



February 01, 2005

BLM State Director
Bureau Of Land Management
Nevada State Office
P.O. Box 12000
Reno, Nevada 89520

Dear Mr Robert Abbey:

The enclosed 2005 MEMORANDUM OF AGREEMENT (MOA) is forwarded to you.. The extensive work on this MOA by the Bureau of Land Management - Nevada (BLM/N) and Naval Strike and Air Warfare Center (NSAWC) / Naval Air Station Fallon (NASF) range, airspace and air traffic control managers has culminated in a comprehensive interagency document that will enhance safety and specific environmental consideration for signatory agencies operations within the Fallon Range Training Complex.

Sincerely Yours,

M.G. Moffit
Rear Admiral, USN Commander
Department of the Navy
Naval Strike and Air Warfare Center
Naval Air Station
Fallon, Nevada

DEPARTMENT OF THE NAVY
COMMANDER, NAVAL STRIKE AND AIR WARFARE CENTER
4755 PASTURE ROAD BLDG 465
FALLON, NV 89496-5000
COMMANDING OFFICER, NAVAL AIR STATION FALLON
4755 PASTURE ROAD
FALLON, NV 89496-5000
STATE DIRECTOR, BUREAU OF LAND MANAGEMENT, NEVADA STATE OFFICE

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NAS Fallon
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MEMORANDUM OF AGREEMENT
BETWEEN
COMMANDER, NAVAL STRIKE AND AIR WARFARE CENTER
AND
COMMANDING OFFICER, NAVAL AIR STATION FALLON
AND
STATE DIRECTOR, BUREAU OF LAND MANAGEMENT, NEVADA STATE OFFICE

Subj: INTERAGENCY AIRSPACE COORDINATION

Encl: (1) Terms of Reference
(2) Points of Contact
(3) Fallon Range Training Complex (FRTC) Maps

1. Purpose. To provide procedures and guidance for coordination among Naval Strike and Air Warfare Center (NSAWC), Naval Air Station Fallon (NASF), and the Bureau of Land Management, Nevada State Office (BLM/N) for air operations within the Fallon Range Training Complex (FRTC) Special Use Airspace (SUA). Recognizing the need to accommodate all agencies flight operations in their respective management and mission tasking, NSAWC, NASF and BLM/N have combined efforts to jointly issue these procedures. This agreement is per Federal Aviation Administrative Order (FAAO) 7610.4, FAAO 7110.65, Federal Aviation Regulations (FAR) to wit, FAR parts 91 and 73 with due consideration to BLM/N concerns and their need to comply with the USDA-Forest Service and USDI Interagency Airspace Coordination Guide.

2. Cancellation. This Memorandum of Agreement supersedes all scheduling and airspace coordination procedures contained in the Letter of Agreement for Interagency Airspace Coordination July 2000.

3. Scope. This agreement applies to Department of Defense (DoD) FRTC SUA users, airspace schedulers and service providers. All BLM/N district offices and any associated aircraft/aircrew, dispatchers and other authorities responsible for conducting air

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operations within the FRTC SUA are subject to this agreement. All parties to this agreement shall adhere to FARs prescribing "see and avoid" techniques and maintain a high degree of awareness when participating in activities within the FRTC SUA which might decrease "see and avoid" techniques.

4. Responsibilities

a. BLM/N shall:

(1) Be the single point of contact for FAA coordination concerning issuance of Temporary Flight Restrictions (TFRs), per FAR Part 91.137.

(2) Ensure all BLM/N aircraft squawk an Air Traffic Control (ATC) assigned discrete mode 3/A beacon code while conducting air operations within the FRTC SUA.

(3) Initiate the notification process for events affecting the FRTC SUA scheduled by NSAWC/NASF as noted in Flight Information Publications (FLIP), AP/1A.

(4) Initiate notification process to NASF Air Traffic Control Facility (Desert Control), Operations Duty Officer, NSAWC Range Schedules (NSAWC N34) and NSAWC Flight Safety for all incidents/accidents and follow BLM/N in-house standard procedures as defined and agreed upon by BLM/N.

b. NASF shall:

(1) Provide ATC services to BLM/N aircraft operating within the FRTC SUA.

(2) Ensure TFR Notice to the Airman information is distributed to all airborne aircraft operating within the FRTC SUA.

c. NSAWC shall:

(1) Provide long term and real-time scheduling of BLM/N air operations affecting the FRTC NASF.

(2) Provide range monitoring services for scheduled BLM/N air operations within the FRTC.

d. All signatories shall ensure personnel involved are briefed on the purpose and procedures of this agreement.

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5. Coordination Procedures, Non-Fire or Fire Recon (NO TFR)

a. When BLM/N agency dispatchers or aviation managers become aware of a need for aviation operations within the FRTC, they shall:

(1) Schedule BLM/N air operations affecting the FRTC on a non-interference basis with NSAWC Range Schedules N34 in a timely manner, provide known recurring mission planning information as far in advance as possible and FAX a map showing area of operation.

(2) Coordinate subsequent and same day changes or additions to proposed flights with NSAWC N34.

(3) Immediately advise NASF Operations Duty Officer of the reported location and route of flight to a reported fire and/or requested TFR location. Include latitude and longitude information if available (i.e. global positioning system (GPS) derived coordinates).

(4) Pre-brief all BLM/N aircrews to establish radio contact with Desert Control prior to entering or exiting FRTC airspace. Notify Desert Control and NSAWC Range Schedules N34 upon completion of flight activity.

b. Upon BLM/N notification of a proposed flight operation in the FRTC. NSAWC shall:

(1) Advise BLM/N coordinating agency of projected or known activity with times and areas in which BLM/N will operate.

(2) Fax or e-mail the acceptable date(s), clearance, times and event number(s) to BLM/N dispatch center.

(3) Coordinate BLM/N activities with all DoD scheduled units.

(4) Make every attempt to accommodate BLM/N mission requests within safety of flight considerations and contingent upon DoD requirements.

(5) Advise BLM/N to remain clear of FRTC if DoD operations indicate hazardous activity or significant air operations in the BLM/N indicated operating area, and provide an estimate when BLM/N operations could be accommodated.

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c. Desert Control shall:

(1) Assign a discrete Mode 3/A beacon code for all BLM/N aircraft.

(2) Issue current Fallon Range altimeter setting.

(3) Provide Visual Flight Rule flight following deconfliction to the maximum extent possible, on a workload permitting basis.

6. Coordination Procedures, Fire Response (TFR)

a. BLM/N shall:

(1) Request status of FRTC scheduled military flights from NSAWC Range Schedules N34.

(2) Immediately advise NASF Operations Duty Officer of the location of the reported fire, requested TFR or reconnaissance route to include latitude and longitude information if available (i.e. Global Positioning System (GPS) derived coordinates).

(3) Request TFR with the appropriate Federal Aviation Administrator (FAA), Air Route Traffic Control Center (ARTCC) and request that latitude and longitude information be included in the NOTAM.

(4) In addition to telephone and NOTAM information, FAX a hard copy of the approved TFR and a map to NASF Operations Duty Officer and NSAWC Range Schedules N34.

(5) Establish a BLM/N liaison representative if deemed appropriate. This liaison in concert with Desert Control will establish ingress/egress routes or services required to facilitate emergency response activity. Due to terrain and varied aircraft types employed, different routes may be required.

(6) Advise NASF Operations Duty Officer directly of any modification, changes or cancellation of the TFR.

(7) Ensure that all BLM/N aircraft contact Desert Control prior to entering FRTC airspace and advise Desert Control of type aircraft, altitude, personnel on board and proposed route to area of operations.

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(8) Ensure all BLM/N support aircraft obtain ATC approval prior to entering FRTC restricted airspace.

b. Desert Control shall:

(1) Notify the Operations Duty Officer upon receipt of information indicating a TFR or requested TFR within the FRTC.

(2) Issue applicable TFR restrictions to aircraft flying in the vicinity of a TFR area and facilitate with NSAWC Range Operations Center and NSAWC Mission Coordinator deconfliction of DoD and BLM/N mission aircraft.

(3) Coordinate services and ingress/egress routes as requested by BLM/N.

(4) Advise BLM/N aircraft of range status (hot, cold, scheduled, open for joint use, etc.). Relay code assignments to NSAWC Range Operations Center and NSAWC Mission Coordinator for FRTC Operations.

(5) Function as the Navy point of contact during field hours with NASF Command Duty Officer being the point of contact outside field hours.

c. NASF Operations Duty Officer shall notify NSAWC Range Schedules N34 upon receipt of information indicating establishment of a TFR within the FRTC.

d. NSAWC N34 shall: Notify NSAWC Range Operations Center, NSAWC Mission Coordinator and disseminate the information to all Navy Fallon scheduled flying units of any TFRs established which may affect the FRTC.

7. Cancellation of TFR. TFRs will be canceled by BLM/N through established procedures at the appropriate ARTCC. BLM/N will notify Desert Control and NSAWC Range Scheduling when air operations for the TFR are complete and all BLM/N aircraft have exited the area.

8. Management Authority and Responsibility

a. The BLM Nevada State Aviation Manager or Assigned BLM Airspace Coordination Specialist shall:

(1) Be the BLM focal point for BLM/N districts in resolving any procedural difficulties in scheduling FRTC airspace.

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(2) Function as the focal point for BLM/N districts/regions recommending amendments to this Memorandum of Agreement.

(3) Be the point of contact for NSAWC FRTC management and NASF airspace management in making amendments to this Memorandum of Agreement.

(4) Coordinate with NASF Airspace Management and/or Flight Safety on all airspace conflicts, incidents and conclusions/findings regarding airspace conflicts within the FRTC.

b. NASF Airspace Manager shall:

(1) Serve as primary action officer on SUA matters and be the primary point of contact to BLM/N for matters pertaining to this Memorandum of Agreement.

(2) Participate with BLM/N, NASF Flight Safety and NSAWC Range Officer N58 on investigations regarding alleged TFR airspace deviations, incidents or violations when FRTC SUA is involved.

9. Incident/Accident. In the event of an incident or accident involving BLM/N aircraft within the FRTC, the BLM/N shall notify Desert Control, Flight Safety and NSAWC Range Operations Center immediately. BLM/N will follow standard incident/accident or hazard reporting procedures and prepare a coordinated report to be forwarded to BLM National Office and Department Of Interior Office of Aircraft Services. All incidents will be reviewed during scheduled coordination meetings between BLM/N and Navy Fallon agencies.

10. Education and Awareness. Joint education and awareness is essential to the mutual efforts to enhance safety of flight. Exchange visits between BLM/N and Navy Fallon personnel are encouraged to foster open communication between all personnel who use this agreement. Periodic briefings on FRTC airspace are appropriate and encouraged. Coordination meetings should occur in April and October of each year to assess implementation of this agreement.

11. Modification/Cancellation of this Agreement. Modification or cancellation of this memorandum is authorized with written mutual consent of all signatories and will require 30 days prior notice.

12. Attachments. (attachments may be individually administratively updated.)

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- a. Definitions
- b. BLM/N & NAS Fallon Points of Contact and Radio Frequencies
- c. Fallon Range Training Complex Maps
- d. FRC-1, Edition 4

13. Effective Date: 1 February 2005

 1/27/05

W. S. RYDER, Captain, USN
Commanding Officer
Naval Air Station Fallon, NV

_____
M. G. MOFFIT, Rear Admiral, USN
Commander
Naval Strike and Air Warfare
Center
Naval Air Station Fallon, NV

 2.4.05

ROBERT ABBEY
State Director, Nevada
Bureau of Land Management

TERMS OF REFERENCE

SHALL: Mandatory action, not permissive nor optional.

WILL: Futurity, permissive for future application.

MAY: Optional action, not mandatory.

AIRSPACE CONFLICT - For purposes of this Memorandum of Agreement, an airspace conflict is an aviation related occurrence, which meets BLM/N definitions of incident or hazard while using the National Airspace system.

BLM/N - Refers to all personnel and aircraft (aircrews) under operational control of BLM Nevada State Office and its field offices inclusive of Elko, Battle Mountain, Winnemucca and Carson City. It may also include aircraft or other equipment owned, contracted or rented by other government agencies participating in joint operations.

DECONFLICTION OF AIRSPACE - Processes and procedures taken by land management agency dispatchers in coordination with Navy Fallon Special Use Airspace Management by which the potential for airspace conflicts are minimized for known traffic. When a BLM/N intended flight mission might conflict with DoD aircraft in their training or operating areas the agency should request assistance in avoiding the conflict. The deconfliction request must be submitted immediately upon identification of need and will be contingent upon DoD operations capability to accommodate. TFRs require accommodation and priority for BLM/N flight operations.

FALLON RANGE TRAINING COMPLEX (FRTC) - Airspace composed of the R-4803 Fallon, R-4804A/B Twin Peaks, R-4810 Desert Mountains, R-4812 Sand Springs, R-4813A/B Carson Sink, R-4816N Dixie Valley, R-4816S Dixie Valley restricted area airspace, Austin 1, Austin 2, Ranch, Carson, Gabbs North, Gabbs Central, Gabbs South and Ranch Military Operating Areas (MOAs) (See Attachment 5).

NEAR MID-AIR COLLISION - A near mid-air collision is defined as an incident associated with the operation of an aircraft in which a possibility of collision occurs as a result of proximity of less than 500 feet to another aircraft, or a report is received from a pilot or qualified crew member stating that a collision hazard existed between two or more aircraft.

NON-TFR FLIGHT OPERATIONS - Generally fall into two categories:

PLANNED - Those non-TFR aviation operations that can be anticipated, planned and scheduled in advance by BLM/N. These would include aerial surveillance/photography, animal counting and/or round up, wilderness area, study area survey, etc.

EMERGENCY - Non-TFR aviation operations that cannot be anticipated and/or planned in advance. These would fall into the category of fire recon missions and medical evacuations or other emergencies related to human life or limb endangerment.

NSAWC RANGE SCHEDULES N34 - Provides long term and same day range and airspace scheduling.

RESTRICTED AREA - Established to denote the existence of unusual, often invisible hazards to aircraft such as artillery firing, aerial gunnery, missiles or ground target attacks. Penetration of restricted areas may be extremely hazardous for non-authorized aircraft entrance and is legally prohibited. Authorization to transit restricted areas when the area is not in military use may be obtained from the controlling agency.

TEMPORARY FLIGHT RESTRICTION (TFR) - Term applied to a temporary flight restriction implemented under FAR part 91.137 which identifies an area of airspace, both laterally and vertically, for which entry by non-participating aircraft is restricted for a specified period of time. Flight restrictions may be requested in response to the aviation safety needs for separation of participating and non-participating aircraft during disaster type occurrences. It is requested from the FAA ARTCC within whose jurisdiction the location lies and is forwarded by the ARTCC to the National Flight Data Center (NFDC) for processing and dissemination to Flight Service Stations. All pilots are required to be aware of TFRs. Entry into the airspace by non-participating aircraft is prohibited or severely restricted. TFRs are not usually granted for non-fire operations.

** IMPORTANT NOTE: Due to past misunderstanding of the term TFR the words "Temporary Flight Restriction" should be used during all land-line coordination and radio transmissions. Some DoD aircrews use the term TFR to describe "Terrain Following Radar."

POINTS OF CONTACT

NAS FALLON ATC ATC Officer	Office FAX E-Mail	775-426-2611/2613 775-426-2807 pamela.graham@navy.mil
NAS FALLON FAA REPRESENTATIVE	Office FAX E-Mail	775-426-2685 775-426-2807 rex.maclean@navy.mil
ATC WATCH SUPERVISOR	Office FAX	775-426-4511 775-426-2807
NAS FALLON OPERATIONS DUTY OFFICER	Office FAX	775-426-2458/2419 775-426-2840
NAS FALLON FLIGHT SAFETY AVIATION SAFETY OFFICER	Office FAX	775-426-2442/2618 775-426-2629
NSAWC N34 RANGE SCHEDULER	Office FAX	775-426-2416/18 775-426-2627
NSAWC N58 RANGE (FRTC) RANGE OFFICER	Office FAX E-Mail E-Mail	775-426-2108/2100 775-426-2104 david.a.goodman@navy.mil jack.ward@navy.mil
NSAWC (FRTC) RANGE OPERATIONS CENTER	Office FAX	775-426-2473/2474 775-426-4521
NSAWC MISSION COORDINATOR	Office Cell Phone FAX	775-426-2122 775-426-9332 775-426-2165
NSAWC N9 ORM	Office	775-426-4095

FREQUENCIES:

NAS FALLON ATC APPROACH CONTROL	360.2 MHz/118.3 MHz
NAS FALLON ATC (DESERT CONTROL)	322.35 MHz/126.2 MHz
NAS FALLON TOWER	340.2 MHz/119.25 MHz
RANGE OPERATIONS CENTER	Work out through desert control
MISSION COORDINATOR	Work out through desert control

POINTS OF CONTACT

Bureau of Land Management Dispatch & Field Offices:

Carson City
Carson City Field Office, 5665 Morgan Mill Road, Carson City, NV
89701
Sierra Front Interagency Dispatch Center, 6301 Firebrand Circle,
Minden, NV 89423

Dispatch	Emergency	775-883-3535
Dispatch	Normal Hours	775-883-5995
Field Office	Normal Hours	775-885-6000
Dispatch	FAX	775-782-1441
Minden Air Tanker Base		775-782-1415
Stead Air Tanker Base		775-972-9201
Dispatch Center Manager	Mindy Stevenson E-Mail	775-882-9187 stevenson@nv.blm.gov
Aviation Manager	Russ Bird E-Mail	775-885-6182 rbird@nv.blm.gov
Aviation Dispatcher	Linda Naill E-Mail	775-883-5995 lnaill@nv.blm.gov

Elko
Elko Field Office: 3900 East Idaho Street, Elko, NV 89801
Elko Interagency Communication Center: 725 Aspen Way, Elko, NV
89801

Dispatch	Emergency	775-748-4000
Dispatch	Normal Hours	775-748-4000
Field Office	Normal Hours	775-753-0200
Dispatch	FAX	775-748-4015
Dispatch Center Manager	Bill Roach E-Mail	775-748-4020 broach@nv.blm.gov
Aviation Manager	Cameron Dingman E-Mail	775-748-4023 cdingman@nv.blm.gov
Aviation Dispatcher	Gina Dingman E-Mail	775-748-4005 gdingman@nv.blm.gov

POINTS OF CONTACT

Battle Mountain

Battle Mountain Field Office: 50 Bastian Road, Battle Mountain, NV
89820-2332

All Fire & Non-Fire Aviation Dispatch Operations conducted on the
BLM Battle Mountain District will normally be coordinated through
BLM Central Nevada Interagency Dispatch Center at Winnemucca: See
Address & Phone Numbers for Winnemucca below.

Dispatch	Emergency	775-623-3444
Dispatch	Normal Hours	775-623-1555
Field Office	Normal Hours	775-635-4000
Field Office	FAX	775-635-4119
Battle Mountain Air Tanker Base		775-635-3034
Fire Management Officer	Dave Davis	775-635-4114
	E-Mail	ddavis@nv.blm.gov
Aviation Manager	Scott Salisbury	775-623-6865
	E-Mail	ssalisberry@nv.blm.gov

Winnemucca

Winnemucca Field Office: 5100 East Winnemucca Blvd., Winnemucca,
NV 89445

Central Nevada Interagency Dispatch Center: Address Same as Above

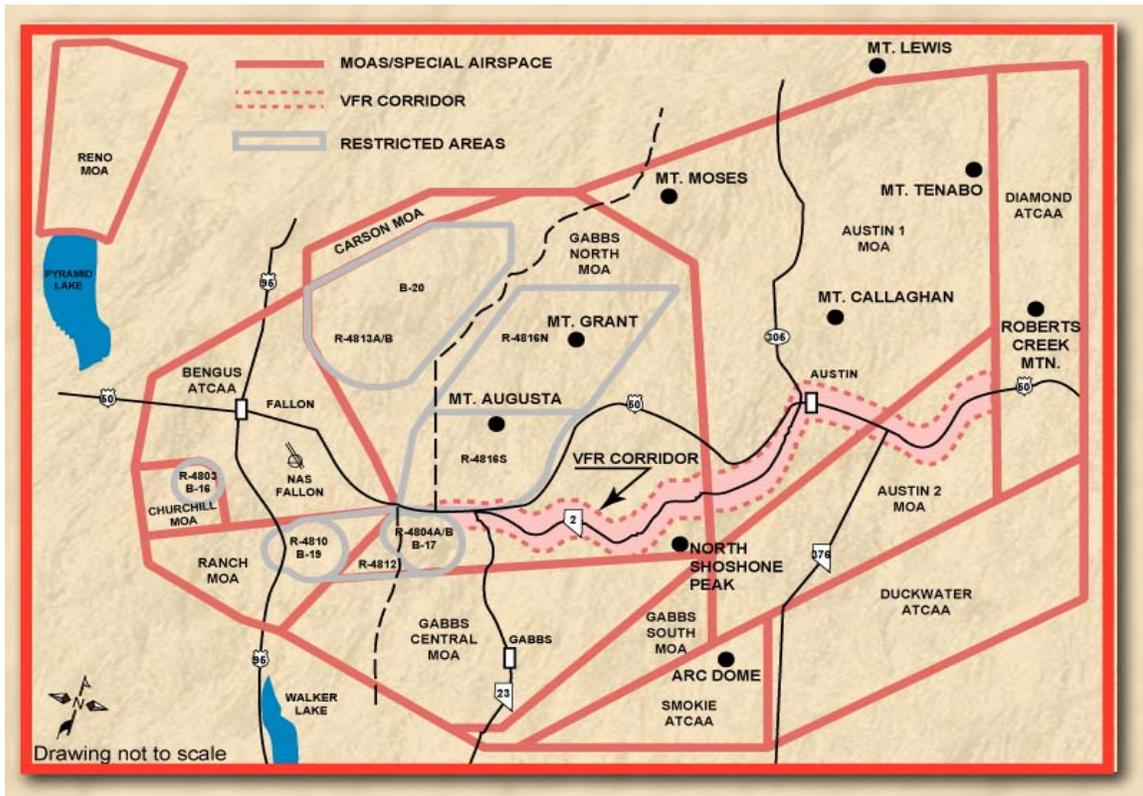
Dispatch	Emergency	775-623-3444
Dispatch	Normal Hours	775-623-1555
Field Office	Normal Hours	775-623-1500
	FAX	775-623-1577
Winnemucca Air Base		775-623-2397
Dispatch Center Manager	Tom Cary	775-623-1705
	E-Mail	tcary@nv.blm.gov
Aviation Manager	Scott Salisbury	775-623-6865
	E-Mail	ssalisberry@nv.blm.gov
Aviation Dispatcher	Season Berg	775-623-1555
	E-Mail	sberg@nv.blm.gov

POINTS OF CONTACT

Nevada State Office
Office of Fire & Aviation: 1340 Financial Blvd., Reno, NV 89502
Western Great Basin Coordination Center(WGBCC): Address Same as
Above

Dispatch	Emergency	775-861-6455
Dispatch	Normal Hours	775-861-6455
Western Great Basin Coordination Center		775-861-6459
Aircraft Coordinator	Frank Domingues	775-861-6455
	E-Mail	fdomingues@nv.blm.gov
BLM State Aviation Manager	Greg Gall	775-861-6535
	Cell Phone	775-772-4594
	FAX	775-861-6668
	Home	775-425-8545
	E-Mail	ggall@nv.blm.gov

FALLON RANGE TRAINING COMPLEX (FRTC) MAPS



1. R-4803 (B-16) Surface up to but not including FL180
2. R-4813 (B-20) Surface up to but not including FL180
3. R-4816N 1,500' AGL up to but not including FL180
4. R-4816S 500', AGL up to but not including FL180
5. R-4804 (B-17) Surface up to but not including FL180
6. R-4810 (B-19) Surface up to and including 17,000' MSL
7. R-4812 (B-17) Surface up to but not including FL180
8. Churchill Low/High MOA 500' AGL to but not including FL180
9. Ranch Low/High MOA 500' AGL up to but not including FL180
10. Carson MOA 500' AGL up to but not including FL180
11. Gabbs North MOA 100' AGL up to but not including FL180
12. Gabbs Central MOA 100' AGL up to but not including FL180
13. Gabbs South MOA 100' AGL up to but not including FL180
14. Austin 1 MOA 200' AGL up to but not including FL180
15. Austin 2 MOA 200' AGL up to but not including FL180
16. VFR Corridor from the western boundary of Gabbs North MOA within 1 NM of U.S. HWY 50 to Fairview Peak 2,000' AGL to 8,500' MSL.
17. From Fairview Peak to the eastern boundary of Austin 2 MOA 2,000' AGL to 10,500' MSL