

## Executive Summary

On April 24, 2024, a 1974 Learjet performed a sightseeing maneuver over downtown Salem at approximately 175 feet above ground level, passing just below the height of the Golden Pioneer statue on the State Capitol. This occurred during the noon hour, when downtown streets and offices were heavily populated.

Geospatial analysis of FAA ADS-B data shows the jet passed within:

- 107 feet of the Oregon Employment Department (875 Union St)
- 99 feet of the Department of Human Services (500 Summer St)
- 159 feet of the Department of Revenue (955 Center St)

Video reconstruction (6' 45"): <https://flightmonitor.org/cases/20240424/ig/A41151.mp4>

Noise measurement: [https://flightmonitor.org/cases/20240424/20240424\\_decibels.html](https://flightmonitor.org/cases/20240424/20240424_decibels.html)

Tower recording: [https://flightmonitor.org/cases/20240424/ig/atc\\_radio\\_20240424\\_1230.html](https://flightmonitor.org/cases/20240424/ig/atc_radio_20240424_1230.html)

Interactive map: [https://flightmonitor.org/cases/20240424/A41151\\_April\\_24\\_2024\\_Flight\\_Path.html](https://flightmonitor.org/cases/20240424/A41151_April_24_2024_Flight_Path.html)

Runway Approach Comparison:

[https://flightmonitor.org/cases/20240424/20250113\\_runway13\\_approach\\_comparisons.html](https://flightmonitor.org/cases/20240424/20250113_runway13_approach_comparisons.html)

3D Flight Paths:

[https://flightmonitor.org/cases/20240424/20240424\\_ClassD\\_A41151\\_Enttry.html#14.34/44.98228/-123.05771/-151.8/35](https://flightmonitor.org/cases/20240424/20240424_ClassD_A41151_Enttry.html#14.34/44.98228/-123.05771/-151.8/35)

## Concerns:

1. The flight entered restricted airspace without proper clearance.
2. Air traffic control simultaneously authorized a Cessna takeoff, apparently unaware of the Learjet's incursion.
3. To date, no FAA incident report is known to have been filed. FOIA requests for flight plan and ATC recordings were denied.

## Request of Commission:

- Review this incident formally and request clarification from the FAA.
- Consider whether additional local safeguards are warranted if Salem promotes increased jet traffic on Runway 13/31, which routes flights directly over downtown Salem, the State Capitol, and residential neighborhoods.

I stand ready to provide the Commission with my full analysis and supporting data.

## Appendix: Technical Support Materials

This appendix contains supporting materials documenting the incident, including geospatial calculations, complaint history, and noise data.

### A. Map

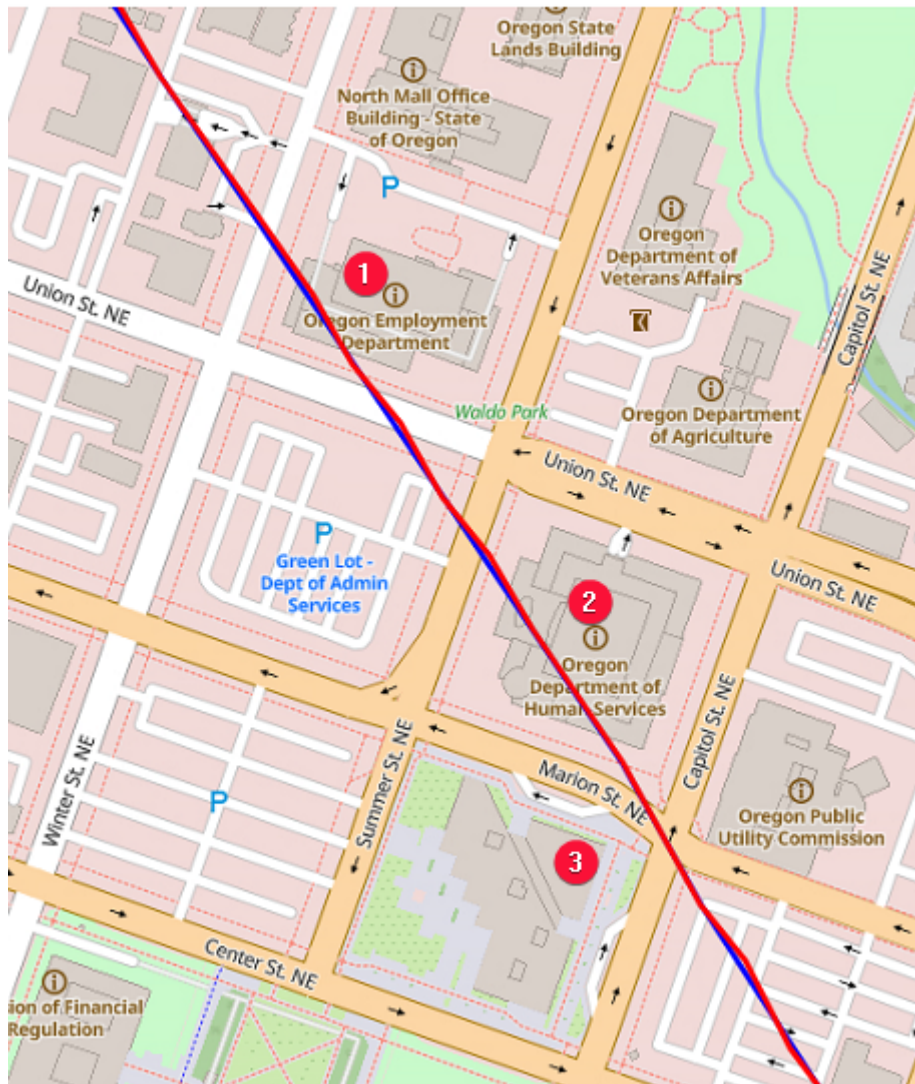


Figure 1: First Flyby Downtown Path Map

See also: [https://flightmonitor.org/cases/20240424/A41151\\_April\\_24\\_2024\\_Flight\\_Path.html](https://flightmonitor.org/cases/20240424/A41151_April_24_2024_Flight_Path.html)

# B. SQL-Based Geospatial Calculations

## Query

```
1 nenrad=#
2 WITH buildings AS (
3     -- Select buildings of interest and transform their geometry to SRID 26910
4
5     SELECT id, name, ST_Transform(geom, 26910) AS roof_26910
6     FROM poi
7     WHERE id IN (1059, 1077, 1078, 1080, 1081, 1082)
8     -- 1059 = Labor SW Corner Top Roof 1078 | OR Dept Human Services Rooftop
9     -- 1077 | Oregon Dept. of Revenue
10    -- 1078 | OR Dept Human Services Rooftop
11    -- 1080 | OR Energy Dept
12    -- 1081 | Heritage Grove Fed Credit Union
13    -- 1082 | Parke 325
14 ),
15 determine_point AS (
16     -- Compute the closest 3D point from Flight Path [fuselage] polyline (ID 1066) for each
building
17     SELECT DISTINCT ON (b.id)
18         b.id,
19         b.name,
20         ST_3DClosestPoint(
21             (SELECT ST_Transform(geom, 26910) FROM poi WHERE id = 1066),
22             b.roof_26910
23         ) AS new_26910
24     FROM buildings b
25 ),
26 determine_distance AS (
27     -- Compute the 3D distance between the new projected point and the building
28     SELECT
29         dp.id,
30         dp.name,
31         ST_3DDistance(dp.new_26910, b.roof_26910) AS distanceM
32     FROM determine_point dp
33     JOIN buildings b ON dp.id = b.id
34 )
35 -- Convert meters to feet and return final result
36 SELECT
37     ROUND(meter2feet(dd.distanceM)) AS "DistanceFT",
38     dd.id,
39     dd.name
40 FROM determine_distance dd
41 ORDER BY dd.id;
```

## Results

```
42
43 DistanceFT | id | name
44 -----+---+-----
45          107 | 1059 | Labor SW Corner Top Roof
46          159 | 1077 | Oregon Dept. of Revenue
47           99 | 1078 | OR Dept Human Services Rooftop
48          180 | 1080 | OR Energy Dept
49          150 | 1081 | Heritage Grove Fed Credit Union
50          221 | 1082 | Parke 325
51 (6 rows)
52
53 nenrad=#
```

## **C. FOIA & Complaint History**

- Complaint filed with City of Salem (dismissed April 25, 2024).
- Complaint filed with Mayor and Council (dismissed April 26, 2024).
- FAA complaint filed; Portland Standards Office dismissed despite FAA ADS-B data.
- FOIA requests for flight plan and ATC recordings denied.

## **D. Noise Data**

Decibel meter at residence registered 92 dB during first 'pop-up' pass.

[https://flightmonitor.org/cases/20240424/20240424\\_decibels.html](https://flightmonitor.org/cases/20240424/20240424_decibels.html)