POWER GENERATION VPP WORK GROUP

Q2 2024

May 16, 2024

Please check in on the chat function with your name, title and company. Feel free to add email

Safety Moment

Presented By: Marc Sullivan

Regional EHS Manager

Vistra Corp.

VPP Updates

Since last meeting:

New VPP Applications Submitted or Accepted

Initial VPP Approvals

VPP Reapprovals

Special Government Employees (SGE)

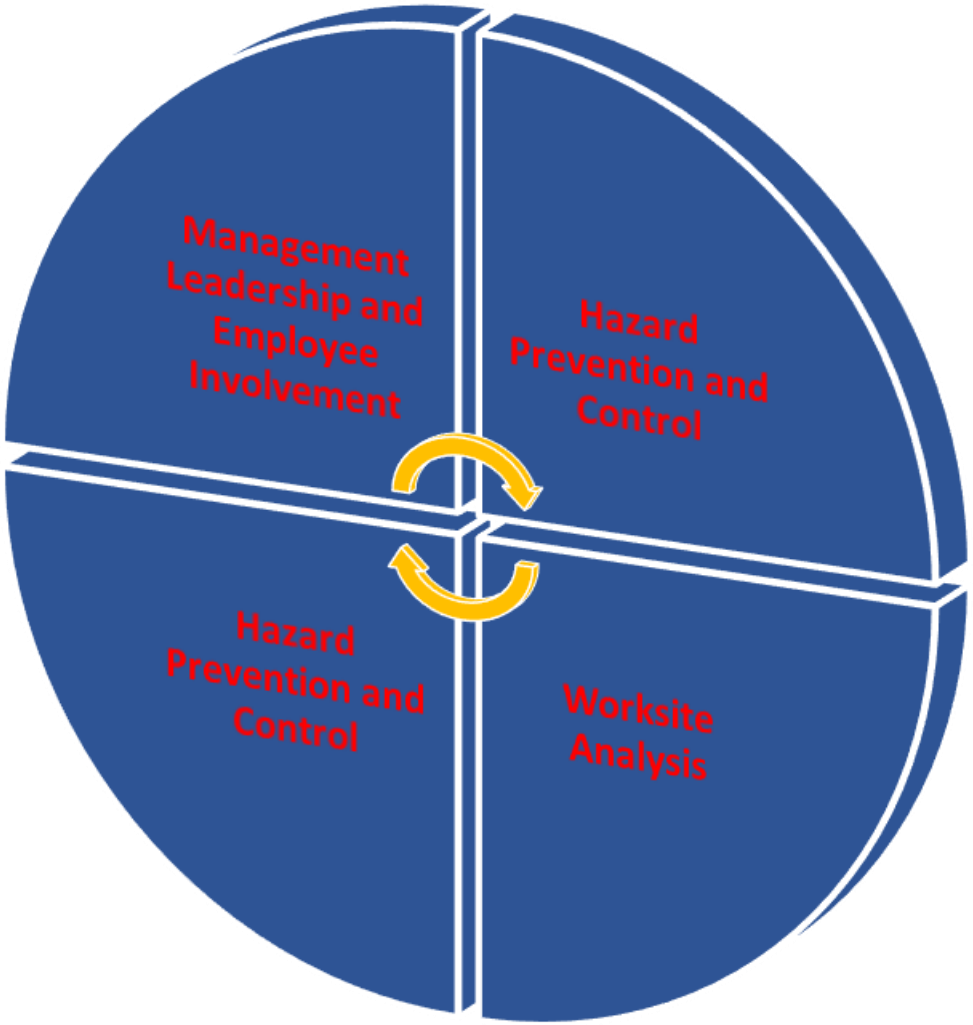
Notes and Opportunities

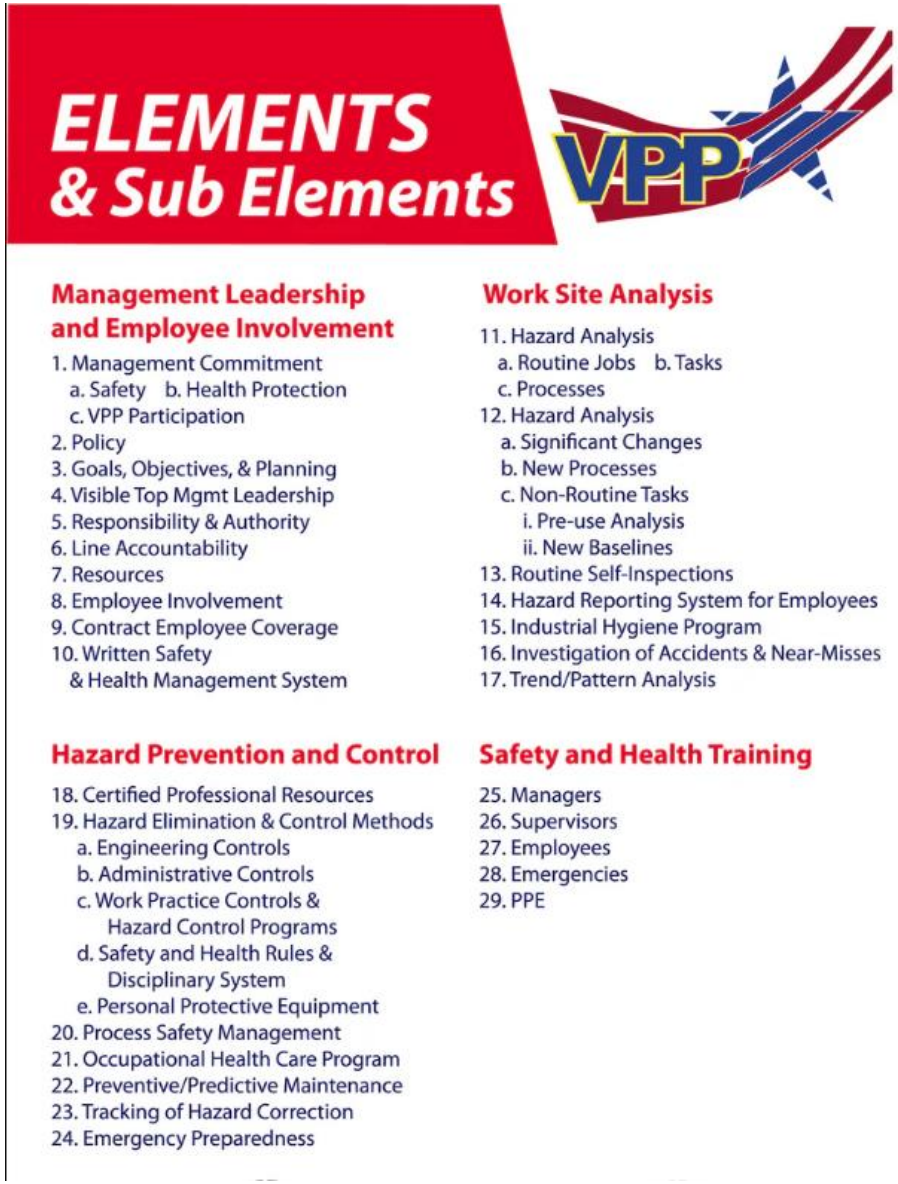
- 11 SGE Training classes are scheduled through September. https://www.osha.gov/sge/sge-training
- SGE Opportunities – https://www.osha.gov/sge/onsite
- For more SGE Program Information - https://www.osha.gov/sge

VPP Element

Joseph Sviatko

Cheyenne Prairie Generating Station





VPP Elements and Sub Elements

VPP Element

Management Leadership and Employee Involvement

VPP Sub Element

Employee Involvement

VPP Element

Hazard prevention and Control

VPP Sub Element

Tracking of Hazard Correction

VPP Element

Work Site Analysis

VPP Sub Element

Hazard Reporting System for Employees

ELEMENTS & Sub Elements

Management Leadership and Employee Involvement

1. Management Commitment
   a. Safety b. Health Protection
   c. VPP Participation
2. Policy
3. Goals, Objectives, & Planning
4. Visible Top Mgmt Leadership
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8. Employee Involvement
9. Contract Employee Coverage
10. Written Safety
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11. Hazard Analysis
    a. Routine Jobs b. Tasks
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12. Hazard Analysis
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    b. New Processes
    c. Non-Routine Tasks
       i. Pre-use Analysis
       ii. New Baselines
13. Routine Self-Inspections
14. Hazard Reporting System for Employees
15. Industrial Hygiene Program
16. Investigation of Accidents & Near-Misses
17. Trend/Pattern Analysis

Hazard Prevention and Control

18. Certified Professional Resources
19. Hazard Elimination & Control Methods
    a. Engineering Controls
    b. Administrative Controls
    c. Work Practice Controls &
       Hazard Control Programs
    d. Safety and Health Rules &
       Disciplinary System
    e. Personal Protective Equipment
20. Process Safety Management
21. Occupational Health Care Program
22. Preventive/Predictive Maintenance
23. Tracking of Hazard Correction
24. Emergency Preparedness

Safety and Health Training

25. Managers
26. Supervisors
27. Employees
28. Emergencies
29. PPE

Cheyenne Prairie Generating Station
Safety Rodeo

Safety Rodeo

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- All the Personal at Cheyenne Prairie Generating Station will participate in the Safety Rodeo. Management will assign CPGS personal to perform a Safety Rodeo weekly as a best practice.
- A Safety Rodeo of all locations will be conducted at least quarterly, and the results will be recorded on the Safety Rodeo record sheets and Summary in the Safety Rodeo Binder.
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Maintenance Shop and Warehouse

Places to check: Shop Area, Air compressor Room, Switchgear Room, Battery Room, Warehouse, Fire Pump Building.

Look for any Safety related items. Below is a list of items to look at.

- ☐ Fire Extinguishers ☐ Railings and Guardrails
- ☐ Trip Hazards ☐ Exposed Electrical
- ☐ Housekeeping ☐ Leaks from Equip., Tanks, and Roofs
- ☐ Extension Cords used properly ☐ Warning Signs in Good Condition
- ☐ Snow and Ice ☐ Mobile Equipment in safe condition
- ☐ Carpet and Entrance Mats ☐ Lighting
- ☐ Hand and Machinery Guards ☐ _____
- ☐ Walkways and Stairways are Clear ☐ _____

Notes_____

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Cheyenne Prairie Generating Station

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Date: Area:

Item	Title	Description	Work Order Number Safety Work Order must be Submitted	Person Responsible	Resolved during Rodeo
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2					
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CPGS Safety Work Orders Completed in Last 450 Days

Work Order	Description	Type	Priority	Status	Created By	Reported By	Assigned To	Date Created	Completed Date
844962	Steam Turbine Hall Camera not working.	Corrective	4-(30) Day Planning	Closed	Bush, David	Bush, David		02-23-2023	03-29-2023
737124	Remove Temporary Conduit From PCM to Generator	Corrective		Closed	Rupp, Douglas	Rupp, Douglas		02-16-2020	09-05-2023
838541	Establish walk ways between units and highly walked areas.	Corrective	4-(30) Day Planning	Cancelled	McGhee, Gavin	McGhee, Gavin		01-20-2023	03-21-2024
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844963	Fire Water System Leak Showing East of Fire Pump Buiding	Corrective	4-(30) Day Planning	Closed	Bush, David	Bush, David		02-23-2023	09-05-2023
833796	Safety Shower North Ammonia Pit Heater	Corrective	4-(30) Day Planning	Closed	Bush, David	Sviatko, Joseph		11-02-2022	06-19-2023
859459	Safety Shower South Ammonia Pit Heater	Corrective	4-(30) Day Planning	Closed	Bush, David	Sviatko, Joseph		08-09-2023	10-11-2023
881986	leak in Electric fire pump building on ball valve west of pump	Corrective	3-(96) Hr. Planning	Closed	Bush, David	Bush, David		04-01-2024	04-02-2024
857680	1B Conduit body cover missing.	Corrective		Closed	Prindle, Brad	Prindle, Brad		08-03-2023	08-03-2023
867370	LAWS CPGS Plant Loudspeaker System	Corrective	4-(30) Day Planning	Closed	Sviatko, Joseph	Sviatko, Joseph		11-02-2023	12-06-2023
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Thank You

Joseph Sviatko

Cheyenne Prairie Generating Station
Black Hills Energy
joseph.sviatko@blackhillscorp.com
Mobile 970-590-5472

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Drone Safety 101
What you Need to Know?

John Condry, CSP

Outdoor Drones: DJI Mavic Series

DJI makes great all-around utility drones that can perform many different tasks including inspections, surveys, and high-quality photos/videos. They also have models that can do thermography.

PROS	CONS
Operates off GPS (Super stable platform)	Does not do well indoors
Great optics	Does not do well at night or low light
Obstacle Avoidance	Can be difficult to see when at altitude
30-minute battery life	Chinese made: Security Concerns
Compact-easy to carry	
Inexpensive	

Indoor Drones: Flyability Series

Flyability makes the Elios Series Drones which is great for confined space work. The new Elios 3 Drone utilizes LIDAR which helps with flight stability and the drone has the capability for external payloads (RAD Detector and UT Payload)

PROS	CONS
Great drone for indoors/confined spaces	Does not do well outdoors
Pilot does not have to be in space	Short battery life (9 minutes)
Range Extender available	Can be challenging to fly
Cage to protect from bumping obstacles	Price
Great optics	

How do Drones Benefit Us

Keeping Workers Safe:

- Hazard Elimination/Substitution
  - Use a drone to inspect areas instead of putting workers in harms way
    - Access areas where fall hazards exist (to ground or into water)
    - Confined Spaces (oxygen deficient/toxic atmospheres)
    - High Radiation areas

Saving Money:

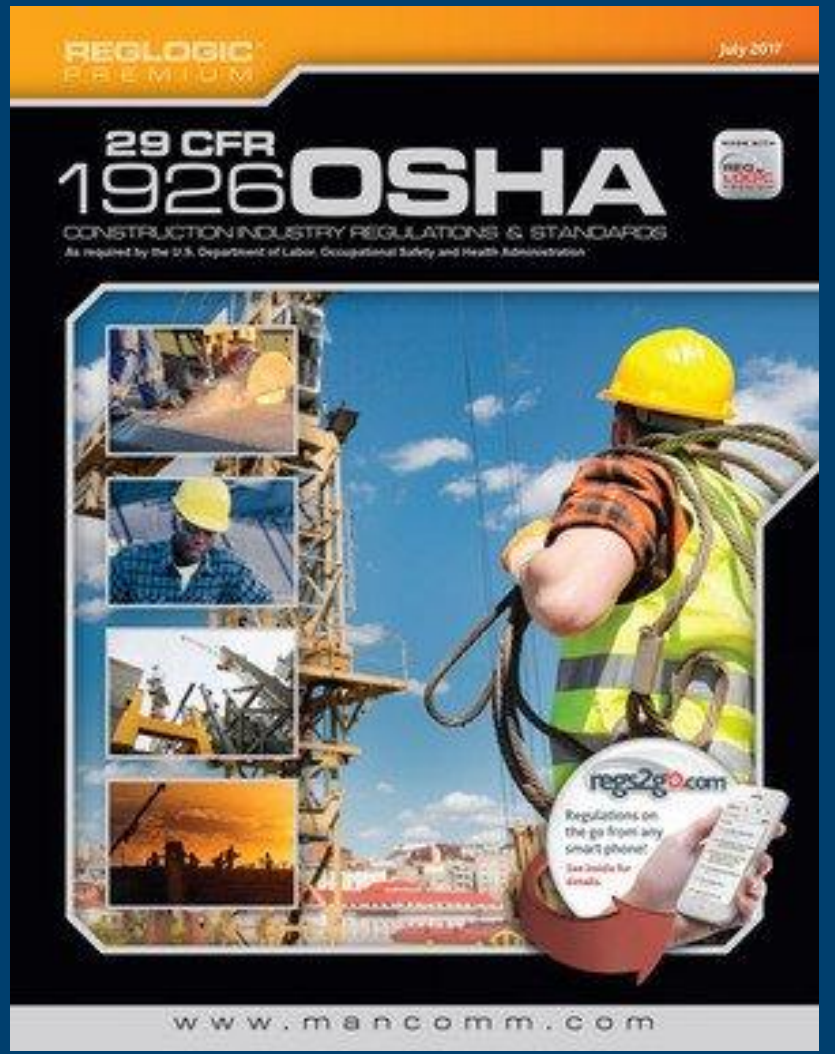
- Cost of Installing Scaffolding
- Hiring a third party to:
  - Perform inspections of hard-to-reach areas
  - Perform volumetric surveys (stockpile surveys)
  - Photos or Videos for orientation videos or to show progress

VPP Application or Annual Self Assessments

- Certified Professional Resources: Part 107 Licensed Drone Pilot
- List missions where a drone was used; For instance:
  - Used drone to inspect burner units inside boiler; kept workers from having to build complex scaffold
  - Drone was used to perform radiation survey that would normally be performed by operations technician
  - Used drone to inspect bridge support; prevented workers from fall potential into icy river
  - Drone was used to inspect rain cap on Unit 6 stack

OSHA

REGLOGIC
PREMIUM
July 2014
29 CFR
1910 OSHA
GENERAL INDUSTRY REGULATIONS
As required by the U.S. Department of Labor, Occupational Safety and Health Administration
regs2go.com
Your interactive regulatory technology!
See inside for details.
www.mancomm.com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PREMIUM
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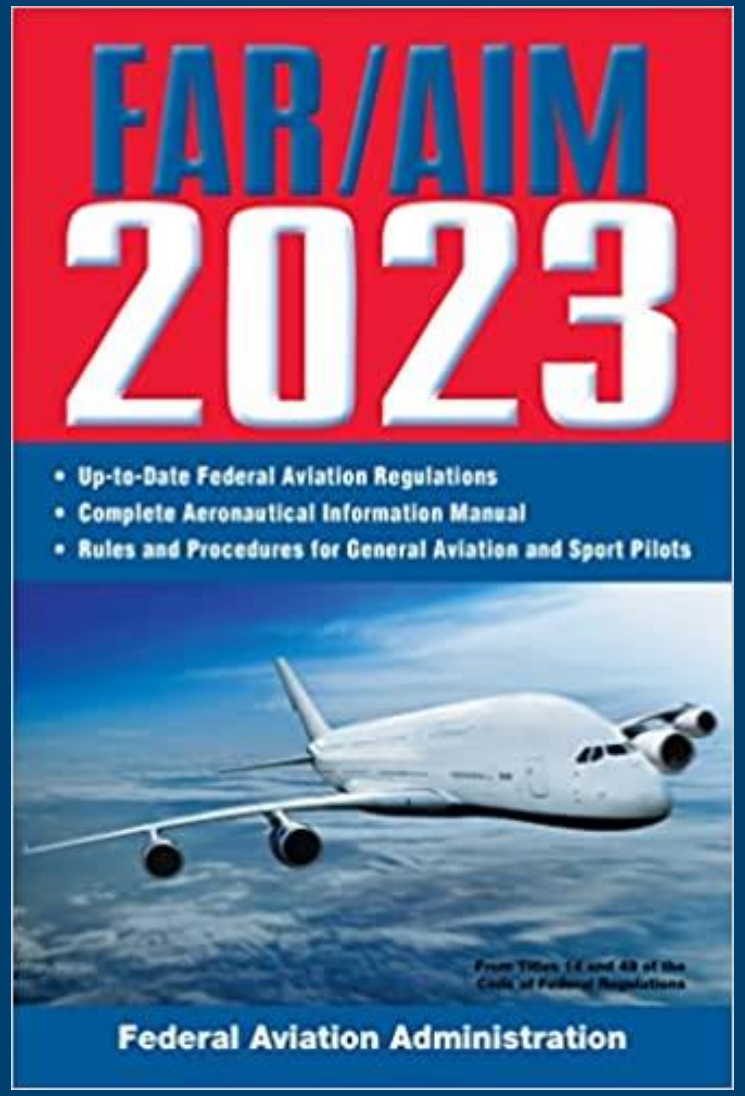
1926 OSHA
CONSTRUCTION INDUSTRY REGULATIONS & STANDARDS
regs2go.com
www.mancomm.com

FAA



- Federal Aviation Regulations/Aeronautical Information Manual (Pilots Bible)
- Includes regulations from:
  - 14 CFR Aeronautics and Space
  - 49 CFR Transportation
- The drone regulations come from 14 CFR Part 107 Small Unmanned Aircraft Systems

Part 107: Small Unmanned Aircraft Systems

▼ **Part 107** Small Unmanned Aircraft Systems	107.1 – 107.205
▼ **Subpart A** General	107.1 – 107.9
§ 107.1 Applicability.	
§ 107.2 Applicability of certification procedures for products and articles.	
§ 107.3 Definitions.	
§ 107.5 Falsification, reproduction, or alteration.	
§ 107.7 Inspection, testing, and demonstration of compliance.	
§ 107.9 Safety event reporting.	
▶ **Subpart B** Operating Rules	107.11 – 107.51
▶ **Subpart C** Remote Pilot Certification	107.52 – 107.79
▶ **Subpart D** Operations Over Human Beings	107.100 – 107.165
▼ **Subpart E** Waivers	107.200 – 107.205
§ 107.200 Waiver policy and requirements.	
§ 107.205 List of regulations subject to waiver.	

A Few of the Basic Rules

- Fly at or below 400 feet
- Keep your drone within sight
- Don't fly in restricted airspace without LAANC Authorization
- Don't fly near other aircraft, especially near airports
- Don't fly over groups of people
- Don't fly over stadiums or sporting events
- Don't fly near emergency response efforts such as fires
- Don't fly under the influence

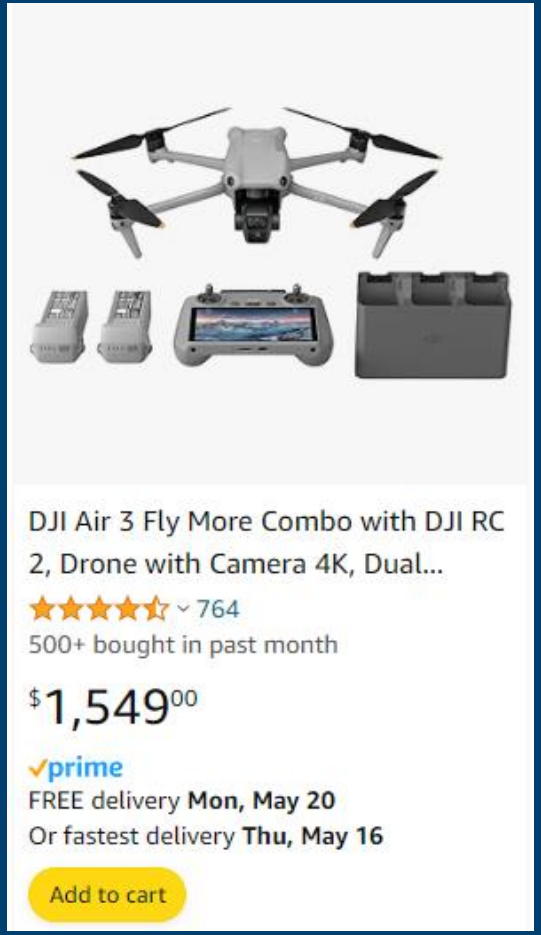
Flying a Drone on Your Site?

Can I buy a drone from Best Buy or Amazon to use at my site?

What is the definition of recreational or hobby use of a UAS or drone?

- Recreational or hobby UAS or drone use is flying for enjoyment and not for work, business purposes, or for compensation or hire.

If drones are being used for any work purposes outdoors, the rules of Part 107 must be followed.



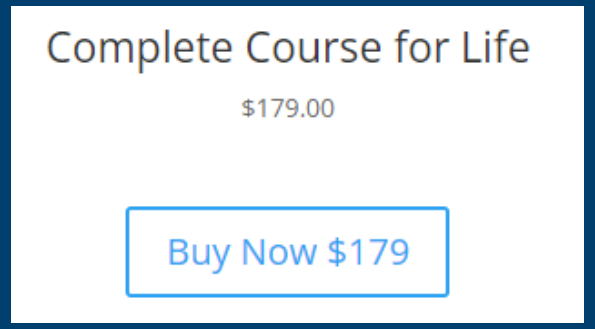
To fly under Part 107 rules, there are 3 main steps:

- Step 1: Learn the Rules
- Step 2: Become an FAA Certified Drone Pilot by Passing the Knowledge Test
- Step 3: Register your Drone with the FAA

Learn the Rules

- You can learn the rules of Part 107 on your own, but it may be better to take an online course.

- Remote Pilot 101 provides self paced training at a reasonable cost that is good for life.



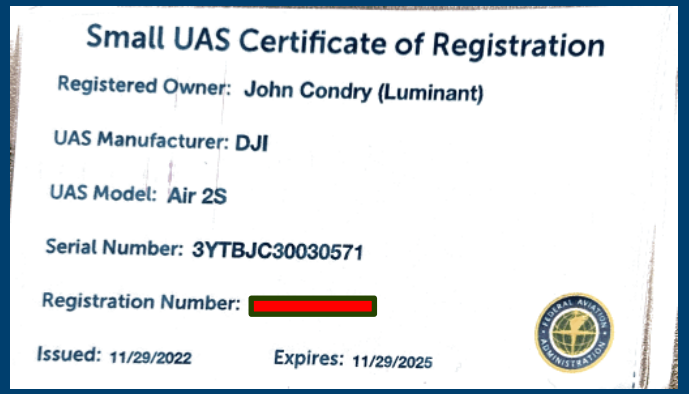
UAS License

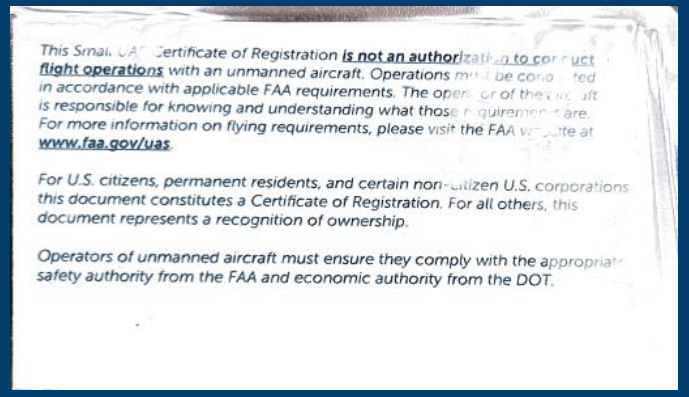
- Keep license on you anytime you are operating a drone
- Must recertify every 24 months
- Any law enforcement officer can ask to see license

Drone Registration

Registration costs $5.00 and is valid for 3 years.

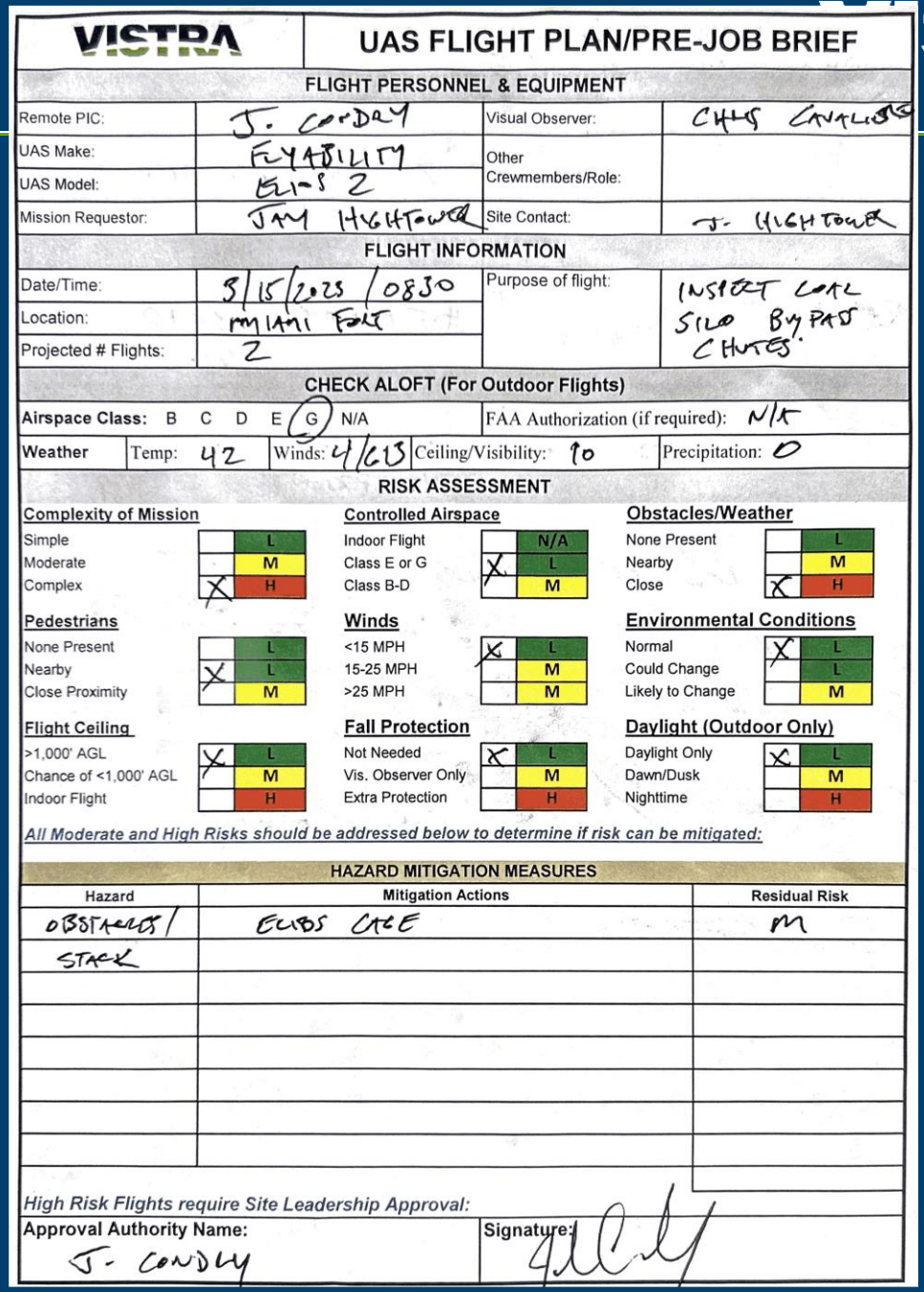
- Create an account and register your drone at FAADropZone.
- Mark your drone with the registration number





Flight Plan/Risk Assessment (Front Page)

- Easy for pilot to complete
- Key items on this side of form: Check Weather and Airspace
- Risk Assessment & Hazard Mitigation



VISTRA

UAS FLIGHT PLAN/PRE-JOB BRIEF

FLIGHT PERSONNEL & EQUIPMENT

Remote PIC:	J. CONDLY	Visual Observer:	CHAS CAVALIER
UAS Make:	FLYABILITY	Other Crewmembers/Role:	
UAS Model:	ELIOS 2		
Mission Requestor:	JAY HIGHTOWER	Site Contact:	J. HIGHTOWER

FLIGHT INFORMATION

Date/Time:	3/15/2023 / 0830	Purpose of flight:	INSPECT COAL SILO BYPASS CHUTES.
Location:	MIAMI FORT		
Projected # Flights:	2		

CHECK ALOFT (For Outdoor Flights)

Airspace Class: B C D E (G) N/A — FAA Authorization (if required): N/A

Weather	Temp:	Winds:	Ceiling/Visibility:	Precipitation:
	42	4/G13	10	0

RISK ASSESSMENT

Complexity of Mission		Controlled Airspace		Obstacles/Weather	
Simple	L	Indoor Flight	N/A	None Present	L
Moderate	M	Class E or G	L	Nearby	M
Complex	X H	Class B-D	X M	Close	X H
Pedestrians		**Winds**		**Environmental Conditions**	
None Present	L	<15 MPH	X L	Normal	X L
Nearby	X L	15-25 MPH	M	Could Change	L
Close Proximity	M	>25 MPH	M	Likely to Change	M
Flight Ceiling		**Fall Protection**		**Daylight (Outdoor Only)**	
>1,000' AGL	X L	Not Needed	X L	Daylight Only	X L
Chance of <1,000' AGL	M	Vis. Observer Only	M	Dawn/Dusk	M
Indoor Flight	H	Extra Protection	H	Nighttime	H

All Moderate and High Risks should be addressed below to determine if risk can be mitigated:

HAZARD MITIGATION MEASURES

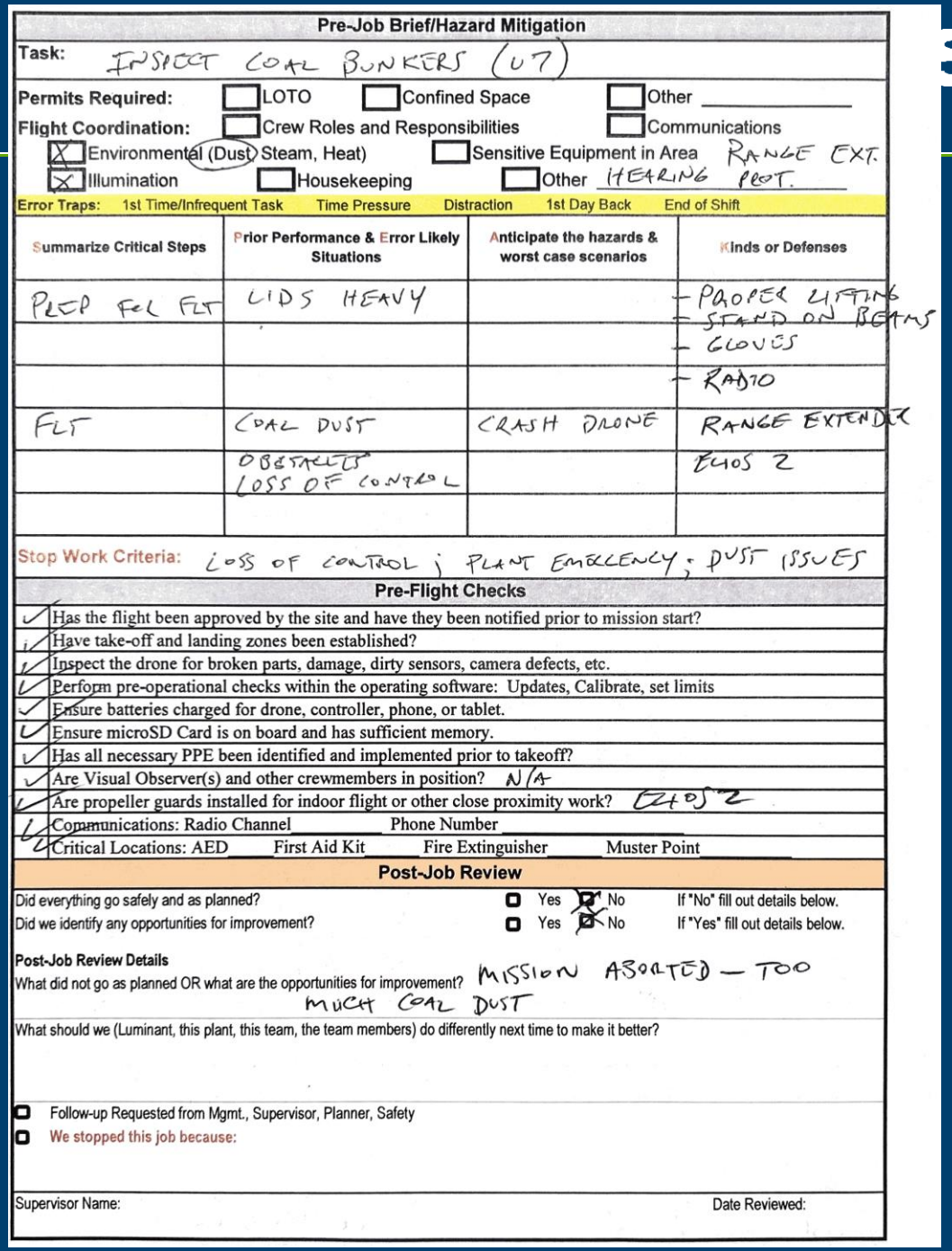
Hazard	Mitigation Actions	Residual Risk
OBSTACLES / STACK	ELIOS CAGE	M

High Risk Flights require Site Leadership Approval:

Approval Authority Name: J. CONDLY — Signature:

Pre-Job Brief/Pre-Flight Checklist/PJR (Back Page)

- PJB section (includes SPEAK dialogue and Stop Work Criteria
- Pre-Flight Checklist
- Post Job Review
- Contractor may use this form if they do not have their own



Pre-Job Brief/Hazard Mitigation

Task: INSPECT COAL BUNKERS (U7)

Permits Required: ☐ LOTO ☐ Confined Space ☐ Other _____

Flight Coordination: ☐ Crew Roles and Responsibilities ☐ Communications

☒ Environmental (Dust) Steam, Heat) ☐ Sensitive Equipment in Area RANGE EXT.

☒ Illumination ☐ Housekeeping ☐ Other HEARING PROT.

Error Traps: 1st Time/Infrequent Task | Time Pressure | Distraction | 1st Day Back | End of Shift

Summarize Critical Steps	Prior Performance & Error Likely Situations	Anticipate the hazards & worst case scenarios	Kinds or Defenses
PREP FOR FLT	LIDS HEAVY		– PROPER LIFTING – ~~STAND ON BEAMS~~ – GLOVES
			– RADIO
FLT	COAL DUST	CRASH DRONE	RANGE EXTENDER
	OBSTACLES LOSS OF CONTROL		ELIOS 2

Stop Work Criteria: LOSS OF CONTROL; PLANT EMERGENCY; DUST ISSUES

Pre-Flight Checks

- ✓ Has the flight been approved by the site and have they been notified prior to mission start?
- ✓ Have take-off and landing zones been established?
- ✓ Inspect the drone for broken parts, damage, dirty sensors, camera defects, etc.
- ✓ Perform pre-operational checks within the operating software: Updates, Calibrate, set limits
- ✓ Ensure batteries charged for drone, controller, phone, or tablet.
- ✓ Ensure microSD Card is on board and has sufficient memory.
- ✓ Has all necessary PPE been identified and implemented prior to takeoff?
- ✓ Are Visual Observer(s) and other crewmembers in position? N/A
- ✓ Are propeller guards installed for indoor flight or other close proximity work? ELIOS 2
- ✓ Communications: Radio Channel _____ Phone Number _____
- ✓ Critical Locations: AED _____ First Aid Kit _____ Fire Extinguisher _____ Muster Point _____

Post-Job Review

Did everything go safely and as planned? ☐ Yes ☒ No If "No" fill out details below.

Did we identify any opportunities for improvement? ☐ Yes ☒ No If "Yes" fill out details below.

Post-Job Review Details

What did not go as planned OR what are the opportunities for improvement? MISSION ABORTED – TOO MUCH COAL DUST

What should we (Luminant, this plant, this team, the team members) do differently next time to make it better?

☐ Follow-up Requested from Mgmt., Supervisor, Planner, Safety

☐ We stopped this job because:

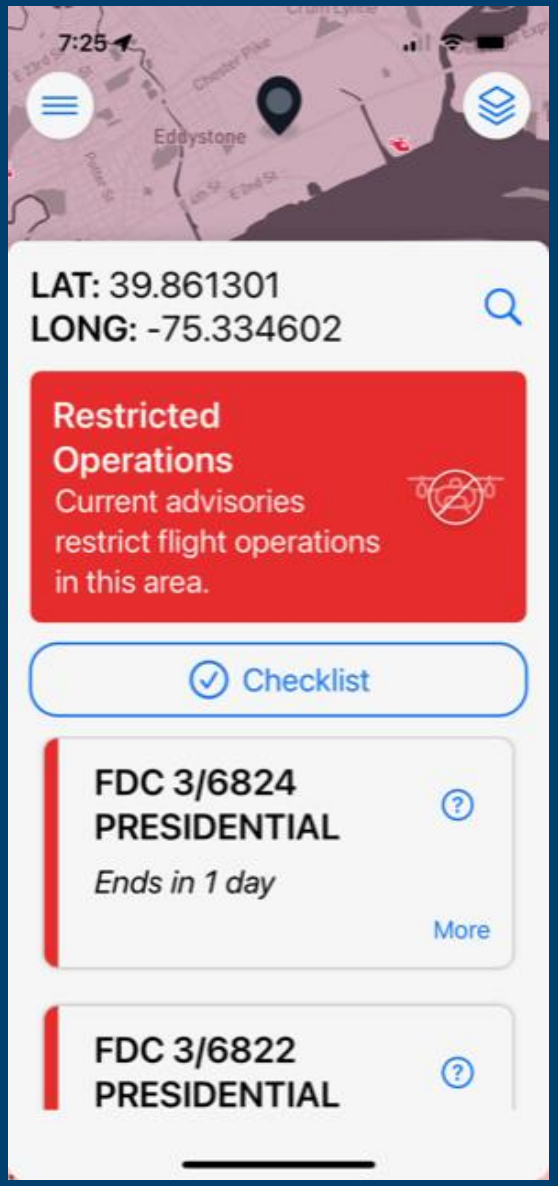
Supervisor Name: Date Reviewed:

Aloft Air Control

- Check Aloft before every mission
- You can see that the Sierra Headquarters is in controlled airspace; Class C Airspace
- Through Aloft, you can request LAANC Authorization to fly in some airspace.
- LAANC is the Low Altitude Authorization and Notification Capability, a collaboration between FAA and Industry

Aloft Air Control

It is important to check airspace before every mission….even for areas you fly in routinely. Sometimes a Temporary Flight Restriction (TFR) can be implemented for different reasons like an airshow or presidential visit.



Check Weather

- Check UAV Forecast before every mission to get forecasted weather
- Provides all basic weather forecast info and a bar that says “Good to Fly” or Not Good to Fly”
- Also shows number of satellites visible and satellites locked

107.9 Safety Event Reporting

No later than 10 calendar days after an operation that meets the criteria of either paragraph (a) or (b) of this section, a remote pilot in command must report to the FAA, in a manner acceptable to the Administrator, any operation of the small unmanned aircraft involving at least:

(a) Serious injury to any person or any loss of consciousness; or

(b) Damage to any property, other than the small unmanned aircraft, unless one of the following conditions is satisfied:

(1) The cost of repair (including materials and labor) does not exceed $500; or

(2) The fair market value of the property does not exceed $500 in the event of total loss.

Insurance

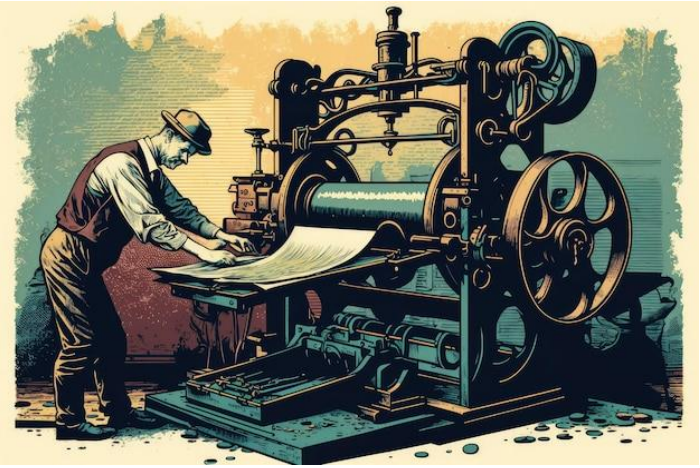
Consider insurance for your company owned drones. Many insurance companies have policies specific for drone operations.

Third-party bodily injury and property damage liability, and insured physical damage or loss of drone

Questions?

Committee Updates

Newsletter Updates



- Q1, 2024 Delivered
- Newsletter Contributions
  - Send ideas, proactive topics, presentations, etc. by April 30th.
- Contact:
  - Michael Circle
  - Michael.Circle@OnwardEnergy.com

Qualified Electrical Worker (QEW) Update

Benchmarking

- Develop benchmarking questionnaire for deployment in Q1 2024
  - Auditing
  - SGE Participation and Metrics
- Team member volunteers? If not, we will selectively ask!
- Contact Kelli Heflin

Kelli.Heflin@OnwardEnergy.com

Open Discussion

Questions?

Suggestions?

Discussion points?

2024 VPPPA Conference Schedule

- ~~Region 1 – April 2 – 4, Portsmouth, NH~~
- ~~Region 2 – May 13 – 15, Albany, NY~~
- Region 3 – June 9 – 15, Virginia Beach, VA
- Region 4 – June 4 – 6, Gatlinburg, TN
- Region 5 – In conjunction with VPPPPA Safety+
- ~~Region 6 – April 30 – May 2, Oklahoma City, OK~~
- Region 7 – In conjunction with VPPPPA Safety+
- ~~Region 8 – Region 8 Networking Day – May 8, Westminster, CO~~
- ~~Region 9 – April 16 – 18, Reno, NV~~
- ~~Region 10 – May 14 – 16, Anchorage, AK~~
- VPPPA Safety+ - August 25 – 28, Aurora, CO

Next Call: August 15th 2024
Q3 2024 Regular Meeting

If you have not already done so, please enter your attendee names, site name and company name into the chat function on the Zoom meeting.

Send Suggestions or offers to volunteer to:

Alex Miller – alexander.miller@vistracorp.com

Or

Kelli Heflin – Kelli.Heflin@OnwardEnergy.com

2024 Meeting Schedule

~~February 15th~~ ~~May 16th~~

August 15th November 14th

Meetings are scheduled from 1430 – 1600ET
(1230 – 1400MT)