with red and white flashing lights. Spotlights have not been noted tonight.

The licensee has not changed their security posture. The licensee continues to monitor the drones.

As of 0355 EDT, no drones have been observed at the site since before 0020 MST. LLEA surveyed the area and were unable to locate drones on the ground or anyone controlling the drones.

The licensee notified FAA (both Phoenix and Albuquerque), FBI, DHS, and the Maricopa Sheriff's Office. The licensee notified the NRC Resident Inspector.

Notified R4DO (Proulx) and ILTAB (b)(6).

This report is open pending ILTAB/ILTAT review. ILTAB/ILTAT will update or close this report when appropriate.

From: Rivers, Joseph
To: Pearson, Laura; Lombard, Mark; Helton, Shana; Bailey, Marissa; Holian, Brian
Cc: Thomas, Brian; Bowen, Jeremy; Rivera, Alison; Morris, Scott; Atack, Sabrina
Subject: RE: PVGS - UAV overflights (an update)
Date: Thursday, October 3, 2019 7:31:10 AM

There are a number of websites that provide such information. Here is one below:
https://cqrcengage.com/auvsi/statelegmap
I would point out that restricted airspace will do nothing to stop an adversarial attack and even the detection systems identified earlier in this email chain have limited success rates, and there is even lower likelihood that law enforcement will arrive quickly enough to actually engage with the pilots. We should be focusing our attention on getting Federal regulations and laws changed to allow sites to be defended and to identify engineering fixes that would mitigate an adversarial attack before there our licensed facilities become vulnerable.

From: Pearson, Laura
Sent: Thursday, October 03, 2019 7:15 AM
To: Lombard, Mark <Mark.Lombard@nrc.gov>; Rivers, Joseph <Joseph.Rivers@nrc.gov>; Helton, Shana <Shana.Helton@nrc.gov>; Bailey, Marissa <Marissa.Bailey@nrc.gov>; Holian, Brian <Brian.Holian@nrc.gov>
Cc: Thomas, Brian <Brian.Thomas@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Rivera, Alison <Alison.Rivera@nrc.gov>; Morris, Scott <Scott.Morris@nrc.gov>; Atack, Sabrina <Sabrina.Atack@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)
The last time I looked at the state laws on drones was about a year ago, and that that time the number of states with similar laws was in the high teens with more pending. There has been a big push for states to enact these laws because the federal government has limited authority to enact similar laws, since most drone activity that is worrisome occurs close to the ground/structures- and the federal government's authority starts higher than that, if I recall, over 500 feet. (This is why FAA's drone regulations get shot down in court constantly- lack of authority to create the regulations.) By contrast the states have vast power over this, and a lot (if not most at this point) have laws pertaining to drone activity at power plants.

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Thu, October 03, 2019 3:45 AM -0400
To: "Pearson, Laura" <Laura.Pearson@nrc.gov>, "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>, "Atack, Sabrina" <Sabrina.Atack@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Thanks Laura. Do we know if other NPP states have similar laws?

-------- Original Message --------

From: "Pearson, Laura" <Laura.Pearson@nrc.gov>
Date: Wed, October 02, 2019 8:42 PM -0400
To: "Lombard, Mark" <Mark.Lombard@nrc.gov>, "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>, "Atack, Sabrina" <Sabrina.Atack@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Mark, to answer your question, Arizona law prohibits flying a drone within 500 feet horizontally or 250 feet vertically of any critical facility, which includes power plants of any type.

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 7:25 PM -0400
To: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Atack, Sabrina" <Sabrina.Atack@nrc.gov>, "Pearson, Laura" <Laura.Pearson@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

PS-let's please not brief this out further until I get to Dan and we have a bit more info.

-------- Original Message --------
From: "Lombard, Mark" <Mark.Lombard@nrc.gov>
Date: Wed, October 02, 2019 7:14 PM -0400
To: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>, "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>
CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>, "Morris, Scott" <Scott.Morris@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

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-------- Original Message --------
From: "Rivers, Joseph" <Joseph.Rivers@nrc.gov>
Date: Wed, October 02, 2019 6:55 PM -0400
To: "Helton, Shana" <Shana.Helton@nrc.gov>, "Bailey, Marissa" <Marissa.Bailey@nrc.gov>, "Lombard, Mark" <Mark.Lombard@nrc.gov>, "Holian, Brian" <Brian.Holian@nrc.gov>

CC: "Thomas, Brian" <Brian.Thomas@nrc.gov>, "Bowen, Jeremy" <Jeremy.Bowen@nrc.gov>, "Rivera, Alison" <Alison.Rivera@nrc.gov>, "Stone, Rebecca" <Rebecca.Stone@nrc.gov>, "Miller, Geoffrey" <Geoffrey.Miller@nrc.gov>
Subject: Re: PVGS - UAV overflights (an update)

Actually, the system they describe is not a counter-UAV technology. It is a detection system that could aid in the identification of the people flying the UAVs. However, at this time, the pilots are not violating ay laws or regulations by flying over the plant.
Joe

From: Helton, Shana <Shana.Helton@nrc.gov>
Sent: Wednesday, October 2, 2019 5:05 PM
To: Bailey, Marissa <Marissa.Bailey@nrc.gov>; Lombard, Mark <Mark.Lombard@nrc.gov>; Holian, Brian <Brian.Holian@nrc.gov>
Cc: Thomas, Brian <Brian.Thomas@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>; Rivers, Joseph <Joseph.Rivers@nrc.gov>; Rivera, Alison <Alison.Rivera@nrc.gov>; Stone, Rebecca <Rebecca.Stone@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>
Subject: FYI: PVGS - UAV overflights (an update)
FYI, note the below re: licensee using counter-drone technology. (Thanks, Geoff, for passing this along.)

From: Miller, Geoffrey
Sent: Wednesday, October 02, 2019 5:03 PM
To: Helton, Shana <Shana.Helton@nrc.gov>; Bowen, Jeremy <Jeremy.Bowen@nrc.gov>
Cc: Lantz, Ryan <Ryan.Lantz@nrc.gov>
Subject: FW: PVGS - UAV overflights (an update)
FYI – in case you hadn't heard through other channels.

From: (b)(6)
Sent: Wednesday, October 02, 2019 3:31 PM
To: Morris, Scott <Scott.Morris@nrc.gov>; Lantz, Ryan <Ryan.Lantz@nrc.gov>; Miller, Geoffrey <Geoffrey.Miller@nrc.gov>; Vegel, Anton <Anton.Vegel@nrc.gov>; Inverso, Tara <Tara.Inverso@nrc.gov>
Cc: Dixon, John <John.Dixon@nrc.gov>; Haire, Mark <Mark.Haire@nrc.gov>
Subject: PVGS - UAV overflights (an update)
Scott,
At the urging of John Dixon (thanks, John!), I just received a call from Sean Darnseif and Michael Casenza (?) from PVGS to update me on the activities their site is undertaking to attempt to identify the UAV operators from earlier this week.
According to our discussions just now, PVGS is working closely with their regulatory affairs staff, LLEA, DHS, FAA, and FBI to address the UAV overflights. Further, PVGS intends to deploy a counter-drone technology from Area Armor to attempt to identify the UAV operators. This technology apparently has a 13-mile radius and can determine the specific point from which the UAVs were launched so that LLEA / site security can locate the operator(s). I confirmed with the licensee that they have coordinated the use of this counter drone technology with FAA, and they informed me that this technology only locates the UAVs; it does not interfere with the flight pattern of those UAVs in any way. PVGS has also

staffed an additional team on the backshift to help search for any potential operators should additional UAVs be observed later this week.
I have conveyed this information to my FBI counterpart with whom I have been coordinating this week for his awareness, and I have asked both PVGS and the FBI to keep me informed of any additional information they may receive during the course of this investigation. I will also share this information with ILTAB for their on-call duty officer's awareness.
Thank you,

(b)(6)
Intelligence Specialist
Response Coordination Branch, Region IV
U.S. Nuclear Regulatory Commission
Tel: (b)(6)
(b)(6)

From: Dixon, John
Sent: Tuesday, October 15, 2019 1:38 PM
To: Peabody, Charley; You, David; Bywater, Russ
Subject: FW: NRC Daily Notes for October 11, 2019

FYI. The drone issue is getting higher views, not specific to PV but it may have driven it faster.

John L. Dixon
Chief, Branch D
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(b)(6) *(c)*

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