
From: Inverso, Tara
Sent: Friday, October 4, 2019 10:08 AM
To: R4DRP-DIV; R4DRS-DIV; R4ACFS; 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

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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
SID-02998

EN #
N/A

Incident Status
 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
Palo Verde

State
AZ

Region
4

Timezone
(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

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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 Maricopa County Sheriff Office	(R) Organization LLEA	(R) Phone 602-876-1011
(R) Name Albuquerque FAA Office	(R) Organization FAA	(R) Phone 505-858-4500
(R) Name Phoenix FAA Office	(R) Organization FAA	(R) Phone 602-306-2566
(R) Name Heather Martin, Washington DC FAA Office	(R) Organization FAA	(R) Phone 202-267-3333
(R) Name Regional FBI Office	(R) Organization FBI	(R) Phone 623-466-1999
(R) Name DHS Office	(R) Organization DHS	(R) Phone 202-282-8101

NRC's External Notification 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
SID-02999

EN #
N/A

Incident Status
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

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
 ISMAEL GARCIA

(R) Caller Title
 Security Supervisor

Caller Affiliation
 Palo Verde Security

(R) Call Back Phone #
 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.

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

NRC's External Notification 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.

**PVNGS Nuclear Security
Security Incident Form**

Incident Type Unauthorized unmanned aerial vehicles activity detected			IR # N-9-19-007	
Person Reporting Incident (b)(6)		Department Security Department		Phone Ext. 82-2006
Date of Incident 9/30/19	Time of Incident 8:51 PM	PVAR # 19-14124	Location OCA/SOCA/PA	
Date Reported to Security 9/30/19	Time Reported to Security 8:51 PM	Injury Involved <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Medical Attention <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Suspect(s) or other Personnel Involved N/A			Fire Protection Notified <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
MCSO Contacted <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MCSO Report # 19030260	Time MCSO Contacted 2105 hours	Deputy Name(s) Brian Tapley	
Type of Property/Equipment Involved Unmanned Aerial Vehicles	Serial Number N/A	Estimated Value N/A		
Fitness For Duty Contacted <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Person Contacted <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date	Time
Reporting Officer (Print) (b)(6)	Reporting Officer (Signature) (b)(6)		Security Supervisor (Signature)	

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. LIEA (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 any 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>; Vegal, Anton <Anton.Vegal@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>
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Headquarters Operations Officer

U. S. Nuclear Regulatory Commission

phone: 301-816-5100

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secure: hoo1@nrc.sgov.gov

color NRC seal



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Mark

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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 any 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>; Vegal, Anton <Anton.Vegal@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)