

# **U.S. Spaceports**

## **Online Reference Guide**

<https://nmsu.contentdm.oclc.org/digital/collection/NMSGCBOK>

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# Team Members

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# Presentation Overview

- Team Members
- U.S. Spaceports Online Reference Guide Overview
- Task 380 Description
- Research Methodology
- Emergence Database Queries & Search Results
- Usage Statistics
- Your Card
- Acknowledgements



# Project Overview, Details and why they Matter

- FAA Goal
- Task 380 Description
- Emergence Theory
- Why it Matters – Users are growing
- History of the Online Reference Guide
- Category 13

# U.S. Spaceports Online Reference Guide




U.S. Spaceports Online Reference Guide


Advanced Search   

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## U.S. SPACEPORTS ONLINE REFERENCE GUIDE



**About this collection**

Categories 1-12 are related to U.S. Spaceport Operations. Category 13 is a searchable database containing documents related to U.S. Spaceport Emergence events and activities.

- [1.0 LAUNCH OPERATIONS](#)
- [2.0 SITE SECURITY](#)
- [3.0 EMERGENCY RESPONSE](#)
- [4.0 VISITOR MANAGEMENT](#)
- [5.0 GROUND AND FLIGHT SAFETY](#)
- [6.0 ENVIRONMENTAL MANAGEMENT](#)
- [7.0 MISSION READINESS](#)
- [8.0 ITAR REQUIREMENTS](#)
- [9.0 INTERNATIONAL COORDINATION AMONG SPACEPORTS](#)
- [10.0 SELF-INSPECTION](#)
- [11.0 ACCIDENT THREAT CATEGORIES](#)
- [12.0 ACCIDENT GROUPINGS](#)
- [13.0 SPACEPORT EMERGENCE DATABASE](#)

[How to Operate and Navigate the Spaceport Emergence Database](#)

[Browse](#)

# Task 380 Description

## Find and Categorize Spaceport Related Emergence Incidents. Created a Data Base

2020-2021.

- Create: Spaceport Emergence Database and add to the U.S. Spaceports Online Reference Guide
  - Category 13
- Ongoing updates and maintenance of access to the U.S. Spaceports Online Reference Guide
  - <https://nmsu.contentdm.oclc.org/digital/collection/NMSGCBOK>
- Spaceport Incidents and Events

# Methodology

## Created a New: Category 13. Spaceport Emergence Database

**Interviewed:** 20 current and past U.S Spaceport CEOs and Executives. 450 pages of transcripts added.

**Tracked Down:** 300+ cited documents and added to the data base.

## 11 Database Topics

Legitimization; Finance; Governance; Market Creation; Workforce; Science and Technology R&D; Tech Development and Functions; Tech Standards, Innovation Network and Resource Channels; Spaceport Germination.

# Category 13 Overview

- The database is in Category 13 of the U.S. Spaceports Online Reference Guide
- Category 13 also has a document labeled “Instructions For the Spaceport Emergence Database”
- Category 13 contains incidents and events pertaining to the emergence of licensed spaceports in the U.S.
- All incidents are from interviews and documents provided by spaceport executives, research, and news articles
  - All incidents are cited
  - Audio recordings and transcripts are retained by NMSU



# Query Screen



## Spaceport Emergence Search Query

Incident Keyword Search

Location

Spaceport Description

Start Date of Incident

Agency

Missions Available

 ▼

End Date of Incident

Categorization

 ▼

Orbital/Sub-Orbital

 ▼

Categorize as an Event

Any  Yes  No

Descriptor

- Financial Arrangements
- Governance
- Human Competence Pool
- Innovation Network & Resource Channels
- Legitimization
- Market Creation & Consumer Demands
- N/A
- Other Uncategorized
- Scientific & Technical R&D
- Spaceport Germination
- Technological Development Functions
- Technology Standards

Recovery/Landing

 ▼

Simplified Description

Descriptor Continued

Orbital Capabilities

 ▼

Text Description

Grouping

Spaceport

 ▼

License Holder

U.S. Spaceports Online Reference Guide: <http://contentdm.nmsu.edu/cdm/landingpage/collection/NMSGCBOK>

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# Search Results - Partial

[Search Again](#)
[Download Data](#)

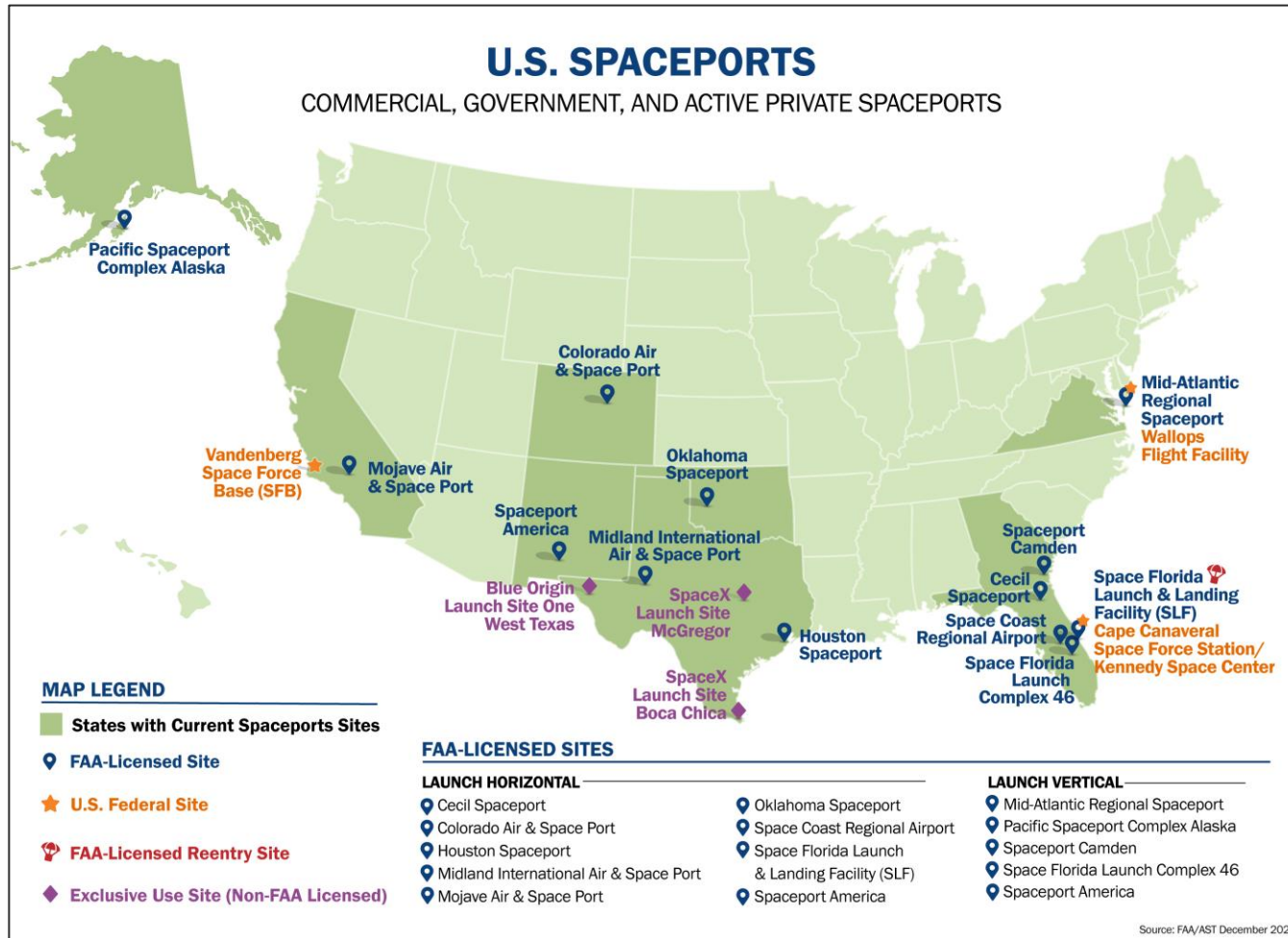
ID	Incident Name	Date of Incident ▲	Categorize as an Event	Simplified Description	Text Description	Spaceport	Location	Agency	Incident Classification	Incident Descriptor	Incident Descriptor Continued	Incident Grouping
263	Titusville Cocoa Airport Authority is Created	1/1/1963	No	Titusville Cocoa Airport Authority is Created to Operate the Airport Facilities.	Titusville Cocoa Airport Authority is Created to Operate the Airport Facilities.	Space Coast Regional Airport	Titusville, Florida	Titusville Cocoa Airport Authority	Spaceport Germination	N/A	N/A	Proprietary Functions
34	National Space Policy Adapted	7/4/1982	Yes	President Ronald Reagan adopts a new National Space Policy on July 4, 1982	President Reagan announced on July 4, 1982 that a National Space Policy will be adopted that will set the new direction of U.S. efforts in space for the next decade.	N/A	Washington, D.C.	FAA	Governance	U.S. Law, Regulation, Authorization	Spaceport Laws	Institutional Arrangements
32	National Security Council Issued Policy for ELV Commercialization	1/1/1983	No	The National Security Council Issued Policy for ELV (Evolving Launch Vehicle) Commercialization	The National Security Council issued a comprehensive policy for Evolving Launch Vehicle (ELV) commercialization in 1983.	N/A	N/A	FAA ; National Security Council	Governance	Norms & Rules	N/A	Institutional Arrangements
142	The Office of Commercial Space Transportation (AST) is established	1/1/1984	Yes	The Office of Commercial Space Transportation (AST) is established	The Office of Commercial Space Transportation (AST) is established as amended and re-codified at 51 U.S.C. 50901 – 50923) as part of the Office of the Secretary of Transportation within the Department of Transportation (DOT)	N/A	Washington D.C.	AST	Governance	U.S. Law, Regulation, Authorization	Spaceport Laws	Institutional Arrangements

# Overview: U.S. Spaceports Online Reference Guide

- 13 current categories in Spaceports Online Reference Guide
- 240 cited or linked documents
- Averages 4000 individual document opens per month. 2021 50,000+
- More than 210,000 document opens \*2015-present
- See 2021/22 stats below:

Month	Hits	Page Views	Visitors
Jan 2021	2,801	2,500	701
Feb 2021	3,842	3,272	647
Mar 2021	4,810	4,127	772
Apr 2021	4,128	3,710	863
May 2021	3,733	3,443	956
Jun 2021	4,000	3,557	796
Jul 2021	3,186	2,895	707
Aug 2021	4,776	4,504	988
Sep 2021	3,785	3,446	737
Oct 2021	8,239	7,830	1,008
Nov 2021	4,713	4,420	1,333
Dec 2021	2,474	2,463	916
<b>Total</b>	<b>50,487</b>	<b>46,167</b>	<b>10,424</b>
Jan 2022	6,793	6,580	822
Feb 2022	4,900	4,846	778
Mar 2022	5,564	5,400	1,032
<b>Total</b>	<b>17,257</b>	<b>16,826</b>	<b>2,632</b>

# FAA Licensed Spaceports



Spaceport Operator Licenses				
License	Operator	Site	Location	Expiration
LRSO 18-018 (PDF)	Space Florida	Cape Canaveral Spaceport/Shuttle Landing Facility	FL	Jan 15, 2026
LSO 02-007A (rev2) (PDF)	Virginia Commercial Space Flight Authority	Wallops Flight Facility	VA	Dec 18, 2022
LSO 03-008A (Rev 6) (PDF)	Alaska Aerospace Corporation	Pacific Spaceport Complex Alaska	AK	Sep 23, 2023
LSO 04-009 (Rev. 6) (PDF)	Mojave Air & Space Port	Mojave Air & Space Port	CA	Jun 16, 2024
LSO 06-010 (Rev. 3) (PDF)	Oklahoma Space Industry Development Authority	Clinton-Sherman Industrial Airpark	OK	Jun 4, 2026
LSO 08-011A (Rev 3.) (PDF)	New Mexico Spaceflight Authority	Spaceport America	NM	Dec 14, 2023
LSO 09-012 (Rev 2) (PDF)	Jacksonville Aviation Authority	Cecil Airport	FL	Jan 10, 2025
LSO 10-014 (Rev 1) (PDF)	Space Florida	Cape Canaveral Air Force Station	FL	Jul 1, 2025
LSO 14-015 (PDF)	Midland International Airport	Midland International Airport	TX	Sep 14, 2024
LSO 15-016 (Rev 1) (PDF)	Houston Airport System	Ellington Airport	TX	Jun 26, 2025
LSO 18-017 (PDF)	Adams County Colorado	Colorado Air & Space Port	CO	Aug 16, 2023
LSO 20-019 (PDF)	Titusville-Cocoa Airport Authority (TCAA)	Space Coast Regional Airport	FL	May 5, 2025
LSO 21-020 (PDF)	Camden County	Spaceport Camden	GA	Dec 20, 2026

Showing 1 to 13 of 13 licenses

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# Your Card

## U.S. Spaceports Online Reference Guide

<https://nmsu.contentdm.oclc.org/digital/collection/NMNMSGCBOK>

The Online Reference Guide is an evolving, searchable online database of documents & information supporting the development of space launch site interoperability.

Funded By:

The FAA Center of Excellence for Commercial Space Transportation

[www.coe-cst.org](http://www.coe-cst.org)



## Online Reference Guide Categories

<https://nmsu.contentdm.oclc.org/digital/collection/NMSGCBOK>

- |                                  |  |
|----------------------------------|--|
| 1.0 Airfield & Launch Operations | 8.0 ITAR Requirements                              |
| 2.0 Site Security                | 9.0 International Coordination<br>Among Spaceports |
| 3.0 Emergency Response           | 10.0 Self-Inspection                               |
| 4.0 Visitor Management           | 11.0 Accident Threat Category                      |
| 5.0 Ground & Flight Safety       | 12.0 Accident Grouping                             |
| 6.0 Environmental Management     | 13.0 Spaceport Emergence                           |
| 7.0 Mission Readiness            |  |

[www.coe-cst.org](http://www.coe-cst.org)



Resource for industry researchers, spaceport executives, proposal preparation, emerging spaceports , federal/state government officials & universities

# Thank You

For questions or input please contact:

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