



FAA grounds SpaceX Falcon 9 rockets, stopping liftoffs on Space Coast

Description

The SpaceX Falcon 9 rocket fleet has been put on hold by the FAA due to an upper-stage failure during a recent launch, which resulted in Starlink satellites being deployed into an irregular orbit. This grounding impacts the Space Coast's busy launch schedule, with 46 out of the 50 missions in 2024 being Falcon 9 launches.

The FAA stated that the investigation aims to enhance public safety, determine the cause of the incident, and implement corrective actions to prevent future occurrences. SpaceX will need FAA approval to resume flights after addressing any issues related to the mishap.

The recent Falcon 9 mission from Vandenberg Space Force Base experienced an upper-stage leak, resulting in the satellites being deployed at a lower altitude than planned. The satellites will re-enter the Earth's atmosphere safely.

SpaceX remains confident in its rocket production and launch capabilities, emphasizing its commitment to safety and operational reliability. The company will conduct a thorough investigation in collaboration with the FAA to prevent similar incidents.

This incident serves as a reminder of the challenges and complexities of spaceflight. Despite the setback, SpaceX remains optimistic about its future missions and commitment to delivering payloads to orbit safely. Stay tuned for updates on the Space Coast's launch schedule and latest news from Cape Canaveral Space Force Station and NASA's Kennedy Space Center at floridatoday.com/space.

Vocabulary List:

1. **Failure** /'feɪljər/ (noun): The lack of success in achieving a desired outcome.
2. **Investigation** /ɪnˌvɛstɪˈɡeɪʃən/ (noun): A systematic inquiry to uncover facts or information.
3. **Orbit** /'ɔːrbɪt/ (noun): The curved path of an object around a star planet or moon.
4. **Corrective** /kə'rektɪv/ (adjective): Intended to correct or rectify a fault or problem.
5. **Reliability** /rɪˌlaɪə'bɪləti/ (noun): The quality of being trustworthy or dependable.
6. **Mishap** /'mɪʃəp/ (noun): An unfortunate accident or mishap.

Comprehension Questions



Multiple Choice

1. What caused the SpaceX Falcon 9 rocket fleet to be put on hold by the FAA?
Option: An upper-stage failure
Option: A booster malfunction
Option: A payload deployment error
Option: A communication breakdown

2. How many missions in 2024 were planned to be Falcon 9 launches?
Option: 40
Option: 45
Option: 46
Option: 50

3. What is SpaceX required to do before resuming flights as per the FAA?
Option: Get approval from NASA
Option: Collaborate with ESA
Option: Address issues related to the mishap
Option: Conduct a social media campaign

4. Where did the recent Falcon 9 mission experience an upper-stage leak?
Option: Cape Canaveral Space Force Station
Option: Kennedy Space Center
Option: Vandenberg Space Force Base
Option: Houston Space Center

5. What is SpaceX's primary focus in its investigation with the FAA?
Option: Maximizing profits
Option: Enhancing public safety
Option: Expediting future launches
Option: Expanding to Mars

6. What is SpaceX's attitude towards its future missions despite the setback?
Option: Pessimistic
Option: Neutral
Option: Cautiously optimistic
Option: Confident



Answer

Multiple Choice: 1. An upper-stage failure 2. 46 3. Address issues related to the mishap 4. Vandenberg Space Force Base 5. Enhancing public safety 6. Confident

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What term describes the system or process by which something operates or is controlled?
Option: Astronomical
Option: Mechanism
Option: Celestial
Option: Intricate
2. What word refers to developments or improvements in a particular area or technology?
Option: Failure
Option: Advancements
Option: Milestone
Option: Revolutionized
3. In space terms what is the path followed by an object revolving around another object?
Option: Failure
Option: Investment
Option: Orbit
Option: Sovereignty
4. What term describes a strong negative reaction or response to something especially a social or political development?
Option: Investment
Option: Reliability
Option: Backlash
Option: Incentives
5. What is the action or process of investing money for financial gain?
Option: Hierarchy
Option: Investment
Option: Diplomatic
Option: Failure



6. Which term refers to an increase in the intensity or seriousness of a situation or conflict?

- Option: Incursion
- Option: Superiority
- Option: Escalation
- Option: Mishap

7. The authority of a state to govern itself is known as:

- Option: Subscription
- Option: Robust
- Option: Corrective
- Option: Sovereignty

8. Which term refers to thinking about something deeply or carefully?

- Option: Animosities
- Option: Contemplating
- Option: Functionality
- Option: Failure

9. Deep-seated hostilities or strong feelings of dislike between individuals or groups are known as:

- Option: Animosities
- Option: Superiority
- Option: Investment
- Option: Robust

10. Which term describes the quality of being trustworthy or performing consistently well?

- Option: Astronomical
- Option: Reliability
- Option: Failure
- Option: Frustrated

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. The intricate details of the mechanism were a source of _____ for the engineers.

12. The failure of the system led to in-depth _____ to identify the root cause.

13. After the mishap the team quickly implemented _____ measures to prevent it from happening again.

14. The team was _____ with the slow progress of the project.



15. Users can enjoy premium features with a paid _____ to the service.
16. The company followed a strict _____ in decision-making.
17. The new software had enhanced features and improved _____.
18. The successful launch of the product marked a significant _____ for the company.
19. The company offered various _____ to motivate employees and boost productivity.
20. The new technology completely _____ the industry.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. Astronomers study the movement and properties of objects in the realm.
22. The software's design allows it to handle large amounts of data efficiently.
23. The ambassador handled the delicate situation with great skill.
24. The artist's work showcased the beauty of patterns and designs.
25. The athlete's consistent performance highlighted their over their competitors.
26. The designer focused on both style and when creating the new product.
27. The country faced an unexpected that threatened its sovereignty.
28. Years of conflict had deepened the between the two communities.
29. Understanding the inner of the device was crucial for its maintenance.
30. The exhibit was a major for visitors to the gallery.

Answer

Multiple Choice: 1. Mechanism 2. Advancements 3. Orbit 4. Backlash 5. Investment 6. Escalation 7. Sovereignty 8. Contemplating 9. Animosities 10. Reliability

Gap-Fill: 11. fascination 12. investigations 13. corrective 14. frustrated 15. subscription 16. hierarchy 17. functionality 18. milestone 19. incentives 20. revolutionized

Matching sentence: 1. celestial 2. robust 3. diplomatic 4. intricate 5. superiority 6. functionality 7. invasion 8. animosities



9. mechanism 10. attraction

CATEGORY

1. Sci/Tech - LEVEL5

Date Created

2024/07/15

Author

aimeeyoung99

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