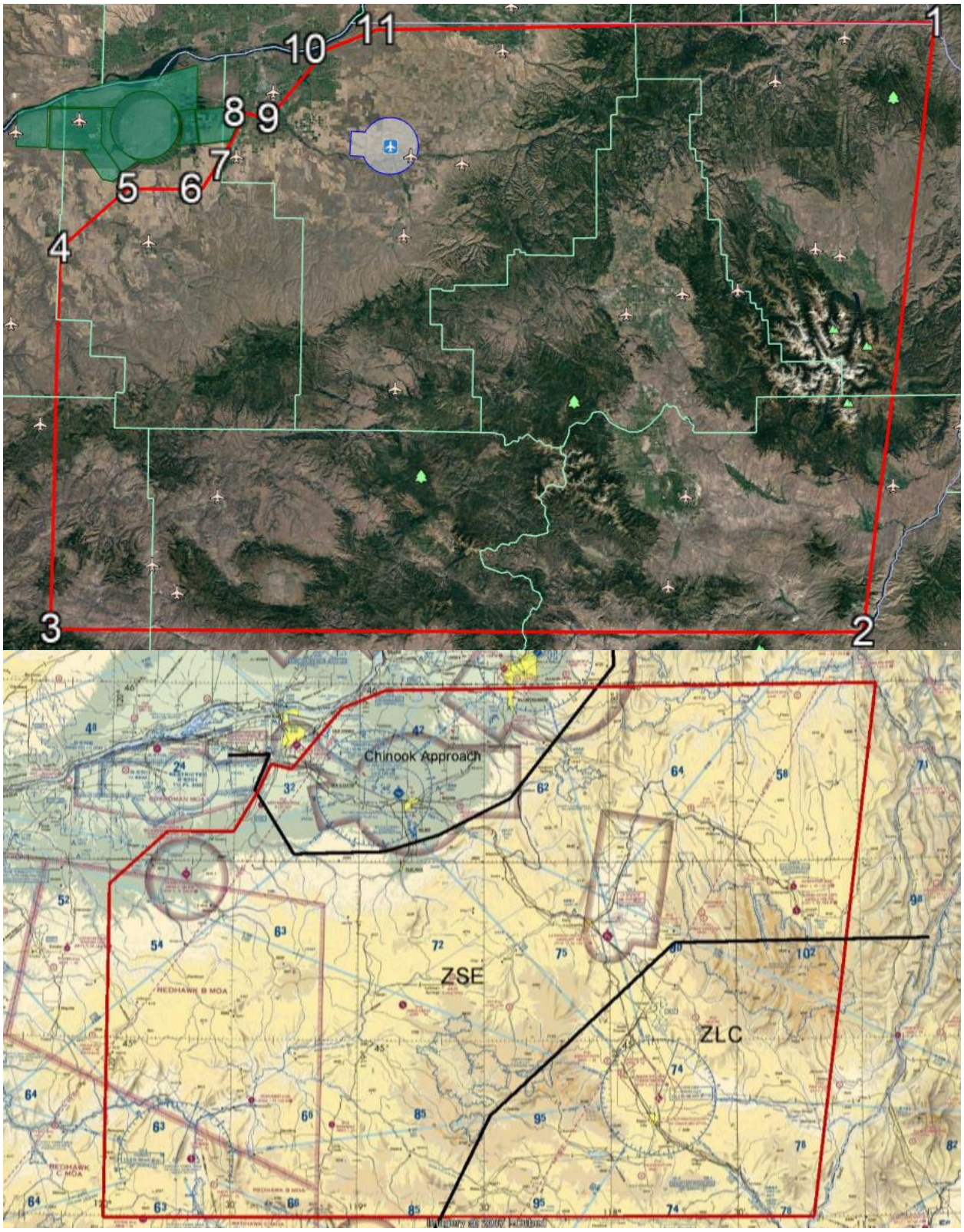
PUR Description of Research Project

American Aerospace has been working with energy companies on new technologies to improve infrastructure inspection. The purpose of this research project is to continue the testing of Unmanned Aerial Systems (UAS) carrying airborne sensors to inspect pipelines and facilities within the Pendleton UAS test range. The UAS being used for this project are larger and more complex than smaller drones that fall under FAA Part 107.

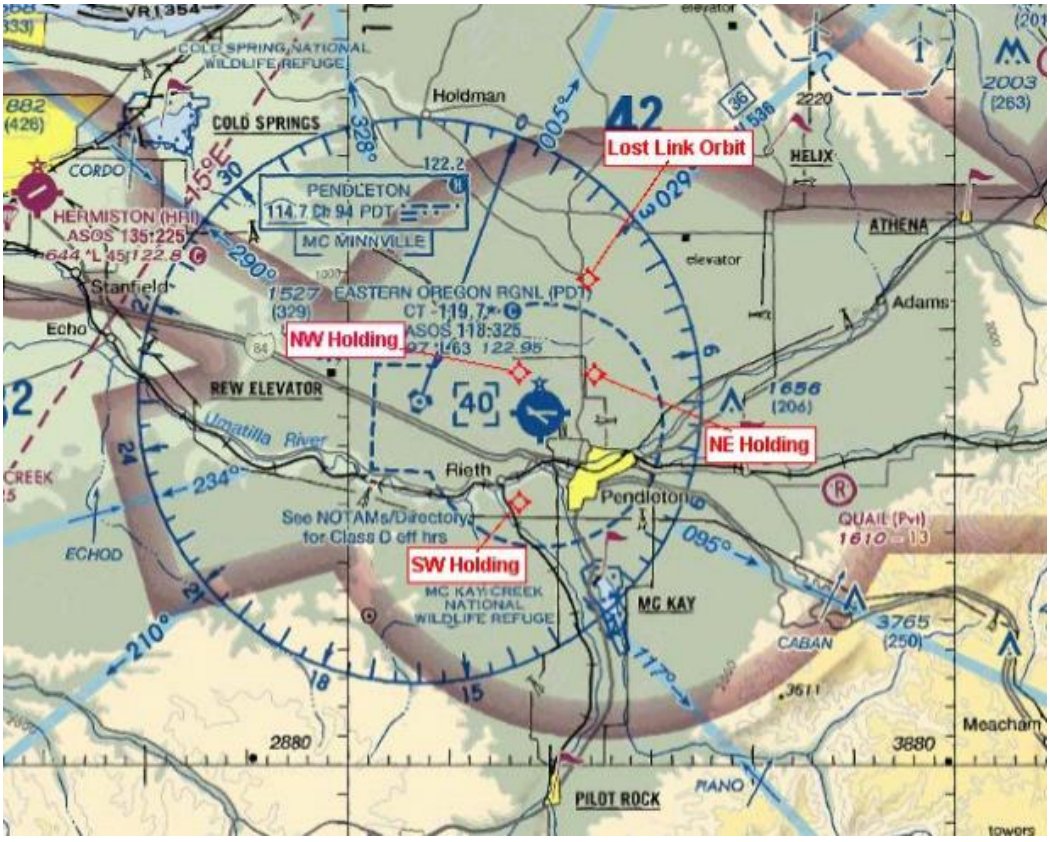
American Aerospace has been collaborating with the FAA on the use of RF spectrum for the purpose of UAS Command and Control (C2) links. For this license modification we are seeking FCC approval to add S Band (2360MHz – 2390MHz) and C Band (5350MHz – 5470MHz) using Persistent Systems radios.



Pendleton UAS Range (PUR)

13,664Mi²

Label	Location	
1	45° 59’ 57” N	116° 54’ 39” W
2	44° 30’ 01” N	117° 11’ 55” W
3	44° 29’ 48” N	119° 59’ 58” W
4	45° 26’ 00” N	120° 00’ 00” W
5	45° 35’ 00” N	119° 46’ 08” W
6	45° 35’ 05” N	119° 30’ 13” W
7	45° 42’ 13” N	119° 24’ 15” W
8	45° 46’ 32” N	119° 21’ 23” W
9	45° 45’ 39” N	119° 16’ 32” W
10	45° 56’ 00” N	119° 04’ 20” W
11	45° 59’ 00” N	118° 53’ 45” W



Hold Point	Location	
NW Hold	45° 43’ 32.00”N	118° 51’ 33.00”W
NE Hold	45° 43’ 30.00”N	118° 47’ 49.000”W
SW Hold	45° 39’ 05.00”N	118° 51’ 33.00”W
ALPHA	45° 42’ 11.62”N	118° 49’ 50.40”W
BRAVO	45° 42’ 10.02”N	118° 50’ 39.16”W
CHARLIE	45° 41’ 32.52”N	118° 50’ 1.85”W