

NELLIS AFB TRAUMA LEVEL III APPLICATION

Mike O'Callaghan Military Medical Center

**Colonel Alfred K. Flowers Jr.
Commander & CEO**





Proposal Overview- Mutual Benefit to Southern Nevada & National Security



National Security

Remain Ready to Provide Contingency Medical/Surgical Care at a Moment's Notice

Overall Trauma System Infrastructure and Integration

Congressional Authorization for Community Partnerships and Civilian Patient Care

Northeast Valley

**Nellis Trauma III
Open to EMS**

Long-Standing Community & Medical Partnerships in the Valley

Backed By DoD Resourcing

Trauma III Capacity

Long drive to Trauma Care

Increasing Rate of Trauma

Population Growth

High Crime Rate

Industrial Sector Accidents

High Uninsured Population

Medically Underserved Area

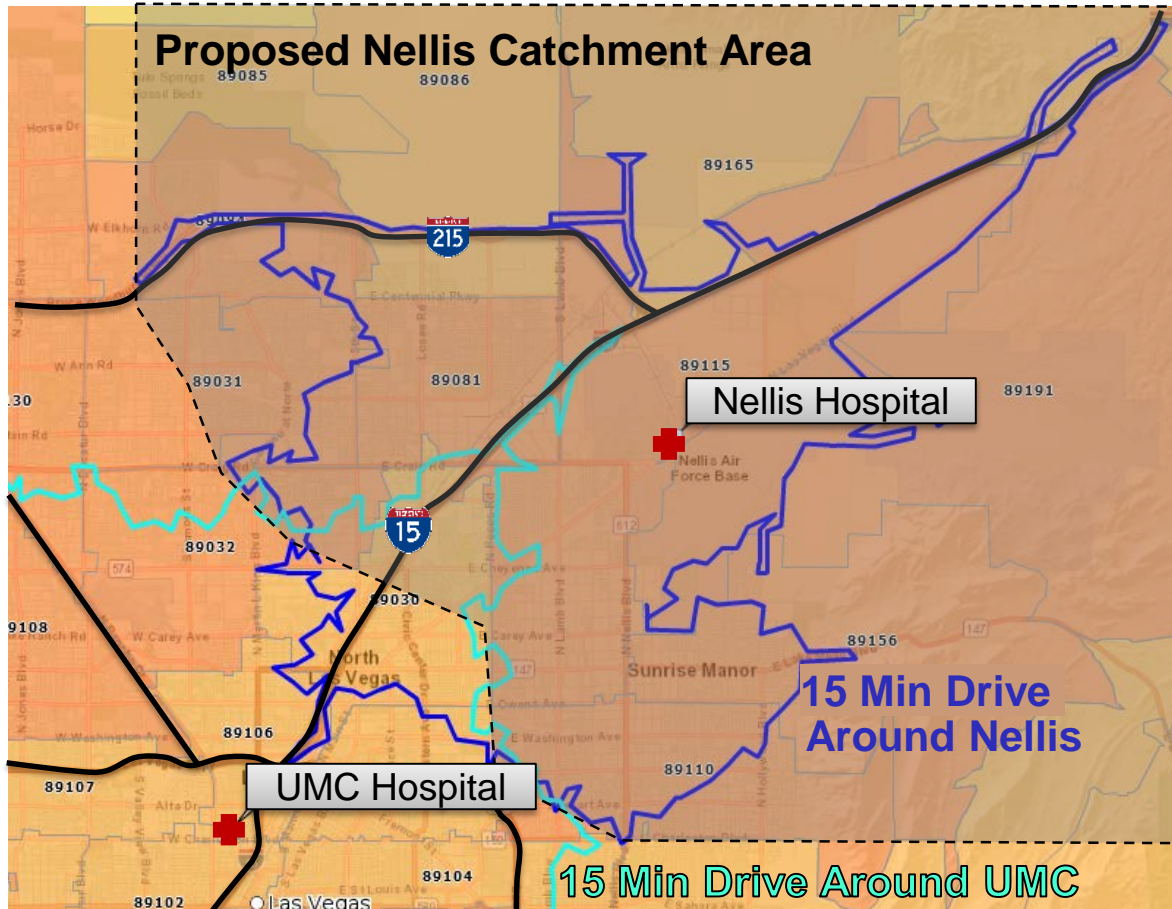
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Serving Northeast Valley



Win-Win Opportunity to Serve Our Community



- >250K population in N/NE
- Currently all UMC Trauma Catchment
- >20 min avg drive to nearest trauma center
- Growth rate on pace or higher than Clark county as a whole
- Step 3 & 4 cases have doubled since 2013
- >900 Trauma III cases in 2017
- >200 Injury Admits to Non-Trauma Centers
- 30% Uninsured

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Nellis & Creech



24/7 Global Support
Advanced Testing
Weapons School
Thunderbirds
Aggressors
Green Flag
Red Flag

11,355 Military Members
3,559 Civilian Employees

27,873 Military Retirees
27,361 Family Members



Nellis has been partnering with the Valley for over 70 years

22K Jobs Created with a \$5.2 Billion Economic Impact in 2017

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Current Services are Trauma III Compliant



In-Patient & Trauma Related Services:

- Cardiac Cath Lab
- Cardiology
- Colorectal Surgery
- Critical Care Unit
- Dialysis-Inpatient Only (Davita)
- Emergency Department
- Endocrinology
- Gastroenterology
- Hematology/Oncology
- Immunology/Allergy
- Infectious Disease
- Internal Medicine
- Infusion Clinic
- Laboratory (w/Blood Bank)
- Nephrology
- Neurology
- Nuclear Medicine
- Multi-Service Unit
- OB/GYN
- Occupational Therapy
- Oral & Maxillofacial Surgery
- Ophthalmology
- Otolaryngology (ENT)
- Pathology
- Pharmacy
- Physical Therapy
- Plastic Surgery
- Psychiatry/Psychology
- Pulmonary
- Radiology
 - Interventional Radiology
 - Mammography
 - MRI
 - CT
- Respiratory Therapy
- Rheumatology
- Social Work
- Speech Therapy
- Sports Medicine
- Surgery (General)
- Ultrasound
- Urology

Other Out-Patient Services:

- Acupuncture
- Aerospace Medicine
- Audiology
- Coumadin Clinic
- Dental/Dental Specialties
- Dermatology
- Family Advocacy
- Family Medicine
- Health Promotions
- Optometry
- Pastoral Care
- Pediatrics
 - Developmental Peds
- Nutritional Medicine
- Sleep Lab
- Social Work

The Air Force is investing in Nellis to ensure 24/7 medical capabilities meet the needs of this community

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Our Mission: Ensure Medically Fit Forces and Improve the Health of All We Serve
Our Vision: Providing Trusted Care... Every Patient, Every Time

99 MDG Personnel		Annual Budget	
Military	1,098	Operations	\$118M
Civilian	148	Manpower	\$165M
Contractors	301	Total Authority	\$228M

Our Beneficiaries	Enrolled	In Catchment
Military	10,383	10,383
Dependents	11,246	14,577
Retirees	25,966	51,939
Guard/Reserve	1,113	4,990
TOTAL	48,708	81,889

Sustained Medical and Readiness Training Program
Provides currency experience to medical personnel Air Force-wide
Provides sustainment of clinical/combat trauma currency
AF Cadre embedded w/ University Medical Center Staff

Medical Education
Accreditation Council for Graduate Medical Education
Family Medicine Residency
Emergency Medicine Residency
General Surgery Residency
Additional Training Programs
Dental Residency
Physician Assistant Clinical Site
Nurse Residency Program
Simulation Lab
Enlisted (Technician) Medical Training (7 Specialties)

Significant Achievements
First military hospital with Tele-ICU capability
Air Force Best Inpatient Facility Patient Safety ('11, '14, '15, '17, '18)
Maximized VA integration; supported 5K veteran visits, VA/military Pilot Site
Integrated Air Force training mission w/ local Hospitals; trained 138 combat ready medics AF-wide, fostering combat ready Airmen
Awards
Heroes of Military Medicine Ambassador Award
Military Quality and Safety Award
Accreditation Council for Graduate Medical Education & Commission on Dental Accreditation w/ zero citations 2017
College of American Pathologist Accreditation 2015
2017 FDA Blood Bank Licensure
3-Year Joint Commission Full Accreditation



Medical Care Overseas

A world map with red circular markers indicating medical care locations. The United States is highlighted in red. Inset images include: a hospital interior with patients in beds; a surgical team performing an operation; Lt. Col. Jason Compton, U.S. Air Force surgeon; and a group of military medical personnel in camouflage uniforms standing in front of a building with the American and Indian flags.

Lt. Col. Jason Compton
U.S. Air Force surgeon

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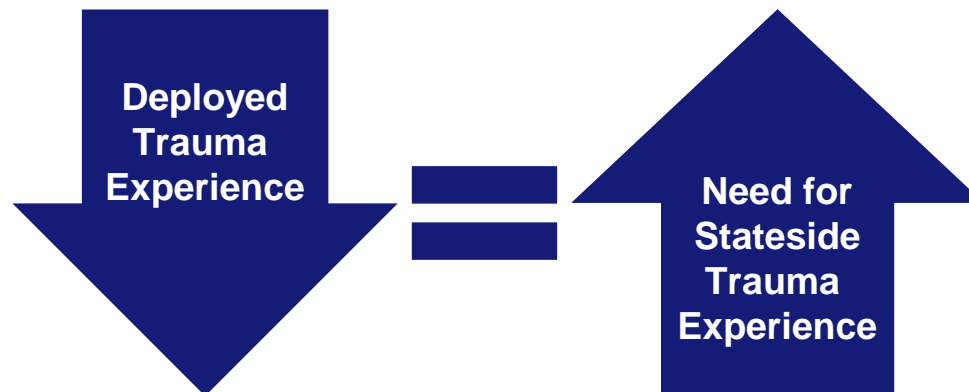
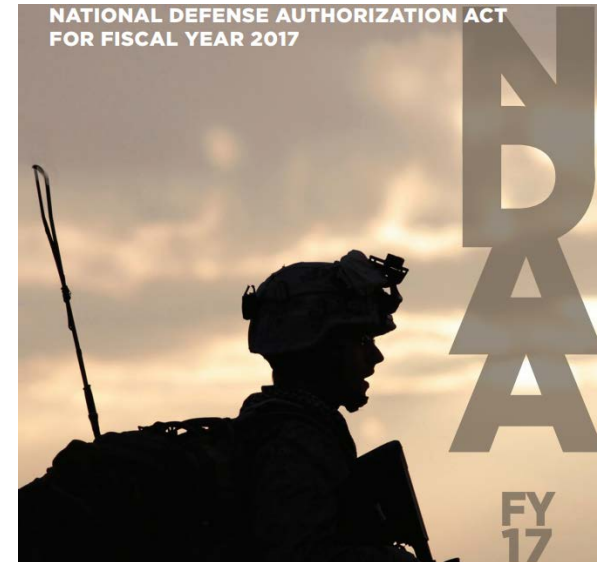


America Needs Military Medics to Remain Ready to Deploy



U.S. military overseas presence is at a 60-year low

Number of Active-Duty Personnel Overseas



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Why Nellis?



Our Return on Investment is Medical Currency for National Defense

- Patient insurance and payer status is not a concern
- Charges will correlate with Medicare/Medicaid reimbursement rates and are posted by the DoD Comptroller for public viewing
 - Collections will help with security & notifications and are not meant to fund operating expenses or generate a profit (max activation fee is \$957)

The Department of Defense is Committed to Success

- The Air Force and Military Health Systems will increase personnel resources at Nellis for trauma care to improve medical currency
 - Personnel redundancy required to ensure 24/7/365 Trauma care
- Nellis Security Forces will ensure EMS has streamlined base access
 - Automatic & seamless entry for ambulance transports

Focus is Community Partnership

- Desire is to integrate and supplement the current Southern Nevada Trauma system to better serve our community
 - Partnering with Southern Nevada provides a Win-Win situation for community support and National Defense
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Headquarters U.S. Air Force

Integrity - Service - Excellence

Supporting Slides





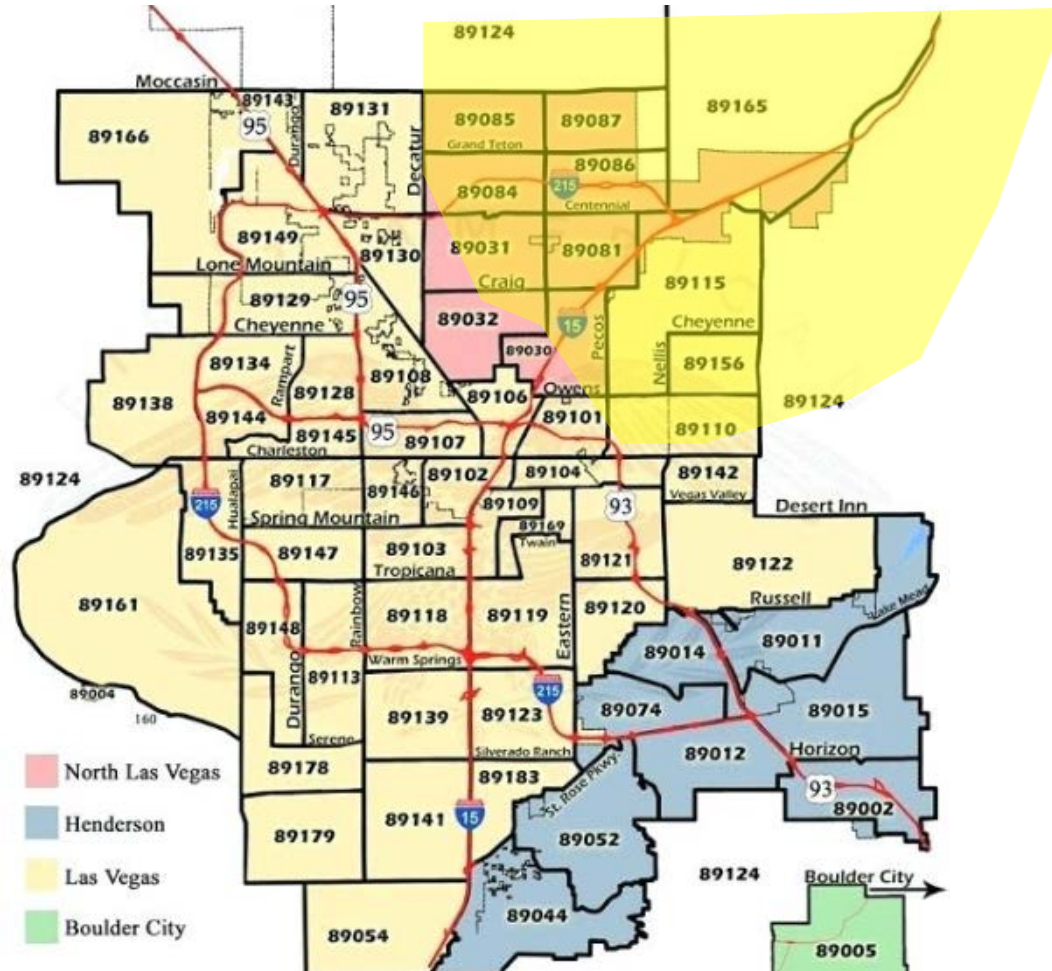
Zip Codes of Primary Trauma Service Area



Proposed Nellis Trauma Step 3 & 4

Service Zip Codes:

- 89124
- 89165
- 89040 (I-95 Corridor)
- 89025 (I-95 Corridor)
- 89115
- 89110
- 89156
- 89191
- 89081
- 89031
- 89086
- 89084
- 89085
- 89087



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Level III Trauma Data for Target Zip Codes



Total Trauma Cases by Zip Code (Step 3 and 4)	year_sent				
	2013	2014	2015	2016	2017
	N	N	N	N	N
89025	12	30	34	21	12
89031	52	47	61	79	108
89040	12	16	12	19	38
89081	39	46	46	59	97
89084	17	16	18	21	37
89085	x	x	x	x	x
89086	8	6	10	17	25
89115	149	159	161	132	312
89124	69	78	55	117	133
89156	31	50	52	62	120
89165	15	17	x	8	18
89191	x	x	x	x	5
Total Step 3	380	414	404	455	466
Total Step 4	25	55	51	82	443
All	405	469	455	537	909

zip_code	Population			
	2014	2015	2016	2017
89025	1,371	1,380	1,393	1,371
89031	66,453	67,887	69,607	70,384
89040	3,875	3,871	3,933	4,045
89081	33,438	34,473	35,806	37,600
89084	24,647	25,213	26,499	27,434
89085	3,586	3,631	3,710	3,747
89086	4,918	4,977	5,085	5,103
89087
89115	69,929	70,805	72,044	73,292
89124	7,164	7,426	7,760	7,573
89156	28,887	29,227	30,081	30,379
89165
Total	244,268	248,890	255,918	260,928
% Growth		2%	3%	2%

Total TFTC by Disposition (Step 3 and 4)	year_sent				
	2013	2014	2015	2016	2017
	N	N	N	N	N
Admitted	77	92	125	133	212
Deceased	x	x	x	x	x
Discharged	277	304	272	340	620
ICU	42	58	41	40	45
OR	8	14	16	22	29
Transferred	x	x	x	x	x

Injured Patients discharged from Non-Trauma Centers in Trauma Registry	admit_year		
	2016	2017	All
	N	N	N
ISS <= 15	92	207	299
ISS > 15	5	19	24
All	97	226	323

	Median Transport Time					All
	2013	2014	2015	2016	2017	
Median Time (min)	20.40	20.70	21.70	22.20	22.80	21.70

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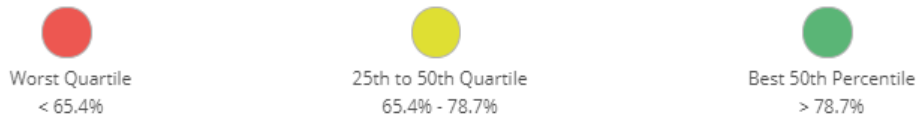
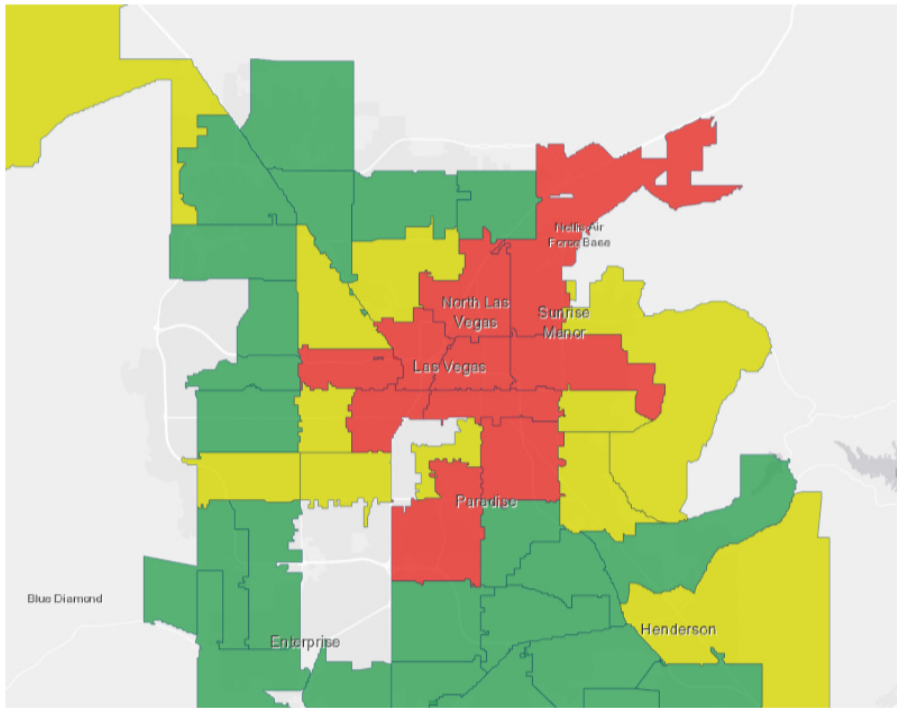


Target Zip Code Demographics

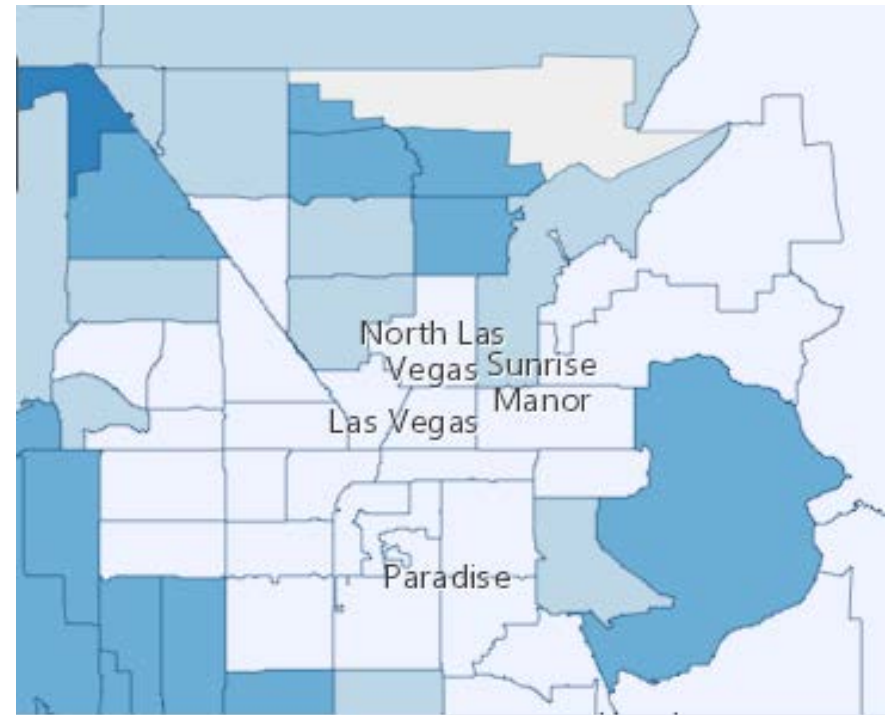


Adults with Health Insurance

Data Source: Behavioral Risk Factor Surveillance System-SNHDD
Measurement Period: 2012-2015



Population Change 2010-2018



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Community Support



- ***State and Local Government***
- ***Emergency Services Providers***
- ***Established Trauma Centers***
- ***Non-Trauma Hospitals and other Medical Entities***
- ***Payers of Medical Benefits***
- ***Educational Institutions***

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Quick Reference Tables

Economic Impact Analysis (EIA) FY17
 Nellis, Creech, & the NTTR

Table 1

Personnel by Classification

Classification	Total
Appropriated Fund Military	11,355
Active Duty	9,827
Reserve / Air National Guard	1,528
Active Duty Military Dependents	27,361
Appropriated Fund Civilians	1,067
General Schedule	883
Federal Wage Board	184
Other APF Civilians	0
Other Civilians	2,492
Nellis, Creech, & NTTR (Total Personnel)	42,275

Table 2

Annual Payroll by Classification

Classification	Total
Appropriated Fund Military	\$745.7M
Appropriated Fund Civilians	\$76.9M
NAF Civilians & On-Site Contractors	\$238.6M
Nellis, Creech, & NTTR Payroll	\$1,061.2M

AFMAN 65-506: 4.3.2.1. Annualized base payroll data is a direct input into the EIA model. Salaries current as of FY16.

Table 3

Retiree Presence & Payroll

Personnel Type	Retirees	Payroll
Air Force	14,278	\$390.8M
Army	5,593	\$143.5M
Navy	6,452	\$166.6M
Marines	1,547	\$45.0M
Total	27,873	\$745.9M

The payroll figure is an aggregate measure of retirees' gross retirement salary from the US Government, analyzed based on branch of service and zip code of residence. *Benefit and/or income equations are not used in this calculation.*

Table 4

Expense Report

Expense Category	Amount
Commissary (Inventory)	\$1.8M
Base Exchange (Inventory)	\$15M
Health (Tri-Care) ¹	\$105.4M
Education (TA)	\$0.5M
Temporary Duty (TDY) ²	\$205.0M
Fuels, Inventory, Equipment	\$721.8M
Government Purchase Card	\$26.6M
Utilities	\$10.9M
Service Contracts	\$98.6M
Construction ³	\$75.3M
Multi-Year Capital Assets ⁴	\$1,863.4M
Nellis Open House Airshow (Nov 2016 – FY17)	\$0.4M
Total Annual Expenditures	\$3,124.7M

¹"Health Expense" is calculated as the cost to the US Government only

²"Temporary Duty" is calculated as: # of bed nights x local per diem rate + # off base bed nights x lodging rate

³"Construction" includes MILCON, NAF, & O&M

⁴"Multi-year Capital Assets" include systems, equipment, materials, supplies, and contracts that require current FY outlays to procure or maintain existing and future mission requirements

Table 5

Total Indirect Jobs Created

Personnel Type	Est. Jobs Created	\$ Value of Jobs Created
Active Duty	4,914	\$213.7M
Reserve/ANG	231	\$14.0M
APF Civilians	672	\$29.2M
Other Civilians	1,570	\$68.2M
Total	7,477	\$325.1M

AFMAN 65-506: 4.3.2.2. The number of indirect jobs created is the mathematical product of the number of installation jobs and DoD Indirect Job Multipliers for respective economic areas.

Note: The DoD Multiplier is provided by SAF/FMC. Multipliers are developed based on the size of the employment base for each region surrounding an installation and the general mission of the base/installation/activity. The number of jobs created is then multiplied by the average single salary of residents of the region. (Average single salary used is \$41,960, as reported by the 2015 Bureau of Labor Statistics for the Las Vegas Metropolitan Area.)

Table 6

Total EIA Estimate

Expense Category	Total
Annual Payroll (Table 2)	\$1,061.2M
Retiree Payroll (Table 3)	\$745.9M
Annual Expenditures (Table 4)	\$3,124.7M
Annual Value of Jobs Created (Table 5)	\$325.1M
Total Annual Economic Impact	\$5,256.9M



Training Partnerships Across the Valley



- **Sustained Medical and Readiness Trained Program (SMART)** - provide currency experience to Medical Personnel (Air Force-Wide)
 - Surgeons
 - Specialty & Surgery Nurses
 - Medical/Surgical/Cardio-Pulmonary Technicians
- **SMART** provides sustainment of clinical/combat trauma currency not available at Air Force MTFs
- Air Force ED Physicians and Surgeons embedded in hospitals across Southern Nevada
- Great for highly specialized medics, **however** does not provide a training or currency platform for:
 - Other medical provider and support staff
 - Ancillary staff
 - Administrative staff
 - Trauma program and network management



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