

## Terrie Sherer

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**Sent:** Thursday, December 12, 2013 3:11 PM  
**To:** Bill Donahue; Terrie Sherer  
**Subject:** Board questions  
**Attachments:** Procedure\_Fleet\_FAA\_Light\_Failure\_Reporting\_Directions\_current.pdf

Bill and Terrie:

Based on what I hope are my complete notes from Tuesday's meeting, these are the answers to the questions that were asked:

1. How often are the turbines inspected?

Turbines are inspected during the routine maintenance three times a year. This includes a visual inspection of the blades.

2. Were they inspected after last month's incident to make sure no others are damaged?

Yes, the blades on the entire site were inspected. No damage was visible.

3. What happened with the emergency lights after the storm, and what is the protocol for them?

There was a grid outage and the lights are not powered during an outage. Attached is California Ridge's procedure for dealing with FAA lights that are not lit. The procedure was followed.

Please let me know if I did in fact get all the questions and if the answers are satisfactory.

Mike

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<b>Invenergy</b>	<b>INVENERGY O&amp;M SERVICES</b>	<b>Revision:</b> 0
	<b>FAA LIGHT FAILURE NOTAM REPORTING DIRECTIONS</b>	<b>Issued:</b> 03/29/12

## REPORTING DIRECTIONS FOR FAA LIGHT FAILURE

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## 1. PURPOSE

- 1.1. This procedure details the reporting directions required by Invenergy Services O&M personnel upon the failure of one or more FAA light failures.

## 2. APPLICABILITY

- 2.1. All Invenergy Services O&M personnel.

## 3. REFERENCES

- 3.1. <http://oeaaa.faa.gov/oeaaa/external/content/lightOutageReporting.jsp>
- 3.2. Reference\_Fleet\_FAA\_Light\_Coordinates

## 4. PROCEDURE

### 4.1. Overview

- 4.1.1. Sponsors should keep in mind that conspicuity is achieved only when all recommended lights are working. Partial equipment outages decrease the margin of safety. Any outage should be corrected as soon as possible. Failure of a steady burning side or intermediate light should be corrected as soon as possible, but notification is not required.
- 4.1.2. Advisory Circular 70/7460-1K, Obstruction Marking and lighting, describes the standards for marking and lighting structures such as buildings, chimneys, antenna towers, cooling towers, storage tanks, supporting structures or overhead wires, etc...

### 4.2. Reporting

- 4.2.1. **Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately by calling 877-487-6867 so a Notice to Airmen (NOTAM) can be issued.**
  - 4.2.1.1. The ICC will monitor the Navigation/Obstruction light warning/malfunction status code to detect when lights have failures.
  - 4.2.1.2. In the event of a feeder or park outage, the Navigation/Obstruction lights will lose power and the ICC will need to identify this as light failures.
  - 4.2.1.3. The ICC will report light failures to the FAA within 30 minutes of notice. An automatic query will be run periodically to ensure that all light failures are accounted for.
  - 4.2.1.4. The ICC will create a work order in EAM for the light failure so that the site is aware of the situation.
  - 4.2.1.5. In the case of out-of-sync lights, a monthly PM will be created in EAM for a tech to do a drive through of the park to ensure that all lights are in sync.
  - 4.2.1.6. If the outage of the light is going to be more than 15 days, the ICC will call the FAA and inform them that they need an extension since the NOTAM will be automatically deleted from the system after 15 days.
- 4.2.2. When reporting, please have the following available:
  - 4.2.2.1. Name of persons or organizations reporting light failures, including any title, address and phone number (Invenergy Services representing SITE.)
  - 4.2.2.2. The type of structure (Wind Turbine)

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- 4.2.2.3. Location of structure (GPS location will be given by ICC to FAA)
- 4.2.2.4. Height of structure above ground level (AGL)/above mean sea level (AMSL), if known (The height will be given to the tip of the blade)

**Note: Reference 3.2 will be used in order to find the information for Section 4.2.2.3 and 4.2.2.4.**

- 4.2.2.5. A return to service date

**Note: The FCC advises that noncompliance with notification procedures could subject its sponsor to penalties or monetary forfeitures.**

#### 4.3. Restoration

4.3.1. **As soon as normal operation is restored, please call 877-487-6867. After 15 days NOTAM is automatically deleted from the system. The sponsor is responsible for calling 877-487-6867 to extend the outage date or to report a return to service date.**

- 4.3.1.1. The O&M technician will call the ICC as soon as the light failure is corrected and the light is operating properly.
- 4.3.1.2. The ICC will notify the FAA upon restoration of the Navigation/Obstruction light as soon as possible.

### 5. RESPONSIBILITIES

#### 5.1. Invenergy Services O&M personnel

5.1.1. All Invenergy Services O&M personnel are responsible for knowing the requirements of this procedure and reporting any outages of FAA lights as soon as possible to the ICC.

#### 5.2. ICC Personnel

5.2.1. ICC personnel are responsible for knowing the requirements of this procedure and reporting light failures to the FAA within a 30 minute timeframe.

### 6. DATA RETENTION

6.1. None

### 7. ATTACHMENTS

7.1. None

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AMENDMENT RECORD SHEET

Revision/Review	Description:	Date:
0	Original Document	03/29/12