

**PROPOSED ESTABLISHMENT  
Of  
Powder River Training Complex Military Operations Areas  
North & South Dakota, Montana, Wyoming**

**AIRSPACE STUDY 14-AGL-06NR**

**SUMMARY:** The Federal Aviation Administration (FAA) is considering a request by the United States Air Force (USAF) to expand the Powder River Training Complex (PRTC) Military Operations Areas (MOA). This circular includes background on the USAF's request, a description of the proposed training airspace, and an invitation for public comment. We solicit your input regarding aeronautical impacts of the proposal before making a final determination.

**BACKGROUND:** The 28th Bomb Wing (28th BW), at Ellsworth Air Force Base (AFB), South Dakota, is the proponent for this proposal. The unit operates the B-1 Lancer, the USAF's only supersonic, all weather, day-night conventional heavy bomber. An additional user of the PRTC would be the 5th BW at Minot AFB, North Dakota. The unit operates the B-52, a subsonic heavy bomber also capable of all weather, day-night operations. For both units, on-going aircraft upgrades, advanced munitions, next-generation air and surface threats, and evolving tactics require expanded special use airspace (SUA) to properly train aircrews.

The current military airspace structure was designed to meet the cold war-type mission model. Threat arrays were unsophisticated compared to modern surface-to-air missiles and 5<sup>th</sup> generation adversary fighter aircraft. Munitions were mostly unguided and employed from short ranges. Tactics were designed around single aircraft penetrating adversarial airspace at low altitude. Missions were largely pre-planned with little real-time coordination involved.

Doctrine for modern air warfare has changed dramatically. The payload, extended range & loiter times, communications, and precision targeting capabilities of America's heavy bomber force now make them ideal platforms for Close Air Support, Time Sensitive Targeting, Forward Airborne Controller, Non-Traditional Intelligence, Surveillance & Reconnaissance, and Destruction of Enemy Air Defenses missions. Sophisticated threats result in defenses driving multi-ship formations, complex tactics, and integrated countermeasures. Weapons can be employed from well beyond visual range with great precision.

As a result of these changes, the existing Powder River A & B MOAs no longer provide a robust training environment necessary to maximize lethality and enhance survivability of the B-1 and B-52 fleets. Crews must fly to Nevada or Utah to find SUA that has the size, simulated threat arrays & targets, and terrain characteristics to meet current training requirements. The proposed PRTC, by enabling more local training, would have saved an estimated \$21 million in flying hour costs for Fiscal Year 2013. More importantly, the shorter sortie durations would allow an aircraft to fly more than one mission per day, effectively doubling the training capacity of crews at Ellsworth and Minot.

Nearly all combat operations today require coordinated employment among many different aircraft. Large Force Exercises (LFE) combining multiple types of aircraft could be employed together against simulated threat aircraft at realistic ranges by linking some or all of the proposed MOAs. Typically, these LFEs would consist of multiple bombers, fighters, air refueling tankers, command & control aircraft, and ground forces for fully integrated training scenarios. The proponent estimates LFEs will occur approximately 10 days per year for 4 hours per day.

**CONCEPT OF OPERATIONS:** The PRTC would consist of four primary MOAs (Powder River 1, 2, 3, 4) separated by corridors, or Gap MOAs (Gap A, B, C). A map is attached as graphical depiction of the PRTC and for reference.

Gap MOAs are designed as an option for non-participating aircraft to transit between active primary MOAs in the case when two adjacent primary MOAs are active simultaneously. Gap MOAs would only be activated for **military** use during LFEs, and not scheduled for normal day-to-day military training.

Powder River 1-4 MOAs would be available for use 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday, and 0730-1200 Mountain Time on Friday, other times by NOTAM. Estimated actual usage would vary between 3 to 6 hours per day, depending on which MOA is in use, approximately 240 days per year. Please refer to the individual MOA descriptions for more detailed information.

Proposed altitudes are generally from 500 feet AGL to, but not including Flight Level 180 (FL 180). Most MOAs in the PRTC are segmented into different altitude blocks to use only the airspace needed for the training event and maximize access of non-participating aircraft to airspace not used for training. Please refer to the MOA descriptions for specific stratification of the segmentation.

The PRTC excludes airspace within 3 nautical miles (3-NM) and 1,500 feet above ground level (AGL) from all public use airports within its proposed boundaries. Please refer to the individual MOA descriptions for which airports would have airspace exclusions.

Supersonic flight is proposed during LFEs **only** and with the following restrictions:

Bombers – No supersonic flight below 20,000 feet mean sea level (MSL).

Fighters – No supersonic flight below 10,000 feet AGL.

Chaff and flares would be employed in accordance with USAF directives. The proposed minimum release altitude for flares is 2,000 feet AGL.

**PROPOSAL:** Detailed descriptions of the MOAs are listed below. Refer to the enclosed map for a graphical presentation of the proposal.

**Powder River 1A Low MOA, Montana**

- Boundaries:** Beginning at Lat. N45°55'56" Long. W107°44'15";  
to Lat. N46°00'42", Long. W107°22'33";  
to Lat. N46°01'35", Long. W107°16'56";  
to Lat. N46°03'09", Long. W107°11'15";  
to Lat. N46°04'54", Long. W107°02'59";  
Clockwise along BIL VORTAC, 68 DME arc;  
to Lat. N45°42'43", Long. W107°00'42";  
to Lat. N45°40'30", Long. W107°13'42";  
to Lat. N45°41'48", Long. W107°44'07";  
Counter Clockwise along BIL VORTAC, 38 DME arc;  
to the point of beginning.
- Designated altitudes:** 500 feet AGL to, but not including 12,000 feet MSL. Except 1,500 feet AGL within a 3-NM radius of the following airport: Fairgrounds Airport, MT.
- Times of use:** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday; 0730-1200 Mountain Time, Friday; other times by NOTAM. Estimate of expected area use is 3 hours per day, approximately 240 days per year.
- Controlling agency:** FAA, Salt Lake ARTCC.
- Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

**Powder River 1A High MOA, Montana**

- Boundaries:** Beginning at Lat. N45°55'56" Long. W107°44'15";  
to Lat. N46°00'42", Long. W107°22'33";  
to Lat. N46°01'35", Long. W107°16'56";  
to Lat. N46°03'09", Long. W107°11'15";  
to Lat. N46°04'54", Long. W107°02'59";  
Clockwise along BIL VORTAC, 68 DME arc;  
to Lat. N45°42'43", Long. W107°00'42";  
to Lat. N45°40'30", Long. W107°13'42";  
to Lat. N45°41'48", Long. W107°44'07";  
Counter Clockwise along BIL VORTAC, 38 DME arc;  
to the point of beginning.
- Designated altitudes:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** By NOTAM, (LFE Only \*)

**Controlling agency:** FAA, Salt Lake ARTCC.

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

**Powder River 1B Low MOA, Montana**

**Boundaries:** Beginning at Lat. N46°04'54", Long. W107°02'59";  
to Lat. N46°11'59", Long. W106°29'32";  
Counter Clockwise along MLS VORTAC, 25 DME arc;  
to Lat. N45°57'58", Long. W105°59'23";  
to Lat. N45°40'57", Long. W105°55'50";  
to Lat. N45°47'00", Long. W106°35'30";  
to Lat. N45°42'43", Long. W107°00'42";  
Counter Clockwise along BIL VORTAC, 68 DME arc;  
to the point of beginning.

**Designated altitudes:** 500 feet AGL to, but not including 12,000 feet MSL. Except 1,500 feet AGL within a 3-NM radius of the following airport: Colstrip Airport, MT.

**Times of use** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday;  
0730-1200 Mountain Time, Friday; other times by NOTAM. Estimate of expected area use is 3 hours per day, approximately 240 days per year.

**Controlling agency** FAA, Salt Lake ARTCC.

**Using agency** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

**Powder River 1B High MOA, Montana**

**Boundaries:** Beginning at Lat. N46°04'54", Long. W107°02'59";  
to Lat. N46°11'59", Long. W106°29'32";  
Counter Clockwise along MLS VORTAC, 25 DME arc;  
to Lat. N45°57'58", Long. W105°59'23";  
to Lat. N45°40'57", Long. W105°55'50";  
to Lat. N45°47'00", Long. W106°35'30";  
to Lat. N45°42'43", Long. W107°00'42";  
Counter Clockwise along BIL VORTAC, 68 DME arc;  
to the point of beginning.

**Designated altitudes:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday; 0730-1200 Mountain Time, Friday; other times by

NOTAM. Estimate of expected area use is 3 hours per day, approximately 240 days per year.

**Controlling agency:** FAA, Salt Lake ARTCC.

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

### **Powder River 1C Low MOA, Montana**

**Boundaries:** Beginning at Lat. N45°41'48", Long. W107°44'07";  
to Lat. N45°40'30", Long. W107°13'42";  
to Lat. N45°42'43", Long. W107°00'42";  
Clockwise along BIL VORTAC, 68 DME arc;  
to Lat. N45°14'11", Long. W107°14'21";  
to Lat. N45°13'23", Long. W107°17'55";  
to Lat. N45°31'00", Long. W107°34'19";  
to Lat. N45°35'23", Long. W107°46'46";  
Counter Clockwise along BIL VORTAC, 38 DME arc;  
to the point of beginning.

**Designated altitudes** 500 feet AGL to, but not including 12,000 feet MSL. Except 1,500 feet AGL within a 3-NM radius of the following airport: Fairgrounds Airpark, MT.

**Times of use** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday; 0730-1200 Mountain Time, Friday; other times by NOTAM. Estimate of expected area use is 3 hours per day, approximately 240 days per year.

**Controlling agency** FAA, Salt Lake ARTCC.

**Using agency** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

**NPS Mitigation** The Little Bighorn noise avoidance area boundaries:  
N45-28.6561 W107-15.5057 to  
N45-26.0787 W107-19.9172 to  
N45-25.8566 W107-23.2907 to  
N45-31.3973 W107-31.4971 to  
N45-33.0734 W107-32.2886 to  
N45-37.3357 W107-32.6526 to  
N45-39.7426 W107-26.7047 to  
N45-39.1091 W107-21.5969 to  
N45-33.0471 W107-15.0289 to beginning.  
Hours: From 1-hour prior, to 1-hour after, NPS Hours of Operation.  
Altitude: The area bounded above will not be over-flown below 5,000 feet AGL during the hours listed above.

Special Events: The area bounded above will also be avoided when special events are coordinated.  
Supersonic: No Supersonic within PR1C Low MOA.

### **Powder River 1C High MOA, Montana**

**Boundaries:** Beginning at Lat. N45°41'48", Long. W107°44'07";  
to Lat. N45°40'30", Long. W107°13'42";  
to Lat. N45°42'43", Long. W107°00'42";  
Clockwise along BIL VORTAC, 68 DME arc;  
to Lat. N45°14'11", Long. W107°14'21";  
to Lat. N45°13'23", Long. W107°17'55";  
to Lat. N45°31'00", Long. W107°34'19";  
to Lat. N45°35'23", Long. W107°46'46";  
Counter Clockwise along BIL VORTAC, 38 DME arc;  
to the point of beginning.

**Designated altitudes:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** By NOTAM. (LFE Only \*)

**Controlling agency** FAA, Salt Lake ARTCC.

**Using agency** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

**NPS Mitigation** Supersonic: No Supersonic within PR1C High MOA.

### **Powder River 1D Low MOA, Montana**

**Boundaries:** Beginning at Lat. N45°42'43", Long. W107°00'42";  
to Lat. N45°47'00", Long. W106°35'30";  
to Lat. N45°40'57", Long. W105°55'50";  
to Lat. N44°48'11", Long. W105°45'03";  
to Lat. N44°40'27", Long. W105°52'49";  
to Lat. N44°47'38", Long. W106°28'48";  
Counter Clockwise along SHR VORTAC, 25 DME arc;  
to Lat. N45°14'11", Long. W107°14'21";  
Counter Clockwise along BIL VORTAC, 68 DME arc;  
to the point of beginning.

**Designated altitudes:** 500 feet AGL to but not including 12,000 feet MSL. Except 1,500 feet AGL within a 3-NM radius of the following airport: St Labre Mission Airport, MT. Except 12,000 feet MSL within the confines of the Northern Cheyenne Indian Reservation.

**Times of use:** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday; 0730-1200 Mountain Time, Friday; other times by

NOTAM. Estimate of expected area use is 3 hours per day, approximately 240 days per year.

**Controlling agency** FAA, Salt Lake ARTCC.

**Using agency** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

**Powder River 1D High MOA, Montana**

**Boundaries:** Beginning at Lat. N45°42'43", Long. W107°00'42";  
to Lat. N45°47'00", Long. W106°35'30";  
to Lat. N45°40'57", Long. W105°55'50";  
to Lat. N44°48'11", Long. W105°45'03";  
to Lat. N44°40'27", Long. W105°52'49";  
to Lat. N44°47'38", Long. W106°28'48";  
Counter Clockwise along SHR VORTAC, 25 DME arc;  
to Lat. N45°14'11", Long. W107°14'21";  
Counter Clockwise along BIL VORTAC, 68 DME arc;  
to the point of beginning.

**Designated altitudes:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday; 0730-1200 Mountain Time, Friday; other times by NOTAM. Estimate of expected area use is 3 hours per day, approximately 240 days per year.

**Controlling agency:** FAA, Salt Lake ARTCC.

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

**Powder River 2 Low MOA, Montana**

**Boundaries:** Beginning at Lat. N45°59'27", Long. W105°45'07";  
Counter Clockwise along the MLS VORTAC, 25 DME arc;  
to Lat. N46°08'55", Long. W105°27'24";  
to Lat. N45°53'08", Long. W104°33'46";  
to Lat. N45°37'48", Long. W103°52'28";  
to Lat. N45°29'05", Long. W103°17'10";  
to Lat. N45°03'44", Long. W103°17'58";  
to Lat. N44°45'30", Long. W104°24'39";  
to Lat. N44°48'11", Long. W104°30'09";  
to Lat. N44°46'11", Long. W104°41'00";  
to Lat. N44°40'02", Long. W104°44'44";  
to Lat. N44°33'01", Long. W105°10'34";  
Counter Clockwise along the GCC VORTAC, 20 DME arc;  
to Lat. N44°39'45", Long. W105°23'20";  
to Lat. N44°47'12", Long. W105°30'41";

to the point of beginning.

**Designated altitudes:** 500 feet AGL to, but not including 12,000 feet MSL. Except 1,500 feet AGL within a 3-NM radius of the following airports: Broadus Airport, MT; Ekalaka Airport, MT; and Harding County Airport, SD.

**Times of use:** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday; 0730 - 1200 Mountain Time, Friday; other times by NOTAM. Estimate of expected area use is 6 hours per day, approximately 240 days per year.

**Controlling agency:** FAA, Denver ARTCC.

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

### **Powder River 2 High MOA, Montana**

**Boundaries:** Beginning at Lat. N45°59'27", Long. W105°45'07";  
Counter Clockwise along MLS VORTAC, 25 DME arc;  
to Lat. N46°08'55", Long. W105°27'24";  
to Lat. N45°53'08", Long. W104°33'46";  
to Lat. N45°37'48", Long. W103°52'28";  
to Lat. N45°29'05", Long. W103°17'10";  
to Lat. N45°03'44", Long. W103°17'58";  
to Lat. N44°45'30", Long. W104°24'39";  
to Lat. N44°48'11", Long. W104°30'09";  
to Lat. N44°46'11", Long. W104°41'00";  
to Lat. N44°40'02", Long. W104°44'44";  
to Lat. N44°33'01", Long. W105°10'34";  
Counter Clockwise along GCC VORTAC, 20 DME arc;  
to Lat. N44°39'45", Long. W105°23'20";  
to Lat. N44°47'12", Long. W105°30'41";  
to the point of beginning.

**Designated altitude:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday; 0730-1200 Mountain Time, Friday; other times by NOTAM. Estimate of expected area use is 6 hours per day, approximately 240 days per year.

**Controlling agency:** FAA, Denver ARTCC.

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD.



### **Powder River 3 Low MOA, North Dakota**

**Boundaries:** Beginning at Lat. N46°24'23", Long. W105°21'08";  
to Lat. N46°30'59", Long. W104°39'10";  
to Lat. N46°32'45", Long. W104°20'36";  
to Lat. N46°36'34", Long. W104°02'08";  
to Lat. N46°41'37", Long. W103°27'25";  
Counter Clockwise along DIK VORTAC, 30 DME arc;  
to Lat. N46°22'24", Long. W102°56'07";  
to Lat. N45°47'47", Long. W102°59'01";  
to Lat. N45°35'42", Long. W103°01'21";  
to Lat. N45°52'07", Long. W103°44'36";  
to Lat. N46°03'21", Long. W104°31'24";  
to Lat. N46°18'08", Long. W105°21'51";  
Counter Clockwise along MLS VORTAC, 25 DME arc;  
to the point of beginning.

**Designated altitudes:** 500 feet AGL to, but not including 12,000 feet MSL.  
Except 2,000 feet AGL within a 3-NM radius of: the  
following airports: Baker Municipal, MT and Bowman Field,  
ND. (Note 4)

**Times of use:** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday;  
0730-1200 Mountain Time, Friday; other times by NOTAM.  
Estimate of expected area use is 3 hours per day,  
approximately 240 days per year.

**Controlling agency:** FAA, Salt Lake ARTCC.

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

### **Powder River 3 High MOA, North Dakota**

**Boundaries:** Beginning at Lat. N46°24'23", Long. W105°21'08";  
to Lat. N46°30'59", Long. W104°39'10";  
to Lat. N46°32'45", Long. W104°20'36";  
to Lat. N46°36'34", Long. W104°02'08";  
to Lat. N46°41'37", Long. W103°27'25";  
Counter Clockwise along DIK VORTAC, 30 DME arc;  
to Lat. N46°22'24", Long. W102°56'07";  
to Lat. N45°47'47", Long. W102°59'01";  
to Lat. N45°35'42", Long. W103°01'21";  
to Lat. N45°52'07", Long. W103°44'36";  
to Lat. N46°03'21", Long. W104°31'24";  
to Lat. N46°18'08", Long. W105°21'51";  
Counter Clockwise along MLS VORTAC, 25 DME arc;  
to the point of beginning.

**Designated altitudes:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** 0730-1200 and 1800-2330 Mountain Time, Monday-Thursday;  
0730-1200 Mountain Time, Friday; other times by NOTAM.  
Estimate of expected area use is 3 hours per day,  
approximately 240 days per year.

**Controlling agency:** FAA, Salt Lake ARTCC.

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD.

### **Powder River 4 High MOA, North Dakota**

**Boundaries - Beginning** at Lat. N46°21'48", Long. W102°41'42";  
Counter Clockwise along the DIK VORTAC, 30 DME arc;  
to Lat. N46°45'43", Long. W102°03'39";  
to Lat. N46°44'43", Long. W101°43'10";  
to Lat. N46°15'44", Long. W101°19'47";  
to Lat. N46°13'38", Long. W101°06'17";  
to Lat. N46°02'30", Long. W101°13'20";  
to Lat. N45°56'25", Long. W101°17'59";  
to Lat. N45°50'12", Long. W101°21'01";  
to Lat. N45°24'13", Long. W101°37'02";  
Counter Clockwise along the DPR VORTAC, 20 DME arc;  
to Lat. N45°17'23", Long. W102°04'35";  
to Lat. N45°30'13", Long. W102°44'07";  
to Lat. N45°48'35", Long. W102°44'37";  
to the point of beginning.

**Designated altitudes:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** 0730 - 1200 and 1800 - 2330 Mountain Time, Monday -  
Thursday; 0730 - 1200 Mountain Time, Friday; other times by  
NOTAM. Estimate of expected area use is 3 hours per day,  
approximately 240 days per year.

**Controlling agency:** FAA, Minneapolis ARTCC

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD

### **Gap A Low MOA, Montana**

**Boundaries:** Beginning at Lat. N45°57'58" Long. W105°59'23";  
Counter Clockwise along the MLS VORTAC, 25 DME arc;  
to Lat. N45°59'27" Long. W105°45'07";  
to Lat. N44°47'12" Long. W105°30'41";  
to Lat. N44°48'11" Long. W105°45'03";  
to the point of beginning.

**Designated altitudes:** 500 feet AGL to, but not including 12,000 feet MSL.

**Times of use:** By NOTAM. (LFE Only \*)

**Controlling agency:** FAA, Denver ARTCC

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD

### **Gap A High MOA, Montana**

**Boundaries:** Beginning at Lat. N45°57'58", Long. W105°59'23";  
Counter Clockwise along the MLS VORTAC, 25 DME arc;  
to Lat. N45°59'27", Long. W105°45'07";  
to Lat. N44°47'12", Long. W105°30'41";  
to Lat. N44°48'11", Long. W105°45'03";  
to the point of beginning.

**Designated altitudes:** 12,000 feet MSL to but not including FL 180.

**Times of use:** By NOTAM. (LFE Only\*)

**Controlling agency:** FAA, Denver ARTCC

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD

### **Gap B Low MOA, Montana**

**Boundaries:** Beginning at Lat. N46°08'55", Long. W105°27'24";  
Counter Clockwise along the MLS VORTAC, 25 DME arc;  
to Lat. N46°18'08", Long. W105°21'51";  
to Lat. N46°03'21", Long. W104°31'24";  
to Lat. N45°52'07", Long. W103°44'36";  
to Lat. N45°35'42", Long. W103°01'21";  
to Lat. N45°30'13", Long. W102°44'07";  
to Lat. N45°29'05", Long. W103°17'10";  
to Lat. N45°37'48", Long. W103°52'28";  
to Lat. N45°53'08", Long. W104°33'46";  
to the point of beginning.

**Designated altitudes:** 500 feet AGL to, but not including 12,000 feet MSL. Except 1,500 feet AGL within a 3-NM radius of the following airports: Ekalaka Airport, MT; and Harding County Airport, SD.

**Times of use:** By NOTAM. (LFE Only\*)

**Controlling agency:** FAA, Salt Lake ARTCC

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD

**Gap B High MOA, Montana**

**Boundaries:** Beginning at Lat. N46°08'55", Long. W105°27'24";  
Counter Clockwise along the MLS VORTAC, 25 DME arc;  
to Lat. N46°18'08", Long. W105°21'51";  
to Lat. N46°03'21", Long. W104°31'24";  
to Lat. N45°52'07", Long. W103°44'36";  
to Lat. N45°35'42", Long. W103°01'21";  
to Lat. N45°30'13", Long. W102°44'07";  
to Lat. N45°29'05", Long. W103°17'10";  
to Lat. N45°37'48", Long. W103°52'28";  
to Lat. N45°53'08", Long. W104°33'46";  
to the point of beginning.

**Designated altitude:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** By NOTAM. (LFE Only\*)

**Controlling agency:** FAA, Salt Lake ARTCC

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD

**Gap C Low MOA, North Dakota**

**Boundaries:** Beginning at Lat. N46°22'24", Long. W102°56'07";  
Counter Clockwise along the DIK VORTAC, 30 DME arc;  
to Lat. N46°21'48", Long. W102°41'42";  
to Lat. N45°48'35", Long. W102°44'37";  
to Lat. N45°30'13", Long. W102°44'07";  
to Lat. N45°35'42", Long. W103°01'21";  
to Lat. N45°47'47", Long. W102°59'01";  
to the point of beginning.

**Designated altitudes:** 500 feet AGL to but not including 12,000 feet MSL. Except 2,000 feet AGL within a 3-NM radius of the following airport: Hettinger Municipal Airport, ND.

**Times of use:** By NOTAM. (LFE Only\*)

**Controlling agency:** FAA, Minneapolis ARTCC

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD

## **Gap C High MOA, North Dakota**

**Boundaries:** Beginning at Lat. N46°22'24", Long. W102°56'07";  
Counter Clockwise along the DIK VORTAC, 30 DME arc;  
to Lat. N46°21'48", Long. W102°41'42";  
to Lat. N45°48'35", Long. W102°44'37";  
to Lat. N45°30'13", Long. W102°44'07";  
to Lat. N45°35'42", Long. W103°01'21";  
to Lat. N45°47'47", Long. W102°59'01";  
to the point of beginning.

**Designated altitudes:** 12,000 feet MSL to, but not including FL 180.

**Times of use:** By NOTAM. (LFE Only\*)

**Controlling agency:** FAA, Minneapolis ARTCC

**Using agency:** U.S. Air Force, 28th BW, Ellsworth AFB, SD

**Powder River A MOA, Montana - Delete**

**Powder River B MOA, Wyoming - Delete**

**MISCELLANEOUS:** No restrictions will be imposed on nonparticipating Visual Flight Rules (VFR) aircraft. VFR pilots are expected to exercise vigilance while transiting the MOA. They are strongly encouraged to contact the nearest flight service station and request the latest NOTAM information, or contact the controlling ARTCC to ascertain the status of the MOAs.

**COMMENTS INVITED:** The purpose of this notice is to invite interested persons to submit in writing any comments they may have regarding the overall aeronautical aspects of the proposal presented in this notice. Comments which provide the factual basis supporting the views and suggestions presented are the most helpful. Persons wishing to comment should submit correspondence to:

Manager, Operations Support Group, ATO Central Service Center, AJV-C2  
Airspace Study 14-AGL-06NR  
Department of Transportation  
Federal Aviation Administration  
2601 Meacham Blvd  
Fort Worth, TX 76137


Comments received on or before April 3, 2014, will be considered before final action is taken on the proposal. The proposal may change in light of comments received.

**NOTICE DISTRIBUTION:** Persons interested in being placed on a mailing list for future notices should submit such requests to the Federal Aviation Administration at the address listed above.

**FOR FURTHER INFORMATION, CONTACT:**

Department of Transportation  
Federal Aviation Administration  
ATO Central Service Center, Operations Support Group  
ATTN: Dr. John Witucki, AJV-C23  
2601 Meacham Blvd  
Fort Worth, TX 76137  
Telephone: (817) 321-7734

Issued in Fort Worth, Texas, on

 FEB 13 2014  
Kent M. Wheeler  
Manager, Operations Support Group  
ATO Central Service Center

Enclosure  
Map

cc: AJV-W2; ASW-910; ASW-920; ASW-930; ANM-910; ANM-920; ANM-930; AJR-32; AJR-33; AJR-34; AGL-BIS-ADO; ANM-DEN-ADO; ANM-HLN-ADO; Salt Lake ARTCC-530; Denver ARTCC-530; Minneapolis ARTCC-530; AJW-3743; AJW-3744; North Dakota State Aviation Director, South Dakota State Aviation Director, Wyoming State Aviation Director, Montana State Aviation Director  
SEE DISTRIBUTION LIST