

AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

1. General Information: The Air Force’s Air Conformity Applicability Model (ACAM) was used to perform an analysis to assess the potential air quality impact/s associated with the action in accordance with the Air Force Instruction 32-7040, Air Quality Compliance And Resource Management; the Environmental Impact Analysis Process (EIAP, 32 CFR 989); and the General Conformity Rule (GCR, 40 CFR 93 Subpart B). This report provides a summary of the ACAM analysis.

a. Action Location:

Base: RENO-TAHOE IAP
State: Nevada
County(s): Washoe
Regulatory Area(s): Reno, NV; Washoe Co, NV

b. Action Title: Installation Development Plan (IDP) Environmental Assessment (EA)

c. Project Number/s (if applicable): 1

d. Projected Action Start Date: 11 / 2020

e. Action Description:

Scope

1) Construct new consolidated Support Facility

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
Leave outdated facility in current status, which does not meet space requirements or AT/FP standards.	<ul style="list-style-type: none"> • Demolish Bldgs. 4 (926 square feet [SF]), 56 (19,191 SF), 66 (4,686 SF), and 67 (4,437 SF) for 29,240 SF total. • Construct a new 10,522 SF Consolidated Support Facility in the former Bldg. 56 footprint. • Relocate gym and deployment processing to excess space in Bldg. 600. • Realign 8,000 square yards (SY) of roadways and eliminate excess pavement. 	<ul style="list-style-type: none"> • Demolish Bldgs. 4 (926 SF), 56 (191,191 SF), 66 (4,686 SF), and 67(4,437 SF) for 29,240 SF total. • Construct a new two-story 28,322 SF Consolidated Support Facility in the former Bldg. 56 footprint. • Relocate gym from Bldg. 67 and Dining Hall and Services from Bldg. 111 to new Consolidated Support Facility. • Realign 8,000 SY of roadways and eliminate excess pavement.

2) Consolidate EMEDS & MDG and upgrade Fuel Cell

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
Leave outdated facility in current status. The MDG will continue to be approximately 4,100 SF under its authorization for space. The existing layout and condition will remain uncondusive to medical operations. Leave Fuel Cell in current status.	<ul style="list-style-type: none"> • Construct 10,165 SF addition onto current Medical / Service Facility (Bldg. 111). • Reconfigure 8,235 SF of Bldg. 111 interior layout for Services & MDG. Swap MDG & Services Flight sides to move MDG closer to EMEDS in Bldg. 76. • Renovate Bldg. 76 to meet EMEDS requirements. • Construct 11,877 SF addition to Bldg. 130. 	<ul style="list-style-type: none"> • Demolish Bldg. 76 (20,719 SF). • Construct 1,100 SF addition onto Bldg. 111 for EMEDS and MDG. • Relocate EMEDS from Bldg. 76. • Construct 11,877 SF to Bldg. 130.

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3) Construct new POL refueler yard & create POV parking

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
Keep existing POL refueler parking area and parking lots without AT/FP compliance.	<ul style="list-style-type: none"> Demolish Bldg. 10 (20,135 SF). Construct new 1,957 SF POL refueler parking area and additional POV parking lot in vicinity of former Bldg. 10 footprint. Extend parking by 75,555 SF west of Bldgs. 700, 600, 691, and 86 to the north to meet current POV parking requirements. 	<ul style="list-style-type: none"> Demolish Bldg. 10 (20,135 SF). Construct new 1,957 SF POL refueler yard in the western half of the former Bldg. 10 footprint. Extend parking by 75,555 SF west of Bldgs. 700, 600, 691, and 86 to the north to meet current POV parking requirements. Construct new parking lots in general vicinity of former Bldg. 56 (9,123 SF) and Bldg. 76 (22,500 SF) footprints.

4) Construct ASE facility & MAFFS

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
<p>Leave outdated facility in its current status. The ASE / Engine Shop Facility will continue to be approximately 10,700 SF under its space authorization. The facility will remain inadequate because it was not designed for ASE; also, it lacks pull-through capability and storage space.</p> <p>Leave the temporary MAFFS Storage Facility. The MAFFS facility is made of material that will degrade over a relatively short period.</p>	<ul style="list-style-type: none"> Demolish Bldg. 2 (4,096 SF). Construct 10,700 SF addition to Bldg. 82, allowing for combining of ASE with the Engine Shop. Construct 4,000 SF MAFFS storage facility. 	<ul style="list-style-type: none"> Demolish Bldgs. 2 (4,096 SF) and 82 (13,750 SF). Construct a new 23,100 SF Bldg. in the former Bldg. 10 footprint to house ASE / Engine Shop facility. Construct 4,000 SF MAFFS storage facility.

5) Expand airfield apron

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
Maintain current aircraft parking apron space. The parking apron will continue to be approximately 7,621 SF under its authorization for space. The parking apron will remain inadequate since it is not large enough to accommodate assigned aircraft without a wingtip waiver.	<ul style="list-style-type: none"> Expand airfield apron by 135,616 SF to allow adequate physical separation between edge of aircraft parking apron and any fixed or mobile obstacle. Acquire additional land (21,861 SF) to construct airfield apron access taxiway. Extend blast fence. Acquire 15,000 SF of land east of Bldg. 3 for engine run-up pad. 	<ul style="list-style-type: none"> Expand airfield apron by 135,616 SF to allow adequate physical separation between edge of aircraft parking apron and any fixed or mobile obstacle. Acquire additional land (21,861 SF) to construct airfield apron access taxiway. Extend blast fence. Culvert drainage ditch (43,516 SF) to the north and construct a 17,908 SF engine run-up pad.

6) Culvert Ditch

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
Leave drainage ditch in current condition with current bird strike hazards in place.	Riprap the existing drainage ditch and remove vegetation – 39,420 SF.	Grade out area and install box culvert to enclose the existing drainage ditch – 43,516 SF.

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7) Relocate munitions

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
Keep munitions storage in the current area, leaving parking inadequately addressed.	Relocate 3,900 SF Munitions Storage to Reno-Stead Airport or Carson City.	Relocate 3,900 SF Munitions Storage to north of temporary MAFFS Storage Area.

8) Construct vehicle check point

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
Keep vehicle inspection area as-is with inspections inside the gate and large vehicles obstructing traffic. The ECF is not compliant with AT/FP regulations because it does not give inspectors ability to search vehicles and does not have intrusion control.	<ul style="list-style-type: none"> • Remove portion of Bldg. 400 parking lot, construct new large vehicle inspection area, and relocate traffic check house (10,000 SF). • Upgrade fencing on the north and west perimeters. • Conduct full depth replacement on approximately 8% of pavement surface area and routine maintenance to sustain condition. 	<ul style="list-style-type: none"> • Construct new ECF in the vicinity of Bldg. 400 (20,000 SF). • Upgrade perimeter fencing on the north and west perimeters. • Conduct full depth replacement on approximately 8% of pavement surface area and routine maintenance to sustain condition.

9) New Mission Beddown

No Action Alternative	Alternative 1	Alternative 2 (Preferred Alternative)
Maintain existing facility in current condition and configuration. No reconfiguration of interior spaces. Fails to support new mission requirements.	<ul style="list-style-type: none"> • Demolish existing building and construct new building. Same space and functions, but with a higher cost 	<ul style="list-style-type: none"> • Reconfigure Building 76 for potential new mission beddown. • Addition of drywall partitions to provide appropriate configurations and space for new mission. • Replace roof of Building 76.

f. Point of Contact:

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2. Analysis: Total combined direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the “worst-case” and “steady state” (net gain/loss upon action fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

Based on the analysis, the requirements of this rule are: applicable
 X not applicable

Conformity Analysis Summary:

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2020

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			
VOC	0.034		
NOx	0.030		
CO	0.374	100	No
SOx	0.000		
PM 10	0.001		
PM 2.5	0.001		
Pb	0.000		
NH3	0.002		
CO2e	35.8		
Washoe Co, NV			
VOC	0.034		
NOx	0.030		
CO	0.374		
SOx	0.000		
PM 10	0.001	100	No
PM 2.5	0.001		
Pb	0.000		
NH3	0.002		
CO2e	35.8		

2021

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			
VOC	0.286		
NOx	0.655		
CO	2.795	100	No
SOx	0.002		
PM 10	0.048		
PM 2.5	0.030		
Pb	0.000		
NH3	0.014		
CO2e	309.2		
Washoe Co, NV			
VOC	0.286		
NOx	0.655		
CO	2.795		
SOx	0.002		
PM 10	0.048	100	No
PM 2.5	0.030		
Pb	0.000		
NH3	0.014		
CO2e	309.2		

2022

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			

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VOC	0.730		
NOx	3.294		
CO	5.789	100	No
SOx	0.008		
PM 10	1.410		
PM 2.5	0.162		
Pb	0.000		
NH3	0.016		
CO2e	894.6		
Washoe Co, NV			
VOC	0.730		
NOx	3.294		
CO	5.789		
SOx	0.008		
PM 10	1.410	100	No
PM 2.5	0.162		
Pb	0.000		
NH3	0.016		
CO2e	894.6		

2023

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			
VOC	1.363		
NOx	3.523		
CO	6.109	100	No
SOx	0.011		
PM 10	5.080		
PM 2.5	0.138		
Pb	0.000		
NH3	0.015		
CO2e	1173.1		
Washoe Co, NV			
VOC	1.363		
NOx	3.523		
CO	6.109		
SOx	0.011		
PM 10	5.080	100	No
PM 2.5	0.138		
Pb	0.000		
NH3	0.015		
CO2e	1173.1		

2024

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			
VOC	0.761		
NOx	3.258		
CO	6.417	100	No
SOx	0.011		
PM 10	1.824		

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PM 2.5	0.126		
Pb	0.000		
NH3	0.016		
CO2e	1126.2		
Washoe Co, NV			
VOC	0.761		
NOx	3.258		
CO	6.417		
SOx	0.011		
PM 10	1.824	100	No
PM 2.5	0.126		
Pb	0.000		
NH3	0.016		
CO2e	1126.2		

2025

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			
VOC	1.221		
NOx	5.400		
CO	9.275	100	No
SOx	0.016		
PM 10	4.675		
PM 2.5	0.227		
Pb	0.000		
NH3	0.019		
CO2e	1604.2		
Washoe Co, NV			
VOC	1.221		
NOx	5.400		
CO	9.275		
SOx	0.016		
PM 10	4.675	100	No
PM 2.5	0.227		
Pb	0.000		
NH3	0.019		
CO2e	1604.2		

2026

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			
VOC	2.675		
NOx	2.690		
CO	5.461	100	No
SOx	0.010		
PM 10	17.644		
PM 2.5	0.100		
Pb	0.000		
NH3	0.015		
CO2e	1083.6		
Washoe Co, NV			

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VOC	2.675		
NOx	2.690		
CO	5.461		
SOx	0.010		
PM 10	17.644	100	No
PM 2.5	0.100		
Pb	0.000		
NH3	0.015		
CO2e	1083.6		

2027

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			
VOC	0.879		
NOx	2.305		
CO	5.263	100	No
SOx	0.008		
PM 10	0.575		
PM 2.5	0.079		
Pb	0.000		
NH3	0.016		
CO2e	901.1		
Washoe Co, NV			
VOC	0.879		
NOx	2.305		
CO	5.263		
SOx	0.008		
PM 10	0.575	100	No
PM 2.5	0.079		
Pb	0.000		
NH3	0.016		
CO2e	901.1		

2028 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Reno, NV			
VOC	0.208		
NOx	0.214		
CO	2.273	100	No
SOx	0.002		
PM 10	0.007		
PM 2.5	0.007		
Pb	0.000		
NH3	0.013		
CO2e	254.4		
Washoe Co, NV			
VOC	0.208		
NOx	0.214		
CO	2.273		
SOx	0.002		
PM 10	0.007	100	No

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PM 2.5	0.007		
Pb	0.000		
NH3	0.013		
CO2e	254.4		

None of estimated emissions associated with this action are above the conformity threshold values established at 40 CFR 93.153 (b); Therefore, the requirements of the General Conformity Rule are not applicable.

Yvonne Downs, GS-12 / Environmental Manager

DATE