

2023
**CHEMICAL
SECURITY
SUMMIT**

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#ChemicalSecurity



CHEMICAL SECURITY SUMMIT

August 31, 2023

Unmanned Aerial System (UAS) Case Study

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What got us involved with drones?

- ▶ In November 2017, multiple UAS sightings were reported over LA critical infrastructure.
- ▶ Flights lasted approximately two weeks then abruptly ended.
- ▶ After multiple attempts, no pilots were located.
- ▶ Search for UAS detection system that locates the pilot begins.
- ▶ FlyMotion and the DJI Aeroscope is selected for testing.
- ▶ October 2020 St. Charles Parish deploys the Aeroscope, it records over 135,000 flights the first year.

Trump to aides: 'I want tariffs'



By [Jeremy Diamond](#), CNN

Updated 6:16 AM EDT, Mon August 28, 2017



Video Ad Feedback



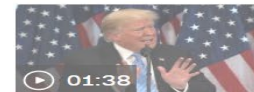
Trump vs China:
Tensions over trade

02:10



Trump claim to world
leaders met with
laughter

02:17



Trump: World leaders
were laughing with

01:38



Drone Incidents in Louisiana

- ▶ Reported sightings in St. Charles Parish by DOW and Occidental chemical in November of 2017.
- ▶ Reported sightings in Jefferson Parish by ADM Grain November of 2017.
- ▶ 2019 plants located in Iberville and Ascension Parish have had multiple drone sightings like those that occurred in St. Charles Parish in 2017.
- ▶ 2021 & 2022 St. James Parish has arrested four separate individuals for violation of state statutes by intentionally flying over critical infrastructure
- ▶ In 2022 multiple parishes have reported drone sightings over everything from schools to military bases.
- ▶ June and July of 2022, CF Industries suffered multiple nighttime drone incursions, but no pilot was located, nor was the drone detected by any systems.

What have we done about this?

- ▶ Education try to stay current with ever evolving technology.
- ▶ Change state law to make it more relevant.
- ▶ Educate UAS operators and the public.
- ▶ Arrest operator under new state law and confiscate the drone.
- ▶ Drone forensics.
- ▶ Seeking constant upgrades to software and hardware to Anti-UAS equipment.
- ▶ Outreach, first responders and industry.
- ▶ Bring other systems online in different regions.

LRS 14:337. Unlawful use of an unmanned aircraft system

- ▶ (1) The *intentional* use of an unmanned aircraft system to conduct surveillance of, gather evidence or collect information about, or photographically or electronically record a targeted facility without the prior written consent of the owner of the targeted facility.
- ▶ (2) The intentional use of an unmanned aircraft system over the grounds of a state or local jail, prison, or other correctional facility that incarcerates or detains juveniles or adults accused of, convicted of, sentenced for, or adjudicated delinquent for violations of criminal law without the express written consent of the person in charge of that state or local jail, prison, or other correctional facility.

B. As used in this Section, the following definitions shall apply:

(1) "Federal government" means the United States of America and any department, agency, or instrumentality thereof.

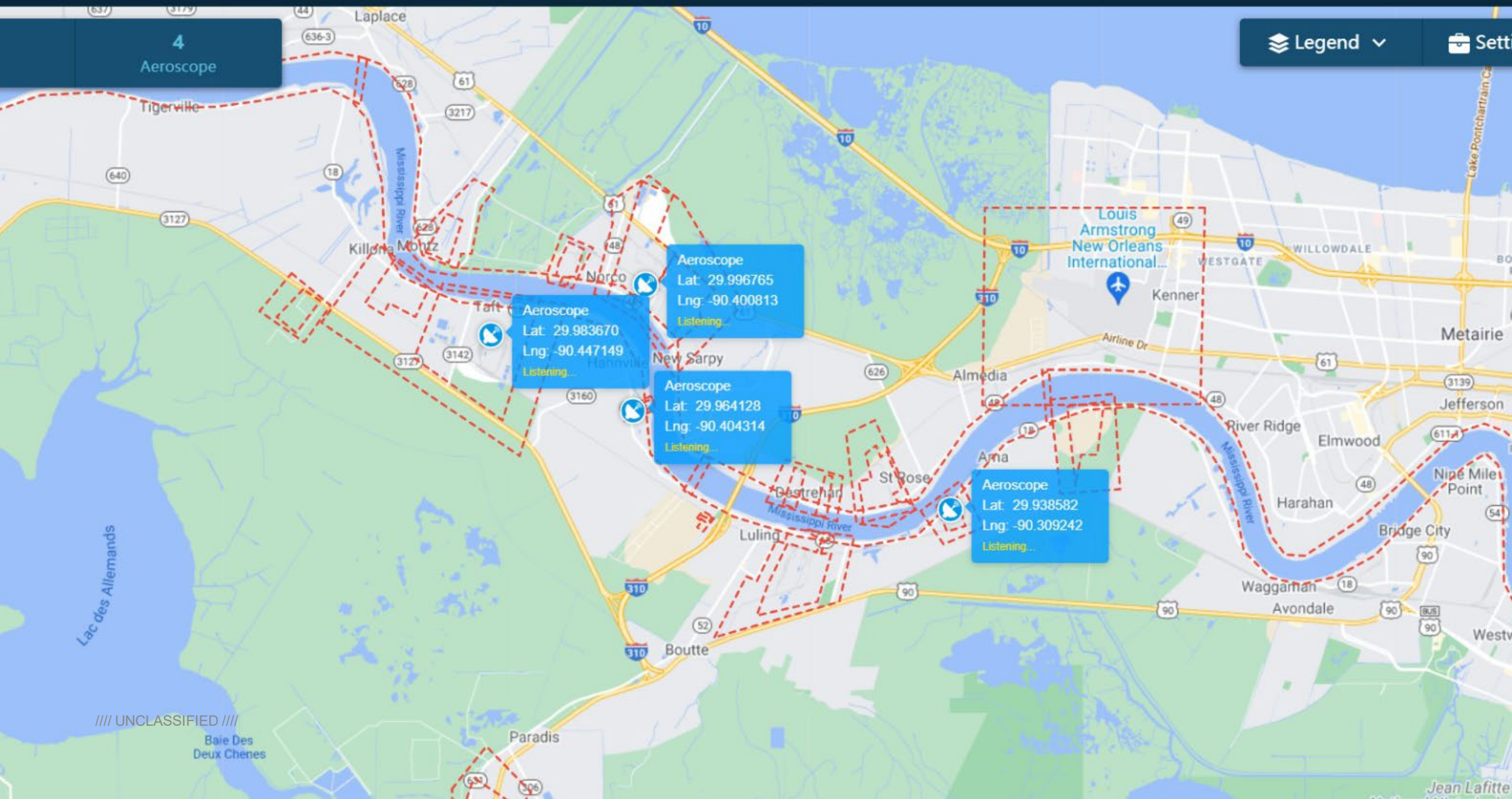
(2) "State government" means the state of Louisiana and any department, agency, or instrumentality thereof.

(3) "Targeted facility" means the following systems:

(a) Petroleum and alumina refineries.

(b) Chemical and rubber manufacturing facilities.

(c) Nuclear power electric generation facilities.



Legend ▼ Settings ⚙️

//// UNCLASSIFIED ////

Baie Des Deux Chenes

Jean Lafitte

Drone Mitigation Issues

Mitigation Issues

Aircraft Sabotage Act

- Damaging, destroying, disabling or wrecking an aircraft in flight is a Federal felony, punishable by 20 years in prison (18 U.S.C. 32)
- In 1994 and 2003, DOJ OLC concluded that this statute applied to governmental actors and law enforcement officers.

Aircraft Piracy Act (49 U.S.C. 46502)

- Illegal to seize or exercise control of an aircraft in flight with wrongful intent.

National Strategy for Aviation Security

- President declared that only DOD has authority to down civil aircraft in the National Airspace System.