

USAF Mid-Air Refueling Guide

The conduct of aerial refueling is based on the strict requirement that participating aircraft remain within specifically designated airspace. Air refueling operations are normally conducted on tracks or in anchor areas published in this document. There are certain mission requirements and operational considerations which may necessitate en-route refueling operations or the establishment of special tracks/anchors not published in this document. Aerial refueling operations will be conducted under instrument flight rules.

The tanker aircraft is responsible for requesting altitude clearance and routing (if different than flight plan routing) for the receiver and tanker aircraft beyond the AR exit point. Throughout the refueling operation, controller initiated heading assignments may not be effected without the concurrence of the tanker. Each aircraft must receive a specific clearance prior to leaving the refueling track/anchor. In the event of no clearance, the tanker(s) and receiver(s) will continue on the tanker's filed route and assigned block altitudes until a clearance to separate the flight can be obtained, or the aircraft will request an extension of the aerial refueling track.

**Track terminology:**

ARIP - Air Refueling Initial Point - A point located upstream from the ARCP at which the receiver aircraft initiates a rendezvous with the tanker. Descent to refueling altitude will be made between ARIP and ARCP.

ARCP - Air Refueling Control Point - The location where the tanker and receiver rendezvous is completed prior to refueling. Tankers orbit at this point.

EXIT - The point at which the refueling track terminates.

SCHEDULING UNIT - The military unit responsible for scheduling refueling operations. It provides daily schedules covering requested altitudes/flight levels and times of use for proposed operations to the assigned ARTCC.

ASSIGNED ARTCC - The FAA Air Traffic Control Center that controls the airspace within which the track is located.

SODAR - Simultaneous Opposite Direction Air Refueling.

**Anchor terminology:**

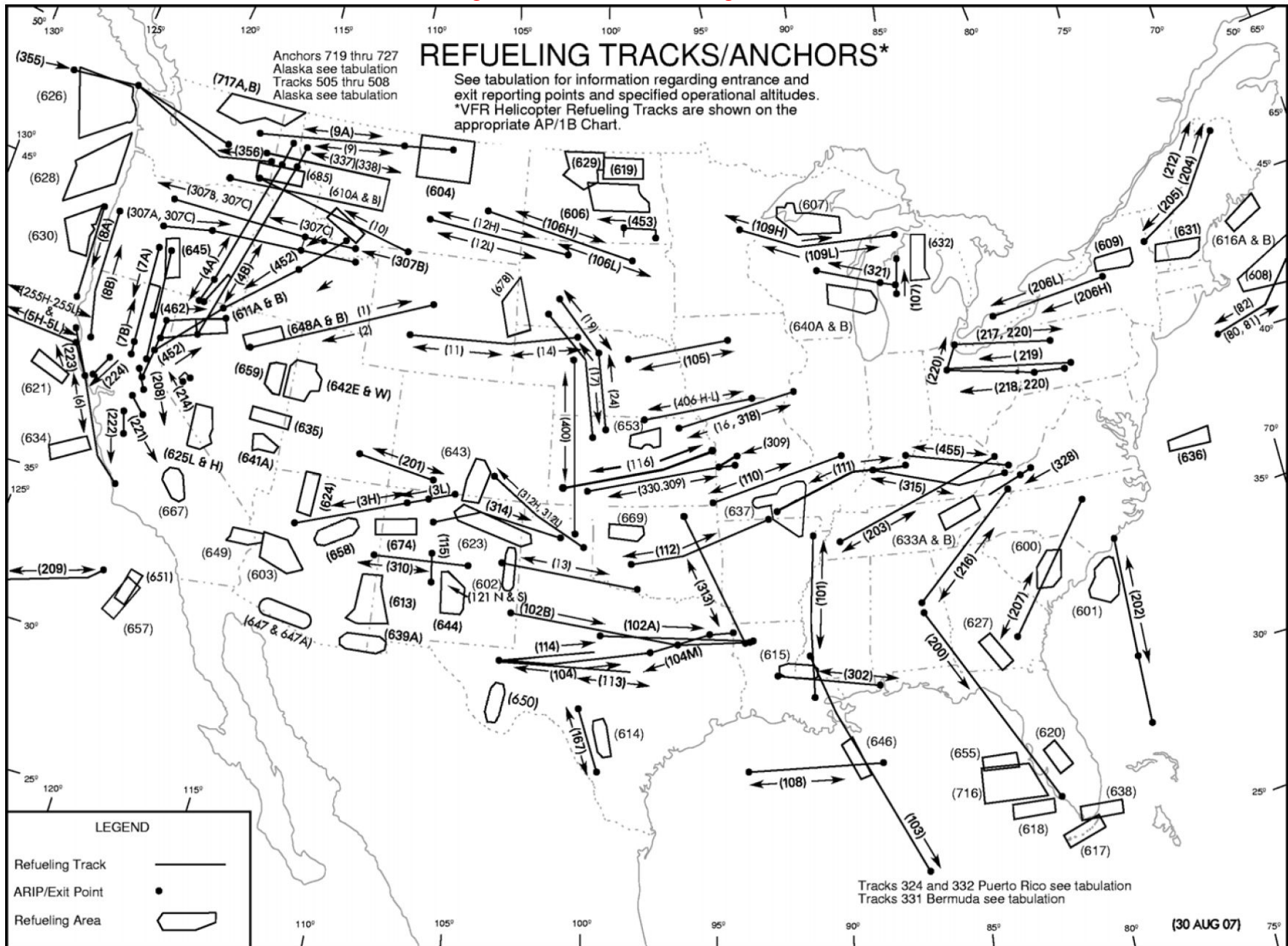
ENTRY POINTS - These are designated points where tanker aircraft may enter the anchor area without the assistance of radar. When either FAA Center Radar or Ground TAC Radar is operative, a tanker may proceed to the Anchor Point without crossing an Entry Point.

ANCHOR POINT - The geographical point upon which the anchor pattern is oriented.

ANCHOR PATTERN - A left-hand race track pattern with legs separated by a minimum of 20 NM and a minimum leg length of 50 NM.

EXIT POINTS - These are designated points where tanker and receiver aircraft may depart the anchor area after refueling is completed.

MILITARY RADAR - The call sign and frequencies of the military unit responsible for radar control of refueling operations within the anchor area. These are normally an ADCF (Air Defense Control Facility) or CRC/CRP (Control and Reporting Center/Post).



Track	Pri	Sec	FL	Scheduling Unit	ARTCC	Entry	Exit	Notes
001E	343.500	256.650	240/310	60 OSS/AO Travis AFB, CA	Salt Lake City	397.900	263.100	
002W	283.900	256.650	240/310	60 OSS/AO Travis AFB, CA	Salt Lake City	323.000	363.150	
003H E	265.050	271.650	240//270	60 OSS/AO Travis AFB, CA	Denver	386.800	290.400	Angles ARIP 323.200 East
003H W	265.050	271.650	240/270	60 OSS/AO Travis AFB, CA	Denver	386.800	323.200	Check Point 386.800 Los Angeles
003L	235.100	256.650	190/230	151 AREFG Salt Lake City	Denver	343.700	343.700	
004A N	344.700	292.600	280/310	366 OSS/OSOS Mt Home AFB ID	Seattle	290.500	251.100	Deconflicted w/SADDLE MOA via 190FS Boise ANG
004A S	344.700	292.600	280/310	366 OSS/OSOS Mt Home AFB ID	Seattle	251.100	290.500	Deconflicted w/SADDLE MOA via 190 FS Boise ANG
004B N	2351.00	292.600	280/310	366 OSS/OSOS Mt Home AFB ID	Seattle	290.500	251.100	
004B S	2351.00	292.600	280/310	366 OSS/OSOS Mt Home AFB ID	Seattle	251.100	290.500	
005H E	283.900	342.500	250/330	60 OSS/OSO Travis AFB CA	Oakland	306.200	133.375	
005H W	283.900	342.500	250/330	60 OSS/OSO Travis AFB CA	Oakland	306.200	133.375	
005L E/W	256.650	278.750	170/230	60 OSS/OSO Travis AFB CA	Oakland	387.100	134.150	
006 N	256.650	274.450	250/330	60 OSS/OSO Travis AFB CA	Oakland	290.500	290.300	
006 S	256.650	274.450	250/330	60 OSS/OSO Travis AFB CA	Oakland	290.300	290.500	
007A	276.500	256.650	240/310	60 OSS/OSO Travis AFB CA	Oakland	327.100	269.100	Exit via Seattle. Refuel Southbound
007B	236.650	256.650	240/310	60 OSS/OSO Travis AFB CA	Oakland	269.100	327.100	ARCP via Seattle. Refuel Northbound
008A	240.350	256.650	240/330	60 OSS/OSO Travis AFB CA	Seattle	360.700	360.700	Refuel Southbound
008B	305.500	256.650	240/330	60 OSS/OSO Travis AFB CA	Seattle	370.700	279.600	Refuel Northbound
009 E	238.900	292.600	240/270	120 FW Great Falls IAP MT	Salt Lake City	251.100	269.400	
009 W	238.900	292.600	240/270	120 FW Great Falls IAP MT	Salt Lake City	317.600	251.100	
009A E	238.900	292.600	240/270	120 FW Great Falls IAP MT	Salt Lake City	251.100	269.400	
009A W	238.900	292.600	240/270	120 FW Great Falls IAP MT	Salt Lake City	317.600	251.100	
010 NW	278.750	292.600	190/210	62 OSS/OSO McChord AFB WA	Salt Lake City	338.300	251.100	
010 SW	278.750	292.600	190/210	62 OSS/OSO McChord AFB WA	Salt Lake City	263.100	251.100	
011 E	235.100	320.900	230/260	28 OSS/OSXS Ellsworth AFB SD	Denver	385.600	338.200	
011 W	235.100	320.900	230/260	28 OSS/OSXS Ellsworth AFB SD	Denver	338.200	353.500	Salt Lake City Exit
012H E	352.600	320.900	270/310	28 OSS/OSXS Ellsworth AFB SD	Salt Lake City	272.750	317.500	Minneapolis Exit
012H W	352.600	320.900	270/310	28 OSS/OSXS Ellsworth AFB SD	Salt Lake City	272.750	351.900	
012L E	344.700	292.600	190/230	28 OSS/OSXS Ellsworth AFB SD	Salt Lake City	272.750	263.000	Minneapolis Exit
012L W	344.700	292.600	190/230	28 OSS/OSXS Ellsworth AFB SD	Salt Lake City	272.750	351.900	
013 E	238.900	260.200	240/310	2 OSS/OSOS Barksdale AFB LA	Fort Worth	381.600	285.600	
013 W	238.900	260.200	240/310	2 OSS/OSOS Barksdale AFB LA	Fort Worth	285.600	251.100	
014 E	336.100	359.100	190/220	28 OSS/OSXS Ellsworth AFB SD	Denver	239.000	269.600	
014 W	336.100	359.100	190/220	28 OSS/OSXS Ellsworth AFB SD	Denver	338.200	291.600	ARCP via Salt Lake City
016 E	343.500	319.700	240/260	1 ACCS Offutt AFB NE	Chicago	343.700	353.500	Exit via Kansas City
016 W	343.500	319.700	240/260	1 ACCS Offutt AFB NE	Chicago	370.900	343.700	ARCP via Kansas City
017 N	276.500	320.900	190/220	28 OSS/OSXS Ellsworth AFB SD	Denver	353.700	338.200	
017 S	276.500	320.900	190/220	28 OSS/OSXS Ellsworth AFB SD	Denver	338.200	353.700	
019 N	295.400	320.900	270/290	28 OSS/OSXS Ellsworth AFB SD	Denver	360.650	322.500	
019 S	295.400	320.900	270/290	28 OSS/OSXS Ellsworth AFB SD	Denver	322.500	260.650	
020 Alt	305.500	265.650	270/290	NEADS/DOAS Rome NY	Boston	294.500	266.300	Alternate for NE & SW
020 NE	341.750	349.700	150/280	NEADS/DOAS Rome NY	Boston	269.300	368.500	269.300/133.450 via Boston, 368.500/123.900 via Moncton
020 SW	341.750	349.700	150/280	NEADS/DOAS Rome NY	Boston	247.000	266.300	247.000/133.550 via Gander, 294.500/133.900 ARCP, 266.300/118.600 via Moncton
024 N/S	295.400	320.900	190/220	28 OSS/OSXS Ellsworth AFB SD	Denver	338.200	353.700	
062 E	242.050	243.450	210/280	NEADS/DOAS Rome NY	Gander/Montreal	132.900	135.400	Canada
062 W	242.050	243.450	210/280	NEADS/DOAS Rome NY	Gander/Montreal	135.400	132.900	Canada

Track	Pri	Sec	FL	Scheduling Unit	ARTCC	Entry	Exit	Notes
020 NE	373.600	343.500	180/280	EADS/DOAS Rome NY	Boston/Moncton		290.300	368.500 290.300/128.750 Boston, 368.500/123.900 Moncton
020 SW	373.600	343.500	180/280	EADS/DOAS Rome NY	Boston/Moncton		368.500	290.300 290.300/128.750 Boston, 368.500/123.900 Moncton
081	373.600	343.500	180/280	EADS/DOAS Rome NY	Boston	292.150	269.300	292.150/135.800, 269.300/133.450 W105/Pease/VACAPES 364.200
101 N	324.600	260.200	260/290	2 OSS/OSOS Barksdale AFB LA	Memphis	263.100	257.600	263.100/133.650, 257.600/132.375
101 S	324.600	260.200	260/290	2 OSS/OSOS Barksdale AFB LA	Memphis	322.350	263.100	322.350/133.075, 263.100/133.650 ARIP Entry-257.600/132.375
102A E	276.500	260.200	240/310	2 OSS/OSOS Barksdale AFB LA	Fort Worth	323.000	327.800	
102B	276.500	260.200	240/310	2 OSS/OSOS Barksdale AFB LA	Fort Worth	327.100	327.800	327.100/133.350 B-52 aircraft
103	327.600	260.200	240/260	55 OSS/OSKR Offutt AFB NE	Houston			Offutt AFB aircraft only
104 E	344.700	260.200	260/310	2 OSS/OSOS Barksdale AFB LA	Fort Worth	269.000	269.000	NAS Fort Worth/Brownwood MOA coordinated
104 W	344.700	260.200	260/310	2 OSS/OSOS Barksdale AFB LA	Fort Worth	351.900	351.900	NAS Fort Worth/Brownwood MOA coordinated
104M	344.700	260.200	260/310	2 OSS/OSOS Barksdale AFB LA	Fort Worth	322.450		B52 aircraft
105 E/W	238.900	320.900	190/330	55 WG Offutt AFB NE	Minneapolis	269.000	269.000	
106H E	295.800	320.900	260/310	5 BMW Minot AFB ND	Minneapolis	269.400	306.200	
106H W	295.800	320.900	260/310	5 BMW Minot AFB ND	Minneapolis	306.200	269.400	
106L E	305.500	320.900	170/230	5 BMW Minot AFB ND	Minneapolis	269.400	306.200	
106L W	305.500	320.900	170/230	5 BMW Minot AFB ND	Minneapolis	306.200	269.400	
107	324.600	282.700	140/230	110 FG/DO MIAANG Battle Creek	Minneapolis	353.600	353.600	
108 E	348.900	260.200	180/230	433 OSS/OSC Lackland AFB TX	Houston	306.300	269.500	ARCP: 132.650/133.400/306.300, EXIT: 133.850/269.500
108 W	348.900	260.200	180/230	433 OSS/OSC Lackland AFB TX	Houston	269.500	306.300	ARCP: 132.650/133.850/269.500, EXIT: 133.400/306.300
109H E/W	343.500	320.900	250/310	55 OSS/OSKR Offutt AFB NE	Minneapolis	327.100	327.100	
109L E/W	327.600	320.900	190/230	55 OSS/OSKR Offutt AFB NE	Minneapolis	327.100	327.100	
110 E	327.600	319.700	240/270	509 OSS Whiteman AFB MO	Kansas City	277.400	319.000	
110 W	327.600	319.700	240/270	509 OSS Whiteman AFB MO	Kansas City	319.000	277.400	
111 E	348.900	319.700	250.290	552 OSS Tinker AFB OK	Memphis	257.600	288.350	ARCP: 132.375/257.600, EXIT: 124.275/288.350 552 ACW Only
111 W	348.900	319.700	250.290	552 OSS Tinker AFB OK	Memphis	354.100	288.350	ARCP: 122.275/354.150, EXIT: 124.275/288.350 552 ACW Only
112H E	235.100	260.200	240/310	VQ3 Tinker AFB OK	Fort Worth	363.100	353.800	
112H W	235.100	260.200	240/310	VQ3 Tinker AFB OK	Fort Worth	353.800	363.100	Memphis ARCP
112L E	295.800	260.200	190/230	917OSF Barksdale AFB LA	Fort Worth	363.100	353.800	Memphis Exit 917 WG Only
112L W	295.800	260.200	190/230	917OSF Barksdale AFB LA	Memphis	353.800	363.100	Forth Worth ARCP 917 WG Only
113 E	283.900	260.300	190/230	7 OSS Dyess AFB TX	Houston	269.000	269.400	7 BW Priority
113 W	283.900	260.300	190/230	7 OSS Dyess AFB TX	Houston	269.400	353.600	7 BW Priority. Albuquerque Exit
114	366.300	260.200	190/230	7 OSS Dyess AFB TX	Fort Worth	360.800	343.600	7 BW Priority. Exit via Albuquerque
115			080/090	58 OSS Kirtland AFB NM	Albuquerque	307.200	307.200	128.800/307.200
116 E	366.300	260.200	012/220	2 OSS Barksdale AFB LA	Kansas City	269.400	343.700	
116 W	366.300	260.200	012/220	2 OSS Barksdale AFB LA	Kansas City	363.200	269.400	
121 N	229.500	258.200	015/290	49 OSS Holloman AFB NM	Albuquerque			49 FW
121 S	229.500	258.200	015/290	49 OSS Holloman AFB NM	Albuquerque			49 FW
167 N	235.100	260.200	260/310	149 FG/DOOS Kelly AFB TX	Houston	323.100	380.200	
167 S	235.100	260.200	260/310	149 FG/DOOS Kelly AFB TX	Houston	380.200	323.100	
200	235.100	319.700	240/260	6 OSS MacDill AFB FL	Miami	307.200	290.500	6 AMW aircraft priority

Track	Pri	Sec	FL	Scheduling Unit	ARTCC	Entry	Exit	Notes
201 E	336.100	319.500	190/230	7 OSS/OSTA Dyess AFB TX	Salt Lake City	271.200	343.700	Exit via Denver
201 W	336.100	319.500	190/230	7 OSS/OSTA Dyess AFB TX	Denver	343.700	271.200	Exit via Salt Kale City
202 AN	327.600	343.250	250/280	437 OSS Charelston AFB SC	Jacksonville	327.100	317.400	Alt 134.85/327.1 135.05/317.4 128.65/343.7 133.65/348.7 132.15/307.8
202 N	327.600	343.250	250/280	437 OSS Charleston AFB SC	Jacksonville	307.800	317.400	135.050/317.400
202 S	327.600	343.350	250/280	437 OSS Charleston AFB SC	Jacksonville	317.400	327.100	134.850/327.100
203 NE	238.900	319.700	270/310	2 OSS Barksdale AFB LA	Memphis	354.000	338.300	
203 SW	238.900	319.700	270/310	2 OSS Barksdale AFB LA	Memphis	338.300	354.000	
204 NE	324.600	282.700	240/260	305 OSS McGuire AFB NJ	Boston	282.200	319.100	
204 SW	324.600	282.700	240/260	305 OSS McGuire AFB NJ	Boston	319.100	380.300	
205	327.600	282.700	280/310	305 OSS McGuire AFB NJ	Boston	319.100	380.300	
206H	348.900	282.700	250/310	305 OSS McGuire AFB NJ	Boston	323.000	354.100	ARCP via Cleveland
206L	235.100	282.700	190/230	305 OSS McGuire AFB NJ	Boston	323.000	307.800	ARCP via Cleveland
207 NE	324.600	343.250	260/280	437 OSS Charleston AFB SC	Jacksonville	319.200	352.000	
207 SW	324.600	343.250	260/280	437 OSS Charleston AFB SC	Jacksonville	352.000	346.300	
208	SQ Tac	SQ Tac	060/080	129 RQW Moffett Arfld CA	Sacramento	340.900	340.900	Via Tracon 119.100 / 340.900 & ARINC contact
209	238.900	256.650	230	452 AMW OSS March AFB CA	Los Angeles			
212 NE	238.900	282.700	190/220	305 OSS McGuire AFB NJ	Boston	282.200	345.400	
212 SW	238.900	282.700	190/220	305 OSS McGuire AFB NJ	Boston	319.100	380.300	
214	SQ Tac	SQ Tac	015/017	NAS Fallon Range NV	Oakland			Navy Fallon 263.600 entry/exit
216 NE	276.500	343.250	260/280	437 OSS Charleston AFB SC	Atlanta	363.100	257.900	
216 SW	276.500	343.250	260/280	437 OSS Charleston AFB SC	Atlanta	257.900	316.100	
217	283.900	282.700	160/220	171 ARW Pittsburg PA	Cleveland	298.950	294.650	
218	274.450	282.700	190/220	171 ARW Pittsburg PA	Cleveland	299.200	379.200	
219	305.500	282.700	260/290	171 ARW Pittsburg PA	Cleveland	363.100	288.300	
220	274.450	282.700	190/220	171 ARW Pittsburg PA	Cleveland	299.200	291.650	
221	SQ Tac	SQ Tac	006/010	129 RQW Moffett Federal CA	Oakland	319.900	319.900	C-130/129 RQW Helo air refuel only
222	SQ Tac	SQ Tac	005/010	129 RQW Moffett Federal CA	Oakland	263.100	357.600	Stockton Approach 120.950/294.500
223	SQ Tac	SQ Tac	005//010	129 RQW Moffett Federal CA	Oakland	353.500	281.400	
224	SQ Tac	SQ Tac	007/009	129 RQW Moffett Federal CA	Oakland	281.400	353.500	
233 E	265.050	271.650	240/260	60 OSS/OSO Travis AFB CA	Denver	386.600	290.400	Los Angeles ARIP 323.300
233 W	265.050	271.650	240/260	60 OSS/OSO Travis AFB CA	Denver	386.800	323.200	Los Angeles ARIP 290.400
255H	283.900	365.775	250/330	60 OSS/OSO Travis AFB CA	Oakland	306.200	133.375	
255L	327.600	365.775	170/230	60 OSS/OSO Travis AFB CA	Oakland	387.100	134.150	
302 E	278.750	260.200	Multi	Hurlburt FL / Barksdale AFB	Houston	285.600	288.150	ARCP: 285.600/119.725, Exit: 288.150/127.650
302 E	278.750	260.200	Multi	Hurlburt FL / Barksdale AFB	Houston	343.950	322.400	ARCP: 343.950/133.500, Exit: 322.400/125.775
302 W	278.750	260.200	Multi	Hurlburt FL / Barksdale AFB	Houston	285.600	299.600	ARCP: 285.600/119.725, Exit: 299.600/120.975
302 W	278.750	260.200	Multi	Hurlburt FL / Barksdale AFB	Houston	343.950	348.750	ARCP: 343.950/133.500, Exit: 348.750/132.700
307A	264.900	238.900	190/220	62 OSS McChord AFB WA	Seattle	288.100	338.300	(East)
307B	264.900	238.900	190/220	62 OSS McChord AFB WA	Seattle	338.300	257.600	(West)
307C	264.900	238.900	190/220	62 OSS McChord AFB WA	Seattle	288.100	257.600	
309 E	283.900	260.200	270/300	509 OSS Whiteman AFB MO	Kansas City	263.100	279.600	
309 W	283.900	260.200	270/300	509 OSS Whiteman AFB MO	Kansas City	285.400	263.100	
310 E	352.600	319.500	210/290	49 OSS Holloman AFB NM	Albuquerque	251.150	284.600	ARCP: 307.200
310 W	352.600	319.500	210/290	49 OSS Holloman AFB NM	Albuquerque	284.600	251.150	Exit: 307.200
312H	284.075	312.225	240/260	97 OSS Altus AFB OK	Albuquerque	351.700	351.700	97 AMW Priority
312L	291.900	260.200	200/220	97 OSS Altus AFB OK	Albuquerque	351.700	351.700	97 AMW Priority
313 N	352.600	260.200	180/220	97 OSS Altus AFB OK	Fort Worth	285.500	291.700	97 AMW Priority

Track	Pri	Sec	FL	Scheduling Unit	ARTCC	Entry	Exit	Notes
313 S	352.600	260.200	180/220	97 OSS Altus AFB OK	Fort Worth	291.700	285.500	97 AMW Priority
313A N	352.600	260.200	190/220	97 OSS Altus AFB OK	Houston	278.550	291.700	Exit via Fort Worth
313A S	352.600	260.200	190/220	97 OSS Altus AFB OK	Fort Worth	291.700	278.550	Exit via Houston
314 E	295.800	319.500	240/310	552 OSS Tinker AFB OK	Albuquerque	239.250	351.700	ARCP: 239.250 346.350, Exit: 351.700 385.650, 552 ACW Only
314 W	295.800	319.500	240/310	552 OSS Tinker AFB OK	Albuquerque	351.700	239.250	ARCP: 351.700 385.650, Exit: 239.250 346.350, 552 ACW Only
315 E	343.250	236.650	190/220	121 ARW Rickenbacker OH	Indianapolis	353.650	257.850	
315 W	343.250	236.650	190/220	121 ARW Rickenbacker OH	Indianapolis	317.600	291.625	
318 E	240.350	260.200	190/220	126 <sup>th</sup> ARW Illinois ANG	Chicago	343.700	353.500	
318 W	240.350	260.200	190/220	126 <sup>th</sup> ARW Illinois ANG	Chicago	370.900	343.700	
321	276.500	282.700	250/180	128 <sup>th</sup> ARW WI ANG Milw WI	Minneapolis	263.000	263.000	
324	327.600	343.250	200/250	156 AW PRANG Carolina PR	San Juan			
328	235.100	343.250	180/230	134 <sup>th</sup> ARW McGhee Tyson ANGB	Atlanta	319.900	319.900	
330E	305.500	260.200	180/220	190 ARW KANG Forbes Fld KS	Kansas City	337.400	327.000	
330W	305.500	260.200	180/220	190 ARW KANG Forbes Fld KS	Kansas City	327.000	269.400	
332	235.100	343.250	200/250	156 AW PRANG Carolina PR	San Juan			
337	282.000	305.350	210/230	62 OSS McChord AFB WA	Seattle	119.225	119.225	
338	282.000	305.250	210/230	62 OSS McChord AFB WA	Seattle	119.225	119.225	
355	320.900	238.900	260/280	55 OSS Offutt AFB NE	Seattle			Operational track
356	320.900	238.900	260/280	55 OSS Offutt AFB NE	Seattle			Operational track
400 N	228.250	364.325	240/260	97 OSS Altus AFB OK	Kansas City	281.400	397.850	Exit via Kansas City
400 S	228.250	364.325	240/260	97 OSS Altus AFB OK	Denver	288.350	387.100	Exit via Denver
406H E	396.200	297.300	260/280	55 OSS Offutt AFB NE	Minneapolis	307.200	284.625	ARCP: 135.100/307.200, Exit: 132.725/284.625
406H W	396.200	297.300	260/280	55 OSS Offutt AFB NE	Minneapolis	307.200	307.200	ARCP & Exit: 135.100/307.200
406L E	297.300	396.200	200/220	55 OSS Offutt AFB NE	Minneapolis	346.300	290.400	ARCP: 128.750/346.300, Exit: 119.600/290.400
406L W	297.300	396.200	200/220	55 OSS Offutt AFB NE	Minneapolis	346.300	346.300	ARCP & Exit: 128.750/346.300
452 NE	361.700	284.600	240/260	366 OSS Mt Home AFB ID	Oakland	269.000	290.500	Exit via Salt Lake City
452 SW	361.700	284.600	240/260	366 OSS Mt Home AFB ID	Salt Lake City	290.500	269.000	Exit via Oakland
453	291.900	320.900	210/330	55 WG Offutt AFB NE	Minneapolis	270.300	270.300	
455 E	336.100	291.9000	250.270	552 OSS Tinker AFB OK	Indianapolis	293.225	290.550	
455 W	336.100	291.9000	250.270	552 OSS Tinker AFB OK	Indianapolis	290.550	377.125	
505 E	315.900	263.900	210/260	168 ARS Eielson AFB AK	Anchorage	353.800	285.400	ARCP: 128.100/353.800, ARIP: 125.200/372.000, Exit: 133.100/385.400
505W	315.900	263.900	210/260	168 ARS Eielson AFB AK	Anchorage	285.400	353.800	ARCP: 133.100/285.400, ARIP: 135.000/284.700, Exit: 128.100/353.800
506 N	288.800	263.900	240/310	168 ARS Eielson AFB AK	Anchorage	323.000	323.000	ARCP & Exit: 127.100/323.000
506 S	288.800	263.900	240/310	168 ARS Eielson AFB AK	Anchorage	323.000	263.100	ARCP: 127.100/323.000, Exit: 127.100/323.000 119.000/263.100
507 E	270.200	263.900	240/270	168 ARS Eielson AFB AK	Anchorage	269.400	335.500	ARCP: 133.600/269.400, Exit: 126.600/335.500
507 W	270.200	263.900	240/270	168 ARS Eielson AFB AK	Anchorage	335.500	269.400	ARCP: 126.600/353.500, Exit: 133.600/269.400
508E	288.800	263.900	240/290	168 ARS Eielson AFB AK	Anchorage	288.300	288.300	ARCP & Exit: 132.900/288.300
508W	288.800	263.900	240/290	168 ARS Eielson AFB AK	Anchorage	288.300	338.300	ARCP: 132.900/288.300, ARIP: 132.900/288.300, Exit: 127.800/338.300
600	348.900	319.700	240/280	20 OSS Shaw AFB SC	Jacksonville	319.200	319.200	
601	283.900	319.700	016/260	20 OSS Shaw AFB SC	Jacksonville	381.400	381.400	Freemason: Primary 286.700 Secondary 321.200 or asnd
602	295.400	319.500	009/014	27 <sup>th</sup> SOS Cannon AFB NM	Cannon RAPCON	307.175	307.175	
603	238.900	319.500	240/280	56 RMO Luke AFB AZ	Albuquerque	285.400	285.400	O'Grady Primary 321.200 Secondary 286.200 or asnd

Track	Pri	Sec	FL	Scheduling Unit	ARTCC	Entry	Exit	Notes
604	276.500	292.600	200/330	120 FW Great Falls MT	Salt Lake City	285.400	285.400	Bearpaw ATCAA
606	366.300	320.900	240.270	119 WG Fargo ND	Minneapolis	270.300	270.300	Bigfoot AICC 364.200 or assigned
607	235.100	320.900	>180	148 FG Duluth MN	Minneapolis	269.000	269.000	
608	343.500	282.700	180/230	NEADS Rome NY	Boston	307.300	307.300	Huntress Primary 364.200
609	276.500	282.700	180/280	NEADS Rome NY	Boston	323.000	323.000	Huntress Primary 364.200
610A/B	295.400	292.600	190/260	120 FW Great Falls MT	Salt Lake City	338.300	338.300	
AR611A/B	255.750	275.950	190/260	366 OSS Mt Home AFB ID	Salt Lake City	380.050	380.050	
613	282.550	319.500	180/280	162 FW AZ ANG Tucson AZ	Albuquerque	327.150	281.500	Blw FL240 Exit 317.150 Morenci/RESrv ATCAA
614	352.600	260.200	260/270	99 FTS Randolph AFB TX	Houston	385.550	385.550	
615	295.400	260.200	012/015	16 SOW Hurlburt Fld FL	Houston			
616A/B	283.900	282.700	180/230	NEADS Rome NY	Boston	269.600	269.600	
617	324.600	343.250	260/290	347 RW MacDill AFB FL	Miami	281.400	281.400	
618	348.900	343.250	260/290	347 RW MacDill AFB FL	Miami	363.100	363.100	
619	238.900	320.900	240/260	119 WG Fargo ND	Minneapolis	270.300	270.300	Big Foot Primary 364.300 or assigned
620	238.900	343.250	190/220	347 RW MacDill AFB FL	Miami	349.000	349.000	
621	344.700	319.500	190/250	FASFAC San Diego	Oakland	335.600	335.600	Big Foot Primary 364.200 or assigned
623	359.100	319.500	190/220	7 OSS Dyess AFB TX	Albuquerque	346.350	351.700	B1 aircraft and tankers priority
624	366.300	319.500	190/220	57 OSS Nellis AFB NV	Los Angeles	343.600	306.300	ARCP: 124.200/343.600, Exit: 135.250/306.300
625H	295.800	319.500	230/250	57 OSS Nellis AFB NV	Oakland	319.800	319.800	
625L	291.900	319.500	180/210	57 OSS Nellis AFB NV	Oakland	319.500	319.800	
626	235.100	292.600	250/270	NAS Whidbey Island WA	Seattle	319.200	269.000	Big Foot Primary 364.200 or assigned
627	352.600	319.700	200/230	23 OSS Moody AFB GA	Jacksonville	379.200	379.200	Valdosta RAPCON: 119.525/259.300
628	343.500	292.600	240/260	WAD Sector McChord AFB WA	Seattle	379.600	379.600	Long Racks Primary 337.400 Secondary 253.400
629	296.000	360.900	014/230	23 BW Minor AFB SD	Minot RAPCON	363.800	363.800	119.600/363.800, Minneapolis: 127.600/279.600
620	238.900	292.600	250/280	WAD Sector McChord AFB WA	Seattle	360.700	360.700	Big Foot Primary 252.000 Secondary 364.200
631	295.800	282.700	200/260	NEADS Rome NY	Boston	348.700	348.700	Footrope Primary 301.600 314.200
632	238.900	282.700	220/270	Alpena CRTCC MI	Minneapolis			Black Talon: 234.100 Steelgate: 385.700 381.100 40.45 40.65 (FM) Exit: 272.700
633A/B	240.350	343.250	180.230	134 <sup>th</sup> ARW Knoxville TN	Atlanta	254.300	254.300	Exit: 343.800, Big Foot primary 364.200 or asngd
634	235.100	319.500	180/310	FACSFAC San Diego CA	Oakland	343.800	290.500	
635	352.600	319.500	190/260	57 OSS Nellis AFB NV	Salt Lake City	360.800	360.800	
636	238.900	319.700	200/290	1 <sup>st</sup> FW Langley AFB VA	Washington	306.900	306.900	Giant Killer: 118.125/238.100 Pyramid: 381.100 390.000 Oak Grove: 364.200
637	291.900	319.700	190/230	131 <sup>st</sup> FG MOANG St Louis MO	Kansas City	317.500	317.500	
638	324.600	343.250	260/290	347 RW MacDill AFB FL	Miami	323.000	323.000	
639/A	291.900	319.500	013/280	355 WG Davis-Monthan AFB AZ	Albuquerque	127.950	281.500	ARCP: 133.000, Exit: 327.150
640A	305.500	320.900	>180	CRTCC Volk Field WI	Chicago/WIANG	346.525	346.525	Brochure Primary 298.775 Secondary 283.775
640B	291.900	320.900	>180	CRTCC Volk Field WI	Chicago/WIANG	346.525	346.525	Brochure Primary 298.775 Secondary 283.775
641A	295.400	319.500	120/230	554 RS Nellis AFB NV	Los Angeles	343.600	343.600	Caliente and Desert MOA's
642E/W	291.650	319.500	170/280	388 RANS/RST Hill AFB UT	Salt Lake City			Clover Control Primary 363.500 Secondary 134.100 Primary Boom 305.500 Primary 361.400 Secondary 395.100 or assigned
643	279.800	260.200	200/230	140 TFW CO	Denver	335.500	317.500	
644 N	324.400	319.500	200.260	49 OSS Holloman AFB NM	Albuquerque	257.600	257.500	
644 S	324.400	319.500	200.260	49 OSS Holloman AFB NM	Albuquerque	284.000	257.600	
645	324.400	292.600	200/230	114 FS Kingsley Fld OR	Seattle	351.700	351.700	Big Foot Primary 252.000 Secondary 364.200
646	238.900	260.200	240.260	552 OSS Tinker AFB OK	Houston			Entry via Houston
647L	283.900	319.500	100/170	56 RMO Luke AFB AZ	Albuquerque			MRU Primary 120.500/264.700 Gila Bend Range 120.550/264.125

Track	Pri	Sec	FL	Scheduling Unit	ARTCC	Entry	Exit	Notes
647M	295.400	319.500	180/230	56 RMO Luke AFB AZ	Albuquerque			MRU Primary 120.500/264.700 Gila Bend Range 120.550/264.125
647H	283.900	319.500	240/290	56 RMO Luke AFB AZ	Albuquerque			MRU Primary 120.500/254.500 Gila Bend Range 120.550/264.125
647A	283.900	319.500	100/140	56 RMO Luke AFB AZ	Albuquerque			Sells MOA / Gila Bend Range 120.550/264.125
648A/B	238.900	256.650	190/230	151 AREFG Salt Lake City UT	Salt Lake City	269.000	363.150	
649	286.300	319.500	080/220	755 OSS Davis-Monthan AFB AZ	Los Angeles			Turtle MOA / MCAS Yuma
650	295.800	260.200	180/290	47 FTW Laughlin AFB TX	Albuquerque			
651	276.500	319.500	200/260	FACSFAC San Diego CA	Los Angeles	338.300	338.300	Beaver Control primary 289.900 Secondary 120.850 or assigned W291
652N/S	249.525	255.775	120/180	49 OSS Holloman AFB NM	Albuquerque	343.600	343.600	
653	324.600	260.200	180/220	190 ARW KANG Forbes Fld KS	Kansas City	363.200	363.200	Jayhawk Primary 228.950 Secondary 303.000
654	341.400	260.200	100/160	WADS McChord AFB WA	Seattle			
655	276.500	343.250	200/280	347 RW MacDill AFB FL	Miami	307.300	304.300	Alleycat 364.100
657			200/260	FACSFAC San Diego CA	Beaver Control	289.900	118.650	
658 L	391.800	318.000	180/230	56 OSS Luke AFB AZ	Albuquerque			Backup Primary 347.200
658 H	286.200	384.600	240.290	56 OSS Luke AFB AZ	Albuquerque			Entry/Exit via Rendezvous Control.
659	305.500	319.500	180.280	388 RANS Hill AFB UT	Salt Lake City	291.650	291.650	Clover Primary 363.500 Secondary 134.100
667	318.000	264.900	080/190	CSFWP Lemoore NAS CA	Lemoore RATCF		286.000	286.000 CSFWP Squadrons Only
669	394.900	384.600	250/270	71 OSS Vance AFB OK	Kansas City	263.100	263.100	133.200/263.100
672	249.500	310.425	090/140	27 SOSS Cannon AFB NM	Albuquerque	351.700	351.700	127.850/351.700 Mt Dora MOA
674	341.400	260.200	120.160	58 OSS Kirtland AFB NM	Albuquerque	307.200	307.200	128.800/307.200
678	280.400	377.700	190/260	28 OSS Ellsworth AFB SD	Denver	338.200	338.200	
685	282.000	305.350	210/230	62 OSS McChord AFB WA				C-17 and Tankers only
716	283.900	342.550	220/280	347 RW MacDill AFB FL	Miami	363.100	363.100	W168 Barrie 325.800 Alleycat 364.100
717A/B	283.900	292.600	250/280	NAS Whidbey Island WA	Seattle	291.600	291.600	Big Foot (WADS) 271.000
719	270.200	263.900	140/290	354 OSS Eielson AFB AK	Anchorage	284.700	284.700	Top Rocc Primary 269.900 Secondary 126.200/364.200
720 NE	276.700	263.900	240/290	354 OSS Eielson AFB AK	Anchorage	360.800	360.800	Top Rocc Primary 269.900 Secondary 126.200/364.200
720 SW	276.700	263.900	240/290	354 OSS Eielson AFB AK	Anchorage	360.800	269.000	Top Rocc Primary 269.900 Secondary 126.200/364.200
721	270.200	263.900	240/290	3 OSS Elmendorf AFB AK	Anchorage	354.000	354.000	Top Rocc Primary 269.900 Secondary 126.200/364.200
722	276.700	263.900	240/290	3 OSS Elmendorf AFB AK	Anchorage	317.500	354.000	Top Rocc Primary 269.900 Secondary 126.200/364.200
723	278.400	263.900	240/290	3 OSS Elmendorf AFB AK	Anchorage	317.500	379.100	Top Rocc Primary 269.900 Secondary 126.200/364.200
724	278.400	263.900	200/250	3 OSS Elmendorf AFB AK	Anchorage	317.500	379.100	Top Rocc Primary 269.900 Secondary 126.200/364.200
725	283.800	263.900	240/290	3 OSS Elmendorf AFB AK	Anchorage	284.700	317.500	Top Rocc Primary 269.900 Secondary 126.200/364.200
727	270.200	263.900	240.290	3 OSS Elmendorf AFB AK	Anchorage	317.500	317.500	Top Rocc Primary 269.900 Secondary 126.200/364.200

Helicopter VFR Refueling Tracks:

Track	Pri	Sec	FL	Scheduling Unit	ARTCC	Entry	Exit	Notes
15V	263.900	252.800	010/040	920 RQG Patrick AFB FL	Patrick RAPCON			
18V	311.575	303.125	040/100	CG MCAS Cherry Point NC	Cherry Point RATCF			
40V	273.750	374.225	010/040	23 OSS Moody AFB GA	Jacksonville			
41V N/S	230.050	260.200	010/040	347 WG MacDill AFB FL	Jacksonville			
42V	239.725	309.950	010/040	23 OSS Moody AFB GA	Jacksonville			
44V	SQ Tac	SQ Tac	025/050	160 SOAR Campbell AAF KY	Indy/Memphis			Dark Horse East
45V	SQ Tac	SQ Tac	025/050	160 SOAR Campbell AAF KY	Indy/Memphis			Dark Horse West
46V	SQ Tac	SQ Tac	025/045	160 SOAR Campbell AAF KY	Indy/Memphis			Night Stalker East
47V	SQ Tac	SQ Tac	025/045	160 SOAR Campbell AAF KY	Indy/Memphis			Night Stalker West
48V	SQ Tac	SQ Tac	030/050	160 SOAR Campbell AAF KY	Indy/Memphis			Green East
49V	SQ Tac	SQ Tac	030/050	160 SOAR Campbell AAF KY	Indy/Memphis			Green West
53V	SQ Tac	SQ Tac	015/040	160 SOAR Savannah GA	Jacksonville			Wardog South
53V	SQ Tac	SQ Tac	025/045	160 SOAR Savannah GA	Jacksonville			Wardog North
55V	SQ Tac	SQ Tac	020/040	160 SOAR Savannah GA	Jacksonville			Wardog West
68V	SQ Tac	SQ Tac	005/055	106 OSF NYANG Gabreski Apt NY	Gabreski Tower	125.300	236.600	
117V	SQ Tac	SQ Tac	070/090	58 OSS Kirtland AFB NM	Albuquerque	307.200	307.200	128.800/307.200
125V	SQ Tac	SQ Tac	005/030	58 OSS Kirtland AFB NM	Albuquerque			
126V	SQ Tac	SQ Tac	010/085	49 OSS Holloman AFB NM	Albuquerque	257.600	257.600	Monitor 243.000
127V	SQ Tac	SQ Tac	010/100	49 OSS Holloman AFB NM	Albuquerque	257.600	257.600	Monitor 243.000
131V	143.250	318.000	055/070	27 OSS	Albuquerque	257.600	257.600	126.850 132.650 Roswell North Track
132V S	143.250	318.000	055/070	27 OSS	Albuquerque	257.800	269.050	132.650/257.800 126.450/269.050 Fort Worth
133V N	141.300	311.500	050/065	27 OSS	Albuquerque	285.475	127.850	
134V S/N	141.300	328.450	050/065	27 OSS	Albuquerque	285.475	285.475	127.850/285.475
135V N/S	238.500	233.725	050	563 OSS Davis-Monthan AFB AZ	Albuquerque			Monitor 379.400 Ref: VR239/244 traffic
136V	233.725	238.500	065	563 OSS Davis-Monthan AFB AZ	Albuquerque			Prescott Radio 122.400 122.300 Monitor 379.400
137V	233.725	238.500	045/065	563 OSS Davis-Monthan AFB AZ	Albuquerque			Prescott Radio 122.100R
225V	SQ Tac	SQ Tac	010/020	129 RQW Moffett Federal Fld CA	Oakland			Monterey Approach 127.150/302.000
230V	SQ Tac	SQ Tac	060/080	57 OSS Nellis AFB NV	Los Angeles	343.600	343.600	124.200/343.600
231V	SQ Tac	SQ Tac	060/080	57 OSS Nellis AFB NV	Los Angeles			
242V	SQ Tac	SQ Tac	005/045	129 RQW Moffett Federal Fld CA	Stockton Approach		294.500	294.500 120.950/294.500
243V	SQ Tac	SQ Tac	005/055	129 RQW Moffett Federal Fld CA	Oakland			
304V	125.800	291.700	031/050	129 RQW Moffett Federal Fld CA	Seattle			
304BV	125.800	291.700	031/050	129 RQW Moffett Federal Fld CA	Seattle			
304AV	128.150	288.100	015/060	129 RQW Moffett Federal Fld CA	Seattle			
305AV	128.150	288.100	015/060	129 RQW Moffett Federal Fld CA	Seattle			
305BV	128.150	288.100	015/060	129 RQW Moffett Federal Fld CA	Seattle			
306AV	128.150	288.100	010/050	129 RQW Moffett Federal Fld CA	Seattle			
306BV	128.150	288.100	010/050	129 RQW Moffett Federal Fld CA	Seattle			
662V	SQ Tac	SQ Tac	012/037	129 RQW Moffett Federal Fld CA	NAS Lemoore RATCF		318.800	318.800 124.100/318.