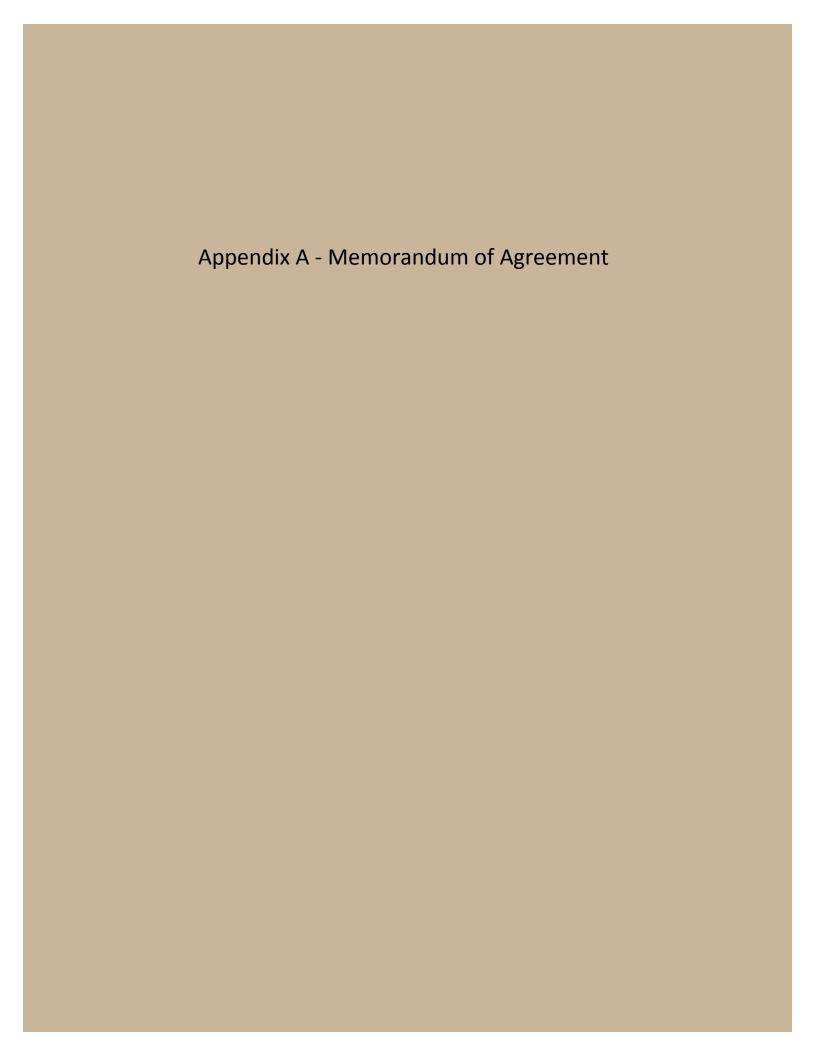




TECHNICAL APPENDIX





MEMORANDUM OF AGREEMENT REGIONAL PLANNING ORGANIZATION FOR THE PURPOSE OF CONDUCTING A JOINT LAND USE STUDY

This Memorandum of Agreement is entered into on the __ day of _____,2012, by and among the following New Mexico Counties: County of Dona Ana; the County of Otero; the County of Lincoln; the County of Sierra; the County of Socorro; the County of El Paso Texas; collectively "the Counties") the City of Alamogordo New Mexico; the City of Las Cruces, New Mexico; and the City of El Paso, Texas, (collectively "the Cities); Ft. Bliss, Holloman AFB, and White Sands Missile Range (the concurring parties who will advise and assist).

- **WHEREAS**, White Sands Missile Range has had significant changes to its test and evaluation mission with the addition of the Network and Advance Brigade Combat Team Modernization (ABCTM) testing; and
- **WHEREAS**, adjacent land use may place military testing missions at odds with some development efforts; and
- **WHEREAS**, wind and solar generation of electricity is a rapidly growing industry across New Mexico and Texas, and placement of energy farms and their associated transmission lines may negatively affect training and testing capabilities; and
- **WHEREAS**, Fort Bliss was transformed through the Base Realignment and Closure (BRAC) process and Army Transformation from an installation with an Air Defense mission to a major maneuver and training installation supporting the 1st Armored Division; and
- **WHEREAS**, noise studies done by the Operational Noise Management Program, in association with BRAC and Grow the Army Environmental Impact Statements, indicate that significant noise levels from new tank gunnery ranges will affect several areas in New Mexico and Texas; and
- **WHEREAS**, Holloman AFB has experienced a major restructuring of its mission, losing the F-22 weapon system and gaining F-16, MQ-1 Predator, MQ-9 Reaper and Eurofighter weapons systems; and
- **WHEREAS**, the Air Force is evaluating beddown of a F-35 training mission and expanding MQ-9 activities; and
- **WHEREAS**, Spaceport America is being developed along the western boundary of the WSMR extension area; and

WHEREAS, New Mexico and Texas possess some of the most open land available in the United States, but there is little chance the trend toward economic growth, cultural sprawl, and efforts to harness alternate sources of energy will slow or cease; and

WHEREAS, for several years, Holloman AFB, White Sands Missile Range, Fort Bliss, the Bureau of Land Management, the New Mexico State Land Office, Doña Ana County, the City of Las Cruces, and Otero County have participated in military coordination meetings, the purpose of which is to coordinate "land use planning" efforts; and

WHEREAS, in recent months, White Sands Missile Range, Holloman AFB, and Fort Bliss have engaged in economic sustainability planning sessions; and

WHEREAS, Holloman AFB, White Sands Missile Range, and Fort Bliss have requested a regional Joint Land Use Study (JLUS) aimed at ensuring the long-term viability of the three military installations in southern New Mexico and EI Paso County; and

WHEREAS, a JLUS is a collaborative planning process designed to identify existing and potential land use conflicts that have the potential to impair the military's mission and impact the public health and safety confronting both the civilian communities and the military installation; and

WHEREAS, the purpose of the JLUS program is to encourage cooperative land use planning between military installations and the surrounding communities so that future civilian growth and development are compatible with military testing, training, and operational missions; and

WHEREAS, the Counties and the Cities intend to work closely with Holloman AFB, Fort Bliss, and White Sands Missile Range in supporting their military missions while addressing potential land-use planning issues and other encroachment factors by establishing a Regional Planning Organization.

NOW THEREFORE, the parties agree to the following terms and conditions for a Regional Joint Land Use Study, to wit:

- 1. The parties shall establish a Regional Planning Organization (RPO) for the purpose of conducting the regional Joint Land Use Study.
- 2. The RPO shall consist of a Policy Committee (RPOPC) and a Technical Committee (RPOTC). The RPOPC will consist of 16 members, with one representative from each of the counties; one representative from each of the cities, one representative each from White Sands Missile Range; Holloman AFB; and Ft. Bliss; the New Mexico State Land Office; the Bureau of Land Management respectively; and two members of the Military Base Planning Commission. The

RPOPC will be co-chaired by the Chairs of the Board of County Commissioners-Dona Ana County and Otero County. Nine (9) members of the RPOPC will constitute a quorum. Each party will select a primary and alternate representative. The Director, Office of Military Base Planning and Support, State of New Mexico will be an ex-officio member of the RPOPC. Membership on the RPOPC will be for the duration of the Joint Land Use Study. The RPOPC will meet quarterly or subject to the call of both Co-Chairs. Meetings will be held at alternate locations as determined by the members and will be open to the public. Meetings can be held electronically, but every effort will be made for members to attend personally.

- 3. The RPOTC will consist of 16 members, with representation from the following counties: Lincoln, Dona Ana, Otero, Sierra, Socorro, and El Paso; Las Cruces, Alamogordo, and El Paso; White Sands Missile Range (Chief of Staff), Holloman AFB; Ft. Bliss; the Bureau of Land Management; the New Mexico State Land Office; the New Mexico Spaceport Authority; and the Director of New Mexico Office of Military Base Planning and Support. The RPOTC will be co-chaired by the Otero County Manager and the Chief of Staff, White Sands Missile Range. Members of the RPOTC will be those representatives of each party who have the skills and expertise to fulfill the objectives of the Joint Land Use Study. Each party will select a primary and alternate member. Nine members will constitute a quorum. Membership on the RPOTC will be for the duration of the Joint Land Use Study. At a minimum, the RPOTC will meet quarterly, though more frequent meetings might be required during the early phases of the Study. Opportunities for various stakeholders and the general public to contribute to the Study will be provided throughout the planning process.
- 4. The County of Dona Ana will serve as fiscal agent for the Regional Planning Organization. The duties of the fiscal agent, on behalf of the Regional Planning Organization, are as follows: apply for a Department of Defense Office of Economic Adjustment grant for the purposes of executing a Joint Land Use Study; administer the grant; issue a Requests for Proposals; review Proposals; and interview (if required) and select a professional services team. All purchasing activities performed by the fiscal agent associated with procurement of professional services for the RPO will involve appropriate representation from the parties to this agreement.
- 5. The RPOPC shall establish and adopt operational and procedural guidelines to govern the execution of the Southern New Mexico & El Paso County Joint Land Use Study.
- 6. The RPOTC will consider, review, and make recommendations to the RPOPC regarding legislation, resolutions, joint powers agreements, orders, policies, and ordinances which might be required in order to address issues identified during the Joint Land Use Study. The RPOPC shall consider, approve, modify or deny recommendations of the RPOTC.

- 7. Except as specifically set forth herein, the parties retain all budgetary and legislative functions, except as specifically delegated to the RPOPC or the RPOTC by this agreement.
- 8. Budget: The RPOPC shall establish a budget for its operation. All budgets must be approved by the parties to this Agreement prior to becoming effective as the parties deem necessary. Each of the parties hereto agrees to pay the following proportions of the required 10% non-Federal contribution ("local match") either through a cash contribution, staff time dedicated to the project, or a combination thereof:

Dona Ana County: 20%

Otero County 15%

Lincoln County 5%

Socorro County 5%

Sierra County 5%

El Paso County 5%

The City of Alamogordo 15%

The City of Las Cruces 20%

The City of El Paso 10%

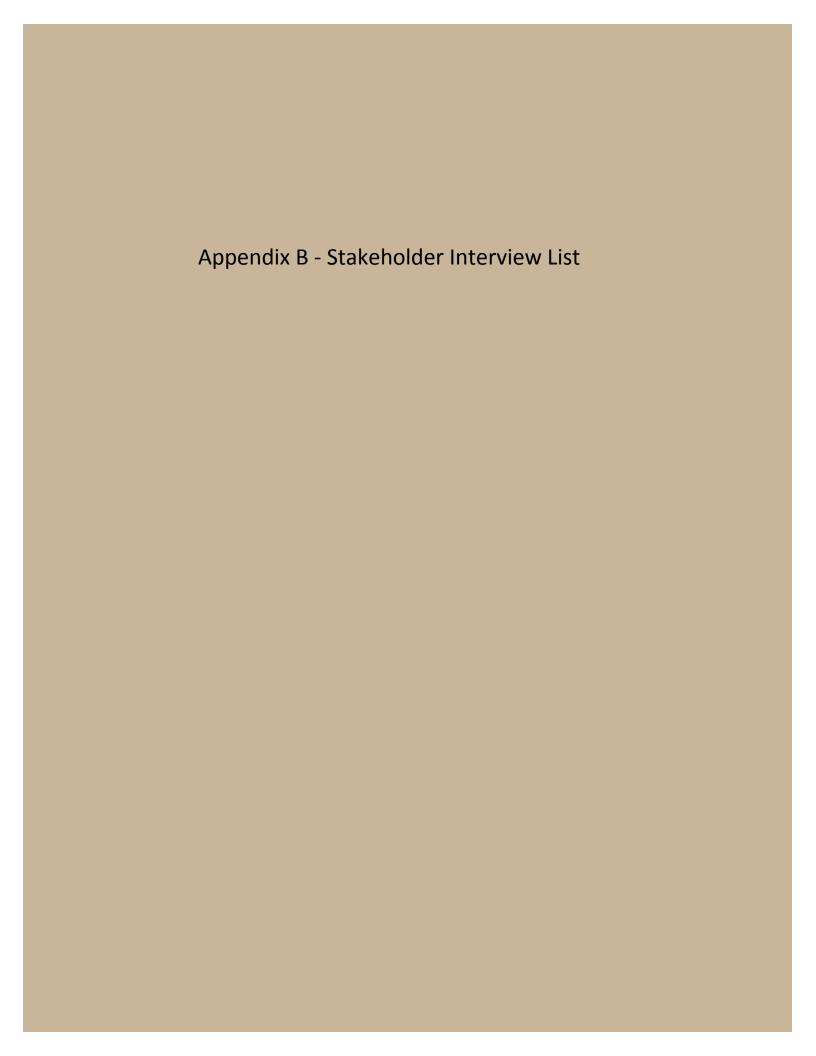
9. Any changes, modifications, or alterations to the matters addressed by this MOA shall only become effective upon approval by all parties and shall be incorporated as a written amendment to this Agreement.

APPROVED
CITY OF ALAMOGORDO
Ву:
Title:
CITY OF EL PASO
By:
Title:

CITY OF LAS CRUCES
By:
Title.:
OTERO COUNTY
By:
Title.:
DONA ANA COUNTY
Ву:
Title:
LINCOLN COUNTY
By:
Title:
APPROVED
SOCORRO COUNTY
Ву:
Title:
SIERRA COUNTY
By:
Title:
EL PASO COUNTY
By:
Title:

THE CONCURRING PARTIES

WHITE SANDS MISSILE RANGE
By:
Title:
FT. BLISS
By:
Title:
HOLLOMAN AFB
By:
Title:



Southern New Mexico El Paso JLUS Stakeholder Interview List		
Organization	Name	Position
New Mexico Office of Military Base Planning	Hanson Scott	Director, Office of Military Base Planning and Support
and Support NM State Land Office	Sunalei Stewart	Deputy Land Commissioner
	Don Britt	Asst. Commissioner of Commercial Resources Division (Policy Cmte. Member)
	Thomas Leatherwood	Director of Commercial Resources Division
	Margaret Ambrosino	Urban and Regional Planner, Commercial Resources Division
Bureau of Land Management	Bill Childress	Regional Director
	Eddie Guerrero	NM International Border Advisor
Spaceport	Bill Gutman	New Mexico Spaceport Authority, Technical Operations Manager
Fort Bliss	Brian Knight	Chief, Conservation Branch
	John Kipp	DPW-E
	Vicki Hamilton	Chief, Environmental Division
	John Barrera	NEPA Manager
	Yvette Waychus	DPW-E
	Wayne Julius	Mission Support Element
	Ray Null	Alternate - Mr. Julius
	Eric Wolters	Observer
	Benny Steigel	Fort Bliss Airspace Manager
	Jean Offutt/Donita Kelly	Fort Bliss PAO
White Sands Missile Range	BG Gwen Bingham	Commanding General
	Bill Gilbert	Interim Executive Director
	Dan Hicks	Chief of Staff
	COL James Winbush	White Sands Test Center Commander

Southern New Mexico El Paso JLUS Stakeholder Interview List				
Organization	Name	Position		
	Greg DeVogel	Chief, Plans and Operations		
	Frank Chavez	WSMR TC-Range Operations		
	Richard Wyman	Regional Spectrum Manager		
	Bob Brennan	WSMR Airspace Manager/Range Operations		
	Danny Medina	Range Commander's Council Rep for Sustainment and Encroachment		
	Cathy Giblin	WSMR-Test Operations, Environmental Engineer		
	Janice Bridges	Range Operations (Real estate contracts)		
	CDR Derek Scott	US Navy Detachment Officer in Charge		
	COL Leo Pullar	White Sands Garrison Commander		
	Garry Lambert	Director, TRADOC Analysis Center		
	Jeffrey Thomas	Director, Defense Threat Reduction Agency (DTRA)		
	Gary Giebel	Army Research Lab		
	Sean O'Brien	Army Research Lab		
Holloman AFB	Jim Iken	Deputy Director for Installation Support Holloman AFB		
	Adam Kusmak	49 CES/CEA, Chief Asset Management Flight		
	Juan Lavarre de Perez	Holloman Airspace Manager (new)		
	Brent Hunt (for Dale Osborn)	49 CES/CEA		
	Will Urick	Holloman Range Manager (Oscura, Red Rio, Centennial)		
	Mr. Tom Fuller	Holloman PAO		
Doña Ana County	Dan Hortert	Director, Community Development		
	Dr. David Garcia	District 2		
	Karen G. Perez	Chair, District 3		

Southern New Mexico El Paso JLUS Stakeholder Interview List		
Organization	Name	Position
	Wayne Hancock	District 4
	Leticia Duarte Benavidez	District 5
City of Las Cruces	Paul Michaud	Senior Planner
	David Weir	Community Development Director
	Vincent Banegas	Community Development Deputy Director
	Christine Logan	Economic Development Administrator
El Paso County	Sergio Lewis	County Commissioner Precinct 2
	Oswaldo "Ozzie" Del Rio	Commissioner's Admin Assistant
	Ernesto Carrizal	Director, County Public Works
	Kevin McCary	Assistant County Attorney
	Gilberto Saldana	Senior Civil Engineer
	John Colquitt	Colquitt Real Estate Company
	Bobbi Wright	Colquitt Real Estate Company
City of El Paso	Matthew McElroy	City Development
	Carl Robinson	City of El Paso
	Aaron Wolfe	Beto O'Rourke, US Representative
	Cindy Ramos	CEO, El Paso Hispanic Chamber
	Steve Dunigan	Planning and Zoning Director, Ruidoso Downs
Lincoln County	Becky Brooks	Executive Director, Ruidoso Valley Chamber of Commerce
	Curt Temple	Planning Director, Lincoln County
	Steve Dunagan	City of Ruidoso Downs
	Ronny Rardin	County Commissioner
Otero County	Pamela Heltner	County Manager
	Bobby Jones	Resident and landowner

Southern New Mexico El Paso JLUS Stakeholder Interview List		
Organization	Name	Position
	Randy Rabon	Resident and landowner
City of Alamogordo	Susie Galea	Mayor
	Marc South	Planner
	Mike Espiritu	Alamogordo Chamber/Otero County Economic Development
Socorro County	Delilah Walsh	County Manager
	Holm Bursum	County Commissioner
Sierra County	Jan Porter Carrejo	County Manager
	Mark Klaene	Observatory Engineer
	Sabrina Flores	Lincoln National Forest

Appendix C - Summary of Public Meeting Input

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APPENDIX A – ROUND #1 PUBLIC MEETING COMMENT SHEETS



Land use cannot be planned without 1) a thorough study of agasters (ly modeling) a recharge study completely through the accion \$ 2) a serious consideration of clinate war ming.

WEBSITE:

http://www.snmepjointlanduse.com

CONTACT:

Daniel Hortert Doña Ana County danielho@donaanacounty.org 575-525-6113



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WEBSITE:

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CONTACT:

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When any of the military units are conducting maneuvers (especially at night) could on the mesa north of Rurdoss-could you please notify our Regional Silvia Blama arroat? Many people call them to ask about what is going on,

Kathryn Monte

WEBSITE:

http://www.snmepjointlanduse.com

CONTACT:

Daniel Hortert

Doña Ana County

danielho@donaanacounty.org

575-525-6113



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http://www.snmepjointlanduse.com

website:
http://www.snmepjointlanduse

contact:
Daniel Hortert
Doña Ana County
danielho@donaanacounty.org
575-525-6113



To promote regional development, we need a road through WSMR from Spaceport to Alamago-Jo/Tularosa area.

Growth at WSMR & F+BWES has caused substantial growth at Las Cruces & El Paso & cities are outgrowing available water supplies. Thus, they are demanding more water From our area. We don't have any extra to give away.

WEBSITE:

http://www.snmepjointlanduse.com

CONTACT:

Daniel Hortert Doña Ana County danielho@donaanacounty.org 575-525-6113 szigdog@gmail.com



DPM road from Tularosa to JES MUNTUR OF WEBSITE:

http://www.snmepjointlanduse.com

CONTACT:

Daniel Hortert Doña Ana County danielho@donaanacounty.org 575-525-6113



WEBSITE: http://www.snmepjointlanduse.com CONTACT: Daniel Hortert citizens. Thanks. Doña Ana County danielho@donaanacounty.org

575-525-6113



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http://www.snmepjointlanduse.com

CONTACT:

Daniel Hortert
Doña Ana County
danielho@donaanacounty.org
575-525-6113



WEBSITE: http://www.snmepjointlanduse.com CONTACT: my animals **Daniel Hortert** Doña Ana County danielho@donaanacounty.org 575-525-6113



As a local business owner in Otero county military families often frequent my business. I would like to see growth in othe military installations in the grea because I believe it would greatly help support local businesses

WEBSITE:

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CONTACT:

Daniel Hortert
Doña Ana County
danielho@donaanacounty.org

575-525-6113



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http://www.snmepjointlanduse.com

CONTACT:

ORMATION Daniel Hortert Doña Ana County danielho@donaanacounty.org

milled 98 chotmail.com 6/13/13 6:15- The military only gets small so graction of total budgets worth and Sun Zia will bure tempory employees and We welcome your comments! is going to calif. perty in the Northern Extension of m concerned how suntia ight or way easement & Is imment that happened to John nathe private Landowners? are private WEBSITE: http://www.snmepjointlanduse.com owners Killely of CONTACT: Daniel Hortert ract raymen Doña Ana County danielho@donaanacounty.org 575-525-6113 nience of evacuations and contracts who



Concerned about the Red Sands Motorcycle + ATV avea (BLM) to stay open and uscuble at all Times, on the approved trails. We the Pairie Dawa Motorcycle Club have only this area to ride to permit once a year for a national vace. P.D.M.C. Pres. Donald LeRoy Harris LeRoy-Zup 18005@Hotmail. com, My great grand Father was murdered Aug 22 1915 in Website Orgrande, I want my grandchrildron to be able to walk http://www.snmepjointlanduse.com in that area

CONTACT:

Daniel Hortert Doña Ana County danielho@donaanacounty.org 575-525-6113 From:

Sent: Thursday, June 20, 2013 11:07 AM

To: Drake, Liz

Subject: Re-Open Engle to Tularosa

I wasn't able to attend the meeting, but I feel you should be aware of an issue that has come up several times in the last few years.

It would really benefit the communities of T or C, Spaceport America, Williamsburg, Elephant Butte, plus Hillsboro, on the West End and Tularosa, Alamogordo, Ruidoso, Mescalero, Cloudcroft, Roswell, Holloman, plus WSMR on the East End if the road was re-opened between Engle and Tularosa through Rhodes Canyon. Much of it is already paved and security could be accomplished with state of the art fences, aerial, satellite, infrared, etc. Even if the road could be opened during the weekends, it would help to have a road across the lower third of New Mexico. Also as the Spaceport and WSMR collaborate more and more, it would provide a more direct supply route, equipment route, payload route, and space vehicle route.

Thank you,

Ms. Liz Drake Urban Planner AECOM 404-965-9672 liz.drake@aecom.com

September 23, 2013

RE: Southern New Mexico – El Paso, Texas Joint Land Use Study (JLUS) questions / concerns.

CC: Mr. Ronny Rardin, Otero County Commissioner, Ms. Susan Flores, Otero County Commissioner, Ms. Pamela Heltner, Otero County Manager, + more - see list

Ms. Drake,

Name

I have a few questions about the fiscal impact on rural residents (me), the study scope and the integrity of this "study". Since Department of Defense (DoD) activities are the heart of this study, my questions focus on DoD activities (present and future). I expect a written response from a knowledgeable DoD representative addressing each of my concerns. Please no generalities or platitudes. I want this letter and these questions made part of the so called "Southern New Mexico – El Paso, Texas Joint Land Use Study", with copies distributed to committee's, subcommittees, meetings, panels, etc as necessary to insure my concerns are addressed completely. Further I want to be included on all communications within this "study".

I require your mailing address for USPS delivery and your FAX number, not just an email address.

As I understand it the present representation and control entities for this "study" is as follows:

Fully Represented on the "Joint Land Use Study" are:

Doña Ana
Otero
Lincoln
Socorro
Sierra
El Paso
Alamogordo
Las Cruces
El Paso
Fort Bliss
White Sands Missile Range
Holloman AFB

New Mexico State Land Office Bureau of Land Management

New Mexico Office of Military Base Planning & Support

New Mexico Spaceport Authority

Entity Type

County Government
County Government
County Government
County Government
County Government
County Government
City Government
City Government
City Government
Department of Defense
Department of Defense
Department of Defense
State Government
Federal Government
State Government

State Government Appointed Panel

Not Directly Represented (or represented at all) on the "Joint Land Use" Decisions Are:

Rural residents in Otero County Rural residents in Lincoln County

Dural residents in Cocara County

Rural residents in Socorro County

Property owners in the affected rural areas.

People with limited internet access such as rural poor and eldery.

As you can see, arguably, most of the proposed negative impact falls on those not directly represented. Excluding these citizens in the study raises questions about the validity, and intentions of the "study". In my

view this "study" enables tyranny of the majority (see John Adams 1788). My individual rights should not be subject to a public vote, especially without representation. My rights are important, I demand they be respected.

As you must know the term "Joint Land Use Study" is prevalent across the United States, wherever there is a significant Department of Defense presence. Indeed, obviously, DoD developed the JLUS as a tool to counter private property rights. Review of the results of these many "studies" shows that they are a precursor to control of private property through zoning (or similar regulation). The private property use loss (or taking) is usually justified by touting the money brought in to local government coffers, the enrichment of a few citizens through DoD money and the need for security (military might). Property is taken by the aforementioned "tyranny of the majority" not by willing sellers.

A "Joint Land Use Survey" almost always uses a word such as "balance" or "balanced" in talking about private property takings. Normally (for most people) this would mean that both of the parties in a bargain gave/took something and the deal was balanced. For example, the Department of Defense would promise not to expand and take more property rights and the private property owners would limit their property use to facilitate DoD operations. That would be balanced (well sort of).

That is not what the "Joint Land Use Survey" process is about. Yes, the private property rights are taken, but the DoD makes no promise not to take more next year or the year after. Effectively the "Joint Land Use Survey" is a one way street toward the DoD. It is primarily for their benefit (minimize their costs). Secondarily, a few people and various government entities enrich themselves. DoD already owns huge areas of the United States and huge areas of airspace. Most of New Mexico is owned by various government agencies (Yet, as a side note, Federal payment in lieu of taxes (PILT) keeps decreasing every year. PILT payments to counties for federal land within their borders, even at its highest rate is lower than the rate private landowners have to pay in property taxes (yes DoD / USFS / BLM have a say in PILT)). Little land area is left for private ownership. Never-the-less DoD wants more. How much is enough? Is there a limit? The mechanism for "taking" is often a "memorandum of understanding" rather that proper due process. MOU are very difficult (impossible) to change for private citizens. Effectively due process is eliminated.

"Balance" is a fiction. For example, in 1995/1997 we "gave" the German's the right to fly LOW over our homes (DoD took our rights). In Weed, NM in 2007 we gave up property rights to allow low supersonic flight over our homes (DoD took rights using a bogus FONSI document). Yes, Alamogordo, El Paso, Las Cruces are enriched (\$\$\$), but what has the DoD ever "given" to Weed/Sacramento/Pinon (leave out the "security" argument please)? The property owners affected received nothing except sonic booms, noise and crashed German aircraft. The claimed positive economic impact was miniscule for us, while the loss was significant. The stated reason the USAF wanted the right to fly supersonic over my house in 2007 was to base the F-22. The F-22 is now leaving. Will the USAF restore my rights? Or will they keep the supersonic corridor over my house? I bet I'll have a long wait if I expect any "balance". This is "tyranny of the majority". It is one way only. JLUS is not a fair or reasonable process. That is why DoD started it, to reduce their costs. It is not about military preparedness, it is about money.

With that preface in mind, a small community that is "offered" (forced into) a "Joint Land Use Survey" by government (see above list of JLUS "Partners" for the government players) must ask itself "What do they want to take from us now?" That is my fact finding mission; What does the DoD want from me? From the Pinon, Weed, Sacramento Communities this time? What will they take from my family?

My questions are simple. I just want to know what the scope of my property loss might be. It would be refreshing to get forthright, honest, complete answers. Here are my questions:

1. Is Night (or day) Joint Training planned, now or in the future, in the Lincoln National Forest (Southern Sacramento Mountains)? This training is typically (not limited to) combat simulations with soldiers traveling over the forest, it could include helicopters, aircraft and simulated combat (pyrotechnics), possibility maneuvering military vehicles. This kind of DoD activity has become common on USFS land (for example, the Cibola National Forest). Since I reside in the USFS (LNF) this kind of activity by DoD is likely to NEGATIVELY affect my quality of life, negatively affect the value of my property, negatively affect my livestock and hurt my business operations. It will reduce environmental quality.

- DoD owns huge areas of New Mexico already. What is the limit? (Will it be the knock on your door?) Will a MOU limiting DoD use of USFS land be drafted? If not why not?
- 2. Are any limits on residential development possible (limitations on dwelling densities for example)? If so why? My property was purchased for my enjoyment and for my economic benefit. Limiting my rights further (over and above existing State/county rules) deprives me of these rights. Using a Memorandum Of Understanding reduces my representation for zoning changes.
- 3. Are any limits on Wind Energy Farms (wind turbines) possible (including allowing DoD to review permits)? If so why? My property was purchased for my economic benefit. One of the few money making uses for land in this area is solar and wind energy development. The Country needs green energy. Preventing my use, including by the use of bureaucratic red tape, hurts me and deprives me of my property rights. DoD is not part of the local government.
- 4. Are any limits on "tall structures" (antennas/wind/solar/etc), over and above the existing, longstanding, FAA requirements, possible? If so why? These structures are used for both solar and wind energy. I purchased my property with the anticipation of that use. These structures are also used to facilitate communications (cell, television, satellite, etc). The Pinon/Weed/Sacramento area lacks a robust communication infrastructure. We have limited cell coverage, limited broadcast television coverage, etc. Many residents rely on satellite and radio for communications. I purchased my property anticipating using communication structures. Limiting my right to improve communications and develop energy for my economic benefit affects me, my business, my family.
- 5. Are any limits on power transmission lines possible (needed for Wind Energy)? If so why? Power transmission infrastructure is critical to development of wind and solar energy. Transmission lines that are "required" to be located far away from the solar/wind generating facility effectively prohibit solar/wind development.. No solar/wind facility can exist without proper support from a transmission line. Imposing limits on transmission lines imposes limits on solar and wind energy development. This problem affects the entire Weed/Pinon/Sacramento area.
- 6. Are any limits on Solar Arrays possible? If so why? DoD complains about "reflections" from solar panels (see numerous JLUS). They are not joking. They have suggested that property owners use solar panels of DoD's selection. No consideration of the cost, availability or quality for these special panels. Other solar energy companies do not have to meet DoD requirements. These are my competition. Increasing my costs to develop solar on my property makes me uncompetitive. In fact requirements and bureaucratic red tape (DoD "review") may make solar impossible (economically). This effectively is the same as taking my right to develop my property. If retro fitting became the "law" (through a MOU) the impact to the Weed/Pinon/Sacramento area will be devastating.
- 7. Unmanned Aerial Vehicles are surveying Communities in the Southern Sacramento Mountains (as "training"). Private information is collected. Are any limits put on this data collection? Who is it shared with? I have an expectation of privacy and I should be secure against unreasonable searches for myself, my houses, my papers, and effects. UAV should not use technology to invade and take my rights. Will a MOU limiting DoD invasion of privacy and the use of this information be drafted? If not why not?
- 8. Are more UAV flights planned? What increase (% or number)? Noise / pollution will increase by how much? The increase in UAV affects the quality of life, rights under the Fourth amendment, my safety and the environment. DoD offers no limits for these issues, rather is looking to facilitate large increases in drone use at the expense of rural residents.
- 9. Are there any UAV "no fly" areas to protect private property and privacy (not those zones required for DoD operations)? If not why not? Are these areas designated by law or whim? Where are these areas? Will a MOU limiting DoD use be drafted?
- 10. DoD owns/controls most airspace in Otero County (FAA is very accommodating for the DoD). Are new Unmanned Aerial Vehicle Access routes being considered? Where? What altitude? What private property will be affected? What USFS land is affected? What hours of operation? Will a MOU limiting DoD routes be drafted? If not why not?
- 11. Are any, new, specific laws planned to protect private property rights from DoD encroachment? If not why not? If so what are the likely laws in general terms? Include planned MOU that limit expansion of DoD.
- 12. Are any, new, noise increases possible (average, peak, etc) in the Southern Sacramento Mountains? This would include noise from Army/USAF/German AF, etc (Multiple Branches and Multiple Countries). It would include UAV, aircraft, helicopters and ground operations. Are any limits on these increases to be set? Are any limits on future expansion to be set? If not why not?

- 13. Are any limits on radio spectrum use possible (through the FCC or not). Are any compatibility/allocation/use issues related to radio frequency interference, radio frequency spectrum possible? If so what spectra is impacted? This question includes requirements for blanking/jamming RF (SATCOM Etc). What are the possible frequency spectrum interference strategies anticipated by DoD? As I stated above the Pinon/Weed/Sacramento area lacks a robust communication infrastructure. Limited cell coverage, limited broadcast television coverage, etc. Many residents rely on satellite for communications. In addition, two way radio is used extensively by private citizens (MURS, GMRS, FRS, Amateur). Otero County uses VHF and microwave frequencies for emergency services. GPS is used for economic benefit. GPS is used for emergency services (for example emergency medical evacuation by helicopter). I purchased my property anticipating using various radio communications. In fact I use EVERY one of the above radio spectrum areas. In addition, I already must accept the existing limits imposed by DoD for the area around WSMR. Now will there be more interference from DoD? Limiting my right to improve communications for my economic benefit and my family's safety affects me and my business. Will a MOU limiting DoD be drafted? If not why not?
- 14. Relative to frequency spectrum impedance, are any limits possible in the construction of buildings or other facilities that block or impede the transmission of signals from antennas, satellite dishes, or other transmission/reception devices in the Southern Sacramento Mountains? Imposing further regulation on building can only hurt development. Requiring property owners to meet DoD's changing requirements destroys the value of their holdings. Will a MOU limiting DoD building control be drafted? If not why not? Will DoD change requirements next year and again the year after and again two years later? What limit is there?
- 15. Are there any service reductions possible for GPS (degradation, jamming, etc)? (see my comments above for both economic and public safety uses of GPS)
- 16. Are any increases/changes in trash dumped on public/private land possible? Examples include flares, pyrotechnic, shell casings, debris, etc. This could be from any DoD activity in the Southern Sacramento Mountains. Will a MOU limiting DoD dumping be drafted? If not why not?
- 17. Is there any possibility that DoD water use/pollution will increase in the Southern Sacramento Mountains?
- 18. Is there any possibility that aquifers in the Southern Sacramento Mountains will be impacted by future DoD operations (explosions, sonic booms, heavy vehicle operation, etc)?
- 19. Are any limits on the use of lighting by residents possible? If so why? My business and personal safety require outdoor lighting. Limiting or requiring "permission" for lighting will negatively affect my operations. At the minimum, loss of lighting rights will add cost and reduce safety for me, my business, and my family.
- 20. Are any limits on "gathering facilities" (arenas, etc) possible? If so why? Our area has a rich history of public gathering. Limiting the right to gather, and to have facilities to gather, is an important right. Traveling "somewhere else" will cost me, and stifles my freedom.
- 21. How does our rural life specifically impact the military's ability to conduct their missions and how are the rural communities and population "encroaching" on the military facilities? Please detail the specific "encroachments" feared by DoD. If none are listed then no JLUS is needed.
- 22. When will those impacted in the Southern Sacramento Mountains be allowed equal representation in these private property rights discussions (JLUS)?

Thank you for seeing that our Southern Sacramento Mountains Communities have answers to these questions. I hope that we do in fact see a "balanced" plan in which we have had equal representation in its formulation, and our rights are honored and protected.

Sincerely,

Walt Coffman
Kathleen Henderson

The Weed Community and Surrounding Areas of the Southern Sacramento Mountains

Mission Statement

To preserve, protect, enhance and defend the health, safety, economic well being, and cultures of the Southern Sacramento Mountains.

Driving Principles

- 1. The natural, and historical conditions and uses of the southern Sacramento Mountains are the economic base and foundation for our way of life.
- 2. Ranching, small business, lodging, camps, recreation, hunting, astronomical observation, entrepreneurship and current and future renewable energy production exemplify our economic base.
 - 3. The survival of this base is dependent upon the maintenance of a quiet, rural grassland and forest environment.1
- 4. Private landowners' have the right to use their private lands freely within the law without unwarranted government intrusion.
- 5. Support of the United States military with the understanding that our guaranteed freedoms, health, safety, economy and way of life are not restricted nor negatively impacted.

¹ Quiet in the mountains is far different than urban quiet. Quiet means "silence", the ability to hear the sounds of nature without the intrusion of man-made noise. This is the foundation for our way of life and economic success

Ms. Liz Drake Urban Planner AECOM (404) 965-9672 liz.drake@aecom.com

Sept 23, 2013

Initial questions presented at the 9-23-13 meeting.

Dear Ms. Drake,

Below are a few of our initial questions. We expect to send additional questions to you, in writing, after the meeting. We ask that all questions to be answered in writing and mailed to me at the address listed below.

- 1- What is the objective of this JLUS study?
- 2- What kind of restrictions can/will the DoD place upon our properties?
- 3- Our understanding is that in order to participate in your survey online access is required. Our area includes a high percentage of elderly and/or low income that does not have a computer or internet access. How will you account for this and assure their voice is heard? Not including these citizens in the study raises questions about the validity of the study.
- 4- How was the data collected on the Southern Sacramento mountain communities/surrounding areas and subsequently analyzed?
- 5- Without the involvement of anyone from those communities/area in the collection of that data how can you consider the data legitimate and how does it meet the requirements of the study as set forth by the DoD?
- 6- Why was this study initiated? By this we mean, what "permissions" is the DoD seeking given the results of the study (what do they want to take from/do to us without our permission?
- 7-Given the huge impact past DoD activities have on our communities/area, how can you insure our rights and concerns will be protected by you and the DoD?
- 8-If we disagree with the findings what resources are available to us to affect change before anything is implemented?
- 9- The recommendations of the JLUS must insure future flexibility so as the missions/ technology and projected uses change, there is guaranteed reassessment and public input before any proposed changes occur. How is your study addressing this issue and assuring its enactment?
- 10- We have not yet seen your on line survey but understand that it will be used to help

determine what permissions will be granted the military in Otero County. In order for any survey of this nature to be valid, fair and balanced, it must include both cause and effect. In other words, if we are asked to vote on allowing A to occur, it must also state what the effects of A will be and on whom. Does your survey account for both the cause and effect of the decisions? If not, why not? Does your survey allow for a cause vote with the effects of that vote to be suffered by those who do not want that permission granted?

- 11- Is night or day joint training planned, now or in the future, in the So Sac mts? This is typically combat simulations, soldiers traveling over forest at night, can include helicopters, aircraft and simulated combat (pyrotechnics), possibly vehicles. This has become common on USFS land (Cibola National Forest) and could involve many countries.
- 12- Are any limits on wind energy farms (turbines) possible? If so, why?
- 13-Are any new laws planned to protect the rights of private property owners from encroachment? If not, why not?
- 14- Are any limits on radio spectrum use possible? Are any compatibility/allocation/use issues related to radio frequency interference, radio spectrum possible?
- 15-Are any new noise increases possible (average/peak/type etc) in the So Sac Mts?
- 16- Are there any UAV "no fly" areas to protect private property and privacy? If not why not?
- 17- Are there any limits on solar, tall structures or power transmission lines possibly needed for wind energy?
- 18- Since there is no representation of rural areas and rural property owners on any JLUS committee, how will the JLUS meet the 1994 Presidential Order "Environmental Justice"-regarding future military activity in defining and addressing any/all adverse human health, safety, environmental and economic impacts especially on rural, low income, elderly populations in Weed, it's surrounding communities and the Southern Sacramento Mountains?
- 19 What regulations, policies and laws will be made to?
 - a) Reduce encroachment on our properties, health, safety and economy?
 - b) Hold Holloman and other military users accountable for adhering to those laws, regulations and policies?

20-It has been our experience that studies done by the military/DoD/Federal Govt selectively include/exclude data and use questionable modeling and data analysis that result in outcomes clearly predetermined to be favorable for the military at the expense of private property owners and local residents. How will this process be any different, especially given we have been excluded in this process to date and surveys are to be conducted on line further excluding residents in our area who do not have wireless or computer access?

- 21- Otero County public meeting, June 12, 2013, recognized supersonic noise over the Sacramento Mountains as a compatibility factor to address. Past military studies regarding noise have been inadequate at best if not completely dishonest. (Averages do not represent what actually occurs) How will this study be any different in addressing this issue?
- 22- Low flying aircraft over our homes and property present a devastating risk to our health, safety, quality of life and economic wellbeing. How will this study account for this risk and recognize our rights to be free from this encroachment?
- 23- Who conducted the radio frequency spectrum interference investigation/ survey and how was it performed? Where are the study results?
- 24- Was the FCC or any other spectrum authorities involved in the local RF data collection and analysis? If so who and what is the contact information of the individuals involved? Generic information is not acceptable.
- 25- How does our mountain life/personal lives specifically impact the military's ability to conduct their missions and how are the rural communities and population "encroaching" on the military facilities?
- 26- Exactly what polices, zoning restrictions and/or legislation is being targeted for revision as a result of this study?
- 27- What are the resources available, at no cost, to the individual and group property owners to rebut and legally force reassessment of the survey results?
- 28-Exactly how do rural communities stand to benefit from actions taken as a result of this survey and how is this, in a "balanced way", equitable to the rural communities and residents compared to that of the military and "urban" communities?

We thank you in advance for your written response to these initial questions.

Respectfully,

John Bell

Weed Community Association President

PO Box 482

Weed, New Mexico 88354

cc: Safe Skies Coalition

Attachment: Weed Community Association Mission Statement

Weed New Mexico Community Association & Safe Skies Coalition PO Box 482 Weed, NM 88354

Date: October 24, 2013

RE: Southern New Mexico/El Paso, Texas Joint Land Use Study - JLUS

Dear Ms Drake,

We are writing to request direct rural representation on all committees related to the JLUS.

As you know, to date all committee members are from urban areas, government entities or elected officials. There is **no** appropriate rural representation on any of the JLUS committees.

We find this disturbing and unacceptable but not unusual. The rural areas are generally the areas that suffer the consequences of decisions made by the DoD through loss of freedoms, drastic effects on our health and safety as well as our economic well being. The best way to continue this pattern of assuring harm is done to those of us living and working in rural areas impacted by decisions made by the DoD is to eliminate us from adequate and direct representation.

Appropriate rural representation should have occurred at the onset of the JLUS process. It clearly did not. The lack of appropriate rural representation demonstrates, once again, the intention of the DoD to take rural citizen's rights and freedoms and to continue to cause us harm.

If the contention is that the County Commissioners represent rural residents on the JLUS committees, then the Commissioners should have also been representing all others areas of the counties including cities and urban areas, resulting in no need for anyone else on the committees. Since this was and is not the case, those other areas (urban, government, city etc.) are given special privilege for their special interests at the expense of the rural populations.

The demographics speak volumes.

Otero County	Population 66,041 (rural-53%)	Sq miles 6,613 (more than 99% rural)
Alamogordo	31,500 (urban-47%)	21 (less than 1 % of the land area)

Your contention that one person can represent the interests of people living in 99% of the land area of Otero County and understand their needs, interests and wishes for this study in the time frame allowed is simply not reasonable or fair for us or for the Commissioner who is representing us for this study.

Your study information states that the DoD/AF bases and activities are continually being encroached upon by civilian activities and "sprawl". We find this narrow and simplistic view

very disturbing and self serving for the DoD since it is not us, in the rural areas, that are encroaching on the military but rather the military that are encroaching on rural communities, without our consent, doing harm to our health, safety, economic well being and way of life. This is simply a sanctioned form of government taking from its citizens without their permission.

We expect that the rural areas of the counties included in the JLUS have appropriate direct representation on **each** of the JLUS committees. This representation for each county is to include

- 1- A rancher elected by the local cattleman's association
- 2- A small business owner appointed by the local community association
- 3- A local rural property owner appointed by the local community association
- 4- An "at large" rural representative who has special interest in this process appointed by the local community association.

Failure to include appropriate direct rural representation (as outlined above) on each JLUS Committee and opening all information and decisions made to date by those committees without direct rural representation for review and change based upon new input, will be interpreted by our communities as JLUS, and those associated with JLUS, granting special privilege to special interests. These special interests support encroachment by the military into rural areas and discount and marginalize the health, safety and economic interests of those of us living and working in rural areas.

We request a written response within ten (10) days of your receipt of this letter.

John Bell

Weed Community Association President and for the Safe Skies Coalition

cc: Commissioner Flores Commissioner Rarden Commissioner Harrel County Manager Hiltner RE: Validity of the Southern New Mexico-El Paso, Texas Joint Land Use Study.

Date: November 25, 2013

From: E. Kazor

x - - 2

PO Box 436 Weed, NM 88354

Ms. Drake,

My husband and I own property in the Weed/ Mayhill New Mexico area. We have chosen to spend our retirement in the Southern Sacramento Mountains. We spent years researching and traveling hundreds of miles before deciding to purchase property in the Weed/Mayhill area. The Weed/ Mayhill area offers what we are looking for; a place of solitude and quiet, a rural setting, and a spirit of community. Since 1999 we have worked hard and invested our retirement funds and sweat equity to improve our property and make it "home".

I have very serious concerns regarding the JLUS, what has taken place to date and what will be generated as a result of the study.

On October 23, 2013 at the Public Meeting in Weed you presented a Power Point show explaining the JLUS process. A question and answer session followed that presentation. A number of your responses to the questions have caused serious concerns about the current JLUS process.

1. Recognition by AECOM of Invalidity of Survey

A statistically invalid survey will be used to make very important decisions regarding the health, safety and economics of our communities.

At the Public Meeting you encouraged area residents to complete an "on-line" survey. At the same time you acknowledged the survey is statistically invalid!!! Did everyone in the "study area" receive the same information....that the survey is invalid? If not, does this not then skew the results of the survey even more? How many people at the October 23rd meeting will not fill out the survey because we were told it is invalid? How many people, who have not been told the survey is invalid, will complete the survey? Probably more. Will this not also skew the results?

In reading other JLUS, the surveys play a key role in JLUS recommendations.

2. Survey is not "Area Specific" but generalized

During the Public Meeting it was clarified that the survey is not "area specific" but generalized. Given that policy development and zoning regulations may be based on the results of JLUS and the survey, explain how results of a generalized survey address the specific economic requirements of a particular area. By applying generalized findings (findings from both urban and rural survey responders) to specific situations (e.g. potential zoning rules for rural areas) questions the validity of the JLUS.

3. The survey is "on-line"

Numerous people from rural areas will be excluded from taking the survey. Urban residents and those with access to computers will represent most of the survey respondents. Based upon survey results, data and recommendations will be skewed in favor of more populated urban areas.

Many elderly and rural residents do not have access to computers or wireless communication. Some may not know how to submit a survey "on-line". Many of these people are located directly under military training routes (MTR'S) or flight zones. Doesn't "on-line" methodology marginalize rural and elderly citizens living under military training routes who will be directly impacted by future plans of the military?

4. Failure to recognize the Relationship between the Environment and Economy

When asked if there would be any demographic or economic assessment of our rural communities or consideration of Environmental Justice your response was "We will certainly look at the environment and natural resources issues. But we don't tie them to a particular demographic or economic status or the characteristics of communities." This statement and position is very short cited. Only half of the picture is painted by only addressing the environment and not assessing the impact that environment has on rural as well as urban economies.

The environment generates the economy of a community and the economy of a community creates the environment. When working with communities, the environment and economies go hand in hand. By not considering the interdependence of the environment and economy and, at the very least, establish an economic baseline (through proper assessment) of urban AND RURAL communities that will be impacted by the JLUS , suggests an invalid study.

5. No Rural Landowners on JLUS Committees

Shouldn't those that will be directly impacted by the recommendations and decisions of the JLUS be "at the table"? While it the urban areas have their own representatives, there appears to be no one who owns property or a ranch in the Weed/ Mayhill/ Pinon/ Sacramento area "at the table". Our communities are located directly under the fly zones of Holloman AFB. The health, safety, environment and economy of Weed/ Mayhill/Pinon/Sacramento NM will be

directly impacted by JLUS and the subsequent decisions based on JLUS. Yet we do not have a voice in those decisions. Why? This lack of proper representation lends credence to the creation of an invalid JLUS.

6. Recognition of Rural Economic Development

Moving in to the 21st century, rural landowners and ranchers are faced with many new and unique challenges. Drought, dependence on unreliable grid systems, economic opportunities to gain footing in renewable resources sector and so forth require a new economic paradigm.

Rural natural resource development will play a very significant role in providing a source of consistent revenue for the State of New Mexico and the creation of state wide employment opportunities. The job opportunities would more reliable and permanent then the current situation in which area employment is unstable and is at the mercy of the DoD, it's ever changing missions and the Federal Government's inconsistent budgeting for military spending. "Dependence on the military leaves the County's economy subject to the vagaries of the US Government's plans (Otero County, JLUS Partner Briefing; Maps and Reports; SNELPTX-JLUS; 2013).

The State of New Mexico recognizes the huge economic potential of rural natural resource development. For example the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) estimates that

"The New Mexico Wind Energy Center will bring more than \$40 million dollars into rural De Baca and Quay counties over 25 years. This includes \$450,000 per year in payments in lieu of taxes to be made to the county governments and school districts; about \$450,00 per year in payments in lease payments to landowners; and an estimated \$500,000 in salaries for the permanent jobs to be created."

and

"New Mexico has the potential to produce many times its own electrical consumption, which puts it in a position to EXPORT (my emphasis) wind electric power."

(Ref: www.emnrd.state.nm.us/ECMD/RenewableEnergy/wind.html)

The above cited reference states the EMNDR'Wind Power Project

"...has provided studies and report of the potential economic benefits of wind power to five counties: Eddy, **OTERO**, Quay, Lea, and Coffer. "

Will this data be considered in the JLUS?

Similar data concerning State wide economic benefits of solar power is available through the EMNRD

In studying the composition of the JLUS Committees, it appears that the Committees are

composed of urban, governmental officials and urban planners. Rural Development or the NMEMNRD is not represented. Not only is this a short sighted situation it is not a balanced one. This situation is contrary to JLUS stated goal of a "balanced" study.

7. President Executive Order 12898 of February 11, 1994 Environmental Justice

During the Public Meeting there was a question of JLUS defining and addressing any/all disproportionally high and adverse human and health and environmental effects (including economic) on the low income, and elderly population of Weed. Sacramento, Pinon and Mayhill. In other words, Environmental Justice. Your response was "We will certainly look at the environment and natural resource issues. But we don't tie them to a particular demographic or economic status or characteristics of a community." "Disparate impacts" are an environmental concern. It is recognized by current researchers and ecologists that humans are part of the environment. Humans (in this case the military) impact the environment and humans (in this case the rural elderly and low income residents) are impacted by the environment. To separate humans from the environment is baffling given current environmental and ecological philosophies.

Future Concerns

Looking "downstream" I have concerns as the JLUS develops.

1. Only positive impacts of military will be presented.

It has been the experience of the residents of Weed, Mayhill, Pinon, and Sacramento N.M. that studies involving the DoD result in findings that are favorable to the military.

The F-22 EIS stated "Findings of No Significant Impact" (FONSI). However, the F-22 and the flight zones created as a result of the F-22 have significant negative impacts on our communities. The FONSI was and remains a false conclusion.

In the F-35A Training EIS the citizens of Weed, Sacramento, Mayhill and Pinon expressed serious concerns regarding the health safety and economic impact the F-35 would have on our communities if Holloman was chosen as the basing site for the F-35. That EIS minimized our concerns by not properly addressing our questions or assessing our communities. Our concerns were labeled as an "annoyance" in the Final F35 EIS. The positive impacts to Alamogordo were emphasized. The negative impacts to our communities were minimized or not addressed.

Will the JLUS be comprehensive and balanced by evaluating both the positive and negative impacts the military will have on not only urban areas but RURAL areas as well?

2. Future Environmental Impact Statements

How will the results of the JLUS affect future Environmental Impact Statements? Will the results and recommendations of JLUS be used as a method to by-pass or abbreviate any future NEPA /EIS processes? Will a statement be found in JLUS stating that the JLUS document is not

to be used as a "short cut" to the NEPA process?

3. National Environmental Policy Act (NEPA) and Noise Control Act of 1972

Congress declared through the NEPA that it is the responsibility of the Federal Government to "..improve and coordinate Federal plans, functions programs and resources to the end that the Nation (among other directives) attain the widest range of beneficial uses to the environment without degradation, risk to health and safety, or other undesirable and unintended consequences." (attached: NEPA Policy Act)

The Noise control Act of 1972 declared that it is a policy of the United States to promote an environment for all Americans free from noise that jeopardizes their health and safety.

While it is recognized that the JLUS makes only recommendations, not policies, will the JLUS recommend the military adhere to NEPA Policies and the Noise Control Act when designing, implementing and evaluating plans, programs etc that impact urban and **rural** areas?

I expect this letter to be entered into the Southern New Mexico-El Paso Texas Land Use Study as public comment.

I look forward to your written response to each of the concerns and questions I have expressed in this letter.

Thank you.

Singerery.

Ellen Kazor PO Box 436

Weed, New Mexico 88354

cc: US Senator Martin Heinrich, US Senator Tom Udall, US Rep. Steve Pearce, NM Senator Ron Griggs, NM Rep William Gray; Commissioner Tommie Herrell; Commissioner Susan Flores; Commissioner Ronny Rardin; Otero County Manager Pamela Heltner

Weed Community Association PO Box 482 Weed, New Mexico 88354

Re: Southern New Mexico-El Paso, Texas Joint Land Use Study (JLUS)

November 28, 2013

Ms Drake,

As per your request of 9/23/13 the Weed Community Association and the Safe Skies Coalition are sending you the data showing that the DoD, Air Force and agencies contracted by the military have, for the most part, refused to recognize and properly address the concerns of our communities.

We believe that our health, safety and economic well being are compromised as the DoD seeks to maximize their use of lands and air space that surrounds us..

Options exist that would meet the needs of the Air Force and preserve the health, safety and economy for our communities. However, the Air Force has refused our requests to have a meaningful dialog with our communities.

Since you stated you and your company are a neutral party, we are sending you material with the hope that the JLUS study will result in recommendations that protect the health, safety and economic well being of residents of the Southern Sacramento Mountains.

Organization of attachments

Section I:

Mission Statement of the Weed Community and Surrounding Areas of the Southern Sacramento Mountains

Section II: History

The history documents continued and expanding encroachment of the military upon private property owners in the eastern Sacramento Mountains.

Section III: On the Ground

The data titled "On the Ground" illustrates the damage done to the residents of the Sacramento Mountains by the USAF and German AF. The military has demonstrated an unwillingness to address issues of residents' health, safety, and economic well being.

Section IV: Economics and Population

This section reflects data gathered in 2011 by a community member. Since requests for a valid and reliable socio/economic study of the Weed, Mayhill, Sacramento and Pinon area has not been done by any official entity, these are the most accurate figures we have.

Section V: Literature and Data

This section cites some of the research and the literature citations that were presented to the military through 2012 F-35 EIS NEPA process. This information was discounted by the DoD EIS the contractors and military. We believe this data is still very pertinent to the current JLUS. Refer to the <u>Final F-35 Environmental Impact Statement</u> to substantiate these claims, especially the section "Responses to Letters". New data is presented as it relates to the current JLUS process. More data is available but to present more in this document would be overwhelming.

I and the members of the Safe Skies Coalition expect this document to be entered into the Southern New Mexico- El Paso, Texas Joint Land Use Study and become a permanent part of the record.

Sincerely.

John Bell, President

Weed Community Association

and for

Safe Skies Coalition

Cc: Commissioner Ronny Rardin, Commissioner Susan Flores, Commissioner Tommie Herrell U.S Senator Tom Udall, U.S. Senator Martin Heinrich, U.S Congressman Steve Pearce N.M. Representative William Gray, N.M. Senator Ron Griggs, Otero County Manager Pamela Heltner

The Weed Community and Surrounding Areas of the Southern Sacramento Mountains Mission Statement

To preserve, protect, enhance and defend the health, safety, economic well being, and cultures of the Southern Sacramento Mountains.

Driving Principles

- 1. The natural, and historical conditions and uses of the southern Sacramento Mountains are the economic base and foundation for our way of life.
- 2. Ranching, small business, lodging, camps, recreation, hunting, astronomical observation, entrepreneurship and current and future renewable energy production exemplify our economic base.
 - 3. The survival of this base is dependent upon the maintenance of a quiet, rural grassland and forest environment.¹
- 4. Private landowners' have the right to use their private lands freely within the law without unwarranted government intrusion.
- 5. Support of the United States military with the understanding that our guaranteed freedoms, health, safety, economy and way of life are not restricted nor negatively impacted.

¹ Quiet in the mountains is far different than urban quiet. Quiet means "silence", the ability to hear the sounds of nature without the intrusion of man-made noise. This is the foundation for our way of life and economic success

History of Holloman with Weed, Sacramento, Mayhill and Pinon Communities

The following is a brief account of the history rural residents and ranchers of the South Sacramento Mountains and ranchers, once located in now the White Sands Missile Range, have with the DoD and Holloman Air Force Base. Given the time frame of the JLUS, it is difficult to capture more facts. Additional facts are scattered throughout numerous archived documents.

This history documents the encroachment of the military upon area private property owners and ranchers.

1940's- During WWII the Army/military ran off many ranchers who lived in the area that became the White Sands Missile Range. Many of the ranchers said they were told by the military officials that this was a temporary situation and that the military would return these private properties back to the ranchers after the war. Acting in good faith, some of these ranchers left their furniture, dishes, and personal items in their homes thinking they would be gone for only a short period of time. That was over 70 years ago and the ranchers have never been allowed to return to their properties.

One of these homes was the McDonald Ranch house. This home has not been restored by the Army, the Department of Energy or the National Park Service but has not been returned to the McDonald family (ref: Tina Prow, White Sands Ranchers Take Aim With Figures For Their Losses, Feb 1984: McDonald Ranch. Wikipedia.)

Late 1950's and early 1960's - The military forced ranchers off their private lands to create McGregor Missile Range. One of these ranchers, John Prather, owned several thousand acres of private land on what is now the McGregor Missile Range. Mr. Prather refused to sell or leave his ranch so the military decided to run him off. Mr. Prather called the newspapers and television stations and invited them to witness the military carry out their threats. The military backed down several times. Friends and neighbors took Mr. Prather food and supplies so he could stay on his ranch and defend his property rights. The military was unable to remove him until he became sick and then died. John Prather is a folk hero among many people.(ref: NM Farm and Ranch Museum/Porter, Irving and multiple other sources). The Prather family still maintains a strong and respected presence in the Sacramento Mountains.

Currently - Many of the ranching families in the Weed and Pinon area are descendants of these ranch families. These families feel strongly that the Army/military have taken advantage of them, their families, friends and neighbors over the past 60-70 years. Sixty to seventy years later some ranch families have still not been reimbursed for private property taken from their families by the military. As a result of this history, there is a lot of distrust and even animosity between the ranching families and the military.

Ranchers feel they have not been properly represented in the past. They insist that ranchers and other business people that live in the Southern Sacramento Mountain area be appointed to serve on the JLUS committees.

1991- DoD based the German AF at Holloman and allows them to fly at 500 feet traveling at 520 mph over the Sacramento Mountains. Ranchers filed suit in Federal Court. The ranchers

lost.

1997- German AF doubles the number of planes and sorties impacting the communities and ranches in the Sacramento Mountains with a proportional increase in very low and fast jets flying over our homes and properties.

December 2, 1998 - "Germans reject U.S. jurisdiction over training flights" ODESSA, Texas (AP)- The German Air Force says the United States has no court jurisdiction to restrict it's Luftwaffe pilots from low-level training missions in West Texas.

The Luftwaffe responded last week to a lawsuit filed by a coalition of ranchers in U.S. District Court. The plaintiffs claim the low-level flights endanger people and livestock.

Near-collisions have been reported with civilian aircraft as well as spooked horses throwing cowboys and people being bowled over by powerful downdrafts the planes create at low altitudes.

Defendants in the lawsuit include both the Luftwaffe and the U.S. Air Force, which is training German pilots at Holloman Air Force Base in Alamogordo, N.M.

No date has been set for the lawsuit to be tried.

Plaintiff Kaare Remme told the Odessa American that the Luftwaffe's claim to diplomatic immunity is "just crazy".

"What are we supposed to do? Let a foreign power operate here illegally? Do we have to call Border Patrol?" asked Remme.

Remme said the German Air Force claim to immunity runs counter to the Holloman "bed-down" agreement it signed in which it agreed to abide by the laws and regulations of the U.S. Air Force before beginning operations in the United States in 1991.

2007- DoD/ USAF established a new, low altitude supersonic corridor over Weed/Pinon. Only the very legal minimum was done to inform rural residents. A request to extend the F-22 Draft EIS review period so that residents could be informed of DoD/AF actions was denied. Finding of "No Significant Impact" (which is untrue) by the DoD/Air Force allowed supersonic flight at low altitude over rural residents.

2008- Holloman AFB intentionally creates sonic booms over communities even though such activity is forbidden by USAF regulations. "The 49th Fighter Wing has developed a plan using T-38 aircraft to conduct supersonic flights to familiarize the local communities to sonic boom noise caused by supersonic flights" Lt. Col Linda Haseloff, Holloman AFB Public Affairs 3/8/2008.

2009-2012- F-22's based at Holloman result in increased numbers of supersonic flights and sonic flights over our communities. Sonic booms increase in numbers and intensity to include focused

sonic booms. Area residents experience the detrimental effects of intense and numerous sonic and focused sonic booms.

2010 - Local residents resist F-35 basing at Holloman. A basing of F-35's at Holloman would have resulted in hundreds of F-35 flying supersonic speeds at low altitudes above our homes and properties. The F-35 is extremely noisy.

The F-35 Final EIS states that F-35's flying over our homes and properties at supersonic speeds and at altitudes of 300 feet be only an "annoyance" to spite facts to the contrary.

No assessment was done of the Weed/Sacramento/Mayhill/Pinon areas concerning impacts of the F-35 prior to the conclusion of "annoyance".

That EIS stands today and is the reference document for future basings of the F-35 at Holloman.

2011- Drones are placed at Holloman. No considerations of impacts to rural residents and only the legal minimum was done to inform rural residents. Our communities were not informed of any EIS

2013- A Joint Land Use Survey is started (the DoD is a major financier and instigator). This is a method to abbreviate the EIS process and enable DoD encroachment activities in rural Otero County.

The Weed Community Association and The Safe Skies Coalition request representation on JLUS committees of private property owners and ranchers that live in the Weed, Sacramento Mayhill and Pinon areas.

On The Ground

Listed below are some of the detrimental and life threatening effects the citizens of Weed, Sacramento, Pinon and Mayhill have endured due the Air Force, it's activities and it's continued encroachment into our rural lives. The list is far from complete but serves to demonstrate the fact that our health, safety and economic well being are continually jeopardized by military activities over our communities on a daily basis.

These facts will not be found in any of the DoD's data. The DoD/AF chooses to ignore these facts.

German Air Force (GAF)

The GAF has (and continues) to fly very low and very fast over rural people while they work or use public lands. The planes often fly at 500 feet above the ground and 550 mph. This startles people and livestock. There are documented cases of the GAF "buzzing" homes at less than 200 feet above a home. This is illegal. The GAF has a poor safety record with plane crashes in our area (as well as Germany). Since the 1990's the GAF has terrorized local ranchers, homeowners livestock and visitors to our area.

As a result of sonic booms

A husband (an experienced heavy equipment operator) and wife were moving large boulders. A sudden sonic boom caused the operator to almost loose control of the equipment swinging the boulder dangerously close to the wife, who was helping. The wife was almost hit by the boulder. Had she been hit she would have died. The wife was so frightened and stressed by the experience that she was bed bound and unable to participate in social activities for some time after that.

An owner of a horse reported her horse charged into a barbed wired fence when frightened by a sonic boom. The horse sustained numerous injuries. Expensive vet bills expenses were incurred by the owner,

A farrier was almost kicked and trampled by a horse when the horse was startled by a sudden sonic boom. The farrier was able to jump free without injury.

A house ridden by a very experienced rider suddenly reared up when hit by a sonic boom. The rider was almost sent falling off backwards. Had the rider been inexperienced, serious injury would have occurred This rider often guides inexperienced young campers on horseback rides throughout the mountains. Fortunately, the rider was alone at the time. An inexperienced rider would have suffered very serious injuries.

A horse owner watched as his three horses charged into a barbed wired fence when they were startled by a sonic boom.

One rancher reports an unusually high number of cows aborting. The rancher suspects the

increased rates are due to the increased frequency and intensity of sonic booms over his ranch. Studies cited in the F-35A Training Basing Environmental Impact Statement (Appendix B-pg 32) supports this experience. Result: Loss of income.

A wife of a US military veteran (Viet Nam) reports her husband is so fearful that he "goes for his guns" when he is exposed to sonic booms.

A spiritual and health spa owner provided services to military personnel. Some of the service personnel experienced PTSD and came to the spa seeking emotional and spiritual healing. Sudden sonic booms impeded the healing process.

The owner of a retreat center reported clients would not return because of sonic booms. As a consequence of the sonic booms, income has been lost..

Community elders experience true fear when exposed to sonic booms.

Numerous reports of the cracking of sheet rock in a number of homes.

September 29, 2009
From a resident of Weed, New Mexico as reported to Holloman AFB PR

"Today my business was subjected to eleven (11) sonic booms between 2:15 PM and 3:00 PM (Yes, 45 minutes and 11 BOOMS!). Wow !!! Please, just picture yourself at work in a quiet setting, concentrating, then suddenly a building shaking boom hits you. Again, and again, and again. Every three minutes for 54 minutes. How would that affect you? How could you conduct business?"

February 16, 2010
Same resident as above. As reported to Holloman AFB, PR

Location- Rural Sacramento Mountains.

Time: 6:55 PM ("shake the house" 2 BOOMS together

6:56 PM (mild Boom)

6:56+ PM ("shake the house" BOOM)

6:58 PM (mild BOOM)

March 5, 2010

Seven, terrorizing, earth shattering sonic booms within ten minutes:

Here are just a few results of this episode.

Pictures falling off of walls Livestock stampeding Pets cowering under furniture Citizens fearful for their lives One citizen was so frightened while the walls of the building she was in shook, that she was crying out "When will they stop? Why are they doing this to us?" One citizen almost lost control of her vehicle after the fifth the sonic boom. Citizens were fearful and felt terrorized!!!

When these and other facts were presented to the Holloman Base Commander at a public meeting (as a result of legislators' direction), his response was "Submit a claim".

Many residents of our community reported symptoms associated with PTSD after this experience. Fear of not knowing when the next round of sonic booms would occur and fear of how destructive the booms would be pervaded the community for days. For some residents, this fear endured for weeks.

At first Holloman denied any knowledge of this incident. Later we were told that there was a chance a for a space craft landing at Holloman and that last minute changes to flight scheduled had to be made. The pilots in charge of the flights that day chose to fly over our communities and chose maneuvers that resulted in the terrorizing sonic booms.

When pressed about these incidents, Holloman's PR stated "The mission comes first."

Focused Sonic Booms

Focused booms defined: Very intense sonic booms caused by sudden maneuvers or directional changes of aircraft flying at supersonic speed. The quick maneuvers cause excessive pressures and noise that far exceed a "normal", "thunder-like" sonic boom. People, animals, and properties under the focused booms experience detrimental effects of increased over pressures and extreme increase (five to ten times!) in the severity in sonic boom noise.

A property owner experienced concussion-like forces when exposed to a focused boom while working in a ditch. He was unable to function for some time after the exposure.

At the same time the wife of the above property owner was in their home and experienced what felt like an implosion on their new home. Windows flexed and she felt that their home was going to fall in around her. She experienced momentary compressive forces.

Another property owner experienced a similar flexing windows in his home.

A resident was using a table saw when he was exposed to a focused sonic boom. The startled response experienced by resident resulted in a piece of wood being caught in the table saw at an improper angle. The wood was launched into the wall behind the owner. At the same time the spouse, experiencing the same focused sonic boom forces, thought that a hot water heater blew up in their shop. The husband thought the boom was caused by a water heater blowing up in the house. No injuries were sustained but nerves were unraveled and lasted for some time after the focused sonic boom

Economics and Population as of 2011

There are over 600 residents in Weed, Sacramento, and Pinon and many more in Mayhill.

There are three recreational camps within a ten mile radius of Sacramento. 10,486 campers and counselors were served. Sixty percent of this number were under the age of 18 and 400 of the campers were disabled. The camps also serve as a respite for active military personnel. One camp alone will serve close to 50,000 meals in 2013.

Sonic booms and focused sonic booms are detrimental to the health and safety of the campers.

Emergency call systems used by the local and regional EMS Services depend on radio frequencies.

There are 21 businesses in Weed, 14 in Sacramento and 10 in Pinon. Many of these businesses require the use of wireless communication in order to survive.

Four of these establishments are astronomy . The astronomy businesses require wireless communication in order to conduct national and international research, to provide distance education to students nationwide and to access the skies. Sensitive and expensive instruments and equipment are being used by the astronomers. The instruments and equipment are susceptible to damage from sonic boom and electromagnetic interference. Thus research and education are compromised at a very expensive price.

There were a number of Bed and Breakfast, retreat centers and spas. One had to close due to the noise and stress clients endured due to sonic booms.

In the late 1980's (pre -F-35 and pre Drone technology) the U.S. Navy, in it's EIS re: Supersonic Operating Area at Fallon AFB Nevada recognized that some residents living under MOA's may be so severely affected by sonic booms that they would be required to relocate. (895 F.2d 1416 Bargen vs. DoN, FAA, EPA).

Data from Literature

Below is just a very small sample of the data that supports our concerns regarding the health, safety, and economic welfare of the communities of Weed, Sacramento, Mayhill and Pinon.

More data is available upon request

The Environment

Carefully read the National Environmental Policy Act Sec. 101[42 USC 4331]. A copy is attached. While we are aware that the JLUS Committee cannot require actions, we would like a recommendation to include the DoD/AF "adhering to NEPA law for rural as well as urban citizens."

Sonic Booms

- 1. In November 2005, the Israeli Air Force began using sonic booms over the Gaza Strip as a military tactic to "instill fear into terrorists". A joint petition submitted by Israeli and Palestinian medics on Nov 2nd "demanded an end to the tactic that was said to be "...terrorizing the civilian population of Gaza..." The petition further added "The psychological damage caused by sonic booms amounted to 'collective punishment' noting that the Israeli Air Force no longer flew over residential areas at speeds exceeding the speed of sound due to the stress it caused." www.americanintifada.com/2005
- 2. As of March 22, 2009: Israel warplanes carried out sonic booms in the skies of Gaza Strip Sunday afternoon, causing wide-spread panic witnesses said.(AFP, date: 11-13-05)
- 3. On March 5, 2010 our mountain communities experienced seven earth shattering, house shaking sonic booms within ten minutes. Refer to "On the Ground" for details
- 4. October 20, 2013- Two current studies: The first shows "...a statistically significant association between exposure to aircraft noise and risk of hospitalization for older people living near airports". The second study "...found US seniors on Medicare who were exposed to the most airplane noise were also most likely to have been hospitalized for heart disease. (British Medical Journal 2013;347:f5561 Residential exposure to aircraft noise and hospital admissions for cardiovascular diseases: multi-airport retrospective study).

"These studies provide preliminary evidence that aircraft noise exposure is not just a cause of annoyance, sleep disturbance, and reduced quality of life but may also increase morbidity and mortality from cardiovascular disease." (Stephan Stansfeld, Professor of Psychiatry ,Wolfson Institute of Preventive Medicine)

The populations of Weed, Mayhill, Sacramento and Pinon are largely elderly and on Medicare. Thus, there is a public health issue with super sonic noise over our communities. The DoD/AF does not recognize the health impact of sonic booms but considers sonic booms as an annoyance.

Radio Astronomy

There are serious concerns regarding the effects of future military programs and their the use of unmanned aerial vehicles (UAV) and electromagnetic interference (EMI) as these activities relate to radio astronomy.

Weed, Mayhill and Sacramento are homes to a number of astronomy bases, some of which plan to employ radio astronomy. Telecommunications, medicine, and industry have benefitted and advanced from the contributions and innovations of radio astronomy.

The National Telecommunications and Information Administration (NTIA) and the Federal Communications Commission(FCC) recognize that the public interest can be served by providing for radio astronomy service.

Coordinated long range spectrum compatibility analysis and planning should be a consideration of the JLUS study.

Refer to C-Band and Ku-Band UAV Line -of- Sight Data Link EMC Analysis For Two Operational Scenarios. Prepared by Bonter, Steve, Dunty, Diana, and Mangrum, Amy for the Office of the Assistant Secretary of Defense, October 2004. PDF document (JSC-04-054.pdf). This document discusses in detail the DoD Strategic Spectrum Plan from February 2008.

APPENDIX B – INITIAL COMPATIBILITY PRIORITIZATION EXERCISE RESULTS

- Primary purpose of the JLUS is to minimize or when possible prevent land use compatibility challenges
- Land use compatibility challenges occur when:
 - Certain types of development limit the ability of the military to perform its mission or cause changes in operations that reduce mission effectiveness; or
 - Communities
 experience higher
 than normal
 levels of impacts
 from military
 activities, such
 as noise or safety
 risks, which can
 then affect land
 uses
- Impacts are spread across the six-county study area and do not always occur close to installations

Initial Compatibility Factors

Aviation Noise (related to Low-Level Military Training Routes)	
Aviation Noise (related to Supersonic Operations)	
Range Noise	
Energy/Renewable Energy Development	0000000000000000
Towers (related to obstruction of aviation routes)	
Road Closures (due to military exercises)	
Trespass (onto or off of military land)	
Access to Co-Use Areas	
Use of Call-Up Areas	
Airspace Management	
Use and Protection of Cultural/Natural/ Recreation Resources	
GPS Jamming and Frequency Spectrum Interference	
Quality of Life/Accommodating Military- Related Growth	
Coordination/Communication between Military/Communities/Agencies	
Water	
Light Pollution	
Mining (related to affect on military testing)	
Wildfires (related to military exercises)	



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Initial Compatibility Factors

Aviation Noise (related to Low-Level Military Training Routes)	
Aviation Noise (related to Supersonic Operations)	
Range Noise	
Energy/Renewable Energy Development	
Towers (related to obstruction of aviation routes)	No No
Road Closures (due to military exercises)	not concerned
Trespass (onto or off of military land)	
Access to Co-Use Areas	
Use of Call-Up Areas	
Airspace Management	
Use and Protection of Cultural/Natural/ Recreation Resources	
GPS Jamming and Frequency Spectrum Interference	
Quality of Life/Accommodating Military- Related Growth	
Coordination/Communication between Military/Communities/Agencies	
Water	0 0 0 0 0 0 0 0 0 0 0 0 0
Light Pollution	
Mining (related to affect on military testing)	
Wildfires (related to military exercises)	



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Initial Compatibility Factors

Aviation Noise (related to Low-Level Military Training Routes)	
Aviation Noise (related to Supersonic Operations)	
Range Noise	
Energy/Renewable Energy Development	0000000
Towers (related to obstruction of aviation routes)	
Road Closures (due to military exercises)	
Trespass (onto or off of military land)	
Access to Co-Use Areas	
Use of Call-Up Areas	
Airspace Management	
Use and Protection of Cultural/Natural/ Recreation Resources	RELATES TO #9 ON SHEET
GPS Jamming and Frequency Spectrum Interference	
Quality of Life/Accommodating Military- Related Growth	
Coordination/Communication between Military/Communities/Agencies	
Water	00000000000
Light Pollution	
Mining (related to affect on military testing)	
Wildfires (related to military exercises)	



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Initial Compatibility Factors

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Aviation Noise (related to Supersonic Operations)	••••
Range Noise	
Energy/Renewable Energy Development	
Towers (related to obstruction of aviation routes)	
Road Closures (due to military exercises)	
Trespass (onto or off of military land)	
Access to Co-Use Areas	
Use of Call-Up Areas	
Airspace Management	
Use and Protection of Cultural/Natural/ Recreation Resources	
GPS Jamming and Frequency Spectrum Interference	
Quality of Life/Accommodating Military- Related Growth	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Coordination/Communication between Military/Communities/Agencies	
Water	0000000000000
Light Pollution	
Mining (related to affect on military testing)	
Wildfires (related to military exercises)	



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Aviation Noise (related to Supersonic Operations)	• • •
Range Noise	
Energy/Renewable Energy Development	000
Towers (related to obstruction of aviation routes)	
Road Closures (due to military exercises)	
Trespass (onto or off of military land)	
Access to Co-Use Areas	
Use of Call-Up Areas	
Airspace Management	
Use and Protection of Cultural/Natural/ Recreation Resources	
GPS Jamming and Frequency Spectrum Interference	
Quality of Life/Accommodating Military- Related Growth	0 0 0 0 0 0 0 0
Coordination/Communication between Military/Communities/Agencies	
Water	0 0 0 0 0 0 0
Light Pollution	
Mining (related to affect on military testing)	
Wildfires (related to military exercises)	0000



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Aviation Noise (related to Supersonic Operations)	
Range Noise	
Energy/Renewable Energy Development	
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Access to Co-Use Areas	
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Aviation Noise (related to Supersonic Operations)	
Range Noise	
Energy/Renewable Energy Development	•••••
Towers (related to obstruction of aviation routes)	
Road Closures (due to military exercises)	
Trespass (onto or off of military land)	
Access to Co-Use Areas	
Use of Call-Up Areas	
Airspace Management	••••
Use and Protection of Cultural/Natural/ Recreation Resources	•••••
GPS Jamming and Frequency Spectrum Interference	
Quality of Life/Accommodating Military- Related Growth	•••••
Coordination/Communication between Military/Communities/Agencies	
Water	00000000
Light Pollution	
Mining (related to affect on military testing)	
Wildfires (related to military exercises)	



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Aviation Noise (related to Low-Level Military Training Routes)	
Aviation Noise (related to Supersonic Operations)	
Range Noise	9 0 0 0 0 0
Energy/Renewable Energy Development	t end of the control
Towers (related to obstruction of aviation routes)	
Road Closures (due to military exercises)	• • • •
Trespass (onto or off of military land)	
Access to Co-Use Areas	
Use of Call-Up Areas	
Airspace Management	
Use and Protection of Cultural/Natural/ Recreation Resources	
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Initial Compatibility Factors



Aviation Noise (related to Low-Level Military Training Routes)	0 000000 0 0000 0 000000000000000000000
Aviation Noise (related to Supersonic Operations)	000000000000000000000000000000000000000
Range Noise	
Energy/Renewable Energy Development	
Towers (related to obstruction of aviation routes)	00 00 00 00 00
Road Closures (due to military exercises)	
Trespass (onto or off of military land)	
Access to Co-Use Areas	
Use of Call-Up Areas	
Airspace Management	0 0 0 0 0
Use and Protection of Cultural/Natural/ Recreation Resources	0000000
GPS Jamming and Frequency Spectrum Interference	
Quality of Life/Accommodating Military- Related Growth	
Coordination/Communication between Military/Communities/Agencies	
Water	000000000000000000000000000000000000000
Light Pollution	000000000
Mining (related to affect on military testing)	
Wildfires (related to military exercises)	000000000000000000000000000000000000000



APPENDIX C - WRITTEN COMMENTS - PROJECT WEB SITE

SNMEP JLUS Comments

Generated on Jan 16, 2014 / 8:33PM

Comment #1:

Posted on Jun 12, 2013 / 1:47PM

How do I learn about the Southern New Mexico-El Paso, Texas Joint Land Use Study?\r\nls there a document that shows the expected outcome, the scope of work for conducting the study, documents that will be part of the study, persons that will be interviewed, site trips, meetings, etc?

Posted by:

Audon Trujillo audont@yahoo.com 703 300 6067

Comment #2:

Posted on Jun 12, 2013 / 1:47PM

Hopefully, the impact of any development or land use on water resources has been added to the agenda for presentations, discussions, and citizen comments.

Posted by:

Raymond Madson @aol.com 575 524 2174

Comment #3:

Posted on Jun 12, 2013 / 2:05PM

What draft report or background materials are availale on the Southern NM - ElPaso Texas Joint Land Use Study? What is the objective. If contractors are hired to complete it what is their scope of work?

Posted by:

Audon Trujillo, Jr audont@yahoo.com 703 300 6067

Comment #4:

Posted on Jun 12, 2013 / 2:06PM

Please add my name to the emailing contact lists. Thank you, Marie Sauter Superintendent White Sands National Monument National Park Service 575-479-6124 x210

Posted by:

Marie Frias Sauter marie_frias@nps.gov 575-479-6124

Comment #5:

Posted on Jun 12, 2013 / 2:07PM

I would like to do a Powerpoint presentation lasting less than 10 minutes on the City of Truth or Consequences polluting the Rio Grande with waste & contaminants from their City yard.

Posted by:

Sophia Peron jazzinn.peron@gmail.com 5758940528

Comment #6:

Posted on Jun 12, 2013 / 2:07PM

I was unable to locate the survey indicated on your \"Get Involved\" page, so I will comment on the process here. Southern NM is predicted by climatologists to experience one of the most severe droughts on the planet (we are just on the brink of that now) & will likely be essentially barren within 50 years. Conserving water NOW is the only way humans will be able to live in NM in the future. Water use & preventing water abuses should be your bedrock on which the Land Use Plan builds.

Posted by:

Robyn Richards aTruePro@gmail.com 505-506-9571

Comment #7:

Posted on Jun 12, 2013 / 2:07PM

the single most important issue in the area is water. No plans should go forward unless plans for a rational water use/water supply system is in place. The military bases have their well developed policies and practices for energy use and water supply and use, but the non-military organizations in the area, the state and county and municipal partners are diffused and conflicting when it comes to water policy. Some order must be put in place before any joint land use can be discussed.

Posted by:

Max Yeh maxyeh@windstream.net 575-895-3300

Comment #8:

Posted on Jun 12, 2013 / 2:08PM

None of your 'plans\" will mean anything if you do not address the issue of water first.

Posted by:

Raymond L. Madson RaymondLMadson@aol.com 575 524 2174

Comment #9:

Posted on Jun 12, 2013 / 2:08PM

Land use in this region cannot at all be discussed without introducing serious discussion of the overuse of water. The issue is not drought but perennial overuse and thus overdevelopment in a desert climate. Without a resolution or an attempted resolution of this problem, the discussion of land use is futile. The issue of water is itself not addressable without considering the climate changes already apparent which will bring on a reduction of water, longer hot seasons, more forest fires and insect invasions, etc. If this discussion as any use, it is to focus all the partners' attention on this issue. The process can be a catalyst if the planners take heed.

Posted by:

Max Yeh maxyeh@windstream,net 575-895-3300

Comment #10:

Posted on Jun 12, 2013 / 2:09PM

Dear Sir and Madam

my name is Georg Himmeroeder.

Because I am living here for almost 14 years now and being a pilot, I became representative for the New Mexico Pilots Association for the Municipal Airport Alamogordo.

The New Mexico Pilots Association (NMPA) began in 1984/1985 and is the Voice of General Aviation to New Mexico's 5,000 pilots. NMPA's Mission is promoting general aviation and aviation safety, pilot camaraderie, and preserving airfields and airspace. Our back country committee is dedicated to increasing aviation access to back country airstrips and recreational areas by partnering with government and public service groups.

In this function I got knowledge about the \"Joint Land Use Study\".

I am afraid, that General Aviation in the Tularosa Basin and the surrounding areas will be affected by the plans to restructure the airspace over the basin.

Because of that and in the interest of our 5000 members. I friendly ask you to be informed about any date for a public meeting/hearing or any issue affecting the General Aviation or the airspace in the Tularosa Basin and surrounding areas.

Thank you very much in advance!

Sincerely

Georg Himmeroeder
Representative Alamogordo
New Mexico Pilots Association

Posted by:

Georg Himmeroeder himmeroedair@gmx.us 575-430-7739

Comment #11:

Posted on Jun 12, 2013 / 2:09PM

Is it still possible to take the land use survey? On your \"Get Involved\" web page, it says \"You can also provide feedback by completing the survey below\" but I can't find a link to the survey on that page. thank you.

Posted by:

Marion M. Fisher mmfisher5954@yahoo.com 575-652-1158

Comment #12:

Posted on Jun 21, 2013 / 8:16AM

This is a test comment

Posted by:

Matt Kirkland matt@brandnewbox.com 6192079476

Comment #13:

Posted on Jul 11, 2013 / 3:41PM

fIAKzo http://www.c1dOvW6eef5JOp8ApWjKQy5RO5mLafkc.com

Posted by:

matt barny182@hotmail.com matt

Comment #14:

Posted on Sep 29, 2013 / 5:39AM

I already potesd before I saw this, but I asked a question of the dads. My husband probably won't come on here, but I'd like to be able to give him current dad's feedback on some things. Does this sound like it would fit the not-quite-yet-formed rules?

Posted by:

Danu

annm@bainbridge.net

I already potesd before I saw this, but I asked a question of the dads. My husband probably won't come on here, but I'd like to be able to give him current dad's feedback on some things. Does this sound like it would fit the not-quite-yet-formed rules?

Comment #15:

Posted on Oct 05, 2013 / 12:14PM

How do I post my letter with detailed comments regarding joint land use of Sierra County?

Posted by:

Rhonda Brittan 5758947070

Comment #16:

Posted on Nov 13, 2013 / 12:07PM

Please add me to the contact list for all information pertaining to the JLUS.

Thank you.

Posted by:

Carol Miller carolmiller@newmexico.com

Comment #17:

Posted on Nov 18, 2013 / 10:23PM

I4sxCv http://www.MHyzKpN7h4ERauvS72jUbdI0HeKxuZom.com

Posted by:

horny normy273@hotmail.com horny

Comment #18:

Posted on Dec 16, 2013 / 8:04AM

How can I read the articles that have been written? I am the City Planner for Sunland Park, NM

Posted by:

Ricardo Dominguez

Comment #19:

Posted on Jan 10, 2014 / 7:24AM

When will the draft recommendations be available to the public? What are the dates for public comment concerning the draft recommendations?

Please send a copy of the draft recommendations to Ellen Kazor

PO Box 436

Weed, NM 88354

Thank you.

Posted by:

Ellen Kazor songdog@pvtnetworks.net 575-687-2512

Comment #20:

Posted on Jan 14, 2014 / 3:08PM

Hello, I am a professional social media business manager, obviously.

By building more than 10,000 real people profile endorsements using Facebook LIKES to your business page. This tell Google that your website is relative and authentic to what you do.

IT WILL BE POSTED RIGHT ON YOUR PAGE FOR ALL VISITORS TO SEE HOW MANY -(people) Facebook LIKES !you have, via Facebook, by real FB counter button. Click on to see how you can do this in you free time or no time http://www.businesswebmonkey.com/buy-facebook-likes.php

We can help you also with build 10,000 Twitter Followers in 7 days, or 100,000 YouTube visits, to your YouTube video or channel, build 20,000 Google +1, from your peers about your business. Best offer G+1 building in 7 days

You can get help building 100,000 Facebook LIKES in 7 days. Likes Mean visitors endorse your Fan Page or website.

How do you think Justin Bieber(singer) get his first 1,000,000 followers before his first album? His producers bought the followers for him?

I have something to offer that might interest you. www.businesswebmonkey.com/buy-facebook-likes.php

By placing more than 10,000 endorsements using Facebook LIKES. This tell Google that your website is relative and authentic to what you do.

IT WILL BE POSTED RIGHT ON YOUR WEBSITE FOR ALL VISITORS TO SEE HOW MANY -(people) Facebook LIKES you have, via Facebook, by real FB counter button.

These indicators (Facebook LIKES) will be visible on your website. If you have not installed Facebook Like count button on your website - I can help you install it!

After my work is finished, the Facebook LIKES Count Button will confirm a high ranking of your site, which will be noticed and appreciated by your visitors, and they will also be able to recommend your site to their friends on these social network.

The cost of the service is very low compared to the obvious gains, just the credibility you will gain alone. I work without pre-payment. Payment is carried out after all the work is done.

You pay and all Facebook LIKES are placed.

Please let me know if you are interested.

If this does not interest you, I'm sorry to have bothered you! Have a good day!

Unsubscribe here http://www.businesswebmonkey.com/buy-facebook-likes.php

Sincerely, Facebook LIKES Provider

Posted by:

Karen donoghue.karen1976@yahoo.com 888-233-0877



November 5, 2014

Liz Drake, AICP AECOM 1420 Kettner Boulevard, Suite 500 San Diego, California 92101 lizdrake@aecom.com Daniel Hortert, AICP Doña Ana County Community Development 845 N. Motel Blvd Las Cruces, New Mexico 88007 danielho@donaanacounty.org

Re: Southern New Mexico | El Paso, Texas Joint Land Use Study

Dear Ms. Drake and Mr. Hortert:

The El Paso Electric Company (EPE) serves approximately 400,000 customers within its 10,000 square mile service territory in west Texas and south central New Mexico, a service area that overlaps significantly with the study area addressed in the October 3, 2014 draft of the Southern New Mexico - El Paso, Texas Joint Land Use Study (JLUS). EPE supports the JLUS initiative to create long-term planning partnerships that recognize the region's natural, cultural, and recreational resources; growth opportunities; and the value of its military training and testing environments.

Numerous foundational action items identified in the JLUS are immediately affected by, and have an effect on EPE operations, both within and beyond the boundaries of the subject military installations. Consequently, EPE is particularly interested in in the proposed JLUS implementation body. Specifically, EPE concurs with the JLUS in recognizing the potential value associated with efforts to: collaborate on planning for energy development opportunities; map regional energy development opportunities; promote interagency consultation on land use; establish a notification process for vertical structures; and promote an integrated regional water planning process.

EPE has successfully partnered with the Department of Defense, hopes to continue those successes moving forward, and would welcome the opportunity to participate in the implementation of JLUS recommendations. The JLUS efforts to promote compatible growth are to be commended and EPE looks forward to an active role in furthering those efforts.

Sincerely,

/s/

Jessica Christianson Principal Environmental Scientist

Commissioner Flores,

I had an opportunity to review the JLUS response to Mr. Bell's questions (Mr. Bell represents the Weed Community, as well as a wider area of rural Otero County).

As with all JLUS correspondence that I've seen, the reply from your JLUS "team" was long on platitudes and short on facts or specific answers to Mr. Bell's questions. I'll not dwell further on the dis-ingeniousness (means "liars") of this "study" and its members.

One query back to Mr. Bell was in the form of a challenge from the so called "Technical Committee". They challenged Mr. Bell to furnish any studies that suggest that children and specifically babies can have convulsions when exposed to either sonic booms, or in the case of the study I am providing you, low altitude high speed, sudden onset noise, military flight.

Perhaps the so called "Technical Committee" should spend less time with their friendly Department of Defense advisers and more time in independent research? Perhaps they should learn to use Google? It is not difficult, even their secretaries could do it.

This poor dumb cowboy found a lot of research by various European organizations concerning military aircraft noise. Please note that there is no advantage to the USAF making this information available. They own the aircraft that cause the noise here and they conduct any and all studies. They control all results. However, Professor Ising published studies in Germany (I believe he did some USAF studies before this "convulsion" study. That study was the end of his USAF work - please feel free to correct me). The German people were so concerned that they largely banned the German Air Force from low level flights. By the way guess where the Germans went to fly low and fast? Yes, right here in Pinon / Weed, - but don't worry they never fly that way over Alamogordo so the Commissioners and their children are safe.

My favorite study is by Professor Ising. The Ising study is titled "Exposure and Effect Indicators of Environmental Noise". A link to this study is:

www.dfld.de/Downloads/IsingPaper.pdf

I've attached a copy so you don't have to find it.

A quote from this German Study states:

"Interviews with exposed people revealed that the sudden and extremely intensive noise of fast and low direct overflights were esteemed as unbearable since they caused shock reactions and inner ear pain in adults and children and in a number of cases convulsions followed by long and intensive crying in babies."

This is not the only available study. Lots of different opinions and data. Please learn to use Google. The USAF has been careful NOT to study this area nor publish ANY negative results. Mission first don't ya know.

I guess that the elite "Technical" committee must have missed this?? Ignorance and patronization from JLUS has no bounds. Rather than challenge Mr. Bell why not work Google, and read the available information, and offer an informed response? My guess it is easier to blow him off - saves the Google work.

If you feel like informing the so called "technical" committee (I encourage you to do so) please include this e-mail in its entirety. If they are enlightened they can not say that babies are not at risk. No one supports hurting babies, even a few rural babies.

By the way please don't play ignorant when someone broaches the possibility that sudden onset noise can harm babies. It can. Even rural babies deserve consideration and excellence in analyzing available data and in the political process. The above link provides enlightenment and removes excuses. JLUS members apparently care not a wit about rural babies, rural children or the rural economy nor about input from rural land owners.

I thank Mr. Bell for trying to work with you despite the obvious lack of interest by the JLUS "team".

Sincerely,

Walt

Walt Coffman



October 31, 2014

Lynn Post PO Box 161 Cloudcroft, NM 88317-0161

Message: It has been proposed that the Military use the Lincoln National Forest. They have plenty of land to use on the bases and White Sands. Not only will their equipment destroy the public land, it will decrease our property values. The other factor is that it will wipe out the wild life. We as residents we do not want the military using the National Forest it belongs to us the public. The other issue how do we know they will stay within the national forest? They might kill our animals, (cows, deer, elk, chickens, turkeys, etc, The other factor as you well know is that tourist come great distances, to hike, fish, hunt, and camp. That would be impossible if the Military is allowed to use the National Forest!



United States Department of the Interior NATIONAL PARK SERVICE

White Sands National Monument P.O. Box 1086 Holloman AFB, NM 88330 (575)479-6124



IN REPLY REFER TO:

A3815(WHSA)

November 7, 2014

Daniel Hortert Dona Ana County Government Las Cruces, NM

Dear Mr. Daniel Hortert,

The National Park Service (NPS) welcomes the opportunity to comment on the Joint Land Use Study (JLUS) and strategy during the public comment period.

Under the National Park Service Organic Act of 1916 (16 USC Ch. 1-4), the National Park Service (NPS) is charged with the stewardship of some of our nation's greatest treasures including premier historic sites and natural areas of incredible beauty and ecological importance. As one of over 400 NPS units, White Sands National Monument (NM) was established by Presidential Proclamation #2025 on January 18, 1933 to preserve the world's largest gypsum dune field and to provide public access for 'scenic, scientific and educational interest'.

White Sands NM participated in the Installation Complex Encroachment Management Action Plan (ICEMAP) public outreach by Holloman Air Force Base (HAFB) and is pleased to have another opportunity to work collaboratively with the Department of Defense partners, with a variety of federal, state and local agencies and communities in the Southern NM, Tularosa Basin, and west Texas areas. The JLUS process will provide a venue for engagement and allow for agency to agency concerns to be recognized and addressed. It is our understanding that the JLUS process provides strategies to address encroachment issues ranging in scope from local to national that may impact missions of the three military installations in the JLUS area and vice versa.

The National Park Service asks to be included with the JLUS partners and entities in development and implementation of each of the Compatibility Factors as described in the draft Compatibility Strategy Menu. In addition, we ask to be included in all appropriate correspondence and to have White Sands National Monument depicted geographically on all maps and graphics related to JLUS strategies and public outreach.

As White Sands NM is located in the center of the JLUS study area in the Tularosa Basin between White Sands Missile Range and Holloman AFB, we find it critical to the success of



our own mission to be seated at this public table and engage in an active conversation with the military partners and our adjacent community.

We appreciate a cooperative and collaborative relationship with the Department of Defense and the local communities. Thank you for the opportunity to participate in the JLUS process within Southern New Mexico.

If you have any questions or concerns, please contact me directly at (575)479-6124 ext. 210.

With regards,

Marie a Souter

Marie Frias Sauter Superintendent

Cc: Laura Joss, Deputy Regional Director, Chief of Staff, Intermountain Region, National Park Service

Tammy Whittington, Associate Regional Director, Resource Stewardship and Science, Intermountain Region, National Park Service

Glenn Fulfer, Superintendent, Salinas Pueblo Missions National Monument, National Park Service

Theresa Ely, Soundscapes and Night Skies Coordinator, Natural Resources Program, Intermountain Region, National Park Service

David Bustos, Chief of Resources Management, White Sands National Monument, National Park Service

Dear Ms. Drake, and All members of the JLUS Technical and Policy committees,

Fifteen minutes will not allow us the time to adequately address all of our questions and concerns so we will put them in writing and request a written detailed response to each of them. We will have time to touch on a few high points during our discussion time today.

DOD has spent a substantial amount of money to do this JLUS Study! Why? What results does DOD want from this Study? How will your actions affect the people living in rural areas of Otero County?

- 1. How will the military's use of our property and / or airspace impact the safety, health, and welfare or our rural citizens?? Will your actions have a negative on the health, hearing, of our children, ourselves, and / or our pets and livestock?
- 2. How will the implementation of the JLUS study affect my private property rights?
- 3. Do you plan to increase the number of sorties flying over our homes, land, livestock, and wildlife? In one of your earlier discussions you talked about the impact of loud noises on spotted owls during nesting season. What about the rest of us?
- 4. We have experienced the shock and awe during the supersonic booms and it is detrimental to all of us, our health and safety. It literally shakes the ground and our homes and scares the hell out of us. What concessions will the military make to prevent future disruptions?
- 5. Are you planning to fly low, hot, and fast over our properties. What minimum height do you anticipate that planes / drones will fly over us?
- 6. What economic impact will your future use have on our homes, ranches, and livestock?
- 7. How do you plan to compensate us for our inconveniences? Will health care be provided for rural citizens whose experience health problems due military activities?
- 8. When the Air Force uses White Sands or McGregor Missile Ranges they are required to pay a fees to rent them. Why should the military use our airspace for free? The larger communities get economic benefits from the Military's involvement in their towns. What will be done to compensate the smaller rural communities, individual ranchers, and other property owners?

Our citizens are very patriotic and very supportive of the military but during the past 50 to 60 years our families have had their homes and ranches taken away by the military. Please recognize that many of our rural citizens and their families no longer trust the Military because they have been burned before. The military promised to use White Sands area ranches for only a few years and then return the lands back to the ranchers. When they took the lands they did not pay the ranches for the full value of the land and improvements.

We realize that JLUS does not directly address these issues but after this study is complete, how will the military impact our lives? What will this lead to? Does this Study set up actions between the Military and the County governments through a Memorandum of Understanding (MOU's) or other agreements?? What is the next step? Does the military plan to try to restrict our rights to set up wind towers, wind mills, or radio towers on our private land? Do they plan to scramble our GPS or radio frequencies?

Many people who purchased land here in the Southern Sacramento Mountains chose this area due to the quite peaceful lifestyle-not to endure super-sonic booms and aircraft noises. We do not want to be used as guinea pigs while pilots practice "Shock and Awe" flying methods. Have any of you ever endured the Focused Sonic Booms in a mountainous terrain where the sound does not dissipate into the distance but is intensified in a mountain valley. It shakes your home and the ground around you? It's like have a bomb go off near your home. It is extremely frightening to you, your family, pets, horses, and livestock. It has been reported to cause hearing damage and even convulsions.

Our citizens don't want to endure low flying drones either spying on us or flying hot, low, and fast. How much risk will we face due to a drone crashing and starting a wild -land fire here in the Forest. Will our Volunteer or professional fire fighters be able to find the fire if the GPS has been scrambled or communicate if their radio frequencies have been distorted? How will our safety and quality of life be affected?

We have numerous observatories in our area. These are very precise instruments and are sensitive to the aftermath of low, fast flying aircraft. What will the flight rules be after JLUS has been implemented? What is the minimum height above ground level they will be allowed to fly?

We have multiple Church, Scout, and quality of life camps or retreats in the area where people come to get away from the hustle, bustle, and noise of city life. They sell the opportunity to get away for a quite less stressful time in the lives of their clients. They offer peaceful quite settings, solitude, and the chance to get away from it all. These opportunities are stolen by military training routes over our airspace.

Alamogordo and the Cities get funding or economic benefits for their agreement to have the Military in their communities. What do we who live in the rural area get other than the negative impacts as a result of the military expansion into our quality of life? We want our concerns to be heard and addressed. We don't want another round of the military taking our private property rights and ignoring our way of life.

The bottom line is that we don't want to be shafted as a result of this study or the aftermath of the military's future plans for our area. The military has to pay to use the airspace on White Sands and McGregor missile ranges so they sell their air time to the German, Japan, and other military forces. But, when they fly over our homes and lands, they fly for free. What benefits will we receive from the use of our airspace?

I realize that this is a lot to ask but the JLUS Committees has yet to consider our concerns in their Study. What is to prevent the military from stealing our private property rights and life style?

Thank you for meeting with us. We are looking forward to receiving replies to our concerns. John D. Bell Chair of the Otero County JLUS committee and President of the Weed Community Association and Safe Skies Committee

Dear Mr. Bell and Otero Advisory Group Members,

Thank you for your ongoing interest and participation in the Joint Land Use Study (JLUS). You submitted a detailed set of questions to the Policy Committee in June and have corresponded previously with the JLUS Technical Committee. Committee members have collaborated to develop the enclosed responses (shown in bold, italics text) to your questions. We hope that this written response as well as your continued dialogue with representatives of participating JLUS partners provides helpful insight into the process and intended study outcomes.

We encourage you to remain actively involved in the JLUS as we near release of the draft document (targeted for late August or early September). Liz Drake anticipates conducting a community meeting in Weed in conjunction with the review of the draft report. Please do not hesitate to contact Pamela Heltner at 575-437-7427 or at pheltner@co.otero.nm.us if you have any questions.

DOD has spent a substantial amount of money to do this JLUS Study! Why? What results does DOD want from this Study? How will your actions affect the people living in rural areas of Otero County?

The purpose of the JLUS is to find ways for the DoD to be better neighbors and reduce negative impacts in the region, while also identifying ways to improve communication on future land use developments to prevent unintentional/avoidable negative impacts to the sustainment of existing military training capabilities in the region

1. How will the military's use of our property and / or airspace impact the safety, health, and welfare or our rural citizens? Will your actions have a negative on the health, hearing, of our children, ourselves, and / or our pets and livestock?

The Joint Land Use Study (JLUS) is not to intended to create any specific change in military mission use of airspace/ground space (i.e. support additional mission beddown, etc.). It is not a preliminary fact-finding study, nor is there any underlying hidden agenda that would result in negative impacts on any residents of the study area (to include rural residents of Otero County).

- -The attached scientific studies regard impacts of military-generated noise (primarily aircraft noise) on humans and livestock represent the currently available body of knowledge on the topic.
 - 2. How will the implementation of the JLUS study affect my private property rights?

The JLUS implementation will be accomplished through traditional democratic processes (i.e. elected county/city governments will choose which, if any, JLUS recommendations to adopt).

3. Do you plan to increase the number of sorties flying over our homes, land, livestock, and wildlife? In one of your earlier discussions you talked about the impact of loud noises on spotted owls during nesting season. What about the rest of us?

No mission changes are tied to the JLUS. This statement does not, however, preclude future mission changes to be considered, but those actions would not be impacted in any way by the JLUS outcomes/recommendations. For most major mission changes, the normal NEPA process would need to be followed allowing public input in the analysis. One of the outcomes of this JLUS will be INCREASED notification and communication procedures with citizens that may have an interest in providing input in the NEPA process

4. We have experienced the shock and awe during the supersonic booms and it is detrimental to all of us, our health and safety. It literally shakes the ground and our homes and scares the hell out of us. What concessions will the military make to prevent future disruptions?

A likely JLUS outcome/recommendation is to continue to develop and strengthen processes aimed at maximizing use of airspace over military-controlled land and prioritizing scheduling of said airspaces for potentially disturbing/disruptive missions before scheduling use of airspaces above private property.

5. Are you planning to fly low, hot, and fast over our properties. What minimum height do you anticipate that planes / drones will fly over us?

JLUS will not impact current or future uses of airspace other than deconfliction strategies referenced in response #4.

6. What economic impact will your future use have on our homes, ranches, and livestock?

JLUS outcomes/recommendation are intended to create a more symbiotic relationship between military missions and private properties. However, since JLUS is not a basing/beddown tool it is impossible to predict the economic impact of JLUS recommendations on the region. Unlike a basing-related NEPA action, JLUS is not based on a decision to place 'X number of people and aircraft at Y location, driving the creation of Z jobs'.

7. How do you plan to compensate us for our inconveniences? Will health care be provided for rural citizens whose experience health problems due military activities?

JLUS does not have provisions to compensation for inconvenience. Instead, the intent of JLUS is to minimize inconvenience while simultaneously protecting mission viability into the future.

8. When the Air Force uses White Sands or McGregor Missile Ranges they are required to pay a fees to rent them. Why should the military use our airspace for free? The larger communities get economic benefits from the Military's involvement in their towns. What will be done to compensate the smaller rural communities, individual ranchers, and other property owners?

The AF does not pay fees to use White Sands or McGregor Range. The Army cannot charge the Air Force for use of airspace. However, there are airspace use priorities for the restricted airspaces controlled by WSMR. Since WSMR's mission is rooted in testing, it is accepted practice that some outside entities pay for use of restricted airspace in order to conduct testing of new weapons systems or other technology. As such, there are times when a block of airspace is not available for USAF use because it has been "purchased" by an outside entity. Hopefully, this explains the situation more clearly. It should also shed some light on the importance of the processes outlined in response #4.

9. Our citizens are very patriotic and very supportive of the military but during the past 50 to 60 years our families have had their homes and ranches taken away by the military. Please recognize that many of our rural citizens and their families no longer trust the Military because they have been burned before. The military promised to use White Sands area ranches for only a few years and then return the lands back to the ranchers. When they took the lands they did not pay the ranches for the full value of the land and improvements. We realize that JLUS does not directly address these issues but after this study is complete, how will the military impact our lives? What will this lead to? Does this Study set up actions between the Military and the County governments through a Memorandum of Understanding (MOU's) or other agreements?? What is the next step? Does the military plan to try to restrict our rights to set up wind towers, wind mills, or radio towers on our private land? Do they plan to scramble our GPS or radio frequencies?

The expectation following completion of the JLUS Report is that local governing bodies of all types (cities, counties, states, etc.) would select the recommendations applicable for use in their specific jurisdiction and adopt them through their existing policy development process (city/county ordinance, etc.) Likewise, federal entities will select recommendations each deem viable for investment. By no means, would a DoD entity gain the right to control private property rights through JLUS implementation. Wind towers over 200', for example, are already regulated by FAA, who can consult with the DoD to assess impacts on military missions, but the DoD does not currently have the power to approve/deny developments nor would they after JLUS implementation. Instead, JLUS recommendations involving vertical airspace obstructions are much more likely to include a notification process by which the military learns of construction of towers between 75' and 200' during the planning phase and can avoid them during flight rather than "discovering" them in flight.

10. Many people who purchased land here in the Southern Sacramento Mountains chose this area due to the quite peaceful lifestyle-not to endure super-sonic booms and aircraft noises. We do not want to be used as guinea pigs while pilots practice "Shock and Awe" flying methods. Have any of you ever endured the Focused Sonic Booms in a mountainous terrain where the sound does not dissipate into the distance but is intensified in a mountain valley. It shakes your home and the ground around you? It's like have a bomb go off near your home. It is extremely frightening to you, your family, pets, horses, and livestock. It has been reported to cause hearing damage and even convulsions.

Yes, many of the individuals involved in the JLUS -TC have witnessed focused sonic booms in the mountains. Please refer to the provided scientific studies. Please provide any studies you may have showing a relationship between aircraft noise and convulsions so the Technical Committee can review them as they are not aware of such a connection.

11. Our citizens don't want to endure low flying drones either spying on us or flying hot, low, and fast. How much risk will we face due to a drone crashing and starting a wild – land fire here in the Forest. Will our Volunteer or professional fire fighters be able to find the fire if the GPS has been scrambled or communicate if their radio frequencies have been distorted? How will our safety and quality of life be affected?

Aside from scheduling processes outlined in response #4, JLUS will not impact flight patterns. The JLUS report will likely include a recommendation to further investigate and flesh out impacts of GPS jamming on emergency services within the study area.

12. We have numerous observatories in our area. These are very precise instruments and are sensitive to the aftermath of low, fast flying aircraft. What will the flight rules be after JLUS has been implemented? What is the minimum height above ground level they will be allowed to fly?

Aside from scheduling processes outlined in response #4, JLUS will not impact flight patterns. That said, the JLUS report will likely contain a recommendation related to improving communication/action related to the Dark Skies initiative specifically aimed at reducing the impact of the DoD on observatories

13. We have multiple Church, Scout, and quality of life camps or retreats in the area where people come to get away from the hustle, bustle, and noise of city life. They sell the opportunity to get away for a quite less stressful time in the lives of their clients. They offer peaceful quite settings, solitude, and the chance to get away from it all. These opportunities are stolen by military training routes over our airspace.

Alamogordo and the Cities get funding or economic benefits for their agreement to have the Military in their communities. What do we who live in the rural area get other than the negative impacts as a result of the military expansion into our quality of life? We want our concerns to be heard and addressed. We don't want another round of the military taking our private property rights and ignoring our way of life.

The purpose of the JLUS is to find ways for the DoD to be better neighbors and reduce negative impacts in the region, while also identifying ways to improve communication on future land use developments to prevent unintentional/avoidable negative impacts to the sustainment of existing military training capabilities in the region. The intent is also to improve/increase communications within the region.

Hi Liz,

I just sent via snmjointlanduse.com, comments regarding Salinas Pueblo Missions National Monument's request to engage in the JLUS process as a National Park Service stakeholder.

My primary concern is to have the opportunity to share with the JLUS partners and committees information regarding the Monument's Gran Quivira unit which is located in Socorro County. Such materials would include map location data along with pertinent historical/archeolgical information and a strong message for the continued need to protect and preserve the site.

Thanks for the opportunity to comment. Please feel free to contact me anytime.

Glenn

Glenn M. Fulfer Superintendent Salinas Pueblo Missions National Monument 102 South Ripley Ave./P.O. Box 517 Mountainair, New Mexico 87036 Office: 505-847-2585 ext 25

Cell: 505-331-0469

Hi Liz,

Judy Ackerman met you last week at the JLUS project meeting in El Paso Texas. She mentioned that you were eager for community public participation in this project. The Frontera Land Alliance (Frontera) is the local land trust in the region. You can learn more about our efforts at: www.Fronteralandalliance.org

We are working with the National Park Service on a smaller scale project. We are working to obtain all the GIS database layers for the Franklin Mountains in TX and Organ Mountains in NM to assist with our conservation efforts, the white paper is attached. Also we are working to conserve Castner Range, Fort Bliss, El Paso Texas. Details on this specific project can be found here: http://fronteralandalliance.org/castner/

If you need anything from Frontera, or would like our participation at meetings, please let me know we are happy to participate.

Janae'

Janae' Reneaud Field Executive Director The Frontera Land Alliance

<u>Janae@Fronteralandalliance.org</u> Office Phone: 915-351-TFLA (8352)

Office Address: 1201 N. Mesa St., El Paso Texas 79902

Mailing Address: 3800 N. Mesa, Suite A2-258, El Paso, Texas 79902

www.aecom.com

CORPORATE OFFICES

Los Angeles (Worldwide Headquarters)

555 South Flower Street
Suite 3700
Los Angeles, CA 90071-2300
United States
T +1 213 593 8000
F +1 213 593 8730

Atlanta

1360 Peachtree St. NE Suite 500 Atlanta, GA 30309 United States T +1 404 965 9600 F +1 404 965 9605

info@aecom.com



Appendix D - Summary of Community Documents & Studies

				DOCUMENT REVIEW					
Document Name	Year	Geographic Area Covered	Military/Community Compatibility Policies/Goals	Land Use/Growth Vision Near Installations	Protected/Conservation Areas Near Installations	Military Operational Impact References	Military Economic and Population References	Other Military Installation References	General Comments
Air Installation Compatible Use Zone Holloman Air Force Base, New Mexico	2004		Completed in 2004, HAFS A KIUZ program sought to promote compatible land development in surrounding areas through an analysis of the installation's aircraft noise and accident potential zones. HAFS AKUZ compatibility guidelines include land use recommendations for Clear Zones, Accident Potential Zones I and III and four Noise Zones—65, 70, 75, and 80 dB DNL. According to the AKUZ report, there are no incompatible land uses of base in the AKUZ area of influence. At the time of the report, the majority of the land area under the HAFB noise contours was undeveloped and expected to remain in agricultural, low density, or open space for the foreseeable future. However, to the south and east of the installation, a mix of private and public lands fall within the						
			ACUZ area of influence. The private property consists of large parcels with low residential densities and the majority of the public property in this area is managed by the RUM and the New Mexico SLO The only previously developed areas falling within the AICUZ noise contours are along Highway 70 near the main entry to the base. All of the HAFB Clear Zones fall within the HAFB boundaries or within WSMR's boundaries. APZ I and II fall outside of HAFB's boundary to the east. The APZ zones extending eastward from Rumway						
			07/25 have the highest likelihood of experiencing incompatible development in the future. However, at the time of the 2004 AICUZ report, no new development had occurred in APZ I or II areas since the time of the previous AICUZ in 1994.						
BLM Prehistoric Trackways	2012		Management common ot all alternatives: The Monument would be closed to all mechanized and motorized vehicles - exceptions to offhighway vehicle (OHV) travel restrictions or closures may be authorized for any military, fire, mergency, or law enforcement vehicles or any vehicle in official use or expressly authorized in writing by the authorized officer.						No other reference to miltary specific installations
Chaparral Master Plan		Chaparral	The Chaparral Master Planning Process began in May, 2012. This planning effort is a joint project between Doña Ana County and Otero County and the study will describe both portions of the Chaparral community.						
City of Alamogordo Comprehensive Plan	2012	Alamogordo	The comprehensive plan stresses the importance of monitoring and coordinating future development with WSMR and HAFB, particularly areas west of the city adjacent to HAFB. Compatibility considerations include growth and encroachment of incompatible uses, as well as height and radio frequency issues for telecommunications projects in proximity to the military installations.	Development west of the city would pose the greatest risk of incompatibility.			HAFB and WSMR are critical to Alamogordo's economy and HAFB is the city's largest employer.		
City of Alamogordo Dark Skies Ordinance		City of Alamogordo	Limits the emission of light pollution to protect aviation and astronomical observation. The ordinance sets forth restrictions and guidelines on the timing, orientation, and shielding of outdoor lights on public and private property.						
City of Alamogordo Zoning Ordinance		City of Alamogordo	The current zoning regulations do not reference military installations and have no special height, density, or use provisions pertaining to WSMR or HAFB.						
City of Las Cruces, New Mexico Zoning and Subdivision Codes		City of Las Cruces	The City of Las Cruces Zoning Code outlines regulations for 20 general zoning districts and 13 special zoning districts. The current zoning and subdivision regulations do not reference military compatibility and have no special height, density, or use provisions pertaining to proximity to military installations.						
City of Las Cruces Extra- Territorial Zoning and Subdivision Codes (ETZ)		City of Las Cruces	The Las Cruces Extra-Territorial Zoning Code and Extra-Territorial Subdivision Code set forth use and development requirements for all properties falling within the City's ETZ Jurisdiction. The current zoning and subdivision regulations do not reference specific use or development requirements for properties in proximity to military installations.						
City of El Paso Zoning Ordinance & City of El Paso Subdivision Ordinance		El Paso	The City of El Paso Zoning Ordinance and Subdivision Ordinance outline the development and use requirements for all properties falling within the City of El Paso. The current zoning and subdivision regulations do not reference height, density, or use guidelines for properties in proximity to military installations.						
COMPREHENSIVE PLAN FOR DOÑA ANA COUNTY	1994 (through 2015)	Dona Ana County	Policy for Industry: Encourage cooperation with White Sands Missile Range, New Mexico State University, and the State of New Mexico to improve productivity and broaden the range of product and services of local firms(pg53).	Minimize impacts of new development on surrounding land uses [not military specific, yet pertinent] (pg48).	None	None	Education (pg.25), fire station (pg.30 & Health Facilities (pg.32)) None	Limited public service references, nothing impacting military operations.
			Goal Statement: Encourage cooperation among local, state and federal agencies. (pg.58) - general language nothing specifically naming installations	Use the comprehensive plan to guide locations for land exchange and disposal of BLM and state lands (pg48). Cooperate with local, state, federal					
				governments, and the private sector to build additional infrastructure for commercial and industrial development [purpose: reduce dependence on					
				"government jobs".] (pg. 37) Identify sites for future recreational facilitie: which can be acquired from the Bureau of Land Management, and other public and private agencies (pg35).	s				
				Encourage the establishment of a buffer zone through acquisition or exchange of state and BLM lands along the mountain ranges (pg48). Encourage rural and low density residential					
				areas in the valley, north of Hill; in the valley south of Las Cruces; in the foothills of the Organ Mountains, east of the Las Cruces cit- limits and along the east and west mesas (pg.51)	y				
				Acquire land from the state and BLM for low cost housing development (pg.57) Promote development of private and public sector partnerships for educational research programs and agricultural development	v				
				opportunities. (pg.58) Cooperate with other governments in the					
				county when developing services and facilities. (pg.58) Coordinate Comprehensive Plan with plans of local, state and federal agencies. Develop	,				
				a process of joint planning with towns, cities, state and federal land agencies. (pg.58)					

				DOCUMENT REVIEW					
Document Name	Year	Geographic Area Covered	Military/Community Compatibility Policies/Goals	Land Use/Growth Vision Near Installations	Protected/Conservation Areas Near Installations	Military Operational Impact References	Military Economic and Population References	Other Military Installation References	General Comments
				Military Land Use - land used primarily for military purposes (pg66)					
Dona Ana County Zoning Ordinance			Unincorporated lands within Dona Ana County are divided into three zoning districts, Community Districts, Wilage Districts, and Performance Districts. Each of these districts contains specific zoning designations. The current zoning regulations do not reference specific use or development requirements for properties in proximity to military installations.						
El Paso County Subdivision Regulations			El Paso County's Subdivision Regulations outline the development and administrative provisions for land subdivision in El Paso County. The regulations apply to the subdivision of property that 1) creates two or more lots of five acres or less and 2) is intended for residential purposes. El Paso County's regulations set forth provisions for water facilities and waste disposal, setback, road and lot arrangement, and the plat approval process. The regulations do not outline specific standards or requirements pertaining to properties adjacent to military installations.						
Historic Preservation Board Ordiancne	2004	Lincoln County							No military references
Mission 2035 Metropolitan Transportation Plan	2010	El Paso county (including Ft. Bliss), par Dona Ana County, Otero County	Project "O" Northeast Parkway Project P201A-MOD ROW acquisition for ultimate design, see MapA	Proposed bike route surrounding Ft. Bliss and along south border of Biggs Airfield on spur 601 (pg.25)			The influx of military personnel is also expected to result in an increase of civilian employment on Ft. Bliss, and an increase in employment in public schools and other local government		References to the NM Military Institute and limited econ/pop references; no consistency policies or issues
			Trust land map; pg. 13 - potential issues may arise if trust lands identified are part of existing/utilized installation areas.	Exhibit B41 El Paso International Airport Master Plan (pg.33) immediately adjacent to Biggs Airfield/Fort Bliss. Map_MPO AirportPlan			jobs. (pg. 4) Over the next several years, the Study Area is forecast to grow significantly. The expansion of Fort Bliss brought about by Base Realignment and Closure (BRAC) is expected to bring approximately 40,000 additional troops by 2012. Expansion of Fort Bliss will bring not only troops to the El Paso area, but their civilian families as well.(los. 4)	3	Employment in the area is expected to grow from 302,592 in 2010 to 361,185 in 2035
City of Las Cruces Comprehensive Plan	1999	Las Cruces	2.3 The City should provide for or encourage increased usage of public transportation vehicles and ride-share programs, especially to large employments escors, such as NASA, White Sands Missile Range, El Paso, Texas, and eventually the West Mesa Industrial Park.	3.16 The City shall encourage rural residential uses in the north and south fringe areas of the City.				ISTEA Planning Factors (1 of 15): International border crossings and access to ports, airports, intermodal transportation facilities, major freigh distribution routes, national parks, recreation areas, monuments and historic sites, and military installations. (Note: The airport is recognized as a legal port of entry.)	No interface with military mentioned or regulated
			3.1 The City should support efforts that maintain the visibility and funding of existing public sector jobs and facilities, such as White Sands Missile Range (WSNR) and NASA, including the creation of industrial lands and parks on the East Meas that provide support/locations for contractors that serve WSNR and NASA. Priority: US Highway 70: 1-2 5 to NASA Road - Frontage Roads;	of infill development is very important in th	,				
Las Cruces ETZ Comprehensive Plan	2000-2020		Goal: Provide for effective inter-governmental joint planning, coordination, and implementation of significant programs designed to better manage regional growth and urbanization in manner that will serve to: *Foster maximum inter-governmental cooperation and problem solving. *Promote the best interests of the public in the provision of cost-effective services and infrastructure. *Insure timely and effective growth management. *Develop an efficient pattern of land use that follows the adopted comprehensive planning policies and regulatory requirements. *Promote fair and equitable administration and enforcement of plans and ordinances. *Provide for an efficient customer service and permitting process. (pg.3-27)	East Mesa shown as 2020 growth area for mobile homes and industrial development near WSMR (Map 1 / Map 22)	The ETZ and County shall coordinate with State and Federal wildlife management agencies, conservation groups, and land management agencies to preserve important wildlife habitat areas.(pg.3–14)		WSMR referenced as "trigger for growth" of the ETZ regions, as a historical reference only not a current one		Little reference to military in any capacity, any growth or lan use issues would stem from East Mesa area of the plan- goals/policies/objectives related to intergovernmental coordination do exist but do no reference military directly.
			Objective 12.1: Establish effective inter-governmental communications and coordination. (pg.3-27 to 3-27	Hwy 70 approaching WSMR is designated a: an "Urban Growth Area" (Map 8)	 Areas near existing observatories shal be developed with special consideration for the impacts that development may have on astronomical observing conditions.(pg.3-16) 		WSMR, "a major area employer" (pg. : 12)	2-	
			Policy 12.1.1: Work with Federal and State Agencies to coordinate future planning efforts on public lands. (pg.3-27 to 3-27	Planned proposed transportation expansion in East Mesa near WSMR (Map 20)					

				DOCUMENT REVIEW					
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ocument Name	real	Geographic Area Covereu	Program 12.1.1.1: The ETZ shall make every effort to meet periodically with the State Land Office	Land and infrastructure availability,	Areas Near Installations	References	ropulation References	References	General Comments
			and BLM to coordinate any planning proposals and land disposals. (pg.3-27 to 3-27	governmental policies and regulations, as					
				well as the more difficult to quantify "favorable development climate" determine					
				the type and amount of development that					
				takes place. The total ETZ comprises an area	a				
				342.88 square miles or 219,496.5 acres of which 47.6 square miles or 30,471.4 acres					
				are within municipal corporate limits or is					
				under New Mexico State University					
				ownership. More than two thirds of the land	d				
				in the ETZ is owned by federal, state and other public agencies. The remaining land					
				that is vacant is the land with development					
				potential. (pg.2-14)					
			Program 12.1.1.2: The ETZ shall seek a strong advisory role in any future consideration by the State	Open space and recreation opportunities					
			or the BLM, to release additional land for development to determine whether such releases are	should be negotiated on lands now owned					
			compatible with the ETZ Comprehensive Plan. (pg.3-27 to 3-27	by the					
			Program 12.1.1.3: The ETZ shall work with the County and City planning departments to promote a	state and federal governments. (pg.3-4) The majority of future mobile home housing	2				
			smooth transition of land uses along the ETZ boundaries. (pg.3-27 to 3-27	on large lots with septic systems should be					
				restricted to areas generally north of US 70 East. (pg.3-4)					
ncoln County		2007					Military provides 0.5% of total		
ncoin County omprehensive Plan		2007		NR/PL Goal 7. Work to effectively manage large game herds in Lincoln County. Strateg	v		employment (2004) and 0.8% of total		
				1. Work with the New Mexico Game and			earnings; not recognized as majoy		
				Fish Department, as well as			emlpoyer		
				the USFS, BLM, and Department of Defense as necessary, to develop and implement	,				
				plans for improving the management of elk					
				deer, antelope, and oryx herds in Lincoln					
				County. Strategy 2. Encourage the confinement of					
				the oryx population to the White Sands					
				Missile Range.					
				In July of 2006, LCSWA also			Military not		
				assumed operational responsibility for solid					
				waste management, including recycling, for the rural					
				portions of Otero County, which do not					
				include Alamogordo or Tularosa. Holloman					
				Air Force Base solid waste collection is also expected					
ncoln County Subdivision	2006	Lincoln County	Adopted in 2006, Lincoln County's Subdivision Ordinance outlines plat and review procedures for	to participate in 2007.					
rdinance	2006	Lincoln County	the subdivision of land within unincorporated Lincoln County. The ordinance also sets forth						
			requirements and standards for required improvements, flood control and drainage, water						
			availability, water conservation and fire protection, waste management, and terrain management. Lincoln County's current subdivision regulations do not reference specific guidelines pertaining to						
			proximity to military installations.						
ncoln County Wind Energy	2011	Lincoln County	Required information for permit application: (F) copies of registered letters notifying locally affected	WECS shall not be operated in a manner					No other military reference
onservation System		·	military installations (SWMR, Holloman, Kirtland, and Connon Air Force Bases) that a WECS permit has been applied for in Lincoln County.	that causes electromagnetic interference					
rdinance Incoln National Forest Land	1986	Lincoln National Forest area	has been applied for in Lincoln County.						No reference to military
esource Management Plan									
	2010-2011						Itellectural capital in ourmilitary		
Annual Report							research facilities. The State Land		
							Office can play a pivotal role in [development of technologies] by		
							providing lands to locate renewable		
							enegy production facilities,		
							tranmission lines, and commercial sites for renewable energy technolog	v	
							research and production. pg. 3	У	
orthern Socorro County omprehensive Plan	2006	Northern Socorro County Study Area			None	None			As far as possible from the installations – more interac
									with Sevilleta National Wild
									Refuge and BLM than any
									installations – no issues
ne Valley One Vision 2040	2012	Dona Ana County	The plan emphasizes the need for coordination with military installations, as well as other state and federal entities.	Population forecasts estimate an increase of approximately 115,000 residents in Doña	f				
				Ana County, yielding a total population of					
				325,000, by the year 2040. The plan notes					
				that population densities in communities					
				adjacent to military installations are increasing and that planning decisions must					
				consider land use compatibility in these					
				areas.					
Otero County Comprehensive	Oct. 2005	Otero County	Otero County citizens have direct control over only the small portion of private land within its borders, yet the County's economy is dependent on business activities on Federal and State lands.	67% o county land is managed by Federal government. [6-1]		Air Installation Compatible Use Zone (2004)	Military provides 16% of county jobs and 30% of total earnings (2002)		
ıaıı			These activities are inseparably tied to the private, patented lands in the County. This situation	Bovernment [0-1]			and 50% of total earnings (2002)		
			creates conflict when residents perceive that Federal and State land managers are making land use						
	l	1	decisions within the County without sufficient County notice, guidance and consultation." [6-2]	1	1	1	1	1	i i
			[]						

				DOCUMENT REVIEW					
	V	Coornelia Arra Carrand	Military (Community, Community like, Palisian (Confe	Land Use/Growth Vision Near Installations	Protected/Conservation	Military Operational Impact	Military Economic and	Other Military Installation	Canada Cammanta
ıment Name	Year	Geographic Area Covered	Military/Community Compatibility Policies/Goals overriding government issue is how the County can work most effectively withFederal and State	Projected growth rate of 4-5% per decade	Areas Near Installations	References	Population References Holloman Air Force Base and White	References The US Army administers all activities and	General Comments
			land managers regarding US Government-owned and controlled land in the County. [2.8]	from 2010 to 2030As these [US military		Military Withdrawal Land Issues [6-7] In 1999, President Clinton signed the Defense	Sands Missile Range combined make	access on McGregor Range, while the	
			land managers regarding os dovernment-owned and controlled land in the county. [2.6]					Bureau of Land Management co-manages	
				operations in the area] downsize source:		Authorization bill which included the renewal of		the nonmilitary uses, subject to Army	
				UNM Bureau of Business and Economic		the McGregor Range Withdrawal from public	more than \$255 million and an	annroyal. The renewal of the withdrawal	
				Research		use. The Army uses the approximately 678,108-		for 50 more years specified the	
						acre McGregor Range, an integral part of the	to the local economy. WSMR /	continuance of grazing, protection of	
						Fort Bliss Range Complex, to train the nation's	Holloman AFB / German Air Force at	wildlife and their habitats, control of	
						military forces, develop and test future concepts	Holloman / Naval Air Warfare Center.	predatory animals, ecreation, and	
						for fighting wars, and support the sister services		prevention and suppression of nonmilitary	r-
						and allied military education and training		caused fires, to the extent they do not	
						programs. This includes closures of portions of		conflict with the military mission. There	
						NM 506 and US 54 during military activities such		are 14 grazing units totaling 271,000 acres	
						as missile firings.		permitted in areas that have a relatively	
								low safety risk.	
			Goal: support military and federal organizations through citizen education, encouraging appropriate	Encourages proper planning in AR7s			Holloman AFB is a major economic		
			development around bases through cooperation between private and public stakeholders,	encourages proper planning in AF25			force in Almogordo and the county		
			encourage local workforce and services support for military facilities, and support the expansion of				emloying 6,603 personnel and housing		
			military operations				approximately 3,526 on the base in	•	
			mintary operations				Fiscal 2004. (2-1)		
							FISCAI 2004. (2-1)		
			Goal: increase intergovernmental cooperation with municpalities and State and Federal agencies. [2- 9]	- Keters to Holloman's proposed AICUZ study					
			NR Goal 2 Strategy a. Coordinate Federal/State agency management to consider entire	Federal land use planning laws and			7.8% of county persons (3,599)		
	- 1	1	watershed/ecosystems in realtion to landscapes (grazing, soil conservation, preservation of	regulations require all Federal agencies to			employed in the Armed Forces;		
			agricultural lands etc.).	consider the impacts of proposed actions or	1		military accounts for nealy 16% of jobs		
				the social structure and economy of an			in 2002 [8-3]		
				affected area. Federal agencies have					
				accepted the term "custom and culture" in					
				the context of land use planning as					
				synonymous with social structure and					
				economy. Otero County "custom and					
				culture" include Agriculture; Grazing and					
				Ranching; Timber and Wood Products;					
				Mineral Resources; Recreation; Cultural,					
				Wildlife and					
				Wilderness Resources. [6-8]					
				Wilderness Resources. [6-6]					
			NR Goal 2 Strategy b. Ensure County involvementin Federal/State agency decisiosn aobu thte use of				US military is a major economic engine		
			public land (plucle land use advisory committee, advocate manageing the forest for mulitiple use,	laws cited previously, Federal agencies and			for Otero County. Holloman AFB and		
			advocate managing grazing resouces to include elk and other wild game animals as well as	any State agency subject to NEPA will inform	1		WSMR combined make us a		
			domestive livestock according to available resources so the environment is not degraded). [5-5]	local governments of those			military/civilian annual payroll of more		
				pending actions affecting local communities			than \$255 million and an economic		
				and citizens economically, and coordinate			impact of over \$485 million to the		
				and consult with them in the planning and			local economy. [8-6]		
				implementation of these actions.					
				It also expects that all Federal and State					
	- 1	1		agencies subject to NEPA and other Federal			1		
	- 1	1		laws will use as a guide the Otero County					
	- 1	1		Land Use Policy Plan and					
	- 1	1		Comprehensive Plan and coordinate with			1		
	- 1	1		the County Commission in planning and					
				managing Federal lands within the			1		
	- 1	1		geographic boundaries of Otero County. [6-					
				9]					
			Land Disposition policies [6-9] 1) Increase opportunities for local economic developments by	Water policies [6-10] The Otero County			Otero County's economic strengths		
	- 1	1	increasing the amount of patented and non-Federal land within the County.	government will be notified of all State,			derive largely from its Department of		
	- 1	1	2) Federal land agencies shall not acquire any private land or rights in private lands within Otero	Interstate and Federal actions that have any			Defense, Research, Test and		
	- 1	1	County without first ensuring that private property interests are protected and enhanced.	impact on the water of the County prior to			Evaluation (RDT&E) and scientific		
	- 1	1	3) Federally managed lands that are extremely difficult to manage, particularly those which lie in	such actions being initiated. In addition,			establishments, particularly Holloman		
	- 1	1	isolated tracts, will be targeted for disposal.	such proposed actions, including Federally			Air Force BaseAt the same time,		
	- 1	1	4) Otero County will be notified of and consulted about all Federal land adjustments in Otero	Proposed Wild and Scenic River			dependence on the military leaves the		
	- 1	1	County.	designations, will be coordinated with the			County's economy subject to the		
	- 1	1	5) Before Federal Land agencies can change the local historic customs, culture and community	Otero County Commission, and appropriate			vagaries of the US Government's		
	- 1	1	stability of land use, the Otero County Commission may require adverse impact studies as outlined	water use groups, and the County water and	i		plans. The periodic base realignment		
	- 1	1	in Presidential Executive Order 12630 which requires that all Federal agencies complete a takings	land use plans prior to adoption and			and closure (BRAC) process is partly		
			implication assessment (TIA) to evaluate the effect of their rules, regulations and decisions on: (1)	implementation. It is the			political and cannot be predicted. [8-		
	- 1	1	private property, (2) private property rights, and (3) the investment-backed expectations of private	intent of the County to guide Federal and			12]		
	- 1	1	citizens. These requirements shall be conducted and mitigation measures adopted with concurrence				1 -		
	1	1	from Otero County. Adverse impact studies shall also address all classes of grazing rights, flood plain						
			areas and public access.	cultural and economic resources.					

				DOCUMENT REVIEW					
Document Name	Year	Goographia Area Covered	Military/Community Compatibility Policies/Coals	Land Use/Growth Vision Near Installations	Protected/Conservation Areas Near Installations	Military Operational Impact References	Military Economic and Population References	Other Military Installation References	General Comments
ocument Name	rear	Geographic Area Covered	Military/Community Compatibility Policies/Goals Otero County shall enforce compliance with this public land use plan and shall monitor consistency	Agriculture Policies [6-10-11] Opportunities	Areas Near Installations	References	The County is constrained somewhat	References	General Comments
			between Federal and State actions and activities and	for grazing livestock on Federal land shall be	2		by the small amount of private land		
			the land use requirements enumerated herein. [6-13]	continued at sustainable levels consistent with proper range management custom,			available— about 11 percent of the area—as well as the lack of readily		
				culture			available potable water. Efforts to		
				and the protection of equitable property			desalinate the water, if successful,		
				rights.			could position the County as a leader		
				Federal and State governments will not obstruct agricultural opportunities, along			in this area and potentially be turned to economic benefit. Completion of		
				with other appropriate multiple uses.			the Tularosa Basin National		
							Desalination Facility creates the		
							potential to develop a cluster of water desalination facilities and businesses	г	
							Military operations also serve to		
							constrain commercial growth by		
							seeking to limit development around		
							bases due to potential encroachmen as well as road closures during missil		
							launches. On the other hand, aviation		
				Goal/strategy: Work with NM Department			ED Goal 1. Support existing businesse		
				of Transportation to establish a bike route			and encourage their expansion.		
				to Holloman AFB. [15-9]			Strategy d. Work with the local		
	1						Chambers of Commerce to identify State and Federal issues that hamper		
				1			local businesses. [8-14]	1	
				Frequent references to the Public Land Use			ED Goal 5. Support and promote the		
				Advisory Committee and Air Installation Compatible Use Zone (AICUZ) [17-1 and 17-			full use of Otero County's Federal facilities/entities; Holloman Air Force		
	1			4] Federal agencies have their own concern	s		Base, White Sands Missile Range, the		
				about the interface between Federal and			Lincoln National Forest, White Sands		
				private land. Holloman Air Force Base, for			National Monument and the Sunspot		
				example, is seeking assurance that the land surrounding their operations will continue			and Apache Point observatories. Strategy a. Recognize		
				to be compatible with neighboring land use			these entities as having prime		
				so their flying mission can continue without			economic significance to the		
				adversely impacting the community's safety			community and take action to		
				or noise tolerance. It has proposed an Air Installation Compatible Use Zone (AICUZ)			facilitate their retention and expansion.[8-15]		
				surrounding the base operations. An AICUZ			expansion.[o-13]		
				study extensively analyzes the effects of					
				noise, aircraft accident potential, existing					
				land use, and proposed development					
				around military installations and provides land use compatibility recommendations.					
				LU Goal 5. Ensure Holloman Air Force Base			Strategy b. Cooperate with El Paso ar	d	
				Mission is not jeopardized by incompatible			Las Cruces in the promotion of the		
				growth. Holloman AFB is a significant			region as a location capable of		
				contributor to the County's economy. Strategy a. Work with Holloman AFB to			handling new military and homeland defense missions.		
				promote further consideration of the Air			Strategy c. Encourage use of available		
				Force Air Installation Compatible Use Zone			local workforce and local business		
				(AICUZ) land use recommendations.			products and services at these		
				Strategy b. Adopt the Holloman Air Installation Compatible Use Zone as County			facilities. Strategy d. Re-use former governmen		
				policy and attach the report as a technical			facilities. [8-15]		
				appendix to the County Comprehensive			identites. [o 15]		
				Plan.					
				Strategy c. Implement the Holloman Air Installation Compatible Use Zone through					
	1			Installation Compatible Use Zone through cooperation between adjacent landowners					
	1			and the base. [17-6]					
	1								
Plan El Paso	2012	El Paso	El Paso's plan includes a section dedicated to coordinated planning strategies with Fort					1	
			Bliss—portions of Fort Bliss are within El Paso's city limits. The installation plays a critical role in the						
	1		local economy and a significant portion of the city's population consists of military staff, personnel,						
	1		and families. The presence of Fort Bliss affects El Paso's housing, education, and healthcare services, in addition to the city's land use planning efforts. The plan emphasizes strategies to provide quality	1					
	1		services and to ensure land use compatibility in the communities adjacent to the installation.						
	1								
PUBLIC NUISANCE	2009	Socorro County						+	No military references; only
ORDINANCE OF SOCORRO	2009	Socorro County							references public
COUNTY	1								works/government noise
									sources no military
Mimbres Resource Management Plan	Mimbres Resource	1993		Mimbres Resource Area is available for mineral entry, except where restricted by	Several plant types listes as found and/or collects on the military				
management ridii	Area; BLM			withdrawals for military, flood control,	reservation, in the Organ Mountains				
	,			conservation, or other specific purposes.	on the military reservation				
				[2-3]				1	
	1			Public land may be affected by discretionary and nondiscretionary					
				closures which are presented in a lease as					
	1			stipulations. The White Sands Missile					
				Range (WSMR) and Dofia Ana Range					
	1			portion of Fort Bliss military areas are excluded from leasing by nondiscretionary					
	1			excluded from leasing by nondiscretionary closures [B-3]					
	1	1		crozer es [n.s]	1	1	I .	II.	1

				DOCUMENT REVIEW		A MILL OF ALL AND A STATE OF A ST		Out water a comment	
	V	Casaranhia Assa Casaran	Adillana /Community Community life Delision /Confe	Land Use/Growth Vision Near	Protected/Conservation Areas Near Installations	Military Operational Impact	Military Economic and	Other Military Installation	General Comments
cument Name	Year	Geographic Area Covered	Military/Community Compatibility Policies/Goals	Installations The Peiia Blanca WSA is bounded on the east by the Fort Bliss Military Reservation,	Areas Near Installations	References	Population References	References	General Comments
				[APNDXI-1] is bounded on the east by the Fort Bliss					
				Military Reservation, is bounded on the					
				east by the Fort Bliss Military Reservation					
				and the White Sands Missile Range, on the					
				south by Fort Bliss and private land, on the west by roads, and on the north end by					
				private land and the 7,283-acre Organ					
				Mountains WSA. [I-5]					
				Military Withdrawl is listed as a major land holder manager in the area.					
o Regional Growth	2009	El Paso region (city, county, and	Implementing the Army Compatible Use Buffer (ACUB) program should continue as a high priority in	Section 3.4 Land Use Compatability and		The term "Land Use Planning Zone" (LUPZ) is a	From 2005 to 2008 (the baseline year	With five of the nine school districts	
gement Plan		communities in the region)	order to restrict allowable land uses in areas at risk of encroachment. This will require local and regional support.	Buffer Zones [pdf page 154]		planning tool used to indicate the maximum acceptable range (60 to 65 dB ADNL) for what is		in the El Paso region categorized as "primarily impacted" by military	
						considered compatible levels for all land uses. "ADNL" stands for Day-Night Average Sound Level for A-weighted noise.	increased by nearly 18,000. Note, however, that this is less than 30 percent of the nearly 59,000 troops	relocations, the concern over a sharp increase in the numbers of children of military families is a major issue	
							and dependents expected by 2013.	for planners. Estimates show that from 2006 to 2013, growth at Fort Bliss and the surrounding region will	
								bring about 45,000 children age 10 or under.	
	+		It is generally considered a beneficial economic stimulus for a	describes the current state of the El Paso		Training operations at Fort Bliss impact	The need for spousal employment wil	[Education]Outreach to incoming	
			community to gain rather than lose a military presence; however, excessively rapid growth can	region and evaluates the impact of expecte	d	surrounding properties by generating noise,	be significant for families of young	military spouses and early approval	
			present logistical and fiscal challenges in planning for and meeting short-term community needs and	growth for a range of scenarios (from no		vibrations, dust, various types of emissions, and		of credentials are potentially issues	
			for managing growth with long-term desirable benefits.	further military expansion to full expansion	L	vehicle movement. Additional types of training		as is the need for local educational	
				This impact includes "induced" growth that the military buildup will generate in the City		and expanded quantities of training activities are changing the levels of impacts on the	e	institution cooperation to combine capabilities for training El Paso	
				of FI	1	community.		residents for the thousands of	
				Paso, El Paso County, and other		community.		prospective jobs resulting from	
				communities in the region.				military growth.	
			Encroachment issues surrounding Fort Bliss include the proximity of existing residential	BRAC 2005 identified Fort Bliss as an ideal		Biggs Army Airfield - has low traffic volume, doe	s	Fort Bliss reports that it intends to	
			development, increasing traffic volumes on US 54, loss of open space to proposed new	installation for expansion; WSMR offers		not pose noise impact problem; operation noise		provide	
			development, and noise from El Paso International Airport (EPIA) flight operations. These primary	assets that could support future Army		extend to the SW of the airfiled but do not		facilities for less than 15 percent of	
			encroachment issues may have associated characteristics that impose resultant impacts on Fort	growth.		exceed 65dB ADNL. New training operations using helicopter routes along US 54 could cause		the thousands of new military children in El Paso in need of child	
			Bliss from emissions, fugitive dust, erosion, light pollution, and wildlife migration.			using helicopter routes along US 54 could cause elevated noise levels over this road corridor in		children in El Paso in need of child care.	
						the future.		care.	
			Residential Encroachment areas include the west side of US 54 from the main post north to where it	New development designed to		Main Cantonment Area: localized noise		Establishing a working committee	
			crosses the Fort Bliss boundary, areas along the south boundary of the Doña Ana Range, areas along		,	from daily activities within these areas does not		consisting of city, county, federal,	
			the south and east boundary extending east from the main post and north to the New Mexico state			cause any far reaching effects in surrounding		and military Public Safety officials is	
			line, and the area in El Paso County just south of the boundary of McGregor RangeRetaining public			areas. However, Fort Bliss activities do affect		recommended. This committee	
			lands as conservation areas, and providing buffers of open space, recreational facilities and other compatible uses around development projects are recommended strategies. Close coordination	concentrated near transportation corridors. This land use pattern will require less total	•	commuting and vehicular traffic on surrounding roads. During development, residential areas		would develop a strategic plan to address common concerns, issues.	
			with Fort Bliss will be essential for the City of El Paso and each of the counties prior to any approvals			may experience some temporary effects such as		and objectives. Such collaboration	
			of rezoning and development proposals.	more efficient, sustainable development;		increase truck traffic, noise from equipment,		has proved very effective for other	
				but the costs are, nonetheless, very		and dust from site grading.		Army posts.	
				significant.					
			Buffers: Industrial zoning and land uses provide buffer zones in several areas of the City of El Paso,	A Housing Market Analysis (HMA) prepared		County Training Areas: Off-road vehicle		Fort Bliss has over \$150 million for	
		I	creating sufficient separation between Fort Bliss and incompatible development such as residential.	for Fort Bliss in 2008 (found in Appendix B of this document), indicated a need for		operations have the greatest potential to generate direct impacts on Fort Bliss lands, with		quality of life projects that will result in new child and youth facilities 12	
			A combination of commercial, industrial, and mixed use parcels extending east from EPIA along Montana Avenue provide additional buffers between the installation and residential properties.	of this document), indicated a need for 1,801 housing units above the existing		generate direct impacts on Fort Bliss lands, with some potential for migration of noise and dust		in new child and youth facilities, 12 new child care centers. a 100.000	
			informana Avenue provide additional bullers between the installation and residential properties.	supply within the community. The available		beyond the installation boundaries under certain	n	square foot fitness center, and a new	v
				supply of "affordable" housing for military		conditions. While these areas do not support		aquatics center on the post. The city	1
				families dependent on a Basic Housing		live fire operations, soldiers may practice some		will face budget challenges to provid	e
				Allowance (BAH) is a long-term challenge.		aspects of tactical and weapons training in these		the same degree of planning for	
						areas, either on foot or in wheeled or tracked		quality of life projects in the	
						vehicles. As a neighboring land use, residential		community where the majority of	
						uses may be less optimal land immediately adjacent to these kinds of operations.		soldiers and their families will live.	
						and the street winds of operations.			
			The ACUB program, described in the Existing Conditions Assessment has been utilized to establish restricted-use easements for large parcels of land near Chaparral, New Mexico and for land within a	The HMA indicated that in addition to increasing the supply of affordable housing		The Supplemental Programmatic Environmental Impact Statement (SPEIS) written for Fort Bliss			
		1	noise contour of incompatible level for designated uses. The 75-year easements preclude residential			in 2007 detailed proposed improvements on the			
			homes, retirement and nursing homes, intermediate care facilities, hospitals, and schools on those	supply between 22,000 and 23,900 housing		installation, but it is unclear to what degree			
			parcels.97	units to meet the military requirements for		these improvements would mitigate the impact			
				housing by 2013. Thus, the housing		of the addition of more than 20,000 military			
				shortfall, when combined with organic		personnel, nearly 27,500 military dependents,			
				growth in El Paso's population, is estimated		and 2,700 government civilian personnel coming	B		
		1		to be from 9,700 to nearly 13,000 units.		to Fort Bliss by the year 2013.			

				DOCUMENT REVIEW					
Document Name	Year	Geographic Area Covered	Military/Community Compatibility Policies/Goals	Land Use/Growth Vision Near Installations	Protected/Conservation Areas Near Installations	Military Operational Impact References	Military Economic and Population References	Other Military Installation References	General Comments
			As the amount of growth increases for each scenario, pressures for land development will also increase. This demands that land use controls and building restrictions be strictly enforced, and that increased communication and cooperation between Fort Bliss and the relevant jurisdictions be established and maintained.	Adjustment of the BAH, the result of a yearly survey, will require careful monitorin by developers and Fort Bliss to insure that i accurately reflects the costs of acceptable rental units. If the BAH is not carefully adjusted, soldiers and their families will be placed under additional financial stress. While this will help military families, it can cause the local housing market to sustain higher rental rates than are affordable to most families. Providing affordable housing options will become an increasing concern for the city.	8	SPEIS: installation leadership indicates the need for six new entrance and exit gates to reduce traffic congestion in the morning and evening throughout the week. The SPEIS did not provide a detailed or long-range evaluation of regional transportation needs.			Primarily concerned with housing stock and affordable housing availability for military families, and the price pressure created for non-military families based on the limited housing stock. Some transportation (entry/exit) planning and impact concerns as well.
			Reccommendation: Continually monitor Fort Bliss gate capacity, operations and use to avoid severe congestion on roads adjacent to them. [3-93]	Further, Fort Bliss and the community must work together to increase the number of units that will be built on post so that the need for adequate housing for all El Paso residents can be met.		Training Areas in Doña Ana and Otero Counties: noise contours (except large caliber weapons) are contained wtihin Fort Bliss boundaries			
			Recommendation: Provide transit, pedestrian, and bikeway accommodations for traffic volumes on local roadways to and around key facilities such as Medical Centers, Fort Bliss Access Control Points (entry gates), large shopping centers, downtown, and campuses. [3-94]	Land Use Implications. The City of El Paso has the available water supply had treatment capacity necessary to meet the projected growth from the military expansion. As discussed in Section 3.2, much of the anticipated residential development can be accommodated within seras for which future subdivision plans and land studies have already been identified. The infrastructure improvements necessary to serve these areas have already been identified and planned.	1	It is very important that Fort Bliss, the City of El Paso, El Paso County, Doña Ana County, and Otero County work together to implement land use controls and sound mitigation measures in building regulations to alleviate potential future problems related to housing and other development in the affected areas. Where possible, existing public lands and agricultural uses currently adjacent to Fort Bliss should be used and preserved as buffers, "High priority needs should be maintained on the Army ACUB program to acquire property and easements for the protection of the community and sustainment of military operations at Fort Bliss.			
			Create public-private partnerships for transportation system improvements Use information and presentations by a national public-private partnership association to identify strategies for use of private sector funding for public purpose, including enhanced used leasing	2. El Paso and Fort Bliss should cooperate in the development of a new landfill and renewable energy projects. Consider the combination of refuse streams to justify waste-to-energy facility within a new joint landfill. Applicability of the Fort Bliss/El Paso waste streams, must be studied as well as opportunities for geothermal, solar, and wind generation					
			Plan for expanded industrial transportation resulting from the inevitable growth of IP alos is manufacturing and distribution businesses. This activity will be a supplement to the Comprehensive Plan	As a result of the military transition at Fort Bilss, the demand for housing will increase and prices will likely adjust upwarfs as the supply of both rental and homeowner housing lags behind the demand. The additional demand depends upon the number of military personnel moving to El Paso County and the resultant number of military personnel may raivals to the area. Within the Housing Market Area, developable land is available to accommodate additional housing demand and the Army is expected to build additional units for military families and unaccompanied personnel although the number of housing units that may be built depends on circumstances not well defined at this time.	4				
				The estimates for the total number of military personnel requiring housing in the community ranges from 30,599 for the low scenario to 33,525 for the high scenario (Table 3.7-8). The estimate assumes that only the Floor Housing Requirement of 542 will be available for military families as well as the current housing capacity for 6,318 unaccompanied personnel.					

				DOCUMENT REVIEW	V				
Document Name	Year	Geographic Area Covered	Military/Community Compatibility Policies/Goals	Land Use/Growth Vision Near Installations	Protected/Conservation Areas Near Installations	Military Operational Impact References	Military Economic and Population References	Other Military Installation References	General Comments
SCOMENT NAME	real	Ceg spin. Area Coreta	reman y community competitions y romes y coals	Table 3.7-9 shows the military demand for off-post housing combined with the civilian demand for housing results in a community shortfall of housing ranging from 24,238 to 28,634 owner or renter occupied units depending on the growth scenario. The shortfall would be reduced by the number of housing units that the military develops for both military families and unaccompanied personnel. The HMA suggests that some 7,188 to 7,603 family housing units may need to be developed through privatuation programs or military construction programs.	,	Neterines	ropusuon nererences	Well Circles	General Comments
				Create a center of excellence to integrat and provide information concerning all available federal and state housing assistance programs and provide the information at convenient places throughout the city [3-128] Request inclusion of Fort Bills in the Army program to add bachelor enlisted an officer housing to privatized housing projects					
State Trust Lands within Otero County	Jan-13	Otero County							Otero County has surface est- lands, subsurface estate land: and "both" lands
SunZia Draft EIS		Lincoln, Socorro, Sierra, Luna, Grant, Hidalgo, and/or Torrance counties in New Mexico	BLM's preferred alternative (Subroute 1A1) is located within a portion of the Northern Call-up Area and portions of HAFB's R5107C/R5107H airspace used for flight operations. Additionally, the preferred alternative falls within an area at risk for potential damage from WSMR missile launch malfunctions.						
Tri-County RMP EIS Scoping	2005	Sierra/Doña Ana/Otero Counties BLM management	limited metion of military activities; no goals or policies						
Report Tri-County RMP (BLM)	2013	Sierra, Otero, and Dona Ana Counties	The Military training is a prominent activity within the BLM tri-county planning area. The RMP evaluates the potential impacts land disposal and management decisions might have on military missions and training activities. Several of the issues, especially the disposal of lands near military operations and renewable energy development are pertinent in the JLUS context.						
Otero County Subdivision Regulations		Otero County	Otero County's subdivision regulations outline plat and review procedures for the subdivision of lan within unincorporated Otero County. The regulations also set forth requirements for water quality and waste disposal, water use and conservation, terrain management, and streets, roads, alleys, an easements. Otero County's current subdivision regulations do not reference specific guidelines pertaining to proximity to military installations.						
Socorro County Land Subdivision Regulations		Socorro County	The regulations also set forth requirements and standards for water quantity and availability, water quality, waste disposal and management, and terrain management. Socorro County's current subdivision regulations do not reference specific guidelines pertaining to proximity to military installations.						
Sierra County Comprehensive Plan	2006	Sierra County	Adopted in 2006, the Sierra County Comprehensive Plan outlines the county's existing conditions and sets forth strategies to guide future growth and development, while preserving the area's quality of life. The plan addresses the following elements: land use and code enforcement, economi development, water, Infrastructure, transportation, and housing. The majority (67.7%) of Sierra County's land area is federally owned, 18.9% is privately owned, and 13.4% is held in state trust. Spaceport America and WSMR combine to form a major physical presence in the county. Agriculture and recreational tourism are the county's key economic engines. No reference to military.						
Sierra County Subdivision Ordinance	1999	Sierra County	Adopted in 1996 and amended in 1999, Sierra County's Subdivision Ordinance outlines plat and review procedures for the subdivision of land within unincorporated Sierra County and establishes five subdivision types based on number of units and lots per acre. Current subdivision regulations do not reference specific guidelines pertaining to proximity to military installations.						
Viva Doña Ana	2012	Dona Ana County	Viva Doña Ana is a county-wide plan that seeks to build a more sustainable community through the livability principles of expanding transportation and housing choices, enhancing economic competitiveness, strengthening es						

Appendix E - Summary of Military Documents and Studies

		Аррсі		133 Document				
Holloman Fort Bliss WSMR Spaceport		EG: ground disturbance from construction; aircraft operations; munitions expenditures; missile firing; off-road vehicle operations	E.g., North McGregor Range, MTRs (list if relevant); R-5107; new DAGIR; Holloman airfield;	This will reflect to the EA/EIS topic	What is the problem outside the installation boundary: frequent evacuation, unsafe for public; noise affects residences; vibrations affect residences; interferes with using TVs, GPS;	List affected locations(s)plac e(s) mentioned in the document	Measures mentioned as preventative actions; or stated as mitigations. This topic could get mired in the realm of unspecified BMPs, so in that case say something like Follow DoD/Army Safety regulations, or Erosion control BMPs	Use this to record any internal notes to our team. Or, document if this is a bigger issue such as cumulative, or if there is an underlying concern, or questions about how to define locations
Installation	File Name	Action/activity of concern	Location of activity	Resource category	Issue	Location of concern	Published minimization	Notes/com ments
Fort Bliss	3_FBT X_Co mma nd_Br ief M0 2_MA R_12. pptx	PowerPoint presentation about the expansion of Ft. Bliss facilities for training.					measures	Doesn't mention specific impacts, but generally states that noise, energy and transmission facilities, airspace, and water resources are encroachme nt challenges in regards to adjacent land uses.

Fort Bliss	AR#1	Fort Bliss, Texas and New Mexico,	Orogrande	Noise	The	Area	None listed	this concept
TOTE BIISS	74_Ft	Training Area Development Concept	Range Camp	140/30	Orogrande	surrounding	None listed	doc does
	Bliss	Truming Area Development concept	nange camp		Range	Orogrande		not have
	Traini				Camp is on	Range Camp		categories
	ng				the	Range Camp		of impacts
	Area				boundary of			or impacts
	Devel				Ft. Bliss			
	opme				with valley			
	nt				lands to the			
	Conce				north.			
	pt.pdf				Training in			
	pt.pui				this area			
					could			
					impact			
					surrounding			
					land with			
					noise			
					impacts.			
Fort Bliss	AR#1	Aircraft training exercises that extend	Ft. Bliss	Noise	Restricted	Areas east	None listed	
TOTE DII33	74_Ft	beyond Ft. Bliss boundary, but are within	restricted	NOISC	airspace	and northeast	None listed	
	Bliss	Ft. Bliss restricted airspace.	airspace		extends	of Ft Bliss.		
	Traini	Tt. Biss restricted an space.	инэрисс		beyond the	OTTE BIISS.		
	ng				boundary of			
	Area				Ft. Bliss to			
	Devel				the east			
	opme				and			
	nt				northeast.			
	Conce				Appears to			
	pt.pdf				be about			
	pt.pui				five miles			
					out.			
					Potential			
					noise			
					impact and			
					fuel			
					contaminati			
					on.			
Fort Bliss	AR#1	Aircraft operations	West half of	Noise	Aircraft	City of El Paso	None listed	
. 5. 6 5.133	74_Ft	operations	South Training		operations	3.0, 3. 2.1 030		
	Bliss		Areas		in west half			
	Traini				of South			
	ng				Training			
	ııg				Hairing	L		L

Appendix E - Fort Bilss Document Review									
	Area				Areas could				
	Devel				impact City				
	opme				of El Paso				
	nt				with aircraft				
	Conce				noise (e.g.,				
	pt.pdf				low-flying				
					helicopters)				
Fort Bliss	AR#1	Off-road vehicle operations	West half of	Air Quality	Off-road	City of El Paso	None listed		
	74_Ft		South Training		vehicle				
	Bliss		Areas		operations				
	Traini				in west half				
	ng				of South				
	Area				Training				
	Devel				Areas could				
	opme				have dust				
	nt				impacts on				
	Conce				City of El				
	pt.pdf				Paso.				
Fort Bliss	AR#1	Aircraft operations	East half of	Noise	Aircraft	Areas to the	None listed		
	74_Ft		South Training		operations	south and			
	Bliss		Areas		in east half	east of the			
	Traini				of South	east half of			
	ng				Training	South			
	Area				Areas could	Training			
	Devel				impact area	Areas			
	opme				to the south				
	nt				and east				
	Conce				with aircraft				
	pt.pdf				noise (e.g.,				
					low-flying				
					helicopters)				
Fort Disc	V D #4	Off road vahicle apprations	East half of	Air Quality	Off-road	Arons to the	None lists d		
Fort Bliss	AR#1	Off-road vehicle operations		Air Quality		Areas to the	None listed		
	74_Ft		South Training		vehicle	east of the			
	Bliss		Areas		operations	east half of			
	Traini				in east half	South			
	ng				of South	Training			
	Area				Training	Areas			
	Devel				Areas could				
	opme				have dust				
	nt				impacts on				

Fort Bilss P.Det P	Appendix E - Fort biss Document Review									
Fort Bilss		Conce				area to the				
Fort Bilss Rote AR81		pt.pdf				east.				
P4_Ft Bliss										
P4_Ft Bliss										
74_Ft Bilss Training Area Devel opme nt Conce pt.pdf Paso and Surrounding areas with noise. It's one week of missile fining at the following quantities: 8 to 10 Hawk missile; 16 to 60 Stinger missiles; 14 to 15 Patriot missiles; 14 to 15 Patriot missiles; 15 to 60 Stinger missiles; 16 to 60 Stinger missiles; 16 to 60 Stinger missiles; 17 to 15 Patriot missiles; 16 to 60 Stinger missiles; 17 to 15 Patriot missiles; 18 to 10 Hawk missiles; 19 to 60 Stinger missiles; 10 to 60 St										
P4_Ft Bilss Training Roving Ro	Fort Bliss	AR#1	Missile firings	McGregor Range	Noise	FIREX	City of El Paso	None listed		
Bilss Training Training Roving Sands JTX) Missile fining at McGregor Range ould limpact the City of El Paso and surrounding areas with noise. It's one week of missile fining in the following quantities: 8 to 10 Hawk missiles; 14 to 15 Patriot missiles; 15 to 60 Stinger missiles; 15 and 8 to 10 Rolland missiles. A portion of None listed New Mexico Highway 506 Training missiles and 15 Patriot of Highway 506 Training missiles and 15 Patr		74_Ft				(exercise	and			
Traini ng Area Devel opme nt Conce pt.pdf pt		Bliss				following	surrounding			
ng Area Devel opme nt to Conce pt.pdf		Traini				Roving	areas			
Area Devel Opene on to Conce of Conce of the										
Devel opme int Conce pt.pdf Provided impact the City of El Paso and surrounding areas with noise. It's one week of missile firing in the following quantities: 8 to 10 Hawk missiles; 14 to 15 Patriot missiles; 14 to 15 Patriot missiles; 36 to 60 Stinger missiles; and 8 to 10 Roland missiles; 14 to 15 Patriot missiles; 36 to 60 Stinger missiles; 37 and 8 to 10 Roland missiles; 14 to 15 Patriot missiles; 38 to 10 Roland missiles; 38 to 10 Roland missiles; 38 to 10 Roland missiles; 39 and 8 to 10 Roland missiles; 30 and 8 to 10 Roland miss										
opme nt Conce pt.pdf Paso and surrounding areas with noise. It's one week of missile firing in the following quantities: 8 to 10 Hawk missiles; 14 to 15 Patriot missiles; 56 to 60 Stinger missiles; and 8 to 10 Roland missiles. Fort Bliss 74 Live-fire activities McGregor Range Transportation at Uve-fire activities performed at Uve-fire activities performed at Highway 506 Hi										
nt Conce pt.pdf Paso and surrounding areas with noise. It's one week of missile firing in the following quantities: 8 to 10 Hawk missiles; 14 to 15 Patriot missiles; 56 to 60 Stinger missiles; and 8 to 10 Roland missiles. Fort Bliss ARM1 74_Ft Bliss Traini ALIVE-fire activities A portion of Aportion of Apo										
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Pt.pdf Pt.pdf Pt.pdf Paso and surrounding areas with noise. It's one week of missile firing in the following quantities: 8 to 10 Hawk missiles; 14 to 15 Patriot missiles; 56 to 60 Stinger missiles; and 8 to 10 Roland missiles Fort Bliss AR#1 74_Ft Bliss Traini AR#1 Live-fire activities McGregor Range Transportation McGregor Range at Uive-fire activities Paso and surrounding areas with noise. It's one week of missile firing in the following quantities: 8 to 10 Hawk missiles; 14 to 15 Patriot missiles; 56 to 60 Stinger missiles; and 8 to 10 Roland missiles. Fort Bliss Traini										
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74_Ft Bliss Traini Activities New Mexico Highway 506 at										
Bliss Traini performed Highway 506 at	Fort Bliss		Live-tire activities	McGregor Range	Transportation			None listed		
Traini at										
							Highway 506			
ng McGregor										
		ng				McGregor				

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	December.							
	They							
	deployed							
	17 Hawk							
	units and							
	fired 17							
	missiles.							
	The JSDF							
	deployed							
	24 Patriot							
	units to							
	McGregor							
	Range and							
	fired 30							
	Patriot							
	missiles.							
	Allied units							
	fire other							
	weapons							
	systems							
	consistent							
	with							
	current U.S.							
	weapons							
	system							
	range							
	capabilities.							
	These could							
	impact the							
	City of El							
	Paso and							
	surrounding							
	areas with							
	noise.							

Fact Diag	A D.U.4		Tulanaa Daain			City of El Door	N1 1: -+1	
Fort Bliss	AR#1	Aircraft operations, missile firings, and	Tularosa Basin	Noise	The ADATD	City of El Paso	None listed	
	74_Ft	live-fire activities	portion of		has "A"	and		
	Bliss		McGregor Range		stations	surrounding		
	Traini				located in	areas		
	ng				the			
	Area				Tularosa			
	Devel				Basin			
	opme				portion of			
	nt				McGregor			
	Conce				Range and			
	pt.pdf				has utilized			
					this area			
					extensively			
					for decades			
					for the			
					following			
					testing and			
					experiment			
					ation			
					support			
					activities:			
					• Low-flying			
					attack			
					profile with			
					fixed and			
					rotary			
					aircraft			
					• Laser			
					tracking of			
					aircraft and			
					ground			
					vehicles			
					• Live short-			
					range missile			
					firings			
					(Stinger,			
					Chaparral,			
					ADATS, etc.)			
					• Live anti-			
					aircraft gun			
					firings			

Appendix E - Fort E	Bliss Document Review
	(Bradley,
	Vulcan,
	etc.)
	• Live laser
	designated
	weapon
	firings
	• Live
	Patriot
	missile
	firings
	• Live High
	Mobility
	Multi-
	purpose
	Wheeled
	Vehicle
	Mounted
	Advanced
	Medium
	(HUMRAAM
) firings to
	include over
	the horizon
	(Otero
	Mesa)
	• Live
	"Shoot on
	the Move"
	firings
	• Many
	"Black Box"
	type
	missions
	and tests
	These could
	impact the
	City of El
	Paso and
	surrounding
	areas with
	noise.

Fort Bliss	AR#1	Live-fire activities	Doña Ana	Noise	The Doña	Adjacent	None listed	
I OI L DIISS	74_Ft	בועפ-ווופ מכנועונופא	Range–North	INUISE	Ana Range–	lands to the	None listed	
	Bliss		Training Areas		North	west and		
	Traini		Trailing Areas		Training	north		
					Areas are	HOITH		
	ng Area				used for			
	Devel							
					small arms,			
	opme nt				crew-served			
					weapons			
	Conce				(heavy and			
	pt.pdf				light			
					automatic			
					weapons			
					and			
					mortars),			
					armor,			
					mechanized			
					infantry,			
					artillery,			
					aerial			
					gunnery			
					and tactical			
					operations.			
					Explosives			
					used in the			
					western			
					and			
					northern			
					portions of			
					the Dona			
					Ana Range-			
					North			
					Training			
					Areas could			
					have noise			
					impacts on			
					adjacent			
					lands to the			
					west and			
					north.			

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Fort Bliss	AR#1	Missile firings	McGregor Range	Noise	Various	City of El Paso	None listed
	74_Ft				small	and	
	Bliss				missiles,	surrounding	
	Traini				rockets, and	areas	
	ng				HIMAD		
	Area				missiles		
	Devel				used on the		
	opme				McGregor		
	nt				Range could		
	Conce				impact the		
	pt.pdf				City of El		
					Paso and		
					surrounding		
					areas with		
					noise.		
Fort Bliss	AR#1	Missile firings	McGregor Range	Noise	Potential	Adjacent off-	None listed
	74_Ft		Training Area 10		location for	post areas	
	Bliss		J		TBM target	•	
	Traini				launch		
	ng				facilities -		
	Area				could		
	Devel				impact		
	opme				adjacent		
	nt				off-post		
	Conce				area with		
	pt.pdf				noise.		
Fort Bliss	AR#1	Live-fire activities	McGregor Range	Noise	Potential	Adjacent off-	None listed
	74_Ft		Training Area 16		locations	post areas	
	Bliss		J		for	'	
	Traini				controlled		
	ng				access FTX -		
	Area				could		
	Devel				impact		
	opme				adjacent		
	nt				off-post		
	Conce				area with		
	pt.pdf				noise.		
Fort Bliss	AR#1	Missile firings	McGregor Range	Noise	Small	Adjacent off-	None listed
	74_Ft		Training Area 25		portion of	post areas	
	Bliss		- · · · · · · · · · · · · · · · · · · ·		TA 25	1	
	Traini				would		
	ng				become a		
	۵				Jeconne a		

		, .pp	 155 Bocament				
	Area			surface			
	Devel			impact area			
	opme			for ATACMS			
	nt			IB (Army			
	Conce			Tactical			
	pt.pdf			Missile			
				System) -			
				could			
				impact			
				adjacent			
				off-post			
				area with			
				noise.			
Fort Bliss	Army	Army Growth and Force Structure					
	2010	Realignment					
	_Fort						
	Bliss						
	Army						
	Grow						
	th						
	and						
	Force						
	Restr						
	uctur						
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	Realig						
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 	IUIX L - FOIT DI	iss Document i	veview	T		
Increased on-road maneuver activities	Northeast	Soils/water	The	Off-post areas	The inclusion of the	
	McGregor Range		Northeast	downhill or	Northeast	
	North of		McGregor	downstream	McGregor Range	
	Highway 506		Range	of on-road	North of Highway	
			North of	and off-road	506 as part of the	
			Highway	training areas	ITAM RTLA plan to	
			506 would	in Northeast	characterize gullies	
			also	McGregor	and assess and	
			experience	Range North	mitigate	
			the highest	of Highway	combat/tank trail	
			level of on	506	erosion would	
			road vehicle		mitigate impacts to	
			trips		less than	
			annually		significant.	
			compared			
			to other		Potential loss of	
			FBTC		grassland could	
			subdivisions		increase wind	
			. The		erosion; however,	
			vehicle		erosion would be	
			trafficability		minimized by	
			ratings for		erosion control	
			soil in the		projects that are	
			Sacramento		part of the LRAM	
			Mountains		program.	
			portion of			
			the		LRAM seeks to	
			Northeast		stabilize soils and	
			McGregor		provide long-term	
			Range		vegetative cover to	
			North of		support military	
			Highway		land use. The	
			506 on		program involves	
			slopes less		using cost-effective	
			that 30		technologies, such	
			percent		as revegetation,	
			(Bissett –		erosion control	
			Rock		structures, site	
			Outcrop		hardening,	
			complexes)		blockades, and	
			are rated as		dust palliatives to	
			good for		prevent training	

Appendix E - Fort Bl	iss Document Review	
	most	site degradation,
	vehicle	soil erosion, and
	types. The	excessive road
	soils	damage.
	outside of	
	the	
	Sacramento	
	Mountains	
	are fine	
	grained and	
	thus more	
	susceptible	
	to erosion	
	and are in	
	proximity to	
	the existing	
	roadways	
	(unvegetate	
	d). These	
	effects	
	could lead	
	to increased	
	erosion and	
	channelizin	
	g, and	
	indirectly to	
	downstrea	
	m	
	sedimentati	
	on. Damage	
	to the road	
	areas could	
	also be	
	substantial	
	from	
	increased	
	on-road	
	maneuver	
	activities	
	because	
	vehicle use	
	would be	

Appendix E - Fort Bliss Document Review									
		concentrate							
		d onto a							
		smaller							
		area. While							
		this							
		disturbance							
		would not							
		destroy as							
		much							
		vegetative							
		cover as							
		disturbance							
		to off road							
		areas							
		would, it							
		could							
		disturb the							
		soils							
		underlying							
		the roads,							
		causing ruts							
		and gullies							
		to form,							
		which in							
		turn could							
		lead to the							
		indirect							
		effect of							
		increased							
		surface							
		water							
		runoff and							
		soil erosion							
		off of the							
		road							
		surface.							
		Surface.							

 	Idix E - I OI C DI	iss Document r	CVICVV			
Redevelopment of Cantonment Area	Cantonment	Visual Resources	Redevelop	The ROI for	From a visual	
	Area		ment would	visual	perspective,	
			result in	resources	however, the	
			less open	includes	additional	
			space and	those areas of	redevelopment	
			would	the	would be	
			further	installation	consistent with its	
			contribute	that are	surroundings.	
			to the	visible when	Consequently,	
			Cantonmen	traveling	impacts to visual	
			t's already	along public	resources on the	
			dense visual	roadways	Cantonment would	
			context.	within Fort	be less than	
			Existing	Bliss and	significant.	
			visual	surrounding		
			resources	areas and		
			on the	from		
			installation,	overlooks at		
			as they are	higher		
			visible	elevations		
			when	that are		
			traveling	located both		
			along public	within and		
			roadways	outside the		
			within Fort	installation		
			Bliss and	boundaries.		
			surrounding			
			areas and			
			from			
			publicly-			
			accessible			
			overlooks at			
			higher			
			elevations			
			that are			
			located			
			both within			
			and outside			
			the			
			installation			
			boundaries.			

 Apper		iss bocament i		ı		, , , , , , , , , , , , , , , , , , , ,
Redevelopment of Cantonment Area	Cantonment	Noise, Air Quality,	Constructio	City of El Paso	Construction	
	Area	Visual Resourcess	n impacts,	lands	impacts, however,	
			involving	adjacent to	would be	
			noise, dust,	Cantonment	temporary and	
			and	Area	contractors would	
			increased		be required to	
			constructio		follow all Fort Bliss	
			n-related		requirements. This	
			traffic,		would be	
			could		consistent with	
			negatively		construction	
			impact both		management	
			adjacent		procedures on the	
			areas as		installation.	
			well as		Therefore,	
			visual		development	
			resources.		impacts would be	
			resources.		less than	
					significant.	
Rail operation	Along existing	Noise	Operation	Town of	Significant.	
Rail Operation	rail line	Noise	of the rail	Orogrande		
	raii iirie		could	Orogrande		
			increase			
			noise levels			
			in proximity			
			to the Town			
			of			
			Orogrande.			
			Given the			
			fact that			
			the			
			proposed			
			rail line			
			would be			
			located east			
			of the			
			existing			
			railway, and			
			it would be			
			expected to			
			operate less			
			frequently			

 лире.	IGIA E I OIL DI	133 Document 1	1011011			
			than the			
			existing			
			railway,			
			projected			
			impacts of			
			TI-4 are			
			deemed to			
			be less than			
			significant.			
Construction activities in Cantonment Area	Cantonment	Earth Resources	Constructio	Off-post areas	Construction	
	Area		n activities	adjacent to	contract terms and	
			on the	Cantonment	conditions would	
			cantonment	area	include installation	
			to		and maintaining	
			accommoda		BMPs, erosion and	
			te the		sediment controls,	
			additional		and stormwater	
			stationing		management	
			of Soldiers		measures during	
			would		and immediately	
			result in		following	
			increased		construction;	
			soil erosion.		minimizing the	
			3011 61 0310111		area of exposed	
					soil during	
					construction and	
					use soil stockpiling	
					methods that	
					minimize dust	
					generation; and	
					installation ground	
					cover on remaining	
					exposed areas	
					after construction	
					is complete.	
Construction of rail line	Cantonment	Earth Resources	Constructio	Off-post areas	Rail line	
Construction of fall line	Cantonment	Earth Nesources	n of rail line	adjacent to	construction plans	
	Area		would	rail line	would include a	
				i ali iiile		
			interfere		storm water	
			with natural		management plan	
			drainage		and a soil	
			over time		management plan	

	Haix E Tore B	noo bocament		1	,	
			and would		to address	
			impact		creosote impacted	
			surrounding		soils.	
			soils with			
			creosote			
			from the			
			railroad			
			ties.			
Placement of three additional Controlled	Otero Mesa	Earth Resources	Soils on	Off-post areas	The limitations	
FTX sites	South of		Otero Mesa	downhill or	generally cannot	
	Highway 506		plain South	downstream	be overcome	
	,		of Highway	of FTX sites	without major soil	
			506 have	on Otero	reclamation,	
			somewhat	Mesa plain	special design, or	
			limited	South of	expensive	
			suitability	Highway 506	installation	
			for		procedures. Poor	
			Controlled		performance and	
			FTX uses,		high maintenance	
			requiring		associated	
			aggressive		Controlled FTX	
			sediment		sites located on the	
			and erosion		Otero Mesa	
			controls to		escarpment would	
			minimize		be expected. By	
			impacts.		locating the	
			Most soils		proposed	
			on the		Controlled FTX	
			Otero Mesa		sites on the Otero	
			escarpment		Mesa plain and on-	
			are located		going LRAM	
			on the		program projects	
			steep		impacts to soils	
			slopes, and		would be less than	
			are rated as		significant.	
			very limited		- 5	
			for the			
			constructio			
			n and use of			
			bivouac			
			areas. The			
			very limited			
	1		very illilited	1		

	, (ppc.	101X 2 1 01 C D	133 Document 1	101.011		
				rating		
				indicates		
				that the soil		
				has one or		
				more		
				features		
				that are		
				unfavorable		
				for the		
				specified		
				use.		
	Live-fire training at ranges	McGregor Range	Earth Resources	Detonation	Off-post areas	
	Live-ine training at ranges	and Doña Ana –	Laitii Nesouites	of	adjacent to	
		North Training		munitions,	McGregor	
		Areas		smoking,	Range and	
		Aleas			Doña Ana –	
				use of	North	
				welding		
				torches,	Training	
				vehicle	Areas	
				engines,		
				and other		
				training-		
				related		
				activities		
				could		
				initiate		
				wildland		
				fires.		
				Wildland		
				fire caused		
				by live-fire		
				training		
				activities		
				could		
				remove		
				large areas		
				of		
				vegetation		
				that		
				normally		
				protect soil		
				from		

Appendix E - Fort B	liss Document Review	
	erosion by	
	slowing	
	surface	
	runoff,	
	intercepting	
	raindrops	
	before they	
	reach the	
	soil surface,	
	and	
	anchoring	
	the soil with	
	roots.	
	Vegetation	
	removal	
	resulting	
	from	
	wildland	
	fires could	
	result in	
	increased	
	soil erosion	
	by water	
	and wind,	
	indirectly	
	causing	
	large-scale	
	removal	
	and	
	redepositio	
	n of soils,	
	gullying, or	
	unstable	
	slopes in	
	areas of	
	steep	
	slopes and	
	rapid	
	runoff. The	
	impact	
	would be	
	directly	

	Appelluix E - Fort Bi	133 Document			Ī	
			proportiona			
			I to the size			
			of the fire.			
Road construction	Southeast	Soils/water	Most soils	Off-post areas	This impact would	
	McGregor Range		in the Fort	adjacent to	be less than	
			Bliss ROI are	road	significant during	
			highly	construction	construction with	
			erodible	in the	implementation of	
			soils that	Southeast	standard road	
			are	McGregor	construction BMPs.	
			susceptible	Range		
			to wind			
			erosion.			
			The highly			
			erodible			
			soils on Fort			
			Bliss that			
			are			
			susceptible			
			to water			
			erosion			
			occur			
			primarily on			
			steep			
			slopes in			
			the			
			Southeast			
			McGregor			
			Range.			
			Constructio			
			n of roads			
			would			

	, (PPC)		133 Document 1	101.011		
				remove		
				existing		
				vegetation		
				and disturb		
				soils,		
				increasing		
				the erosion		
				potential.		
				The largest		
				impacts are		
				likely to be		
				in steep		
				slope areas		
				that are		
				more		
				vulnerable		
				to wind and		
				water		
				erosion.		
	Training activities	The ROI for this	Natural Resources	Noise and	Off-post areas	
	Training activities	analysis	ivaturar Nesources	potential	adjacent to	
		encompasses		fires from	Ft. Bliss	
		Fort Bliss and		training		
		the surrounding		activities	training areas	
				would be		
		area, including the Franklin and				
				impacts to		
		Organ		wildlife		
		Mountains to		receptors,		
		the west,		potentially		
		Sacramento		affecting		
		Mountains to		breeding,		
		the northeast,		feeding,		
		Hueco		and habitat		
		Mountains to		(vegetation)		
		the southeast,		loss.		
		Otero Mesa to		Indirect		
		the east, and		impacts		
		Tularosa Basin.		would also		
				occur and		
				include soil		
				erosion and		
				textural		

 лирс.	TOIL DI	133 Document 1	CVICV			
			changes, invasion of non-native and exotic species, and introductio n of pollutants (e.g., particulates , smoke).			
Live fire training and off-road vehicle maneuvers	Sacramento Mountains portion of the Northeast McGregor Range North of Highway 506	Natural Resources	Live fire training and off-road vehicle maneuver in the Sacramento Mountains portion of the Northeast McGregor Range North of Highway 506 might impact nesting season of the Gray Vireo.	Off-post areas adjacent to Sacramento Mountains portion of the Northeast McGregor Range North of Highway 506	Periodic surveys of the known Grey Vireo nesting areas will be conducted to monitor impacts to habitat and populations and ensure impacts stated in document are correct.	

 пре				1	T	
Live fire and pyrotechnics	Northeast	Natural Resources	The	Off-post areas	Fire suppression	
	McGregor Range		addition of	adjacent to	crews, which are	
	North of		live fire and	Northeast	required to be	
	Highway 506		pyrotechnic	McGregor	available for live	
			s to the	Range North	fire exercises,	
			Northeast	of Highway	would suppress	
			McGregor	506	such fires quickly,	
			Range		making it unlikely	
			North of		that the fires would	
			Highway		spread and	
			506 would		endanger the	
			increase the		nearby montane	
			potential		vegetation and	
			for		habitats or the	
			wildfires,		community of	
			which could		Timberon. In	
			have		addition, forest	
			adverse		management	
			impacts to		practices under	
			vegetation		INRMP include the	
			and		thinning of dead	
			habitats.		brush and trees in	
			Live fire		montane	
			events and		vegetation areas to	
			the fine		reduce the	
			fuels of the		potential fuel	
			grasslands		capacity have	
			could result		occurred and	
			in wildfires.		would continue.	
Training activities	South TAs,	Cultural	Increased	Off-post areas	Continued	
Training activities	North TAs, and	Resources	training in	adjacent to	consultation with	
	Tularosa Basin	Nesources	South TAs,	and requiring	tribes would be	
	i uidi USa DaSill		North TAs,		required to	
			and	passage	schedule for	
			Tularosa	through		
				South TAs,	access.	
			Basin, could	North TAs,		
			potentially	and Tularosa		
			restrict or	Basin		
			limit Native			
			American			
			access to			
			TCPs or			

,			iiss Document i		ı		
				sacred sites.			
	Construction activities in Cantonment Area	Cantonment	Air Quality	Constructio	Off-post areas	Dust control	
		Area		n activities	adjacent to	practices in the	
				on the	Cantonment	construction	
				cantonment	area	contract terms and	
				to	urcu	conditions would	
				accommoda		include	
				te the			
						maintaining	
				additional		moisture in	
				stationing		aggregate	
				of Soldiers		materials, limiting	
				would		vehicle speeds on	
				result in		unpaved areas,	
				increased		prompt cleanup of	
				fugitive		tracked out	
				dust		materials and	
				emissions.		covering haul	
				Cillissions.		trucks when	
						possible.	
	Construction activities in Cantonment Area	Cantonment	Air Quality	Completion	Off-post areas	The use of energy	
		Area		of	adjacent to	efficient building	
				additional	Cantonment	and support	
				buildings on	area	facilities designs	
				the		would reduce the	
				cantonment		amount of fuel that	
				to		must be burned to	
				accommoda		supply energy and	
				te the		thereby reduce the	
				additional		associated air	
				stationing		pollutant	
				of Soldiers		emissions.	
				would		CITIOSIONS.	
				result in			
				increased			
				demand for			
				fuel;			
				thereby,			
				increasing			
				the			

 Appei	IGIA E I OI C DI	133 Document i	1011011			
			associated air pollutant emissions. Additional air pollutant sources associated with building operations would increase emissions.			
Water demand increase	Ft. Bliss	Water Resources	Water demands would increase with additional population influx in the region and the stationing of additional Soldiers at Fort Bliss.	Region served by EPWU	Implementation of water conservation measures, such as using more reclaimed water for on post landscaping would reduce the consumption of potable water. Utilization of desalination plant that significantly increases availability of potable water in the area and decreases the amount of water needed to meet demand.	
Increased maneuver training	Ft. Bliss	Water Resources	Increased maneuver training in the FBTC may result in increased degradation of	Waterways adjacent to Ft. Bliss	None listed	

Т	Appl	SIIGIX E - I OI C D	iiss Document i		1		
				waterways			
				and			
				watershed.			
	Construction activities and stormwater	Ft. Bliss	Water Resources	Cantonmen	Areas	Construction	
	runoff			t and FBTC	adjacent to	contract terms and	
				constructio	Ft. Bliss	conditions would	
				n activities		include the	
				would		following BMPs:	
				increase		dredging, filling, or	
				impacts		grading in or	
				associated		adjacent to	
				with		streams and	
				stormwater		riparian areas	
				runoff.		would be	
						scheduled to occur	
						during low-flow	
						periods and would	
						be in compliance	
						with the Clean	
						Water Act. No	
						project-related	
						materials (such as	
						fill, revetment rock,	
						and pipe) would be	
						stockpiled in the	
						water or in riparian	
						areas. All project	
						related materials	
						and equipment	
						placed in the water	
						would be cleaned	
						prior to use to	
						ensure that they	
						are free of	
						pollutants. Trash or	
						debris would be	
						collected and	
						disposed of	
						properly. Project	
						vehicles and	
						equipment would	
						be fueled away	

 • •		133 Bocament		1		
					from streams and	
					riparian areas.	
					Turbidity and	
					siltation from	
					project-related	
					work would be	
					minimized and	
					contained to the	
					site through the	
					appropriate use of	
					effective silt	
					containment	
					devices and the	
					curtailment of	
					work during	
					adverse weather	
					conditions.	
					Application of dust-	
					suppressing	
					materials would	
					occur according to	
					_	
Dance construction and remove come	Ft. Bliss	Matan Dagayaga	Lacraca	Danian comund	industry standards.	
Range construction and range camp	Ft. Bliss	Water Resources	Increase	Region served	Upgrade waste	
expansion and increased waste-water			waste-	by EPWU	water treatment as	
demand			water		required to support	
			demand		the added	
			associated		population.	
			with range			
			constructio			
			n and range			
			camp .			
			expansion.			
Live fire training	Northeast	Water Resources	Live fire	Waterways	Continue	
	McGregor Range		training in	adjacent to	implementation of	
	North of		the	Ft. Bliss	arroyo riparian	
	Highway 506		Northeast		Limited Use Areas.	
			McGregor			
			Range			
			North of			
			Highway			
			506 could			
			impact			

	TIGIN E TOTE B		1			
			waterways.			
Increased water demand	Cantonment,	Water Resources	Increased	Region served	If needed,	
	Orograde, and		water	by EPWU	additional potable	
	McGregor		demand for		water sources	
			Cantonmen		could be developed	
			t, Orograde,		from water sources	
			and		within the	
			McGregor		installation. In	
			Currently		addition, the	
			allotted		installation would	
			amount of		establish brackish	
			water from		water wells for fire	
			WSMR (0.2		and dust	
			mgd)		suppression, if	
			would,		additional water	
			therefore,		was required to	
			not be		meet training	
			sufficient to		requirements.	
			meet the		In addition to	
			water		utilizing the	
			demand of		recently	
			all the		constructed	
			training		desalination plant,	
			personnel.		EPWU also plans to	
			Training		obtain water from	
			personnel		other sources, such	
			would need		as purchase of	
			to obtain		additional Rio	
			water from		Grande water	
			sources		rights, increased	
			other than		withdrawals from	
			Orogrande		the Hueco and	
			Range		Mesilla Bolsons,	
			Camp until		and development	
			such time		of the Dell City	
			that the		Area to meet the	
			Army		increased future	
			developed		water demand.	
			additional			
			sources to			
			supply this			

 	<u> </u>	bilos Document			T	1
			location.			
			In addition			
			to utilizing			
			the recently			
			constructed			
			desalination			
			plant,			
			EPWU			
			would have			
			to obtain			
			water from			
			other			
			sources,			
			such as			
			purchase of			
			additional			
			Rio Grande			
			water			
			rights,			
			increased			
			withdrawals			
			from the			
			Hueco and			
			Mesilla			
			Bolsons,			
			and			
			developme			
			nt of the			
			Dell City Area to			
			meet the			
			increased			
			water			
			demand.			
Increased wastewater load	Ft. Bliss	Water Resources	ST-1 would	Region served		
			increase the	by EPWU		
			wastewater			
			load from			
			the Post by			
			3.4 mgd			
			above			
			current			
		1		1	Annandi	

Appendix E - Fort Bliss Document Review									
	levels.								
	Combined								
	with								
	baseline								
	population								
	growth,								
	total								
	wastewater								
	treatment								
	loads could								
	exceed								
	EPWU's								
	existing								
	treatment								
	capacity by								
	approximat								
	ely 13								
	percent by								
	2015 The								
	total off-								
	post								
	generation								
	loads would								
	be 3.4 mgd,								
	which								
	represents								
	an increase								
	of 0.76 mgd								
	over the ST-								
	1. The total								
	combined								
	on-post and								
	off-post								
	wastewater								
	loads would								
	be 24.6								
	mgd, which								
	represents								
	approximat								
	ely 55								
	percent of								
	the EPWU's								

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				excess			
				treatment			
				capacity.			
	Construction of utility infrastructure	The ROI for	Utilities	Constructio	service area	These impacts	
	,,	assessing		n of	for the utility	would be less than	
		infrastructure		additional	providers	significant because	
		and utility		utility	providers	the length of	
				-			
		systems is made		infrastructu		disruptions would	
		up of the service		re		be minimized to	
		areas of each		improveme		the greatest extent	
		service provider		nts as		possible during this	
		serving the		proposed		period and service	
		facilities		for this		would be returned	
		operated by Fort		alternative		to normal after	
		Bliss in the		would		construction.	
		Cantonment and		result in			
		the surrounding		temporary			
		area. It includes		service			
		El Paso County		interruption			
		in Texas, and		S.			
		Doña Ana and					
		Otero Counties					
		in New Mexico;					
		the City of El					
		Paso; and the					
		service areas of					
		El Paso Electric					
		Company					
		(EPEC), El Paso					
		Gas Company					
		(EPGC), and					
		other utility					
		-					
		service					
		purveyors.					

				Ι .	
Increased energy demand	Ft. Bliss	Energy Demand	Energy	service area	New Army facilities
		and Infrastructure	demand	for the utility	would be designed
			associated	providers	with energy saving
			with		features and would
			constructio		comply with
			n and		current Army
			operation		Regulations,
			of new		Executive Orders,
			facilities in		etc. Currently
			the		those
			cantonment		include AR 11–27,
			and FBTC.		Army Energy
					Program; EO
					13123, Greening
					the Government
					through Efficient
					Energy
					Management; EO
					13423,
					Strengthening
					Federal
					Environmental,
					Energy, and
					Transportation
					Management; and
					the requirements
					under the new
					Energy
					Independence and
					Security Act of
					2007. Energy
					conservation
					measures would
					continue to be
					implemented as
					described in the
					Fort Bliss Final
					Mitigation and
					Monitoring Plan
					(US Army
]]		2008).

A Line Land Control of the Control o			A 1 100	11.6.54	l c:	
Additional stationing units increasing	Ft. Bliss gates	Transportation	Additional	U.S. 54	Size gates to	
traffic and decreasing safety		and Traffic	stationing	turning lanes	mitigate back-ups	
			units would		and increase the	
			result in		level of safety	
			significant		where traffic exits	
			back-ups at		highways. Follow	
			the gates		Army regulations	
			during peak		regarding the size,	
			hours. In		spacing, etc for	
			addition,		convoys.	
			the level of		Continue to	
			safety		provide the media	
			would		with information	
			decrease		regarding	
			along the		anticipated high	
			U.S. 54		traffic events and	
			turning		other actions that	
			lanes as		could adversely	
			large		affect traffic when	
			amounts of		consistent with	
			traffic exit			
					security concerns.	
			the			
			highway.			
Higher traffic volumes	In and around	Transportation	The	The ROI for	Traffic impacts	
	installation, and	and Traffic	forecasted	the ground	would generally be	
	specifically	Resources	addition of	transportatio	limited to the Fort	
	Cassidy,		active duty	n systems	Bliss installation	
	Sheridan, Biggs		Soldiers,	within the	and impacts to	
	AAF, and Robert		civilian	Cantonment	public roadway	
	E. Lee gates		personnel,	is El Paso	operations would	
			and their	County, TX.	be less than	
			dependents		significant.	
			to Fort Bliss			
			will result in			
			a significant			
			increase in			
			traffic			
			volumes			
			both within			
			and around			
			the			
			installation.			
			mstandtion.			

		·		133 Document				
					The highest volume of			
					additional			
					traffic			
					would occur			
					at Cassidy,			
					Sheridan,			
					Biggs AAF,			
					and Robert			
					E. Lee			
					gates,			
					which will			
					lead to			
					additional			
					delay or			
					congestion			
					at the entry			
		Constrained singues	Et Dies sinsus	Air Connection of the	points.	The ROI for	Comptunints can be	
		Constrained airspace	Ft. Bliss airspace	Air Space Use and	Airspace in		Constraints can be	
				Management	the ROI is	terminal	minimized through	
					constrained	airspace is	careful scheduling	
					•	the area that	and management	
						generally lies	of Fort Bliss will	
						within 20	need to schedule	
						miles of Biggs	and manage	
						AAF and El	airspace.	
						Paso		
						International		
						airport.		
						Notice is		
						taken,		
						however, of		
						airports		
						within a		
						similar		
						distance to		
						SUA		
						scheduled or		
						used by Fort		
						Bliss.		
						For SUA, the		
						ROI extends a		
1	1		İ	İ	i .	1	ı	1

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				greater		
				distance and		
				would include		
				not only the		
				military		
				training		
				airspace		
				within which		
				the aircraft		
				stationed or		
				TDY to Fort		
				Bliss would		
				fly, but also		
				associated		
				SUA in the		
				southeastern		
				New Mexico		
				region. This		
				airspace		
				includes		
				generally the		
				area around		
				White Sands		
				Missile Range		
				and Holloman		
				AFB as well as		
				Fort Bliss.		
Large caliber weapon firing	Ft. Bliss Training	Noise	Large	Areas	Participation in	
	complex		caliber	adjacent to	public outreach	
			weapon	Ft. Bliss	and continued use	
			firing on		of noise complaint	
			ranges in		hotline.	
			the FBTC			
			may result			
			in increased			
			noise			
			complaints.			
Increased housing demand	Areas adjacent	Socioeconomics	Increased	Communities	Continue quarterly	
mercuseu nousing ucinanu	to Ft. Bliss	Jocioeconomics	housing	near Ft. Bliss	meetings with	
	LO FL. DIISS		demand	ileai Ft. DIISS	realtors and	
			from Fort		apartment	
			Bliss		associations to	

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					military		ensure they have	
					personnel		the best available	
							planning	
							information. Work	
							with the privatized	
							housing partner at	
							Fort Bliss to	
							consider the	
							advisability of	
							constructing more	
							housing on the	
							Installation.	
		Increased student population	Areas adjacent	Socioeconomics	Impact of	Schools near	Military student	
			to Ft. Bliss		increase in	Ft. Bliss	impact aid.	
					student			
					population			
					on area			
					schools			
		Increased demand for medical services	Areas adjacent	Socioeconomics	Impact of	Medical	Cooperate with	
			to Ft. Bliss		increased	facilities near	local entities in	
					demand for	Ft. Bliss	plans to address	
					medical		shortfalls in	
					services.		healthcare.	
Fort Bliss	Binga	To transfer administrative jurisdiction over						No impacts
	man	certain						listed in doc.
	NDAA	Federal land (2,050 acres) in New Mexico						Is there
	Propo	from the Secretary of Defense to the						another doc
	sal.do	Secretary of the Interior						that
	СХ							accompanie
								s this one?
Fort Bliss	BlissP	Implementation of the Privatization of						
	ALFin	Army Lodging (PAL) Program						
	alEA.							
	pdf							

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	Demolition and construction of army	Cantonment	Air Quality	Short-term	City of El Paso	The Texas	Mitigation
	lodging	Area		minor	El Paso	Administrative	Summary in
				adverse and	International	Code outlines	<u>EA</u> :
				long-term	Airport	precautions that	Mitigation
				minor		would be required	actions are
				beneficial		during the new	used to
				effects on		facilities'	reduce,
				air quality		construction (Texas	avoid, or
				would be		Administrative	compensate
				expected.		Code Title 30,	for
				Implementi		Chapter 111). All	significant
				ng the		persons	adverse
				Preferred		responsible for any	effects. The
				Alternative		operation, process,	EA does not
				could affect		handling,	identify any
				air quality		transportation, or	significant
				through		storage facility that	adverse
				airborne		could result in	effects or
				dust and		fugitive dust,	the need for
				other		would take	any
				pollutants		reasonable	mitigation
				generated		precautions to	measures.
				during		prevent such dust	
				demolition		from becoming	
				and		airborne.	
				constructio		Reasonable	
				n, and by		precautions might	
				introducing		include using water	
				new		to control dust	
				stationary		from building	
				sources of		demolition,	
				pollutants,		construction, road	
				such as		grading, or	
				heating		land clearing.	
				boilers.			

Demolition and construction of a	rmy Cantonment		Short-term	City of El Paso	That source of	My noto:
lodging	rmy Cantonment Area	Noise	minor	El Paso	noise would be	My note: The impacts
	1		adverse	International	present only during	of this
			effects on	Airport	the construction	project are
			the noise	/ iii por c	phases of the	not
			environmen		project and would	specifically
			t would be		be limited to	stated in the
			expected.		normal weekday	analysis as
			Short-term		business hours to	having a
			increases in		the extent	potential
						-
			noise would		practicable.	impact on
			result from		Because of the	off-post
			the use of		temporary nature	lands
			constructio		of proposed	(except for
			n		construction	waste going
			equipment.		activities and the	to off-post
					limited amount of	landfills),
					noise that	but given
					construction	the
					equipment would	proximity of
					generate, the	the PAL sites
					effects would be	to the city
					minor.	and airport,
						they are
						worth
						noting.
Demolition and construction of a	rmy Cantonment	Geology and Soils	In the short	City of El Paso	Potential adverse	
lodging	Area		term,	El Paso	effects on the	
			staging, site	International	groundwater and	
			preparation	Airport	surface water	
			,		systems would be	
			demolition,		minimized by using	
			and new		appropriate site-	
			constructio		specific BMPs to	
			n activities		control erosion and	
			in parcels D,		runoff, in	
			F, H, K, M,		accordance with all	
			or L would		applicable federal,	
			be expected		state, and	
			to involve		installation	
			some soil		regulations, and by	

Appendix E - Fort Bliss Document Review adhering to sitecompaction specific SWPPPs and the and to requirements of potential for the Fort Bliss TCEQ removing Multi-Sector limited General Storm Water Permit vegetation on-site. (TXR050000), its Phase II Small It could result in Municipal Separate increases in Storm Sewer dissolved System General solid, Permit (TXR040000), and sediment, or other the TCEQ waterborne Construction pollutant **General Permit** runoff that (TXR150000) for could reach construction groundwate activities disturbing r through areas 5 acres or infiltration larger. through the porous soils, either during overland sheet flow, or by infiltration from storm water

retention ponds.

 	IIUIX L - FUIT DI	iss Document i	veview			
Demolition and construction of army	Cantonment	Water Resources	Long-term	City of El Paso	Long-term minor	
lodging	Area		minor	El Paso	adverse effects	
			adverse	International	would be	
			effects on	Airport	minimized by	
			water		complying with all	
			resources		applicable	
			would be		regulations for	
			expected		storm water	
			from any		management,	
			PAL parcels		including	
			on which		developing an	
			demolition		effective site-	
			followed by		specific SWPPP and	
			new		incorporating	
			constructio		BMPs for storm	
			n, or new		water	
			constructio		management into	
			n alone,		the site design.	
			would			
			result in a			
			net loss of			
			pervious			
			ground			
			cover			
			(vegetation			
			or			
			permeable			
			sand or			
			gravelscapi			
			ng) and net			
			increase in			
			impervious			
			surface			
			area.			
			Increased			
			impervious			
			surface			
			area, such			
			as			
			driveways,			
			parking lots,			
			sidewalks,			

	Аррс	HAIX E TOTE B	iss Document i				,
				and			
				rooftops,			
				can result in			
				increased			
				runoff (in			
				the forms of			
				increased			
				volume,			
				velocity,			
				and peak			
				flows),			
				increased			
				erosion,			
				increased			
				pollutant			
				loads (e.g.,			
				dissolved			
				solids,			
				petroleum			
				hydrocarbo			
				n debris			
				from			
				vehicles)			
				and			
				sediment			
				loads, and			
				reduced			
				ground			
				absorption			
				and			
				infiltration			
				of runoff			
				that would			
				otherwise			
				recharge			
				groundwate			
				r aquifers.			
	Demolition and construction of army	Cantonment	Transportation	Short-term	City of El Paso	Construction	
	lodging	Area	,	traffic	,	vehicles would be	
				delays from		scheduled and	
				constructio		routed to	
				n vehicles		minimize conflicts	
L				ii veincies		minimize connicts	

 		Diiss Documen				
			would be		with other traffic.	
			likely. It is			
			likely that			
			during the			
			constructio			
			n phases,			
			constructio			
			n vehicles			
			and day			
			labor traffic			
			would have			
			a minor			
			adverse			
			effect.			
Demolition and construction of army	Cantonment	Utilities	Long-term	Off-post	Approximately half	
lodging	Area	Othities	minor	landfills	of the debris would	
loughig	Alea		adverse	lanums	be recycled, which	
			effects on		would	
			off-post		result in 10,394	
			landfills		tons of non-	
			would be		hazardous C&D	
			likely.		debris for disposal	
			Debris from		in landfills.	
			constructio			
			n,			
			demolition,			
			and			
			renovation			
			of lodging			
			facilities			
			would			
			create a			
			substantial			
			amount of			
			constructio			
			n debris.			
			Implementi			
			ng the			
			Preferred			
			Alternative			
			would			
			generate			

		Арре	IIdix L - I OI C L	oliss Document		1		1
					approximat			
					ely 20,788			
					tons of C&D			
					debris			
					(Table 3.11-			
					1).			
Fort Bliss	EPCC	Construction and operation of a	South Training	Wildlife	Increase of	El Paso	Due to the	How close is
	_FNSI	community college campus by El Paso	Area		bird use of	International	proximity of the	build site to
	_sign	Community College on approximately 200			site due to	Airport	proposed East Fort	Butterfield
	ed_F	acres of Army-owned undeveloped land			onsite		Bliss Campus site	Trail, and
	B.pdf	located within the South Training Area.			permanent		to El Paso	how close is
					water.		International	the
							Airport, any onsite	Butterfield
							permanent water	Trail to the
							would incorporate	surrounding
							the use of bird balls	areas?
							to camouflage the	(potential
							liquid surface from	impacts)
							the air and deter	
							birds and	
							waterfowl.	
							Landscape design	
							would be	
							compatible with	
							the BASH program	
							and would include	
							measures to avoid	
							attracting avian	
							species such as	
							minimizing outside	
							trees to discourage	
							nesting habitat;	
							designing buildings	
							with no shady	
							spots under cooling	
							systems, vent	
							systems, or ducting	
							so as not to	
							provide nesting	
							habitat; and	
							discouraging	
							permanent water	

	Appelluix E - Fuit B	1133 Document	11011011			
					on the site.	
Construction activities	South Training Area	Vegetation	Introduction of invasive species through importation of fill materials.	Areas near build site.	Fill materials would be obtained by EPCC from nearby site to reduce unwanted invasive weed dispersal. Borrow pits would be inspected by EPCC for exotic weeds before use.	
Construction activities	South Training Area	Vegetation Wildlife Air Quality	Wind erosion and dust impacts due to grading of areas to accommoda te constructio n.	Areas adjacent to build site.	Only areas necessary to accommodate planned construction will be graded.	

		Appei	IUIX E - FUI L DI	iss Document R	eview		
Fort Bliss	FB	Mission and Master Plan - changes to land	Cantonment and		Off-road		Susan -
	MMP	use in the Main Cantonment Area and Fort	Training Areas		vehicle		should I
	SPEIS	Bliss Training Complex and develop			maneuvers		review the
	_Volu	infrastructure and facilities, including live-			are already		Final Fort
	me	fire and qualification ranges, to support			conducted		Bliss, Texas
	I.pdf	Base Realignment and Closure (BRAC) and			on		and New
		Integrated Global Presence Basing Strategy			approximat		Mexico,
		(IGPBS) decisions.			ely 335,000		Mission and
					acres in the		Master Plan
					North		Programmat
					Training		ic EIS
					Areas,		(Mission and
					South		Master Plan
					Training		PEIS) dated
					Areas, and a		December
					small		2000 and
					portion of		associated
					McGregor		Record of
					Range.		Decision
					Alternative		(ROD)
					4 (the		signed in
					Proposed		2001? This
					Action),		supplement
					would		al EIS
					include all		supports it.
					of the		
					changes		
					considered		
					in the other		
					three		
					alternatives		
					, providing		
					approximat		
					ely 352,000		
					acres of		
					additional		
					off-road		
					vehicle		
					maneuver		
					space		
					which,		
					when		
					WITCH		

Append	ix E - Fort Bliss Document R	Review	
		combined	
		with the	
		existing	
		maneuver	
		areas,	
		would	
		provide a	
		total of	
		687,000	
		acres of off-	
		road vehicle	
		maneuver	
		training	
		capability at	
		the	
		installation.	
		None of the	
		alternatives	
		would	
		involve off-	
		road vehicle	
		maneuvers	
		on Otero	
		Mesa or in	
		the	
		Sacramento	
		Mountain	
		foothills on	
		McGregor	
		Range.	
		The analysis	
		of impacts	
		on ground	
		transportati	
		on	
		considers	
		the effects	
		of military	
		convoys	
		traveling	
		from the	
		Main	

	1	• •			1	I	I	1
					Cantonmen			
					t Area to			
					the training			
					areas on			
					public			
					roadways			
					and the			
					potential			
					for off-road			
					vehicle			
					maneuvers			
					on			
					McGregor			
					Range to			
					affect traffic			
					on Highway			
					506 and			
					access			
					roads			
					through			
					McGregor			
					Range to			
					Forest			
					Service land			
					in the			
					Sacramento			
					Mountains.			
Fort Bliss	FB	Level of service on US 54	US 54	Main Cantonment	Level of	US 54	Transportation	
FULL BIISS	MMP	Level of service off 03 34	03 34	Area	service on	03 34	planning; roadway	
	SPEIS							
				Transportation	segments of		widening projects.	
	_Volu				US 54			
	me				would			
	I.pdf				decline to			
					unacceptabl			
					e level. LOS			
					of US 54 in			
					Training			
					Areas,			
					however, is			
					not			
					expected to			
					be affected.			

			ppendix E Tore	- Document			1	
Fort Bliss	FB MMP	Closures of Hwy 506	Hwy 506	Training Area Transportation	Highway 506 would	Hwy 506	Fort Bliss would notify the Otero	
	SPEIS				be		County	
	_Volu				occasionally		Administrator and	
	me				and		BLM of any road	
	I.pdf				temporarily		closings on	
					closed for		Highway 506.	
					military		From Mitigation	
					vehicle		Measures Section	
					crossings;		<u>Table</u> - Provide	
					delays		traffic control	
					expected to		during unit	
					last 15		crossings of NM	
					minutes or		Highway 506; limit	
					less. A		typical civilian	
					similar		traffic delays to 15	
					situation		minutes or less;	
					would exist		notify Otero	
					for access		County	
					roads		Administrator and	
					through		BLM of Highway	
					McGregor		506 closures.	
					Range to			
					the			
					Sacramento			
					Mountains			
					and			
					Grapevine.			
Fort Bliss	FB	Development of two BCT's	East of Biggs	Main Cantonment	The	Local roads	To minimize	
	MMP		AAF	Area	developme	and highway	congestion and	
	SPEIS			Transportation	nt of two	network	queuing at access	
	_Volu				more BCT's	(Loop 375	gates to Fort Bliss,	
	me				east of	and Sergeants	site development	
	I.pdf				Biggs AAF	Major	would need to	
					would add	Boulevard)	address the	
					another		interface of the	
					source of		additional BCT	
					traffic to		areas with	

		~pp	eliuix L - I Olt D	iiss Document i	CVICVV			
					the local		infrastructure and	
					roads and		roadway networks.	
					highway			
					network			
					(Loop 375			
					and			
					Sergeants			
					Major			
					Boulevard).			
Fort Bliss	FB	Level of service on area roadways	Area roadways	Main Cantonment	Projected	Area	Proposed Project	
	MMP			Area	LOS under	roadways	mitigation - The	
	SPEIS			Transportation	this	,	additional decline	
	_Volu				alternative		of LOS on US 54	
	me				(proposed		could be mitigated	
	I.pdf				project)		by widening that	
	'				would not		roadway segment	
					be		to 8 lanes. The	
					substantiall		estimated cost	
					y different		would be	
					from		approximately \$10	
					Alternatives		million (Ref# 568,	
					2 and 3.		569, 570).	
					One more		Alternatives 2 and	
					segment,		3 mitigation - The	
					US 54		decline of LOS on	
					between		Loop 375 and Fred	
					Van Buren		Wilson Avenue to	
					and Fred		unacceptable levels	
					Wilson		could be mitigated	
					Avenues,		by widening those	
					would		roadway segments.	
					decline to		It is estimated the	
					LOS E by		cost of widening	
					2021 (see		Loop 375 to 6 lanes	
					Table 5.2-		would cost	
					4). A total		approximately \$9	
					of seven		million. The cost of	
					segments		widening Fred	
					would		Wilson Avenue to 8	
					operate at		lanes is estimated	
					LOS D and		to be	
					another		approximately \$10	

Appendix E - Fort Bliss Document Review million (Ref# 568, seven at LOS E or F, 569, 570). including Alternative 1

	two	mitigation - The
	segments	decline to
	each of I-10	unacceptable LOS
	and US 54	on I-10 and US 54
	and one	could be mitigated
	segment	by widening those
	each of	roadway segments.
	Loop 375,	I-10 is already
	Fred Wilson	projected to be at
	Avenue,	LOS F between
	and Airport	Paisano Drive and
	Road.	McRae boulevard
	Future	by 2016 and
	transportati	between Paisano
	on planning	Drive and US 54 by
	would need	2021 under the No
	to consider	Action Alternative.
	the	It is estimated that
	concentrate	widening the 5-
	d	mile segment
	developme	between US 54 and
	nt in the	McRae Boulevard
	Main	to 12 lanes would
	Cantonmen	cost approximately
	t Area.	\$75 million.
	Projects	Widening US 54 to
	identified to	8 lanes between
	date would	Pershing Drive and
	not provide	Van Buren Avenue
	enough	is estimated to cost
	capacity to	approximately \$10
	handle the	million. Airport
	additional	Road between Fred
	traffic.	Wilson Avenue and
	<u>Alternatives</u>	Haan Road is
	<u>2 and 3</u> -	projected to
	one	operate at LOS F
	additional	under all
	roadway	alternatives.
		Appendix E 51

Appendix E - Fort Bliss Document Review Widening that segment, Loop 375 roadway segment from to 8 lanes is Montana estimated to cost Avenue to \$14 million (Ref# BR 54, 568, 569, 570). would decline to LOS D (see Table 5.2.3). No additional roadway segments would decline to unacceptabl e levels of service. By 2021, Loop 375 between BR 54 and US 54 and Fred Wilson Avenue between US 54 and Airport Drive would be at LOS E, slightly more degraded than under Alternative 1 (see Table 5.2-191 4). <u>Alternative</u> 1 - the large influx of vehicles

Appendix E - Fort Bliss Document Review							
		was					
		distributed					
		around the					
		Fort Bliss					
		Main					
		Cantonmen					
		t Area on					
		US 54,					
		Airport					
		Road, and					
		Fred Wilson					
		Avenue.					
		LOS on 11					
		roadway					
		segments					
		would be					
		lower than					
		under the					
		No Action					
		Alternative					
		in 2016 (see					
		Table 5.2-					
		3). Six					
		would					
		decline to					
		LOS D and I-					
		10 between					
		US 54 and					
		Paisano					
		Drive would					
		further					
		degrade to					
		LOS F. By					
		2021,					
		another					
		segment of					
		I-10 would					
		be at LOS D,					
		and US 54					
		between					
		Pershing					
		Drive and					

		, .ppc.	IGIA E I GIC DI	133 Document				,
					Van Buren Avenue would operate at LOS E (see Table 5.2- 4). Four of the roadway segments would operate at LOS E or F.			
Fort Bliss	FB MMP SPEIS _Volu	Increased operations in the Restricted Areas airspace	Ft. Bliss airspace	Airspace Use and Mgmt	4). Four of the roadway segments would operate at	Restricted airspace above off- post lands	Manage through scheduling, balancing training requirements with	
	me I.pdf				Areas overlying the Fort Bliss Training Complex	post ianus	airspace availability.	

Fort Bliss	FB	Increased development in El Paso and	El Paso and	Land Use	Additional	City of El Paso	Municipal and	
1016 21100	MMP	Doña Ana Counties	Doña Ana	24114 036	personnel	and rural	county planning	
	SPEIS		Counties		and related	communities	and land use	
	_Volu		000		population	in El Paso and	controls are the	
	me				increase	Doña Ana	primary	
	I.pdf				would	Counties	mechanisms for	
					increase		managing	
					developme		sustainable	
					nt in the		growth. There is	
					City of El		currently no	
					Paso.		community-level	
					Open space		plan for	
					would be		development in the	
					converted		Chaparral area.	
					to more		Issues of public	
					urban use.		financing and	
					Rural		housing demands	
					communitie		are addressed in	
					s in El Paso		more detail in	
					and Doña		Section 5.13.	
					Ana			
					Counties			
					likely to			
					become			
					more			
					developed.			
					The			
					additional			
					units			
					identified			
					for			
					stationing			
					on Fort Bliss			
					are			
					projected to			
					increase			
					population			
					in the ROI			
					by about			
					120,000			
					people over the next			
	1				the next	1		

Appendix E - Fort	Bliss Document Review	
	five years,	
	above	
	baseline	
	growth	
	level (see	
	Section	
	5.13). This	
	includes	
	new	
	military and	
	civilian	
	personnel,	
	their	
	dependents	
	, and other	
	incoming	
	population	
	caused by	
	increased	
	economic	
	activity. The	
	population	
	influx would	
	generate a	
	demand for	
	more than	
	36,000	
	homes in	
	the region	
	above that	
	projected	
	under the	
	No Action	
	Alternative	
	(see Section	
	5.13). The	
	increased	
	growth	
	would	
	affect local	
	land use	
	plans and	

Appendix E - Fort Bliss Document Review						
	infrastructu					
	re					
	developme					
	nt,					
	especially in					
	El Paso					
	County.					
	Most of the					
	growth in					
	the county					
	in recent					
	years has					
	occurred in					
	east El					
	Paso, and					
	this trend is					
	expected to					
	continue.					
	The City of					
	El Paso					
	recently					
	changed its					
	Master Plan					
	to proceed					
	with zoning					
	an 18,000-					
	acre area in					
	Northeast					
	El Paso. The					
	conceptual					
	planned					
	developme					
	nt for this					
	area					
	includes					
	about					
	62,000					
	homes,					
	commercial					
	and					
	industrial					
	areas,					
	areas,					

Appendix E - Fort Bliss Document Review							
	community						
	facilities,						
	parks, and						
	schools.						
	This large						
	scale						
	initiative						
	would meet						
	future						
	housing						
	needs, but						
	in the						
	interim,						
	new						
	housing						
	supplies						
	may not be						
	able to						
	keep up						
	with						
	demand						
	and there						
	may be						
	interim						
	shortfalls in						
	residential						
	capacity in						
	the city.						
	Residents						
	may seek						
	areas that						
	are already						
	established,						
	accessible,						
	or less						
	expensive						
	such as						
	Chaparral						
	and						
	Anthony,						
	New						
	Mexico. The						

Appendix E - Fort Bliss Document Review							
	planned						
	Northeast						
	Loop						
	highway						
	project						
	could also						
	influence						
	the location						
	of new						
	growth in						
	the region						
	into						
	Northeast						
	El Paso and						
	the						
	Chaparral						
	and						
	Anthony						
	areas of						
	Doña Ana						
	County.						
	Open space						
	areas would						
	be						
	converted						
	to						
	residential						
	and other						
	developme						
	nt.						

Fort Bliss	FB	Increased dust and noise	North and South	Land Use	Off-post	Off-post areas	This is from
	MMP		Training Areas		areas	adjacent to	the No
	SPEIS				adjacent to	North and	Action
	_Volu				North and	South	Alternative.
	me				South	Training	Under the
	I.pdf				Training	Areas	No Action
	'				Areas could		Alternative,
					be exposed		land use in
					to increased		the Main
					noise and		Cantonment
					dust.		Area would
					Increased		remain as
					dust and		designated
					noise may		in the RPMP
					reduce the		adopted
					desirability		pursuant to
					of some		the ROD for
					areas		the Mission
					adjacent to		and Master
					the Fort		Plan PEIS.
					Bliss		
					Training		
					Complex for		
					residential		
					use and for		
					recreation,		
					particularly		
					on the		
					south and		
					east sides		
					of the South		
					Training		
					Areas and		
					south and		
					west sides		
					of Doña Ana		
					Range (see		
					Sections 5.6		
					and 5.10). It		
					is unlikely		
					that land		
					uses would		

Appendix	Appendix E - Fort Bliss Document Review						
	change						
	dramatically						
	, but						
	unfavorable						
	conditions						
	may						
	influence						
	where						
	people						
	choose to						
	live,						
	affecting						
	regional						
	growth						
	patterns						
	over time.						
	The						
	addition of						
	a second						
	CAB would						
	increase						
	helicopter						
	operations						
	on Doña						
	Ana Range						
	and the						
	DAGIR. This						
	might						
	generate						
	increased						
	aircraft						
	noise in the						
	community						
	of						
	Orogrande.						
	Orogranue.						

Fort Bliss	FB	1,500 acres of new urbanized landscape		Visual Resources	Developme	East of Biggs	The new	
FOIL BIISS		1,500 acres of new urbanized landscape	East of Biggs	visual Resources				
	MMP		AAF		nt east of	AAF	development on	
	SPEIS				Biggs AAF		Biggs AAF would	
	_Volu				would		not be near	
	me				increase		existing residential	
	I.pdf				under this		areas that might be	
					alternative,		sensitive to the	
					resulting in		visual effects of	
					about 1,500		large-scale	
					acres of		industrial	
					new		development. Dust	
					urbanized		during construction	
					landscape.		may be a	
					This visual		temporary direct	
					change		impact on visibility	
					would be		and cause	
					evident to		annoyance to El	
					travelers		Paso residents	
					along major		driving and living in	
					roadways		proximity to Fort	
					such as		Bliss, but this	
					Loop 375		would be a	
					and		temporary impact	
					Sergeants		and would not	
					Major		alter the visual	
					Boulevard.		environment.	
					It would be		CHVII OHIHICHC.	
					similar to			
					the			
					industrial			
					and			
					commercial			
					developme			
					nt occurring			
					on adjacent			
					airport			
	1				property.			
		Development of the DAGIR and CACTF	McGregor Range	Visual Resources	Additional	higher	Within the areas	
					new ranges	viewing	classified by BLM	
					would be	locations	as VRM IV, the	
					developed	along the	visual changes	
					on the Fort	roadways	would not be	

		133 Document				
			Bliss Training Complex. Developme nt of the DAGIR and CACTF on the McGregor Range would involve large areas, but the features would be relatively dispersed given the size of the		inconsistent with management objectives. For the most part, the new features would not be visible off the installation, except from higher viewing locations along the roadways.	
Illumination from night training	Fort Bliss Training Complex (esp. DAGIR)	Visual Resources	range. Night training would occur on the Fort Bliss Training Complex and would include use of illumination flares, especially at the DAGIR.	Off-post areas adjacent to the Fort Bliss Training Complex	These would be temporary light sources that might be visible off-post, but because of distance, would be small, temporary, and unobtrusive.	
Increase of off-road vehicle maneuvers and supersonic aircraft operations	Ft. Bliss and Holloman AFB	Recreation	The increase in off-road vehicle maneuvers at Fort Bliss, combined	Areas surrounding Fort Bliss and Holloman AFB		

Fr.				133 Document				
Fort Bliss	FB MMP SPEIS _Volu me I.pdf	Increased water demand from Hueco Bolson aquifer and subsequent drawdown	Ft. Bliss/Hueco Bolson aquifer	Water Resources	with increased supersonic aircraft operations from Holloman AFB, could cumulativel y decrease solitude and the attractivene ss of outdoor recreation resources in the region. Increased demand for potable water leading to increase in withdrawal of fresh water from Hueco Bolson and potential aquifer drawdown	Other areas that use the aquifer for water (EI Paso, Ciudad Juarez, Mexico)	From the Mitigation Measures Section table - Accelerate implementation of projects for alternative water sources; increase desalination capability. Not from the Mitigation Measures Section table - projects to inject water to recharge the Hueco	
Fort Bliss	FB MMP SPEIS _Volu me I.pdf	Increased potable water demand	Ft. Bliss	Water Resources	Increased demand for potable water taxing fresh water resources	Area water sources	Bolson Use more reclaimed water for landscaping on post.	

Fort Bliss	FB	Increased potable water demand &	Ft. Bliss/El Paso	Water Supply	Increase in	El Paso Water		
	MMP	baseline population growth in El Paso	area		demand for	Utility		
	SPEIS				potable			
	_Volu				water in		ļ	
	me				combinatio		ļ	
	I.pdf				n with		ļ	
					baseline		ļ	
					population		ļ	
					growth in El		ļ	
					Paso area		ļ	
					estimated		ļ	
					to exceed		ļ	
					EPWU's		ļ	
					available		ļ	
					resources		ļ	
					by 3		ļ	
					percent,		ļ	
					requiring		ļ	
					acceleration		ŀ	
					of EPWU		ļ	
					plans to		ŀ	
					obtain			
					additional			
					supplies.		ļ	

Fort Bliss	FB	Increased potable water demand	Ft. Bliss/El Paso	Water Supply	Population	EPWU and	Using more	
FOLL BIISS		increased polable water demand		water supply				
	MMP		area		increase	areas that use	reclaimed water	
	SPEIS				would	Rio Grande,	for on-post	
	_Volu				represent	Hueco and	landscaping would	
	me				28 percent	Mesilla	reduce the	
	I.pdf				of EPWU's	Bolsons, and	consumption of	
					demand for	the Dell City	fresh water.	
					potable	Area Aquifer		
					water.	for water		
					Alternative	sources		
					4 could			
					involve an			
					increase in			
					the on-post			
					population			
					of			
					approximat			
					ely 18,768			
					and a daily			
					population			
					of			
					approximat			
					ely 21,791.			
					The total			
					demand for			
					potable			
					water in the			
					Main			
					Cantonmen			
					t Area (on-			
					post increase)			
					could			
					increase by			
					an			
					estimated			
					4.3 MGD			
					(4,850 afy)			
					and an			
					increase in			
					off-post			
					water			

Appendix E - Fort E	Bliss Document Review
	consumptio
	n of
	approximat
	ely 25,280
	afy (22.6
	MGD)above
	current
	levels. The
	additional
	water
	required
	would be
	supplied by
	EPWU. The
	capacity of
	the
	pipelines
	from EPWU
	connections
	may need
	to be
	upgraded to
	meet
	increased
	flows. The
	combined
	requiremen
	t from both
	on-post and
	off-post
	population
	increases
	would be
	approximat
	ely 28
	percent of
	EPWU's
	existing
	demand for
	water and 9
	percent of
	EPWU's

Appendix	E - Fort Bliss Document Review
	current
	treatment
	capacity. As
	noted for
	the No
	Action
	Alternative,
	this is likely
	an
	overestimat
	ion because
	of water
	conservatio
	n measures
	being
	incorporate
	d in military
	family
	housing.
	The
	increased
	consumptio
	n, '
	combined
	with
	baseline
	population
	growth,
	could
	exceed
	EPWU's
	available
	resources
	by 3
	percent.
	Depending
	on when
	the
	additional
	population
	influx
	influx occurred,

Appena	lix E - Fort Bliss Document Review	
	EPWU	
	would need	
	to develop	
	additional	
	sources of	
	potable	
	water,	
	currently	
	not	
	anticipated	
	to be	
	needed	
	until 2020	
	(Ref# 317).	
	Possible	
	sources	
	include	
	purchase of	
	additional	
	Rio Grande	
	water	
	rights,	
	increased	
	withdrawals	
	from the	
	Hueco and	
	Mesilla	
	Bolsons,	
	and	
	developme	
	nt of the	
	Dell City	
	Area	
	Aquifer.	

Fort Bliss	FB	Increased wastewater generation in El	El Paso	Sanitary	Increased	EPWU	Reroute	
TOTE BIISS	MMP	Paso	LITASO	Wastewater	wastewater	LIVVO	wastewater to	
	SPEIS	F 430		vvastevvater	generation		plants with	
	_Volu				in El Paso		additional capacity;	
	_void me				estimated		develop additional	
	I.pdf				to exceed			
	i.pui						capacity.	
					existing			
					capacity by			
					approximat			
					ely 13			
					percent.			
					Alternative			
					4 would			
					increase the			
					wastewater			
					load from			
					the post by			
					3.4 MGD			
					above			
					current			
					levels,			
					representin			
					g 25			
					percent of			
					existing			
					excess			
					capacity of			
					the Haskell			
					Street			
					plant. The			
					increase in			
					off-post			
					population			
					would			
					generate			
					approximat			
					ely 17.2			
					MGD of			
					wastewater			
					above			
					current			
					levels. The			

		Аррсі	IGIAL TOTEDI	iss Document i	CVICV	•		
					combined			
					additional			
					flow			
					represents			
					approximat			
					ely 46			
					percent of			
					EPWU's			
					excess			
					treatment			
					capacity.			
					Combined			
					with			
					baseline			
					population			
					growth, total			
					wastewater			
					treatment			
					demand			
					could			
					exceed			
					EPWU's			
					existing			
					treatment			
					capacity by			
					approximat			
					ely 13			
					percent by			
					2015.			
Fort Bliss	FB	Hazardous materials contamination in	Ft. Bliss Forward	Water Resources	Potential	Off-post areas	Construct	
	MMP	stormwater	Area Refueling		for storm	that could	containment	
	SPEIS		Points and other		water	experience	systems such as	
	_Volu		hazardous		contaminati	run-off from	bermed areas for	
	me		materials		on from	Ft. Bliss	fuel bladders in	
	I.pdf		handling areas		hazardous	refueling	Forward Area	
					material	points and	Refueling Points	
					spills	other	and other	
					'	hazardous	hazardous	
						materials	materials handling	
						handling	areas	
						areas		
						ai cas		

Fort Bliss	FB	Increased runoff from increased	Main	Stormwater/Wast	Increased	El Paso Int'l	Under Alternative
FOIL BIISS							
	MMP	impervious areas	Cantonment	ewater	runoff from	Airport and	4, storm water
	SPEIS		Area		the	Rio Grande	conveyances would
	_Volu				estimated		need to be
	me				1,600 acres		constructed in the
	I.pdf				of new		area between EPIA
					impervious		(El Paso Int'l
					area. This		Airport) and Biggs
					would		AAF to handle the
					represent		runoff from the
					an 88		estimated 1,600
					percent		acres of new
					increase in		impervious area.
					impervious		Additional storm
					area above		water
					the 2005		management
					Main		facilities would
					Cantonmen		likely need to be
					t Area		built to minimize
					impervious		the discharge of
					area and		storm water from
					could result		Fort Bliss during
					in		moderate to high-
					approximat		intensity rainfall.
					ely 1,700		,
					afy		From Mitigation
					additional		Measures Section
					surface		Table - Construct
					water		additional storm
					runoff over		water
					2005		management
					conditions.		facilities.
					While some		Tacinites.
					of this		
					additional		
					runoff will		
					be		
					contained		
					by existing		
					retention		
					ponds on		
					the post,		

Appendix E - Fort Bliss Document Review						
	during					
	storms, it is					
	likely that					
	storm water					
	would need					
	to be					
	discharged					
	through					
	existing					
	conveyance					
	s to the Rio					
	Grande to					
	avoid					
	flooding					
	conditions.					
	Storm					
	water					
	discharges					
	would be					
	required to					
	comply with					
	Fort Bliss'					
	MS4 permit					
	and					
	incorporate					
	appropriate					
	best					
	manageme					
	nt practices.					

E + DI:	ED			iss Bocament		CI: 1 ICII	5 1	
Fort Bliss	FB	Increased solid waste for landfill	Fort Bliss	Hazardous	Additional	Clint Landfill	Develop new on-	
	MMP		Cantonment	Materials and	population	and areas	post	
	SPEIS		Area	Waste	increase	served by	landfill.Transport	
	_Volu				estimated	Clint	refuse to off-post	
	me				to reduce		landfills.	
	I.pdf				the life of			
					the Clint			
					Landfill by			
					about 2.2			
					years if new			
					on-post			
					landfill is			
					constructed			
					and 2.6			
					years if new			
					on-post			
					landfill is			
					not			
					constructed			
					.The			
					potential			
					additional			
					constructio			
					n at Fort			
					Bliss under			
					Alternative			
					4 could			
					generate an			
					estimated			
					44 tons per			
					day of			
					additional			
					constructio			
					n waste			
					that would			
					be disposed			
					of at the			
					Fort Bliss			
					landfill, and			
					5.2 tons of			
					recyclable			
					material per			

Appendix E - Fort Bliss Document Review					
	day. If a				
	new landfill				
	is				
	constructed				
	on post,				
	refuse from				
	the post				
	disposed of				
	in the Fort				
	Bliss				
	landfills				
	could				
	increase by				
	40.3 tons				
	per day				
	(105				
	percent				
	increase).				
	Refuse from				
	on-post				
	residential				
	areas and				
	the				
	increased				
	off-post				
	population				
	associated				
	with this				
	alternative				
	could				
	increase the				
	disposal				
	rate of solid				
	waste to				
	the Clint				
	Landfill by				
	approximat				
	ely 236.3				
	tons per				
	day (almost				
	30 percent				
	increase)				

Appendix E - Fort Bliss Document Review						
	over					
	current					
	levels,					
	shortening					
	its					
	remaining					
	life by					
	approximat					
	ely 2.2					
	years. If a					
	new on-					
	post landfill					
	is not					
	constructed					
	, the					
	disposal					
	rate of solid					
	waste to					
	the Clint					
	Landfill					
	would					
	increase by					
	approximat					
	ely 276.6					
	tons per					
	day,					
	shortening					
	its					
	remaining					
	life be					
	about 2.6					
	years (9					
	percent).					

Fort Bliss	FB	Increased electrical demand	Cantonment	133 Document I	Under	El Paso	Add new	
FOIL BIISS	MMP	Increased electrical demand		Utilities				
			area, El Paso,		Alternative	Electric	substations and gas	
	SPEIS		and surrounding		4 (Proposed	Company	lines;	
	_Volu		communities		Project),	(EPEC) and	energy-efficient	
	me				peak	areas served	facility design.	
	I.pdf				electrical	by EPEC		
					demand			
					could			
					increase by			
					as much as			
					52.3 MVA			
					and			
					consumptio			
					n could			
					increase by			
					as much as			
					15.7 MW.			
					The			
					increase in			
					peak			
					demand			
					would			
					represent			
					22 percent			
					of the			
					current			
					excess			
					power			
					available			
					from EPEC.			
					Power			
					would need			
					to be			
					routed to			
					areas of			
					new			
					constructio			
					n on post			
					and may			
					require the			
					addition of			
					a			

		Дрре	TIGIAL TOTED	iiss Document i		1	1	
					substation.			
					The			
					potential			
					increase in			
					off-post			
					population			
					associated			
					with this			
					alternative			
					would			
					increase			
					peak			
					electrical			
					demand by			
					approximat			
					ely 108.6			
					MVA, which			
					is 45.7			
					percent of			
					the current			
					excess			
					power			
					available			
					from EPEC.			
Fort Bliss	FB	Increased gas demand	Fort Bliss	Utilities	The square	El Paso Gas	Add new	
FULL BIISS	MMP	increased gas demand	FULL DIISS	Otilities	footage of	Company	substations and gas	
	SPEIS							
					buildings on Fort Bliss	(EPGC) and	lines;	
	_Volu					areas served	energy-efficient	
	me				could more	by EPGC	facility design.	
	I.pdf				than triple			
					under			
					Alternative			
					4 to a total			
					of			
					approximat			
					ely 37			
					million			
					square feet.			
					At the			
					current rate			
	1		1	1	1	1	İ	1
					of hourly			

Appendix E - Fort Bliss Document Review									
	consumptio								
	n per								
	square foot								
	(0.08 CFH),								
	total gas								
	consumptio								
	n during the								
	coldest days								
	would be								
	on the								
	order of 2.9								
	million CFH.								
	The existing								
	capacity of								
	the gas								
	supply								
	system to								
	the post is								
	2.5 million								
	CFH, so								
	additional								
	connections								
	or increased								
	feeder line								
	sizes would								
	be needed								
	to meet								
	demands								
	under this								
	alternative.								
	In addition,								
	total annual								
	gas								
	consumptio								
	n could								
	increase by								
	a factor of								
	about 3.4.								
	about 5.4.								

Fort Bliss	FB	Soil erosion	Fort Bliss	Earth Resources	Accelerated	Off-post areas	Establish earth	
FULL DIISS	MMP	Soli erosion	training areas	Editii Nesources	soil erosion	adjacent to	cover; add soil	
	SPEIS		training areas			_		
					in training	post training	binding materials	
	_Volu				areas	sites	to the ground	
	me						surface in areas of	
	I.pdf						concentrated	
							development and	
							use. Install artificial	
							or vegetative	
							windbreaks in	
							highly erosive	
							areas. Perform soil	
							erosion impact	
							surveys and	
							implement Land	
							Rehabilitation and	
							Maintenance to	
							repair damage	
							caused by	
							maneuver training.	
Fort Bliss	FB	Increased sedimentation	Fort Bliss	Earth Resources	Potential	Down-stream		
	MMP				for	surface		
	SPEIS				cumulative	waters		
	_Volu				increases in			
	me				sedimentati			
	I.pdf				on from			
					increased			
					water			
					erosion on			
					Fort Bliss			
					land in			
					combinatio			
					n with other			
					sources of			
					sedimentati			
	1				on in down-			
					stream			
I								
					surface			

E . DI:	ED	1			C: :C: :	OCC 1		
Fort Bliss	FB	Increased wind erosion/vegetation burial	Fort Bliss	Earth Resource	Significant	Off-post areas	Management goals	
	MMP		training areas		increase in	downwind of	listed in the INRMP	
	SPEIS				wind	post training	(Ref# 23) include	
	_Volu				erosion	sites	monitoring of earth	
	me				potential in		resources and	
	I.pdf				south		preventing	
					Tularosa		accelerated	
					Basin		erosion. An	
					portion of		improved	
					McGregor		understanding of	
					Range from		the local effects of	
					range		increased off-road	
					constructio		vehicle maneuvers	
					n and off-		would aid in	
					road vehicle		planning to meet	
					maneuvers.		the goals of the	
					Heavily		INRMP and help	
					used areas		identify mitigation	
					would be		measures that	
					vulnerable		meet site-specific	
					to		conditions on the	
					downwind		Fort Bliss Training	
					soil		Complex. Regular	
					transport.		and repeated	
					Down-wind		monitoring of	
					vegetation		selected locations	
					could		in the training	
					become		areas before and	
					covered,		after maneuvers	
					leading to		would provide	
					further		needed data useful	
					desertificati		to help identify	
					on.		areas that require	
					Vegetation		mitigation	
					cover in less		measures for	
					heavily		minimizing erosion	
					used areas		and to determine	
					likely to		trends in ecosite	
					become			
							transition states.	
					patchy.		Fort Bliss has	
					Extension of		instituted on-going	
					offroad		monitoring efforts	

Appendix E - Fort Bliss Document Review vehicle using remote maneuvers sensing and resulting in vegetation plots. increase in In some cases, soil erosion mitigation may in training include avoiding areas north intensive vehicle of Highway maneuvers on 506. areas with high or Extension of moderate erosion offroad hazards to vehicle maintain ground maneuvers cover. Construction of roads and resulting in increase in buildings in areas soil erosion that have fewer hazards or in Training limitations and Areas 24, 26, and 27 mitigation by on design would McGregor minimize the need for after Range, which are construction also rehabilitation and susceptible maintenance. The capacity of moderate vegetation and to severe soils to recover from disturbance water erosion. should be considered when Areas of concentrate scheduling training activities (Ref# d use in the 125). vicinity of Soil erosion the range camps and controls that may CACTF are be implemented to more likely reduce soil to become movement by air barren, and water may include typical accelerating

damage to

measures as (Ref#

	1							
					soils by		133):	
					wind and		 Establishment of 	
					water		earth cover such as	
					erosion and		vegetation or	
					expanding		aggregate	
					adverse		 Installation of 	
					offsite		artificial or	
					impacts by		vegetative	
					blowing		windbreaks	
					dust and		 Adding soil 	
					burial of		binding materials	
					vegetation		to the ground	
					and		surface	
					biological		Other mitigation	
					crusts		measures may be	
					downwind		identified as a	
					from the		result of	
					bare areas.		monitoring, such as	
							avoiding areas	
							where vegetation	
							and biological	
							crusts have been	
							damaged by	
							multiple vehicle	
							passes in order to	
							allow recovery to	
							occur.	
							In addition, limiting	
							off-road vehicle	
							maneuvers on	
							loamy soils in the	
							vicinity of	
							Hackberry Tank	
							would reduce	
							erosion in that	
Fort Bliss	FB	Increased construction againment	Fort Bliss	Air Quality	Tomporarile	Off post areas	area. Use efficient	
LOLUBIISS		Increased construction equipment		Air Quality	Temporarily	Off-post areas		
	MMP	emissions	Cantonment		increased	adjacent to	construction	
	SPEIS		Area		emissions	on-post	practices; avoid	
	_Volu				from	construction	long periods with	
	me				constructio	sites	equipment engines	
	I.pdf				n		idling; carpooling	

	1		peliuix E - Fort i	Jii33 Documen		1	T	
Fort Bliss	FB	Increased POV emissions	Fort Bliss and	Air Quality	equipment	Areas	of construction workers; use postcombustion control equipment on heavy duty diesel engines. Encourage car	
	MMP SPEIS _Volu me I.pdf		surrounding area		emissions from privately owned vehicles	surrounding Fort Bliss and El Paso	pooling.	
Fort Bliss	FB MMP SPEIS _Volu me I.pdf	Increased airborne dust	Fort Bliss Training Complex	Air Quality	Increased fugitive dust from military vehicle convoys	Off-post areas adjacent to Fort Bliss training areas	Regulate convoy routes, spacing, and speed. Apply surface treatments (e.g., dust suppressants, gravel) on heavily traveled segments of unpaved range roads and tank trails. Construct or upgrade internal range roadways that lead to training areas away from installation boundaries.	
Fort Bliss	FB MMP SPEIS _Volu me I.pdf	Increased noise and dust	Fort Bliss Training Complex	Noise Air Quality	Areas adjacent to the Fort Bliss Training Complex will be exposed to increased dust and noise associated with	Off-post areas adjacent to Fort Bliss training areas		

-	Appendix E - Fort Bliss Document Review									
					training by one Heavy BCT					
Fort Bliss	FB MMP SPEIS _Volu me I.pdf	Increased fugitive dust	Fort Bliss Training Complex	Air Quality	Increase in offroad vehicle maneuvers would result in increased fugitive dust generation; however, particulate levels at installation boundary would be well below air quality standards.	Off-post areas adjacent to Fort Bliss training areas	Dust suppressants or gravel can be used to mitigate fugitive dust emissions on heavily traveled unpaved roads and tank trails. These mitigation efforts would not be practical for offroad maneuver areas because of the extensive geographic size of those areas. Fugitive dust from military vehicle convoys could be reduced by regulating convoy routes, spacing and speed. Using internal roadways removed from installation boundaries would reduce off-post impacts from fugitive dust. Offroad vehicle maneuvers could be reduced during periods of high wind that might transport particulates greater distances. From Mitigation			

	Measures Section table - Reduce training during periods of high wind.					1		
	training during periods of high							
	periods of high	١						
	wind.							
	+	Fort Bliss, El	The	Air Quality	El Paso County	Increased air pollutants	FB	Fort Bliss
		Paso County,	forecast	All Quality	Li i aso county	mercused an ponditants	MMP	ו טונ טווטט
		and	baseline				SPEIS	
		surrounding	population				_Volu	
		areas	growth, in				me	
			combinatio				I.pdf	
			induced					
			population					
			changes, is					
,								
j								
								1
		ļ	~ t LI D				1	
			of El Paso					
			County					
			County between					
			County between 2004 and					
			County between 2004 and 2015. This					
			County between 2004 and 2015. This could					
			County between 2004 and 2015. This					
			County between 2004 and 2015. This could					
			n with Fort Bliss- induced population changes, is projected to result in a 44-52 percent increase in the population					

Appendix E -	- Fort Bliss Document Review	
	s of the	
	NAAQS,	
	especially of	
	carbon	
	monoxide	
	and	
	particulate	
	matter	
	(PM10) (for	
	which the	
	City of El	
	Paso is in	
	moderate	
	non-	
	attainment)	
	and	
	of nitrogen	
	oxides.	
	PM10 levels	
	in El Paso	
	and Doña	
	Ana	
	Counties	
	are further	
	aggravated	
	by	
	windblown	
	dust,	
	especially	
	during dust	
	storms.	
	Additional	
	ground	
	disturbance	
	due to	
	constructio	
	n both on	
	and off	
	post, in	
	combinatio	
	n with	
	agricultural	

Appendix E - Fort Bliss Document Review									
	uses and								
	off-road								
	vehicle use								
	(both								
	military and								
	civilian),								
	would all								
	contribute								
	to								
	potentially								
	significant								
	cumulative								
	increases in								
	PM10								
	emissions in								
	the ROI.								
	While air								
	pollutant								
	emissions								
	from								
	proposed								
	activities at								
	Fort Bliss								
	are not								
	expected to								
	significantly								
	affect								
	visibility in								
	Class I areas								
	such as								
	Guadalupe								
	National								
	Park,								
	cumulativel								
	y, increased								
	emissions in								
	the ROI can								
	be expected								
	to								
	contribute								
	to								
	increasing								

		· · · · · · · · · · · · · · · · · · ·	1	133 Document i			T	
					haze in			
					those areas.			
Fort Bliss	FB	Off-road vehicle maneuvers	McGregor Range	Biological	Off-road	Off-post areas		
1016 21133	MMP	on road remote maneuvers	Wie Gregor Hange	Resources	vehicle	adjacent to		
	SPEIS			Resources	maneuvers	south		
	_Volu				in south	Tularosa		
	me				Tularosa	Basin portion		
	I.pdf				Basin	of McGregor		
					portion of	Range and		
					McGregor	southeast		
					Range	training areas		
					would have	of McGregor		
					moderate	Range		
					impact on			
					vegetation			
					and wildlife.			
					Vegetation			
					cover likely			
					to become			
					more			
					patchy with			
					herbaceous			
					species,			
					which could			
					lead to less			
					read to less			

	Appendix E Tott bliss bocument new ew									
					wildlife					
					density.					
					Also,					
					habitat in					
					southeast					
					training					
					areas of					
					McGregor					
					Range (TAs					
					24, 26, and					
					27)					
Fort Bliss	FB	Off-road vehicle maneuvers	Fort Bliss	Biological	Damage to	Off-post areas	Where practicable			
	MMP		training areas	Resources	vegetation	adjacent to	and appropriate,			
	SPEIS				and loss of	Fort Bliss	rotate off-road			
	_Volu				habitat	training areas	vehicle training			
	me				from off-		among training			
	I.pdf				road vehicle		areas to provide			
					maneuver		for recovery or			
							restoration of			
							vegetation;			
							invasive weed			
							monitoring and			
							control.			

	1			Document i		Т
Fort Bliss	FB	Large caliber weapons firing	Doña Ana and	Noise	Noise from	Communities
	MMP		McGregor	Environmental	large caliber	such as
	SPEIS		Ranges	Justice	weapons	Berino and
	_Volu				firing at	the outskirts
	me				Doña Ana	of Anthony,
	I.pdf				Range	New Mexico,
					would	as well as the
					affect the	northeast
					community	suburbs of El
					of	Paso, would
					Chaparral,	experience an
					which has a	increase in
					higher	noise
					percent of	exposure. The
					low income	southern part
					population	of the Organ
					than the	Mountains
					average for	Recreation
					the region	Area would
					of	also be
					influence.	exposed to
					Additional	noise levels
					areas in	between 57
					Doña Ana,	to 62 CDNL as
					El Paso, and	far north as
					Otero	Pyramid Peak
					Counties	and Pena
					with higher	Blanca.
					than	
					average	
					low-income	
					population	
					would be	
					affected by	
					large caliber	
					weapons	
					firing at	
					Doña Ana	
					and	
					McGregor	
					Ranges.	
					Ranges.	
	1					

Appendix E - Fort Bliss Document Review									
	The LUPZ								
	57 CDNL								
	contour								
	extends off								
	the								
	installation								
	at the								
	northern,								
	southern,								
	and								
	western								
	boundaries								
	of Doña Ana								
	Range,								
	southeast								
	of the								
	boundary								
	where the								
	South								
	Training								
	Areas and								
	McGregor								
	Range								
	meet, and								
	east of TA								
	23. The								
	Noise Zone								
	II 62 CDNL								
	contour								
	extends off								
	the								
	northern,								
	southern,								
	and								
	western								
	boundaries								
	of Doña Ana								
	Range and								
	south of								
	McGregor								
	Range.								
	Approximat								

Appendix E - Fort Bliss Document Review								
	ely 193,170							
	acres							
	outside of							
	Fort Bliss							
	would be							
	newly							
	exposed to							
	noise levels							
	between 57							
	and 62							
	CDNL and							
	40,264							
	acres to							
	noise levels							
	above 62							
	CDNL.							
	Almost							
	4,400 acres							
	of private							
	land,							
	primarily in							
	the							
	Chaparral							
	area, would							
	be in Noise							
	Zone II,							
	which is							
	generally							
	incompatibl							
	e with							
	residential							
	use. Based							
	on current							
	density in							
	the areas							
	affected,							
	the							
	potential							
	number of							
	homes							
	affected is							

		i i i i		133 Document			
					small.		
Fort Dice	FB	Wasaasafirias	The many CACTE	Naiss	14/22/22/2	Dudalia la ada	
Fort Bliss	MMP	Weapons firing	The new CACTF and DAGIR	Noise	Weapons firing at the	Public lands and	
	SPEIS		and DAGIN		new CACTF	residential	
	_Volu				and DAGIR	areas near	
	me				would	Fort Bliss, the	
	I.pdf				expand the	community of	
					57 CDNL off	Orogrande,	
					the	the Hueco	
					installation	Tanks	
					along US 54		
					in Otero		
					County,		
					mostly		
					affecting		
					public lands but also the		
					community		
					of		
					Orogrande.		
					South of TA		
	i .				Journ Of 17		

				Document				
					32, the LUPZ contour would expand south toward the Hueco Tanks, where the noise would likely be audible to park visitors.			
Fort Bliss	FB MMP SPEIS _Volu me I.pdf	Helicopter operations	Fort Bliss training areas	Noise	Elevated helicopter noise in residential areas, especially during night operations	Residential areas near Fort Bliss	Route helicopter traffic between Biggs AAF and the Fort Bliss Training Complex over Fort Bliss land.	
Fort Bliss	FB MMP SPEIS _Volu me I.pdf	Helicopter operations	Fort Bliss training areas	Noise	Elevated helicopter noise at the town of Orogrande	Town of Orogrande	Route helicopter traffic between Orogrande Range Camp and the DAGIR at sufficient distance from Orogrande to keep Day-Night Average Sound Levels at residences in the town below 65 ADNL	
Fort Bliss	FB MMP SPEIS _Volu me I.pdf	Large-caliber weapons firing	Fort Bliss training areas	Noise	Incompatibl e noise from large- caliber weapons firing	City of El Paso, El Paso County, Doña Ana County, Otero County	Restrict new residential development in areas with Day-Night Average Sound Levels above 62 CDNL.	

Fort Bliss	FB	Incompatible noise from Fort Bliss	Fort Bliss	Noise	Incompatibl	Off-post	Provide sound	
TOTE BIISS	MMP	Incompatible noise noin Fort Bilss	TOTE BIISS	NOISE	e noise	residential	attenuation of	
	SPEIS				levels in off-	areas	existing residences	
						areas		
	_Volu				post residential		exposed to Day	
	me						Night Average	
	I.pdf				areas due		Sound Levels above	
					to military		62 CDNL and 65	
F . DI:	- FD	11.1	6 11 1	C C 1	activities	0,00	ADNL.	
Fort Bliss	FB	Higher risk of wildfires	Southeast	Safety	Higher risk	Off-post areas	The Fort Bliss	
	MMP		Training Areas		of wildfires	adjacent to	Range SOP	
	SPEIS				in	southeast	specifies the	
	_Volu				grasslands	training areas	following	
	me				of the		procedures for fire	
	I.pdf				southeast		prevention and	
					training		response:	
					areas.		 All training units 	
							are required to	
							furnish a	
							firefighting team	
							while on the Fort	
							Bliss Training	
							Complex.	
							 All fires must be 	
							reported to Range	
							Control	
							immediately on	
							detection. Range	
							Control will	
							immediately place	
							a hold on live fire	
							and dispatch a fire	
							fighting team with	
							suppression	
							equipment.	
							 Unit commanders 	
							are required to	
							ensure that smoke	
							grenades, trip	
							flares, and other	
							fire-causing devices	
							are not used in an	
							area that could	

Appendix E - Fort Bliss Document Review								
						cause a range or		
						brush fire. Live or		
						spent devices will		
						not be abandoned		
						or discarded		
						anywhere on the		
						Fort Bliss Training		
						Complex.		
						 Sufficient unit 		
						personnel and		
						firefighting		
						equipment are		
						required to be		
						present at artillery		
						and mortar powder		
						burning areas		
						during use,		
						including at least		
						10 gallons of water.		
						Range Control		
						restricts burning of		
						excess powder		
						bags during		
						extremely dry and		
						windy periods		
						(wind exceeding 12		
						knots). Unused		
						powder increments		
						that cannot be		
						burned due to		
						weather conditions		
						will be packed in		
						metal containers		
						and returned to		
						the ammunition		
						supply point.		
						• Tracers,		
						pyrotechnics, and		
						illumination		
						projectiles are		
						subject to		
						restriction/suspens		

						ion during dry periods.	
						• Fires are not fought in impact areas.	
Fort Bliss FB MMI SPEI: _Vol me I.pdf	IS Iu	Fort Bliss Training Complex	Safety	Risk of wildfires in Fort Bliss Training Complex	Off-post areas adjacent to Fort Bliss Training Complex	Units furnish on- site fire-response personnel and equipment for all training exercises and report all fires immediately to Range Control.Avoid use of fire-producing ammunition and flares in high-risk areas such as grasslands during	

	1	лире.	I TOTAL		1	I		1
							extremely dry and windy	
							conditions.Establis	
							h schedule to	
							monitor and	
							maintain strategic	
							fire breaks.	
Fort Bliss	FB	Noise from exposives	Fort Bliss	Noise	Off-post	Off-post areas	Site all live-fire	
	MMP		Training		explosive	adjacent to	ranges in	
	SPEIS		Complex		safety	Fort Bliss	accordance with	
	_Volu				impacts	training areas	safety criteria to	
	me						ensure all Surface	
	I.pdf						Danger Zones	
							remain within	
							installation	
							boundaries.	
Fort Bliss	FB	Increased population pressure in El Paso	El Paso County	Socioeconomics	Significant	El Paso		
	MMP	County and associated quality of life issues			increase in	County		
	SPEIS				population			
	_Volu				growth in El			
	me				Paso			
	I.pdf				County.			
					Annual			
					population			
					growth rate			
					estimated			
					to increase			
					from less			
					than 3			
					percent to			
					more than 4			
					percent			
					over next			
					five years.			
					Demand for			
					additional			
					housing			
					may out			
					pace ability			
					of local			
					market to			
					respond,			

Appendix E - Fort Bliss Document Review								
	resulting in							
	increased							
	housing							
	prices.							
	El Paso							
	school							
	districts,							
	law							
	enforcemen							
	t and fire							
	protection,							
	and medical							
	services							
	would							
	require							
	substantial							
	personnel							
	increases							
	and new							
	facilities in							
	some cases.							
	Medical							
	service							
	impacts							
	especially							
	significant							
	due to							
	already							
	existing							
	shortfalls in							
	the							
	community.							
	Quality of							
	life in El							
	Paso would							
	be affected							
	by							
	increased							
	urbanizatio							
	n and							
	probable							
	cost of							

			1 10:00	1133 Document			1	
					living			
					increases.			
Fort Bliss	FB	Increased housing demand	Areas adjacent	Socioeconomics	Increased	Communities	Construct	
FOIL BIISS	MMP	increased flousing demand	_	Socioeconomics				
			to Ft. Bliss		housing	near Ft. Bliss	additional on-post	
	SPEIS				demand		housing.	
	_Volu				from Fort			
	me				Bliss			
	I.pdf				military			
					personnel			
Fort Bliss	FB	Increased student population	Areas adjacent	Socioeconomics	Impact of	Schools near	Military student	
	MMP		to Ft. Bliss		increase in	Ft. Bliss	impact aid;	
	SPEIS				student		additional grants	
	_Volu				population		and funding for	
	me				on area		school	
	I.pdf				schools		improvements	
Fort Bliss	FB	Increased demand for medical services	Areas adjacent	Socioeconomics	Impact of	Medical	Establish medical	
1011 01133	MMP	increased demand for inedical services	to Ft. Bliss	Jocioeconomics	increased	facilities near	school in El Paso;	
	SPEIS		to Ft. Diiss		demand for	Ft. Bliss	create state	
						FL. DIISS		
	_Volu				medical		healthcare	
	me				services on		infrastructure	
	I.pdf				top of		fund; provide	
					existing		financial incentives	
					shortfalls		for physicians and	
							healthcare	
							professionals.	

	Appendix E - Fort Bliss Document Review							
Fort Bliss	FB				CUMULATIV			
	MMP				E IMPACTS			
	SPEIS				<u>Identificatio</u>			
	_Volu				n of			
	me				<u>Significant</u>			
	I.pdf				<u>Issues -</u>			
	i.pui				Comments			
					rec'd on:			
					• Impacts of			
					dust on			
					local and			
					regional air			
					quality.			
					• Damage			
					to soils,			
					vegetation,			
					habitat, and			
					wildlife.			
					•			
					Transportati			
					on and			
					access.			
					 Impacts 			
					on cultural			
					resources.			
					• Impacts			
					on other			
					uses of			
					McGregor			
					Range,			
					including			
					grazing,			
					recreation,			
					special land			
					designation			
					s such as			
					Culp			
					Canyon			
					Wilderness			
					Study Area,			
					and Bureau			
					of Land			

Appendix E - Fort Bliss Document Review					
	Manageme				
	nt plans and				
	manageme				
	nt activities.				
	• Impacts of				
	increased				
	population				
	on water				
	supply,				
	public				
	services,				
	education,				
	utility costs,				
	and quality				
	of life.				
	Cumulative				
	impacts of				
	military				
	training in				
	combinatio				
	n with the				
	effects of				
	drought.				
	Cumulative				
	impacts of				
	Army				
	actions in				
	combinatio				
	n with other				
	plans, uses,				
	and				
	developme				
	nt.				

Appendix E - Fort Bliss Document Review						
	CUMULATIV					
	<u>E IMPACTS</u>					
	<u>Identificatio</u>					
	n of					
	Significant					
	<u>Issues -</u>					
	Those with					
	potential to					
	produce a					
	<u>larger</u>					
	<u>cumulative</u>					
	impact:					
	Effects of					
	increased					
	developme					
	nt on and					
	off post on					
	land use in					
	the region.					
	• Changes					
	in the visual					
	character of					
	the					
	landscape.					
	• Impacts of					
	increased					
	traffic on					
	local and					
	regional					
	roadways.					
	• Increased					
	demand for					
	utilities					
	(water,					
	wastewater					
	treatment,					
	solid waste					
	disposal)					
	and energy					
	consumptio					
	n.					
	• Increased					

Appendix E - Fort Bliss Document Review					
	military use				
	of the				
	regional				
	airspace.				
	• Changes				
	in physical				
	and natural				
	resources				
	including				
	soils,				
	vegetation,				
	wildlife, and				
	protected				
	species.				
	• Effects of				
	increased				
	air pollutant				
	emissions				
	and fugitive				
	dust on				
	regional air				
	quality.				
	Depletion				
	of surface				
	and				
	groundwate				
	r resources				
	due to				
	increased				
	demand for				
	potable				
	water.				
	• Loss of				
	historic				
	properties				
	that could				
	be eligible				
	for listing in				
	the				
	National				
	Register of				
	Historic				

		 	33 Bocament i		 	
				Places.		
				 Increased 		
				pressure on		
				socioecono		
				mic		
				resources,		
				including		
				housing,		
				schools, law		
				enforcemen		
				t and fire		
				protection,		
				and medical		
				services.		
Fort Bliss	FB			CUMULATIV		
	MMP			E IMPACTS		
	SPEIS			<u>Identificatio</u>		
				n of		
	_Volu					
	me			<u>Significant</u>		
	I.pdf			<u>Issues -</u>		
				<u>National</u>		
				<u>and</u>		
				<u>Internation</u>		
				al Concerns:		
				•		
				Cumulative		
				impacts of		
				the 2005		
				BRAC		
				decisions.		
				•		
				Cumulative		
L	1					

Appendix E - Fort Bliss Document Review					
		impacts			
		from all			
		Army			
		Transforma			
		tion and			
		IGPBS			
		activities.			
		• Impacts of			
		the Global			
		War on			
		Terrorism,			
		military			
		actions in			
		Iraq and			
		Afghanistan			
		, or			
		potential			
		future			
		military			
		deployment			
		s and			
		engagemen			
		ts.			
		•			
		Immigration			
		policies and			
		border			
		programs			
		that may			
		affect El			
		Paso and/or			
		Ciudad			
		Juárez.			
		• Growth,			
		developme			
		nt, and			
		economic			
		activity in			
		Mexico.			

		Арреі	Idix E TOTE DI	iss Document i			
Fort Bliss	FB				SUMMARY		
	MMP				OF		
	SPEIS				PROBABLE		
	_Volu				ADVERSE		
	me				IMPACTS		
	I.pdf				THAT		
	•				CANNOT BE		
					AVOIDED		
					Ground		
					disturbance		
					during		
					constructio		
					n and off-		
					road vehicle		
					maneuvers.		
					Wind		
					erosion of		
					areas		
					exposed by		
					off-road		
					vehicle		
					maneuvers		
					and		
					resulting		
					temporary		
					degradation		
					in air		
					quality due		
					to dust		
					generation.		
					Although		
					erosion		
					control		
					measures		
					are		
					available, it		
					is not		
					feasible to		
					implement		
					these		
					measures		
					on the scale		
					on the state		

Appendix E - Fort Bliss Document Review						
	needed to					
	prevent					
	erosion and					
	fugitive					
	dust					
	generation					
	in the					
	training					
	areas used					
	for off-road					
	vehicle					
	maneuvers.					
	Changes in					
	vegetation					
	type and					
	cover and in					
	habitat type					
	and quality					
	in areas					
	that are					
	heavily					
	used for off-					
	road vehicle					
	maneuver					
	training.					
	Although					
	most areas					
	identified					
	for off-road					
	vehicle					
	maneuvers					
	under any					
	of the					
	alternatives					
	already					
	provide					
	limited					
	habitat for					
	wildlife,					
	some loss					
	of habitat					
	value and					
	value allu					

Appendix E - Fort Bliss Document Review						
	mortality of					
	individual					
	animals is					
	unavoidable					
	Impacts to					
	individual					
	plants and					
	animals,					
	including					
	sensitive					
	species, in numbers					
	not					
	expected to					
	significantly					
	affect					
	populations					
	Loss of					
	some					
	archaeologi					
	cal					
	resources in					
	the training					
	areas. Increase in					
	noise					
	exposure in					
	areas					
	adjacent to					
	the live-fire					
	ranges used					
	for large					
	caliber					
	weapons					
	training.					
	Increased					
	developme					
	nt of the El					
	Paso area					
	to					

Appendix E - Fort Bliss Document Review						
	accommoda					
	te the					
	increase in					
	population,					
	both direct					
	and induced					
	by the					
	economic					
	activity					
	associated					
	with the					
	actions at					
	Fort Bliss.					
	Increased					
	urbanizatio					
	n, reduction					
	in open					
	space, and					
	change in					
	visual					
	character					
	are likely					
	unavoidable					
	consequenc					
	es of this					
	developme					
	nt.					
	Increase in					
	utilities use,					
	including					
	potable					
	water					
	consumptio					
	n,					
	wastewater					
	treatment,					
	solid waste					
	disposal,					
	and energy,					
	in many					
	cases					
	leading to					

Appendix E - Fort Bliss Document Review					
		the need			
		for			
		additional			
		infrastructu			
		re and/or			
		resources			
		sooner than			
		previously			
		planned by			
		the various			
		service			
		providers.			

Fort Bliss	FB N	Implementation of Energy, Water, and		Environmental			No specific
. 0 51100	OI-	Solid Waste Sustainability Initiatives:		impacts			impact or
	NetZe	Actions to be evaluated in the EIS include:		associated with			mitigation
	ro(1F	(1) the aggressive implementation of		the			information
	eb	waste reduction, and energy and water		implementation			in this doc.
	12)_F	conservation policies and practices;		of the proposed			Is there
	B.pdf	(2) the construction of a new pipeline to		action at Fort Bliss			another doc
	D.pai	transport reclaimed water for best uses on		could include			that
		Fort Bliss;		significant			accompanie
		(3) the construction of a Waste- to- Energy		impacts to			s it?
		plant with adjacent landfill in the Southern		airspace,			310:
		Training Area of Fort Bliss, or on land to be		biological			
		exchanged with the Texas General Land		resources and			
		Office;		migratory birds,			
		(4) the development and construction of		soils and			
		dry-cooled concentrating solar thermal		vegetation, noise			
		arrays in Fort Bliss Southern Training Area;		impacts,			
		(5) the development of geothermal		increased traffic			
		resources on Fort Bliss in New Mexico for		impacts, cultural			
		power generation and heating;					
		(6) the development of existing wind		resources, air quality, and			
		energy resources on the eastern central		surface and			
		= -					
		and northern portions of Fort Bliss in New Mexico; and		ground water.			
		(7) the development of up to 20 MW of					
		1 , ,					
		natural gas powered turbines as a					
		complementary source of back-up power					
		to renewable energy facilities to provide					
= . D!:		for Fort Bliss energy security.					
Fort Bliss	Final	CONSTRUCTION AND OPERATION OF	The south side				A potential
	EA_JL	JOINT LAND ATTACK CRUISE MISSILE	on NM 506 on				for off-post
	ENS_	DEFENSE ELEVATED NETTED SENSOR	Fort Bliss's				impact was
	FB.pd	SYSTEM (JLENS) TACTICAL TRAINING SITES	McGregor Range				that any and
	f	(blimps)					all aircraft
							are
							restricted
							from the
							airspace 4.6
							miles in
							diameter
							from the
							surface to

	1	Appei	IUIX L - FUIT DI	iss Document r	VENIEW	T	T	T 1
								15,000 feet
								MSL around
								each
								aerostat, the
								two
								aerostats
								must be
								further
								apart than
								3.1 miles to
								function.
								However,
								the EA
								states that
								this
								restriction
								will only
								occur in
								already
								restricted
								airspace.
Fort Bliss	Final	Traffic and railroad disruptions from	south side on	Transportation	Temporary	NM 506	Renovations to the	
	EA_JL	construction activities	NM 506 on Fort	and Infrastructure	disruptions		railroad crossing	
	ENS_		Bliss's McGregor		to traffic		would be	
	FB.pd		Range		and the		coordinated with	
	f				railroad		railroad.	
					would be		NM 506 renovation	
					expected		would be within	
					during		existing road	
					constructio		alignments. Paving	
					n and road		results in reduction	
					renovation.		of fugitive dust in	
					Increased		area from traffic,	
					traffic load		reduces need for	
					in area		road maintenance,	
					during		and increases road	
					operations		safety. Fort Bliss	
					and		would obtain an	
					training.		easement for the	
							renovation and	
•								
							maintenance of NM 506 from the	

			dix E Tott Bliss Bocument			BLM.	
Fort Bliss	Final EA_JL ENS_ FB.pd f	Radio frequency interference	Radio Frequency and Spectrum Use	There could be a small potential to create frequency interferenc e.	Does not mention specific locations	The radars will meet MIL-STD 461F for allowable electromagnetic emissions. A permit would be required for radar usage from Fort Bliss Network Enterprise Center. Standard operating procedures would be followed for radar usage. Coordination of operations with the Area Frequency Coordinator, FAA, and the FCC would reduce the incidences of interference.	

		лирс.	IGIA E TOTE D					
Fort Bliss	Final_	MODIFICATION OF SPECIAL USE AIRSPACE	South Training	National Airspace	Airspace	private and	Restrictions are	
	EA_Ai	- modifying current Class G airspace to	Areas,	Air Traffic Safety	above	state lands	temporary and	
	rspac	Special Use Airspace (SUA) over the South	McGregor Range		private and	east of the	only during training	
	e_Mo	Training Areas and certain adjacent lands	Training Areas 8		state	South	(12 to 15 hours) on	
	difica	to separate military aircraft and civilian	and 9, and		landswould	Training	weekdays.	
	tion_	aircraft operating in those areas.	private and		have	Areas and		
	28_A	Change airspace over the South Training	state lands east		increased	south of the		
	ug_12	Areas and McGregor Range Training Areas	of the South		restrictions.	Terrain Flying		
	_FB.p	8 and 9 from Class G to Special Use	Training Areas			Area in the		
	df	Airspace (SUA) to restrict flights in the area	and south of the			Hueco		
		to military aircraft only from the surface to	Terrain Flying			Mountains		
		1,200 feet above ground level (AGL),	Area in the					
		including an area of private and state lands	Hueco					
		east of the South Training Areas and south	Mountains.					
		of the Terrain Flying Area in the Hueco						
		Mountains. The new SUA would be						
		adjacent to existing Class C and Class E						
		airspace for El Paso International Airport.						
		The existing Restricted Airspace R-5103A						
		would be extended south to the						
		Texas/New Mexico state line to align with						
		the edge of Fort Bliss property.						
		The proposed SUA would be located						
		within the South Training Areas in						
		Hudspeth County, Texas, and McGregor						
		Range Training Areas 8 and 9 in Otero						
		County, New Mexico, adjoining SUA R-						
		5103A and R-5103B (Figure 1-2). The						
		proposed SUA would also extend south of						
		the Terrain Flying Area in the Hueco						
		Mountains adjacent to SUA R-5103A.						

	, the c	IGIA E TOTED	155 Document				
	The Proposed Action is to: Designate SUA (restricted airspace) in the South Training Areas and Training Areas 8 and 9 in the McGregor Range from the surface to a ceiling of 1,200 feet above ground level (AGL) (approximately 5,200 feet mean sea level [MSL]), including a triangular area over private land extending east of the South Training Areas and south of the Terrain Flying Area; Correct restricted airspace coordinates currently in effect for R-5103A airspace to extend that airspace south to the Texas/New Mexico state line and the edge of Fort Bliss property, as originally intended.		National Airspace Air Traffic Safety	The Proposed Action would primarily modify airspace within the current boundaries of Fort Bliss to restrict civilian aviation traffic in areas not previously restricted.	A small triangle of land lies outside Ft. Bliss - to the east of the South Training Area in El Paso County, TX, at the border with Otero County, NM.	This would not interfere with commercial aircraft operating out of El Paso International Airport, since normal VFR and IFR takeoff climb angles and landing patterns in that direction would place aircraft above the proposed SUA (1,200 feet AGL). Impacts on air transportation would be insignificant, since most civilian and commercial flights	
Fort Bliss Final_EA_R anges K&L_28Au g12_F B.pdf	MULTIPURPOSE MACHINE GUN RANGE ANDA GRENADE LAUNCHER RANGE close to the Cantonment Area.	South Training Area 1B, adjacent to the Rod and Gun Club, northeast of Purple Heart Memorial Hwy (Loop 375) and the Cantonment Area.	Noise	The El Paso neighborho ods adjacent to Fort Bliss and proposed Range K could notice minimal	The increased area of Zone II would be approximatel y 707 acres and encompasses an additional 645 residences,	by the new SUA. No other human or natural resources would be impacted by the Proposed Action. Not req'd - The Zone II noise model contours appear overly conservative in that actual noise levels recorded during the test were predominantly lower (in the range	This tiers off of:Fort Bliss, Texas and New Mexico Mission and Master Plan Final Supplement al Programmat

noise from training gunfire school, and depending upon the time of day and made weather conditions. Peak Zone II noise contours (87 and 104 dB PK15 [metl) from proposed Range K would extend beyond the western boundary of the lexisting 2 one transition approaching g 1 mile. It also extends beyond the existing 2 one to the contour for the Rod and discovered the residual contour for the Rod and discovered the residual contour for the Rod and discovered the residual contour for the Rod and discovered the residual contour for the Rod and discovered the residual contour for the Rod and discovered the residual contour for the Rod and discovered the residual contour for the Rod and discovered the residual contour for the Rod and discovered the residual contour for the public from noise is, therefore, public from public from noise is, therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, provided to be low. Therefore, providing the public from noise is, therefore, providing the public from noise is, therefore, providing the providing the providing the providing the providing the providing the public from noise is, therefore, providing the public from noise is, therefore, providing the public form noise is, therefore, providing the public form noise is, therefore, providing the providing the public form noise is, therefore, providing the providing the public fall to be low. Therefore, providing the public fall to be low. The public feature public fall to be low. The public feature provided to be low. The public feature provided to be low. The public feature providing the providing the providing the providing the providing the providing the providin	ı	, , the c.	1017 2 1011 511	33 Document N		1	T .	
gunfire depending upon the time of day and weather conditions. Peak Zone II noise contours (87 and 104 d8 PK15 [met]) from proposed Range Kovould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for contour fo							-	
depending upon the time of day and weather conditions.P eak Zone II noise contours (87 and 104 dB PK1.5 [met]) from proposed Range K would extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour or II noise c					_	•		
upon the time of day and weather conditions. P eak Zone II noise contours (87 and 104 dB PK15 [met]) from proposed Range Kwould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour or size					gunfire		public from noise	
time of day and be no risk to public weather conditions.P eak Zone II structures. Analysis of the test data indicates that the average noise contours (BR and 104 dB PK15 [met]) from caliber weapons on Proposed Range K did not extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					depending	Shearman	is, therefore,	Growth and
and weather conditions.P eak Zone II noise contours indicates that the average noise levels from .50-callber weapons on proposed Range K did not Range K would allowable exterior extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					upon the	Park.	predicted to be	Force
weather conditions.P eak Zone II noise contours (87 and 104 dB PK15 levels from .50-caliber weapons on proposed Range Range exceed the city's Kwould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					time of day		low. There would	Structure
conditions.P eak Zone II noise contours (87 and 104 dB PK15 [met]) from proposed Range Kwould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					and		be no risk to public	Realignment
eak Zone II noise contours (87 and 104 dB PK15 [met]) from proposed Range Kwould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					weather		health or damage	Final EIS
noise contours (87 and 104 dB PK15 levels from .50- [met]) from proposed Range exceed the city's Kwould extend beyond the western boundary of the linstallation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					conditions.P		to	
noise contours (87 and 104 dB PK15 levels from .50- [met]) from proposed Range exceed the city's Kwould extend beyond the western boundary of the linstallation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					eak Zone II		structures.Analysis	
(87 and 104 dB PK15 [met]) from proposed Range K did not Range Exceed the city's allowable exterior extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					noise		of the test data	
dB PK15 [met]) from proposed Range Range Kwould allowable exterior extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					contours		indicates that the	
dB PK15 [met]) from proposed Range Range Kwould allowable exterior extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					(87 and 104		average noise	
proposed Range Kwould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for								
proposed Range Kwould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					[met]) from		caliber weapons on	
Range Kwould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for								
Kwould extend beyond the western boundary of the Installation approachin g 1 mile. It also extends beyond the existing Zone II noise contour for					•		_	
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Gun Club.								

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Fort Bliss	FNSI-	Use of Obscurant Munitions (smokes and	Within existing	Air Quality	Initiation of	Areas	Existing impact	
	Obsc	obscurants) during training exercises.	unexploded	Biological	wild land	adjacent to	areas with	
	urant		ordinance	Resources	fires by	Ft. Bliss near	minimum	
	Munit		impact areas of	Vegetation	obscurant	the Dona Ana	vegetation cover	
	ionsTr		the Dona Ana	Wildlife	munitions	Range, the	would be	
	aining		Range, the	Cultural	that could	Digital	designated for OM	
	_FB.p		Digital	Resources	then affect	Air/Ground	use and lessen the	
	df		Air/Ground	Human Health	cultural and	Integration	chance of wild land	
			Integration	and Safety	natural	Range and	fires.	
			Range (DAGIR,		resources.	the Digital	Requirements	
			Range 88) and			Multi Purpose	would include no	
			after firebreaks			Range	firing of obscurants	
			are constructed			Complex	under high danger	
			on the east side,				fire conditions	
			within the				(New Mexico State	
			Digital Multi				Forestry fire ratings	
			Purpose Range				FIRECON 3 (High	
			Complex				Danger) or	
			(DMPRC, Range				FIRECON 4 (Very	
			83).				High Danger)), road	
							closures if	
							required, safety	
							equipment issue	
							and use, and	
							construction/maint	
							enance of	
							necessary fire	
							fighting	
							lanes/breaks. The	
							wild lands fire	
							management plan,	
							under coordination	
							with the Bureau of	
							Land Management,	
							would be amended	
							to address the	
							increased risk of	
							fire due to OM use.	

Fort Bliss	FNSI-	Human health risk from exposure to		Human Health	Human	War Highway	Impact areas are	
. 3. 6 233	Obsc	obscurant compounds		and Safety	health risks		also remote and	
	urant				could occur		thus exposure to	
	Munit				if obscurant		Soldiers and the	
	ionsTr				compounds		public would be	
	aining				exceed		minimized.	
	_FB.p				short-term		Standard Army	
	df				exposure		obscurant safety	
					guidelines		and health	
					to persons		restrictions and/or	
					(troops or		requirements used	
					commuters		at other	
					on War		installations would	
					Highway)		be enacted and	
					outside of		officially	
					the impact		incorporated into	
					areas.		the Fort Bliss	
							Regulation 350-1,	
							Training Safety.	
Fort Bliss	FORT	Proposed Leasing of Lands at Fort Bliss,	Desal plant is					
	BLISS	Texas	just east of					
	DESA	for the Proposed Siting, Construction, and	south end of					
	L	Operation	existing feed					
	FEIS.p	by the City of El Paso of a Brackish Water	well area on					
	df	Desalination Plant and Support Facilities	east end of					
			airport. Deep					
			well injection					
			site is at NE					
			corner of South					
			Training Area.					
Fort Bliss	FORT	Waste injection well	NE corner of	Geology and Soils	Slightly	NE corner of	None, but it states	
	BLISS		South Training		increased	South	that any damage	
	DESA		Area		risk of	Training Area	would be localized	
	L				localized	- nearest	at the injection	
	FEIS.p				low-	residential	site, removed from	
	df				intensity	area is 3.8	population centers.	
					earthquake	miles to SE.	This was identified	
					at deep-		as a probable	
					well		adverse	
					injection		environmental	
					site which is		effect that cannot	
					adjacent to		be avoided.	

	1		TIGIA E TOTE B	1	1	T	T	
					private land.			
Fort Bliss	FORT BLISS DESA L FEIS.p df	Draw down of Hueco Bolson acquifer	Hueco Bolson aquifer	Geology and Soils	Subsidence of the El Paso area of approximat ely 0.5 feet over 50 years as water is drawn down from the Hueco Bolson aquifer.	El Paso area near the feed wells, and to a lesser extent the blend wells	None - this was identified as a probable adverse environmental effect that cannot be avoided.	
Fort Bliss	FORT BLISS DESA L FEIS.p df	Interference of geothermal resources	NE corner of South Training Area	Geology and Soils	Possible interferenc e with future developme nt of geothermal reources	NE corner of South Training Area	None - this was identified as an irreversible and irretrievable commitment of resources.	
Fort Bliss	FORT BLISS DESA L FEIS.p df	Wind erosion/dust increase	Proposed desalination facility site	Geology and Soils Air Quality	Increased risk of wind erosion/dus t from constructio n sites near El Paso residential area, especially during March and April.	Desal site at SE corner of El Paso International Airport	Use dust suppression measures such as watering and application of soil stabilizers during ground disturbance.	
Fort Bliss	FORT BLISS DESA L	Aquifer drawdown	Hueco Bolson aquifer	Water Resources	Changed pattern of aquifer drawdown	Other areas that use the aquifer for water (El	None, but it states that the north-to- south groundwater flow indicates that	

			THE TOTAL	Tocament	1	1	T	
	FEIS.p					Paso, Ciudad	wells more than a	
	df					Juarez,	few miles east or	
						Mexico)	west of the blend	
							and feed wells are	
							unlikely to affect or	
							be affected by the	
							proposed action.	
Fort Bliss	FORT	Contamination of underground water	Hueco Bolson	Water Resources	Small risk of	Other areas	Installation of	
	BLISS	sources	aquifer		contaminati	that use the	pressure monitors	
	DESA				ng surficial	aquifer for	in the concentrate	
	L				aquifer and	water (El	pipelines to allow	
	FEIS.p				undergroun	Paso, Ciudad	early detection of	
	df				d sources of	Juarez,	leaks or	
					drinking	Mexico)	catastrophic failure	
					water from	,	so that corrective	
					disposal of		action can be	
					concentrate		taken.	
							Develop an	
							emergency action	
							plan to minimize	
							the release of	
							concentrate during	
							an accident or	
							equipment failure.	
							Evaluate the	
							presence or	
							absence of a	
							connection	
							between the	
							injection zone and	
							other aquifers	
							during deep-well	
							injectivity tests.	
Fort Bliss	FORT	Increase in power consumption	Proposed	Utilities and	Slight	Service area	None, but the	
. 0. 0 51133	BLISS	mercase in power consumption	desalination	Services	increase in	for El Paso	increased demand	
	DESA		facilities	Jei vices	power	Electric	can be met with	
	L		idenities		consumptio	Company	existing	
	FEIS.p				n within El	Company	infrastructure. This	
	df				Paso		was identified as a	
	ui				Electric		probable adverse	
					Company's		environmental	
					service area		effect that cannot	

		Т		liss Document			be avoided.	
Fort Bliss	FORT BLISS DESA L FEIS.p df	Risk of release of hazardous materials during transport	Proposed desalination facilities	Hazardous Materials, Hazardous Waste, and Safety	Small increased risk of release of hazardous materials during transportati on and use. Slightly increased risk of release of hazardous waste at plant site.	Areas adjacent to new facilities	Given the hazardous materials and waste management and safety procedures required by regulation, no additional mitigation measures would be needed.	
Fort Bliss	FORT BLISS DESA L FEIS.p df	Increase in emissions during construction	Proposed desalination facilities	Air Quality	Small increase in area-wide emissions during 18-month construction period (e.g., exhaust from heavy equipment)	Areas adjacent to new facilities	None - this was identified as a probable adverse environmental effect that cannot be avoided.	
Fort Bliss	FORT BLISS DESA L FEIS.p df	Risk of soil and groundwater contamination from concentrate disposal	NE corner of South Training Area	Biological Resources	Risk of soil and groundwate r contaminati on from concentrate disposal with subsequent	Area adjacent to concentrate disposal site	None	

	1	Appendix E Tore B	1	1	1	1	
				impacts on			
				vegetation			
				and wildlife			
Fort Bliss FO	ORT Decrease in aesthetics	Proposed	Land Use and	Plant visible	ROI - 2 miles	None - this was	
BL	BLISS	desalination	Aesthetics	from Loop	around all	identified as a	
DE	DESA	facilities		375. Future	areas of desal	probable adverse	
L.				connection	facilities	environmental	
FE	EIS.p			from Loop		effect that cannot	
df	lf			375 to EPIA		be avoided.	
				would need			
				to be			
				located			
				around			
				plant site.			
				Future EPIA			
				developme			
				nt currently			
				planned for			
				site would			
				need to be			
				located			
				elsewhere.			
Fort Bliss FO	ORT Impact on traffic flow	Montana Ave.	Transportation	Slight	Montana Ave.	Design the entry	
BL	BLISS			adverse		and exit road from	
DE	DESA			impact on		the desal plant to	
L				traffic flow		Montana Ave to	
FE	EIS.p			from access		minimize impact to	
df				road off		traffic flow.	
				Montana			
				Avenue to			
				plant site.			

				iss Document r	VENIEM	•		
Fort Bliss	FORT	Army Growth and Force Structure	NE section of	Traffic	Delays in	Hwy 506 and	Units crossing Hwy	
	BLISS	Realignment	post. McGregor		traffic due	post entrance	506 with heavy	
	DESA		Range and		to	gates	equipment will	
	L		Sacramento		constructio		provide traffic	
	FEIS.p		Range		n		control and space	
	df				equipment		vehicle crossings	
							limiting civilian	
							traffic delays to 15	
							minutes or less in	
							most cases.	
							Ft. Bliss will notify	
							the Las Cruces	
							District of the BLM	
							and Otero County	
							Administrator of	
							planned closures of	
							Hwy 506 on	
							McGregor Range.	
							These measures	
							are expected to	
							redcue adverse	
							impacts to Hwy	
							506 to non-	
							significant levels.	
							Ft. Bliss access	
							gates will be sized	
							to mitigate back-	
							ups and increase	
							the level of safety	
							on highway ingress	
							and egress points	
							to the installation.	
							Ft. Bliss will	
							continue to	
							provide the media	
							with information	
							regarding	
							anticipated high	
							traffic events and	
							other actions that	
							could adversely	
							affect traffic when	

	1		1		1			
							consistent with	
							security concerns.	
Fort Bliss	FORT	Increased water and wastewater demand	Ft. Bliss	Water Supply and	More	El Paso Water	Ft. Bliss will	
	BLISS			Sanitary	personnel	Utility	collaborate with	
	DESA			Wastewater	will require	Cimey	EPWU to create a	
	L			vvastevvater	more water		brackish water	
	FEIS.p				and		desalination plant	
	df				wastewater		and on Ft. Bliss	
					treatment		land.	
					which will		Ft. Bliss will work	
					be supplied		with EPWU to	
					by the El		increase use of	
					Paso Water		reclaimed water	
					Utility.		for landscaping on	
					,		the installation.	
Fort Bliss	FORT	Increased waste generation	Ft. Bliss	Hazardous	More waste	Off-post	Additional solid	
10100133	BLISS	mercusca waste generation	1 (. 51133	Materials and	will be	landfills	waste generated	
	DESA			Waste		iailulliis		
	DESA			vvasie	generated		on post will be sent	
	L				by more		to the existing Ft.	
	FEIS.p				personnel		Bliss landfil or	
	df				and by		transported to	
					constructio		licensed, off-post	
					n.		disposal facilities.	
Fort Bliss	FORT	Increased housing demand	Ft. Bliss	Socioeconomics	More	City of El Paso	Ft. Bliss will	
	BLISS			and	personnel	and	continue quarterly	
	DESA			Environmental	will require	surrounding	meetings with	
	L			Justice	more	residential	realtors and	
	FEIS.p				housing.	areas	apartment	
	1 LI3.P				nousing.	urcas	apartinent	

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					military	Bliss.		consideratio
					maneuver			n.
					in close			
					proximity to			
					residential			
					areas.			
Fort Bliss	Enclo	Heavy vehicles and troop convoys transit	State of Texas	Dust, traffic, Land	Land on	State of Texas	N/A	
	sures	over state-owned land between East Bliss	land (previously	Use	three sides	land		
	_ACU	contonment areas and the South Training	owned by DoD)		of this	(previously		
	B	Areas.	on south		parcel is	owned by		
	propo		boundary of the		within Fort	DoD) on		
	sals		South Training		Bliss, and	south		
	56.15		Areas		the land is	boundary of		
			555		used as a	the South		
					pass-	Training		
					through	Areas		
					area for	Arcas		
					military			
					units. If			
					developed			
					by the State			
					(commercia			
					residential,			
					industrial),			
					FB could			
					not use this			
					area and it			
					would			
					impact			
					mission			
					efficiency.			
					Non-			
					military			
					developme			
					nt could			
					pose			
					potential			
					safety and			
					security			
					risks			
					between FB			

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					training			
					areas and			
					non-military			
					uses. State			
					not using			
					the land			
					and wants			
					to sell to			
					developers			
					in order to			
					raise funds			
					for Texas			
					schools.			
Fort Bliss	Enclo	Weapons firing at Meyer Range,	Meyer Range,	Dust, traffic, Land	Area is	Area outside	N/A	
TOTE BIISS	sures	maneuvers in Tularosa Basin (on McGregor	training areas in	Use	impacted by	Fort Bliss	1477	
	_ACU	Range and South Training areas), close to	southern	330	incompatibl	south of		
	B	new water injection wells constructed on	McGregor Range		e noise and	McGregor		
	propo	Fort Bliss by El Paso Public Utilities Board.	and east part of		dust.	Range and		
	sals	Tore bills by Err asor abile offices board.	the South		Currently	east of the		
	3013		Training Areas		used for	South		
			Training Areas		ranching	Training		
					but if	Areas, Hueco		
					developed	Tanks area		
					could pose	Taliks area		
					compatibilit			
					y concern.			
					The current			
					owner(s)			
					may be			
					willing to			
					sell.			
					Purchase of			
					developme			
					nt rights is			
					possible			
					option.			

Holloman Fort Bliss WSMR Spaceport		EG: ground disturbance from construction; aircraft operations; munitions expenditures; missile firing; off-road vehicle operations	E.g., North McGregor Range, MTRs (list if relevant); R- 5107; new DAGIR; Holloman airfield;	This will reflect to the EA/EIS topic	What is the problem outside the installation boundary: frequent evacuation, unsafe for public; noise affects residences; vibrations affect residences; interferes with using TVs, GPS;	List affected locations(s)place(s) mentioned in the document	Measures mentioned as preventative actions; or stated as mitigations. This topic could get mired in the realm of unspecified BMPs, so in that case say something like Follow DoD/Army Safety regulations, or Erosion control BMPs	Use this to record any internal notes to our team. Or, document if this is a bigger issue such as cumulative or if there is an underlying concern, or questions about how to define locations
Installation	File Name	Action/activity of concern	Location of activity	Resource category	Issue	Location of concern	Published minimization measures	Notes/comments
Holloman	2011- 07-29 - F-16 EA Deliver ed - REDUC ED FILE SIZEpdf .pdf	Chaff and Flare Use	Training Airspace Units	Biologica I Resource s	Fire Hazard	Training Airspace Units	Minimize use during periods of high fire hazard	
Holloman	2011- 07-29 - F-16 EA Deliver ed - REDUC ED FILE SIZEpdf	Vegetation loss across 12 acres of land = possible habitat loss	Holloman AFB	Biologica I Resource s	Effect to state listed species	Holloman AFB	Biological survey indicates no listed species occur in affected area	

	.pdf							
Holloman	2011- 07-29 - F-16 EA Deliver ed - REDUC ED FILE SIZEpdf	Subsonic Booms, aircraft noise, munitions noise	Training Airspace Units, Centennial Range, McGregor Range	Biologica I Resource s	Wildlife Annoyance	Training Airspace Units, Centennial Range, McGregor Range	Reductions in the time-averaged noise levels near Holloman AFB would occur; therefore, no adverse impacts on native vegetation, wildlife, or quality of wildlife habitat are expected	
Holloman	Draft EA_Tra nsform ing the 49th FW Hollom an_Jun e 2006.p df	Chaff and Flare use	Holloman AFB, Training Airspace	Biologica I Resource s	Impacts to wildlife or domestic animals	Holloman AFB, Training Airspace	None, since mylar wrappings from chaff and flare use are expected to degrade from exposure to sunlight and inert plastic pieces are not expected to affect biological resources, including native or domestic animals	

Hallaman	Droft	Conic Noice //ibrations	Holloman	Diologica	Imposts to	Holloman AFP	Wildlife under the	
Holloman	Draft	Sonic Noise/Vibrations	Holloman	Biologica	Impacts to	Holloman AFB,		
	EA_Tra		AFB, Training	l D	wildlife or	Training Airspace	airspaces have	
	nsform		Airspace	Resource	domestic		previously	
	ing the			S	animals		experienced	
	49th						thunder and	
	FW						thunder-like sonic	
	Hollom						booms at different	
	an_Jun						levels and are	
	е						expected to	
	2006.p						become	
	df						habituated to	
							additional thunder-	
							like sounds. Even	
							after habituation, a	
							sonic boom, as	
							with thunder,	
							could startle high	
							strung or other	
							animals in a pen or	
							other restricted	
							area	
Holloman	Draft	Subsonic Booms,	Training	Biologica	Game-species	Training Airspace	Game species, such	
Попопіан		aircraft noise,	_	i	-	• ,	as elk, mule deer,	
	EA_Tra	· ·	Airspace	December	Annoyance	Units, Centennial		
	nsform	munitions noise	Units, Dona	Resource	resulting in	Range, McGregor	and domestic	
	ing the		Ana Range,	S	affects to	Range	species, that	
	49th		McGregor		Mescalero		contribute to the	
	FW		Range		economy		Mescalero	
	Hollom						economy expected	
	an_Jun						to habituate.	
	е							
	2006.p							
	df							

Holloman	Draft EA_Tra nsform ing the 49th FW Hollom an_Jun e 2006.p	Noise/Activities in training airspace	Training Airspace	Biologica I Resource s	negative effects to critical habitat/specia I-status species	critical habitat in training airspace		
Holloman	df Draft EA_Tra nsform ing the 49th FW Hollom an_Jun e 2006.p df	Sonic Noise/Vibrations	vicinity of Holloman AFB, Training Airspace	Biologica I Resource s	nest abandonment due to noise	nests of critical species in training airspace	none, since response of birds to sonic noise is similar to that of thunder, and no nest abandonment occurs	
Holloman	Draft EA_Tra nsform ing the 49th FW Hollom an_Jun e 2006.p df	Sonic Noise/Vibrations	vicinity of Holloman AFB, Training Airspace	Biologica I Resource s	cracking of chicken eggs/decrease in hatchability due to noise	commercial chicken operations in training airspace	none, since no effects were found to occur in study	Bowles and Seddon (1994), Stadelman (1958)

EA ns in 4s FY H aa e 2d dr	2006.p If	Sonic Noise/Vibrations	vicinity of Holloman AFB, Training Airspace	Biologica I Resource s	startle response in privately owned animals	vicinity of Holloman AFB, Training Airspace	The Air Force has established procedures for damage claims that begin by contacting the Holloman Public Affairs Office	
Ez n: in 4! F' H aı e	2006.p	Chaff and Flare use	Holloman AFB, Training Airspace	Biologica I Resource s	Specific issues for biological resources are the potential for and consequences of (1) ingestion of chaff fibers or chaff or flare plastic, nylon, or mylar materials; (2) inhalation of chaff fibers; (3) physical external effects from chaff fibers, such as skin irritation; (4) effects on water quality and forage quality; (5) increased fire	Holloman AFB, Training Airspace	none, since no reports or studies to date have documented negative impacts of training chaff or flares to biological resources from any of these potential sources of impacts	

					risk; and (6) probability of being struck by large flare debris			
Holloman	HAFB Genera I_Plan pt1.pdf	General Use	Holloman AFB	Biologica I Resource s	Negative effects to transient, migratory threatened, endangered, and sensitive species	Holloman AFB	constrain actions when species present	

Holloman	HAFB Genera I_Plan pt1.pdf	General Use	Holloman AFB	Biologica I Resource s	Demolition of buildings could negatively affect resident bat populations	Holloman AFB	Buildings should be surveyed for bats prior to demolition. Demolition should be scheduled for the winter months to ensure that bats will not be in the area when demolition activities take place.	
Holloman	Final EA_Pre dator_s igned FONSI_ 04-30- 09.pdf	Mexican Spotted Owl Critical Habitat	R-5103B/C is located above the Sacramento Mountains and a small portion of the Lincoln National Forest	Biologica I Resource s	Nest abandonment	MSO critical habitat in Sacramento Mtns, Lincoln NF	Studies have shown low nest abandonment due to noise/other disturbances	

Holloman	Final	Todsen's Pennyroyal	There is	Biologica	Habitat loss	Todsen's	no ground	
	EA_Pre	Critical Habitat	critical	1	due to ground	Pennyroyal	disturbing	
	dator_s		habitat for	Resource	disturbance	Critical Habitat,	activities, such as	
	igned		Todsen's	S		Rhodes Canyon	ordnance delivery,	
	FONSI_		pennyroyal				to affect habitat	
	04-30-		approximatel					
	09.pdf		y 34 miles					
			northwest of					
			Holloman					
			AFB on					
			WSMR					
			within					
			Rhodes					
			Canyon					

	EG: ground disturbance from construction; aircraft operations; munitions expenditures; missile firing; off-road vehicle operations	E.g., North McGregor Range, MTRs (list if relevant); R-5107; new DAGIR; Holloman airfield;	This will reflect to the EA/EIS topic	What is the problem outside the installation boundary: frequent evacuation, unsafe for public; noise affects residences; vibrations affect residences; interferes with using TVs, GPS;	List affected locations(s)place (s) mentioned in the document	Measures mentioned as preventative actions; or stated as mitigations. This topic could get mired in the realm of unspecified BMPs, so in that case say something like Follow DoD/Army Safety regulations, or Erosion control BMPs	Use this to record any internal notes to our team. Or, document if this is a bigger issue such as cumulative or if there is an underlying concern, or questions about how to define locations
File Name	Action/activity	Location of activity	Resource	Issue	Location of	Published minimization	Notes/comme
NA COLAD	of concern		category		concern	measures	nts
WSMR- NASA MOA Fire.pdf	none						
WSMR Navy Standard Missile EA 2006.pdf	missile testing and resulting ground disturbance	impact/launch/interc ept sites	T&E Species	habitat loss of T&E Species due to ground disturbance	Todsen's Pennyroyal, Northern Aplomado Falcon, White Sands pupfish, WSMR Wildlife of Concern		
WSMR Navy Standard Missile EA 2006.pdf	missile testing and resulting ground disturbance	impact/launch/interc ept sites		loss of unique and critical habitat	Wetlands and Malpais Areas		

WSMR Navy Standard Missile EA 2006.pdf	Exceedance of NAAQs Air Quality	launch complexes, Cholla site, WSMR	Air Quality	public, sensitive populations such as asthmatics children, and the elderly; public and environmental welfare	EJ populations in the surrounding area	
WSMR Navy Standard Missile EA 2006.pdf	mission activities resulting in noise	WSMR	Noise	Exceedance of OSHA standards resulting in hearing loss	WSMR	Army regulations require that hearing protection be used when noise levels are greater than 85 dB. Safety zones and hazardous noise areas (≥ 85 dBA) will be established using noise level meters, and warning signs will be posted to reduce the risk of human hearing loss.
WSMR Navy Standard Missile EA 2006.pdf	traffic resulting in noise	WSMR, Main Post	Noise	Exceedance of OSHA standards resulting in hearing loss	WSMR, Main Post	none, since noise levels in undisturbed areas away from Main Post have been measured at 45 dB, which is comparable to that experienced in a library setting
WSMR Navy Standard Missile EA 2006.pdf	military testing resulting in sonic booms	WSMR, airspace designated for supersonic flight	Noise	Exceedance of OSHA standards resulting in hearing loss	WSMR, supersonic airspace, WSNM	
WSMR Navy Standard Missile EA 2006.pdf	radiation due to military testing	WSMR	Health and Safety	damage to cellular structures or contamination due to ionizing radiation	WSMR	thorium alloy ring is removed from range during recovery operations; thorium level in soil samples taken from known debris fields is indistinguishable from

						background radiation
WSMR Navy Standard Missile EA 2006.pdf	radiation due to military testing	WSMR	Health and Safety	damage to cellular structures due to non-ionizing radiation	WSMR range	none, since non-ionizing radiation is not damaging
WSMR Navy Standard Missile EA 2006.pdf	hazardous activities in airspace shared by commercial and private operations	Restricted Airspace	Airspace	interference with or damage to non-WSMR aircraft due to hazardous activity use including live ordnance delivery, missile firings, and laser shots	Restricted Airspace	Civil or military aircraft must have proper authorization and scheduling by WSMR Range Control before entering active restricted airspace.
WSMR Navy Standard Missile EA 2006.pdf	mission activities resulting in surface disturbance	WSMR, range	Cultural	damage to cultural resources	WSMR, range	due to the vast amount of open land within the footprint, the intensity of the testing programs and physical size of the debris, the probability of cultural site being damaged is considered remote; During recovery efforts, care will be taken to minimize travel over undisturbed areas and any sites impacted by large debris will be reported to Environmental Stewardship
WSMR Navy Standard Missile EA 2006.pdf	mission activities resulting in loss of jobs	WSMR	Socioeconomi cs	effects to regional economy	Doña Ana Co, Lincoln Co, Sierra Co, Otero Co, Socorro Co, Las Cruces,	none, STANDARD Missile testing activities will keep existing jobs within the surrounding communities as well as the revenues that are

					Alamogordo	associated with Navy activities
WSMR Navy Standard Missile EA 2006.pdf	testing resulting in roadblocks	WSMR & surrounding roads	Infrastructure	impacts to traffic due to road blocks	US Highway 70, US Highway 380	An agreement with the State of NM allows WSMR to establish off-range roadblocks on U.S. Highways 70 and 380 as a safety precaution during missile tests. Under the agreement, roadblocks may last no longer than 1 hr and 15 minutes.
WSMR Navy Standard Missile EA 2006.pdf	soil disturbance	Cholla Site, Aerial Intercepts	Geology	soil disturbance	Cholla Site, Aerial Intercepts footprint	Vegetation at Cholla Site will be mowed before testing to minimize disturbance; To reduce soil disturbance at aerial intercept footprints, locating larger pieces of debris will occur with the use of a helicopter. Additional clean up will occur either by foot or through the use of low impact ATVs.
WSMR Navy Standard Missile EA 2006.pdf	contanimation of surface water due to testing debris	Cholla Site, Aerial Intercepts	Water resources	habitat loss of T&E Species due to debris contamination	Surface Waters that serve as Critical Areas	Restricting missions from intercepting over critical areas (primarily pupfish habitat) will help minimize the potential of impact to surface water

WSMR Navy Standard Missile EA 2006.pdf	ground water contamination due to liquid fuel	WSMR	Water resources	ground water contamination due to liquid fuel	Ground water resources	Most fuel will be consumed during testing; Any remaining fuel will be expected to evaporate before hitting the ground. If there is a small quantity of fuel left within the tank of the target vehicle upon impact, this will be discovered during recovery and appropriate remediation measures will be taken.
WSMR Navy Standard Missile EA 2006.pdf WSMR	missile testing	LC-35, LC-35N, Cholla	T&E Species	loss of Todsen's	LC-35, LC-35N,	No TES plant species were
Navy Standard Missile EA 2006.pdf	THISSILE CESTING	Site, intercept area	Tal Species	Pennyroyal or other plant T&E Species due to ground disturbance	Cholla Site, intercept area	found or are expected to occur at LC-35, LC-35N or Cholla Site. No flora species of interest (SOI) were found during floral surveys at any of these locations. A total of thirty-eight SOI floral species occur or may occur within the proposed intercept area. However, due to the limited number of tests and the wide range for dispersal of debris, no significant impact is expected.

WSMR	missile testing	LC-35, LC-35N, Cholla	T&E Species	loss of burrowing	LC-35, LC-35N,	Monitoring for animals, eg:
Navy	and resulting	Site, intercept area	Tal Species	owl, baird's	Cholla Site,	During the breeding season,
Standard	ground	Site, intercept area		sparrow, or other	intercept area	January through October,
Missile EA	disturbance			avian T&E species	intercept area	project personnel will
2006.pdf	disturbance			due to ground		observe areas prior to
2000.pui				disturbance		ground disturbing activities
				disturbance		for the presence of
						·
						burrowing owls, specifically
						looking in areas that show
						evidence of rodent burrows.
						If a burrowing owl is
						detected, Environmental
						Stewardship will be notified
						and mitigation
						will be developed to ensure
						there is no significant
						impact.
WSMR	missile testing	intercept area	T&E Species	loss of white	Mound Springs,	aerial target interceptions
Navy	and resulting			sands pupfish due	Malpais Springs,	will be planned to avoid
Standard	ground			to ground	Salt Creek, and	White Sands pupfish
Missile EA	disturbance			disturbance	Malone	habitats.
2006.pdf					Draw/Lost River	
WSMR	missile testing	intercept area	T&E Species	loss of WOC	WSMR	The Texas horned lizard
Navy	and resulting			reptiles due to		(Phrynosoma cornutum) is
Standard	ground			ground		classified as a WOC and is
Missile EA	disturbance			disturbance		the only state protected
2006.pdf						species found on WSMR. No
						STANDARD Missile missions
						are expected to impact any
						Federal or State listed reptile
						species

WSMR Navy Standard Missile EA 2006.pdf	missile testing resulting in damage to unique and critical habitats, caused by recovery activities or falling debris	WSMR	T&E Species	damage to unique and critical habitats	playas, alkali flats, Fifteenmile Lake, Lumley Lake, Big Salt Lake, Brazel Lake, malpais, National Wildlife Refuge, Areas of black grama/longleaf mormon tea	No ground recovery of debris will be conducted on the four main playas afforded protection by Environmental Stewardship: Fifteenmile Lake, Lumley Lake, Big Salt Lake, and Brazel Lake. Aerial access by helicopter will reduce anticipated impacts resulting from debris recovery in these areas; implement comprehensive reseeding and erosion control strategies to rehabilitate disturbed areas when requested by Environmental Stewardship; no test activities near NWR; aerial recovery (via helicoptor) where necessary
WSMR Navy Standard Missile EA 2006.pdf	mission activities resulting in noise	WSMR	Noise	negative effects of noise on wildlife	WSMR	due to the infrequent nature of the testing activities and the short duration of tests, no long-term effects to wildlife are expected to result from noise sources
WSMR Navy Standard Missile EA 2006.pdf	impacts to fauna due to radar beams	WSMR	Radiation	Radar beams could potentially impact fauna, particularly birds	WSMR	fauna were unlikely to be critically exposed to the beam because of its small cross-sectional area, active motion while tracking, and upwardly directed angle away from the ground; Radars will be positioned so no potential raptor perches are

						included within the hazard area
WSMR Navy Standard Missile EA 2006.pdf	impacts to recreation due to mission activities	WSMR	Land Use	Public access throughout the installation is limited to highly regulated hunting, infrequent running races or bicycle excursion tours and semiannual tours to Trinity NHL	Trinity Site, hunting areas, bike routes	Recreational activities scheduled to avoid testing operations
WSMR Navy Standard Missile EA 2006.pdf	inadvertent missile impacts	WSMR	Hazardous Materials	Inadvertent missile or target impacts outside WSMR boundaries, including WSNM and San Andres NWR	Area outside WSMR	addressed under provisions of RCRA and WSMR Environmental Compliance Handbook which also contains WSMR Regulations 200-1
WSMR Navy Standard Missile EA 2006.pdf	impacts to EJ populations due to testing activities	WSMR	EJ	impacts to EJ populations due to testing activities	Minority and low income populations outside WSMR	minority and low income populations are believed to exist within the proposed action's surrounding communities. However, the proposed testing locations of LC-35, LC-35N, and Cholla Site are remote and not considered to be near population centers or schools within the surrounding communities.

WSMR Strategic Plan.pdf	mission activities that impact the support and services of surrounding activities	WSMR		impacts on surrounding communities and their services	call-up areas, surrounding communities	outreach program to invite community leaders to visit White Sands in an effort to be more transparent; identify which services are of lesser priority in order to protect services that we rely upon such as child care, food service, and recreation	
WSMR Strategic Plan.pdf	future mission activities that expand beyond WSMR boundary	WSMR		national security mission is outgrowing WSMR land mass and require expanded distances along the air, ground, and electromagnetic domains	state and other federal entities in vicinity, including airspace	work with federal and state partners	
WSMR 2nd Eng Battalion EA.pdf	increase in stormwater runoff due to impervious surface	WSMR	Water resources	increased storm water flow and concentration leading to decrease in water quality	downstream from WSMR cantonment	neglible effects to watershed	
WSMR 2nd Eng Battalion EA.pdf	decrease in air quality due to mission activities	WSMR	Air Quality	dust emissions due to training along tank trail and construction	Air Quality Control Region (AQCR) 6 that includes Dona Ana, Otero, Sierra, and Lincoln counties. These counties, as well as six in Texas, are also part of the EPA	Dust suppressants will be used during construction	

					El Paso-Las Cruces- Alamogordo Interstate AQCR 153 per 40 CFR 81.82; tank trail to Fort Bliss	
WSMR 2nd Eng Battalion EA.pdf	disturbance to T&E species due to construction and training	WSMR	T&E Species	Todsen's Pennyroyal, Pupfish and peregrine falcon will lose habitat as a a result of construction/train ing activities	Pupfish and peregrine falcon habitat	There would be no effect on the habitat of the White Sands Pupfish. No peregrine falcon has been sited in the proposed action areas. Peregrine falcons have been known to hunt on scrublands this minor loss of acreage would have no effect. No Todsen's pennyroyal is present in this area and would not be disturbed.
WSMR 2nd Eng Battalion EA.pdf	increase in personnel causes increase in number of students at local schools	WSMR	Socio	ability of local schools to handle increased number of students	local schools	The post schools (kindergarten through junior high) and daycare are not at capacity and could accommodate this increase. WSMR will have to work with local officials and school board to address the additional students in high schools that are at or near capacity

WSMR MDA Flexible Target EA 2007.pdf	Missile debris from mission activities	WSMR	Land Use	debris will fall over WSNM, or T&E habitat	WSNM, T&E habitat	Missile flight trajectories would be planned to avoid impact in the San Andres National Wildlife Refuge and other sensitive habitats such as pupfish habitat and would adhere to requirements of the agreement between the National Park Service and WSMR, which states that no planned debris will impact in the White Sands National Monument.
WSMR MDA Flexible Target EA 2007.pdf	fire from launch mishap	WSMR	Land Use	fires from launch mishaps could spread, adversely affect vegetation &surrounding communities	Area outside WSMR	Use existing launch sites where much of the vegetation has previously been removed; emergency fire fighting personnel would be on stand-by status for all launch activities as a protective measure
WSMR MDA Flexible Target EA 2007.pdf	off-range accidental impact	WSMR	Land Use	A missile could impact off-range, endangering human life	Area outside WSMR	The project office emergency response SOP would activate the WSMR Emergency Operations Center (EOC). The EOC would activate the in-place notification rosters for the appropriate WSMR Disaster Plan Annex, depending on the nature of the off range impact area.

WSMR	off-range	WSMR	Hazardous	A missile could	Area outside	Release of materials above
MDA	accidental	VVSIVII	Materials	impact off-range,	WSMR	threshold levels would be
Flexible	impact		Iviaterials	releasing	VVSIVII	reported to the U.S. EPA and
Target EA	Impact			hazardous		to state and local agencies
2007.pdf				materials into the		with emergency planning
2007.pai				environment		authority as mandated by
				Citviloriiiiciic		the Emergency Planning and
						Community Right to Know
						Act of 1986. In accordance
						with the Military Munitions
						Rule, the WSMR Directorate
						of Public Works would
						determine what range
						clearance and remediation
						actions are necessary to
						support WSMR operations.
						There would be no on-site
						treatment of hazardous
						waste except in the event of
						an emergency response as
						allowed in the WSMR RCRA
						permit. Entry to the impact
						site would be restricted to
						approved hazardous
						materials response
						personnel until the area is
						determined to be safe.
WSMR	noise from	WSMR	Noise	Noise sensitive	San Andres	Duration of noise is too
MDA	testing			areas could be	NWR, Bosque	short lived for impacts to
Flexible	operation			affected by testing	del Apache	occur
Target EA				activities	NWR, WSNM,	
2007.pdf					raptor locations	
					in the Oscura	
					Mountains	
					iviouiitallis	

Cannon LATN EA.pdf	Establishment of a low altitude training area for training Air Force Special Operations Command (AFSOC) aircrews Single exposure noise levels generated by C-130 and CV-22 aircraft flown at low altitude	Airspace training area	Noise	Noise from the Proposed Action would be expected to result in infrequent annoyance and very infrequent interference with activities such as conversation and sleeping.	Residences at any given location under the proposed training area and outside an avoidance area	Since overflight of any given location would be relatively rare, noise impacts would not be expected to be significant. A typical overflight generates a short-term peak in sound level followed by a return to ambient conditions. Disruptions caused by aircraft overflights usually only last a few seconds and usually lasts	
	Secondary effects of an aircraft crash	Airspace training area	Airspace Safety	Secondary effects of an aircraft crash include the potential for fire or environmental contamination	Areas under and adjacent to airspace training areas	less than 15 seconds. None listed.	
	Aircraft overflights	Airspace training area	Airspace Safety	The danger of avalanches caused by aircraft overflights	Areas under and adjacent to airspace training areas	Aircraft using the proposed training area would avoid flying over ski areas to the greatest extent practicable	

Fuel dumping	Airspace training	Airspace	contamination of	Areas under	Under non-emergency
r der damping	area	Safety	fuel	airspace training	situations, aircraft would not
	arca	Jaicty	luci	areas	dump fuel. If an emergency
				areas	requiring a fuel dump were
					to occur, the aircraft would
					climb to an altitude greater
					than 2,000 above the
					highest obstacle within five
					miles prior to initiating the
					dump in accordance with
					Federal Aviation
					Administration (FAA) ATC
					Manual 7110.65T. At this
					altitude, the vast majority of
					dumped fuel vaporizes prior
					to reaching the ground. As
					the likelihood of an in-flight
					emergency requiring fuel
					dump is low and standard
					FAA regulations for fuel
					dumping would be complied
					with if such an emergency
					were to occur, the risk
					ofhazardous materials
					reaching the ground in
					quantities that could
					potentially be dangerous is
					low.
Low altitude	Airspace training	Biological	startle response	Areas under	such reactions are not
flights in the	area	Resources	or other reactions	airspace training	necessarily detrimental to
training area			in wildlife, such as	areas	species populations, nor is
0			flushing or leaving		reaction alone enough to
			an area		imply adverse effect. Given
					the average number per day
					and distribution of sorties
					throughout the training
					area, a given individual
					area, a giveri iliuiviuual

					animal would not be consistently subjected to high noise levels. Habituation to noise may also occur.
Low altitude flights in the training area	Airspace training area	Biological Resources	Range cattle are especially sensitive to overflights when penned, such as for branding operations	Areas under airspace training areas	The Air Force has included procedures whereby ranchers and others can notify the 27 SOW of such activities and temporary avoidance areas can be established.
Low altitude flights in the training area	Airspace training area	Biological Resources	bird strike incidents have the potential to increase	Southwest Colorado and northwest New Mexico	the potential for increase should not be significant given that, with the exception of the east and central New Mexico area of the proposed training area, the rest of the proposed training area is rated as a low threat for bird strike. While the 27 SOW would continue to follow general risk reduction measures as stated in the 27 Bird Aircraft Strike Hazard (BASH) Plan, specific measures for the proposed training area have yet to be developed. Thus, the Proposed Action would require an expanded BASH avoidance and mitigation plan for severe bird strike

					risk areas.	
Low altitude flights in the training area	Airspace training area	Cultural Resources	vibration-induced effects on historic properties and sensitive fossil beds	Areas under the airspace training area	Overhead flights would not occur often and impacts would be of short duration, therefore impacts would not diminish the integrity of a historic property that qualifies the property for inclusion in the NRHP. Impacts on sensitive fossils beds such as those associated with Florissant Fossil Beds National Monument would be minimized by restricting flights to a minimum of 2,000 ft AGL.	

Low altitude	Airspace training	Land Use and	Sudden and	Areas under the	These incidences are not
flights in the	area	Recreation	intense noise	airspace training	likely to be persistent and
training area			could result in	area	would have only temporary
			disruptions to the		impacts on any given
			expected		experience. These events
			dominant land use		are not expected to change
					visitor habits or recreational
					land uses overall, but such
					intermittent overflight could
					be annoying to some
					residents and visitors.
					National monuments,
					national parks, and state
					parks would be avoided by
					2,000 ft AGL. Therefore, the
					potential for significant
					impacts on recreationists
					seeking quiet recreation is
					somewhat reduced. The
					projected noise levels are
					compatible with land uses
					under existing compatibility
					guidelines used by the FAA
					or the DoD.

5=54 516			T	T		
DTRA EIS	Additional	Mockingbird South	Aesthetics	would detract	expanded	While there would be some
2007	tunnel		and Visual	from the largely	Capitol Peak	additional degradation to
	targets		Resources	natural	HTD test bed	the aesthetics of test bed
				appearance of the	and a new test	areas
				area	bed at	under the proposed action,
					Mockingbird	these would not be
					South	significant based on historic
						and on-going
						use patterns. The number of
						viewers is primarily limited
						to the work force supporting
						activities on northern
						portion of WSMR. These
						viewers generally tend to
						have reduced
						sensitivities to potential
						visual impacts and are more
						accepting to test
						infrastructure and
						activities potentially
						affecting the environment.
						Furthermore, DTRA facilities
						and
						activities are compatible
						with the existing land use of
						WSMR.
						Test support vehicles could
						use existing roads and keep
						within test
						bed boundaries. Off-road
						travel could be limited to
						placement of testing
						infrastructure,
						plume tracking and recovery
						activities using a single path
						in and out. Following the
						end

Construction of	Aesthetics	would be visible	of their usefulness as test beds, these areas could be returned to their approximate original contours to the greatest extent feasible. Impact craters and depressions caused by explosions or recovery activities would normally be filled in and returned to approximate original contours following testing. In cases where recovery activities are prolonged due to extensive data collection efforts, craters and depressions could be filled within two years of testing.	
berms,	and Visual	from certain local		
hardened	Resources	roads and also		
targets, and		generate visible		
nonpermanent		amounts of		
structures at		airborne		
Permanent High		dust		

Explosive Test Site (PHETS)			
Craters from explosive tests and pits excavated to recover inert warheads	Aesthetics and Visual Resources	would create obvious blemishes on the landscape to observers.	Impact craters and depressions caused by explosions or recovery activities could be filled and returned to approximate original contours. In cases where recovery activities are prolonged due to extensive data collection efforts, craters and depressions could be filled within two years of testing event. Where craters and pits are filled in, the lack of vegetation still indicates where testing has occurred.
Expansion of test bed boundaries	Location and Topography	would increase the overall area subject to testing related disturbances (i.e., target construction, crater formation, etc.).	Following the end of their usefulness as test beds, all sites could be returned to their approximate original contours to the greatest extent feasible.

F	una un dina	Caalaayaaad	would cause the		
	panding	Geology and			
	urrent test	Soils	greatest increase		
	eds - the		in ground		
	oundaries of		disturbance,		
	HIST, Alt.		including soil		
	HIST,		compaction		
an	nd the Capitol		and resulting		
Pe	eak HTD test		erosion		
be	ed would be		soil compaction		
exf	rtended into		and erosion		
ad	djacent		(primarily from		
be	edrock		the anticipated		
			access roads into		
			the new		
			areas).		
Co	onstruction of	Geology and	potentially result		It is proposed that
	e proposed	Soils	in localized soil		bestmanagement practices
	lockingbird	33.13	compaction and		(BMPs) designed to reduce
	outh test site		erosion.		erosion be implemented at
	nd the use of		Crosion.		thediscretion of WS-ES.
	eavyequipmen				BMPs to minimize erosion
t t	eavyequipinen				may include mulching,
'					chemical stabilization,
					•
					geotextiles, hay bale berms,
					silt fences, reseeding,
					diversion berms,
					gabions,etc. If required,
					disturbed areas may also be
					reseeded with native flora
					species approvedby the WS-
					ES land manager.
Gr	round	Geology and	could accelerate	Alt. SHIST and	Appropriate erosion control
dis	sturbing	Soils	water	the Capitol Peak	measures should be
act	ctivities (such		erosion on these	HTD test bed	implemented on relatively
as	;		thin rocky soils	(including the	steep slopes having
exc	cavation, site		with a severe	expansion	potential for accelerated
	eparation, and		water erosion	areas), Rockland	erosion at the discretion of
				,.	Appendix E 159

projectile recovery)		hazard on steep slopes along the mountain fronts	Warm and Rockland Cool Soils	the White Sands Environment and Safety Directorate (WS-ES)
Wildfires caused by testing activities	Geology and Soils	increase bare ground and soil erosion potential as well		During static high explosive testing the fire department would be on call to prevent the spread of wildfires.
DTRA activities	Water resources	Surface water flow may be disrupted locally on test beds after ground disturbance from tunnel target construction, weapon impacts, and warhead recovery. In these instances, surface water runoff from rain events may increase due to an increase in bare ground.		DTRA test beds are at least several kilometers from perennial surface water bodies in Tularosa Basin. Computer models have indicated that collateral effects tests at the Capitol Peak HTD test bed would result in only trace amounts of simulants potentially entering Salt Creek or nearby basin springs.

T	T	1	 	
A portion of the	Water	Under rare	Groundwater should be	
test materials	resources	conditions, such	analyzed annually for	
released into		as a heavy rainfall	particular simulants tested	
the air at PHETS		event immediately	at	
and other DTRA		after dispersion of	PHETS.	
test beds		the	Storm water samples should	
during collateral		test material, it is	be taken annually and	
effects tests		conceivable that	analyzed for the presence	
would		part of the	of recently-tested simulants	
eventually settle		remainder may be	used at the Capitol Peak HTD	
out on the land		entrained or	test bed.	
surface		dissolved in	Ground water should be	
		surface water	monitored at test sites	
		runoff.	frequently utilizing large	
			quantities of perchlorate	
			based explosives.	
			with the exception of the	
			immediate areas around the	
			test	
			material release points, it is	
			expected that only very low	
			concentrations would be	
			deposited over downwind	
			areas. Furthermore, losses	
			from evaporation, reactions,	
			and	
			photodegradation; and the	
			infrequency of heavy rains	
			would prevent the	
			concentration of	
			substantial amounts of test	
			materials in surface water	
			runoff.	
			Perennial surface water	
			bodies in the Tularosa Basin	
			are located several	
			kilometers from	
 <u> </u>	<u> </u>	l .		

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				DTRA test sites and would	
				not be significantly affected	
				by collateral effects tests	
				, because	
				of the distances involved.	

Use of chemical	Biological	toxic effects and		
simulants in	Resources	the potential for		
proposed		bioaccumulation		
activities		in fish		
Use of chemical	Biological	toxic effects	Proposed mitigations for	
simulants in	Resources		tests that could impact	
proposed			pupfish (Cyprinidon	
activities			tularosa) habitat would	
			include periodic sampling of	
			the stream waters	
			containing pupfish to assure	
			little or no impact to aquatic	
			life.	
Large	Biological	Impacts to wildlife	If a northern aplomado	
Blast/Thermal	Resources	fromnoise and	falcon (Falco femoralis	
Simulator		overpressure	septentrionalis) or the	
Testing			Baird's sparrow	
			(Ammodramus bairdii) are	
			sighted in an area where	
			DTRA	
			testing activities are	
			planned, WS-ES will be	
			consulted to determine	
			further	
			action.	
			If a desert bighorn sheep	
			(Ovis canadensis mexicana),	
			a State listed	
			endangered species is seen	
			in proximity to a DTRA test	
			bed, WS-ES will be	
			contacted prior to testing.	

Collateral effects testing Air Quality would release CBR simulant plumes into the air above DTRA Plume concentrations would dissipate rapidly and reach extremely low levels near the northern WSMR	
into the air above extremely low levels	
DTRA near the northern WSMR	
test beds. boundary. In the case of	
biological simulants, spore	
concentrations would be	
well below levels of	
agricultural application.	
Effects to air	
quality from simulant	
releases would be transitory,	
occurring mainly near the	
point of "	
release for a short time.	
Proposed mitigation to	
ensure hazardous quanitities	
of test materials do not exit	
the range	
include developing	
prediction models before	
collateral effects tests, and	
monitoring	
weather conditions such as	
wind speed and direction.	
With this information a "no	
go"	
criteria will be developed for	
each test	
Plume tracers Air Quality consist of inert These materials,like the	
and taggants gases and rare simulants, dissipate rapidly	
earth oxides upon release, and	
concentrations would	
decrease tovery low levels	
as the plume approached	
the WSMR boundary.	

Large-scale HE events (approximately 1 KT or larger)	Air Quality	potential to loft large amounts of dust that not only affect air quality, but also have the potential to obscure photographic coverage of the event and cause damage to sensitive experiments and instrumentation.	To minimize blast pressures effects resulting from high explosive tests over 20,000 lbs, weather and overcast conditions should be monitored and blast predictions be verified with distant off-range measurements.
Construction activities for a new test bed at Mockingbird South and improvements to the PHETS Administration Park	Air Quality	produce dust.	A proposed mitigation would be to apply a dust suppressant when practical to minimize excessive vehicle-generated dust levels, and vegetation cover would be retained on sites wherever possible.
operation of the concrete batch plant at PHETS	Air Quality	produces substantial dust	the plant is used only intermittently.
high quantity HE testing	Noise and Blast	possible impact on and off of the range from blast pressures during adverse weather conditions such as strong inversions	Proposed mitigations would require that weather and overcast conditions be monitored and blast predictions will be verified with distant offrange measurements when conducting HE tests over

				20,000 lbs.	
An	n increase in	Transportatio	may require more	this will only be an	
DTI	ΓRA testing	n and	frequent	occasional and temporary	
act	tivities	Circulation	roadblocks of	disruption of normal	
			internal WSMR	traffic flow.	
			roads and of U.S.		
			Highway 380		

	Dhysical	Minor	• Dranged mitigation to
	Physical		Proposed mitigation to
	Resources	disturbance to	minimize impacts to
		topography and	topography,
		visual	geology, soils, and visual
		aesthetics at the	resources test should limit
		test beds	support
		Increased	vehicles to existing roads
		erosion, soil	and test bed boundaries.
		compaction, and	Off-road travel
		surface	should be limited to
		water runoff	placement of testing
		 Disturbance of 	infrastructure, plume
		bedrock	tracking and recovery
		at the test beds	activities using a single path
			in and out.
			Following the end of their
			usefulness as test beds, all
			sites
			(craters and depressions)
			should be returned to their
			approximate
			original contours.
			Appropriate surface water
			and erosion control
			measures should
			be implemented on at
			proposed test bed expansion
			areas.
			Dust abatement measures
			could include the use of
			water spray
			trucks and application of soil
			stabilizers. The WS-ES land
			manager may also direct
			additional measures for dust
			abatement.
			To address degradation of
		1	- 10 dadiess degradation of

			soil chemical quality an appropriate soil monitoring program should be implemented. • Ground water should be analyzed annually for particular simulants tested at PHETS. • Storm water samples should be collected annually and analyzed for the presence of recently-tested simulants used at the Capitol Peak HTD test bed. • Ground water should be monitored at test sites frequently utilizing large quantities of perchlorate based explosives.
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Biological	A small amount	• To assess the impacts of
Resources	of	DTRA activities on flora,
	vegetation would	Land
	be	Condition Trend Analysis
	disturbed or	(LCTA) data collection plots
	destroyed	inside the
	Impairment of	PHETS boundaries should be
	plant	sampled annually.
	growth, and	During static high
	reproductive	explosive testing the fire
	success	department would
	Increased water	be on call to prevent the
	and	spread of wildfires.
	wind erosion	Best management
	Simulants could	practices (BMPs) designed to
	affect	reduce erosion
	insect pollinators	would be implemented.
	causing	Examples may include
	indirect impacts	mulching,
	to	chemical stabilization, silt
	insectivores and	fences, reseeding, and
	insect	diversion berms.
	pollinated plants.	WSMR floral Species of
	Fauna located	Interest (SOI) may be given
	near test	preferential treatment as
	beds could be	determined by WS-ES, which
	exposed to	may
	simulant materials	include avoidance or
	Craters from	transplanting prior to
	weapons	construction activities.
	testing could	To limit potential impacts,
	create a trap	WS-ES should be provided a
	hazard for fauna	list of
	Fauna could be	individual strains and/or
	injured	sources of all biological
	during test and	simulants for
	construction	review, prior to each test.

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activities	To avoid interfering with
Noise from	yucca pollination by the
construction	yucca moth,
and test activities	tests using Bacillus
would	thuringiensis (Bt) will not
temporarily	take place during
disturb fauna	the month of June, the peak
	flowering time of soap tree
	yucca.
	To protect fauna and
	habitat support vehicles
	should use
	existing roads whenever
	possible. Off-road travel will
	be limited
	to placement of testing
	infrastructure and recovery
	activities using
	a single path in and out.
	If a desert bighorn sheep
	(Ovis canadensis mexicana),
	a State
	listed endangered species is
	seen in proximity to a DTRA test bed,
	· · · · · · · · · · · · · · · · · · ·
	WS-ES will be contacted
	prior to testing.
	Proposed mitigations for
	tests that could impact
	White Sands
	pupfish (Cyprinidon tulrosa)
	habitat would include
	periodic
	sampling of the stream
	waters containing pupfish to
	assure little or
	no impact to aquatic life.

Airspace	Airspace	would increase	• If a northern aplomado falcon (Falco femoralis septentrionalis) is sighted or if DTRA plans to conduct activities in areas classified as suitable aplomado habitat, they will contact WSMR's Environmental Stewardship Division to ensure compliance with the Endangered Species Act.	
activities		slightly over present levels		

	Air Quality	• Release of	Proposed mitigation to
	7 iii Quality	simulant	ensure hazardous quantities
		plumes, explosive	of test
		byproducts,	materials do not exit the
		and dust from	range include developing
		test activities	prediction
		• Construction	models before collateral
		and testing	effects tests, and monitoring
		activities would	wind speed
			and direction. With this
		generate	
		dust and vehicular	information a "no go"
		emissions	criteria will be
			developed for each test.
			A proposed mitigation to
			minimize dust generated
			from
			construction activities would
			be to apply a dust
			suppressant when
			practical to minimize
			excessive vehicle-generated
			dust levels, and
			vegetation cover would be
			retained on sites wherever
			possible.
	Noise and	 Personnel and 	Employees would be
	Blast	fauna	enrolled in a hearing
		would be exposed	conservation
		to noise	program if noise exceeds 85
		from test and	dBa expressed as an 8-hour
		construction	TWA
		activities	and would be required to
			wear hearing protection.
			Personnel would be
			evacuated to a safe distance
			prior to
			explosive tests.
			explusive tests.

		• To minimize blast pressures effects resulting from high explosive tests over 20,000 lbs, weather and overcast conditions should be monitored and blast predictions be verified with distant off-range measurements.
si t le o ra E p d	Testing and supportequipmen would emitlow-evels of ionizing particular formula	Personnel should comply with safety procedures involvingradars and other support equipment that emits non-ionizing andionizing radiation. Safety zones should be established, and clearlydelineated, to exclude entry into areas of hazardous radiation.
Hazardous Materials and Waste, w w g te	Petroleum, oils, and ubricants (POL) waste would be generated from est and construction activities	 Vehicles, construction equipment, generators, and fuel storage units would employ a spill containment system (e.g., drip pans) in accordance with the WSMR Spill Prevention Plan. CBR simulants and other test materials would be used in the smallest amounts practicable so as to reduce the accumulation of

				hazardous wastes.
DTRA activities	He	luman lealth and afety	areas adjacent to WSMR	chemical simulant plumes should dissipate at 2-3 miles from the source (EPA, 2004). Thus, if any of these chemical simulant were to persist beyond the borders of WSMR it would be at concentrations not considered to be harmful or cause adverse health effects in humans Personnel will remain in close contact with the PHETS Administrative Park, or other coordination center, through radios or cellular telephones in the event of a safety issue or the need for evacuation. Radios shall not be used in vicinity of blasting operations or explosive storage locations.

margina	ıl 📗	Socioeconomi	provide an added		
increase	e of	CS	but relatively		
DTRA ac	tivities		small stimulus to		
			the local and		
			regional		
			economies,		
			primarily for		
			persons living in		
			Las Cruces,		
			Socorro, and		
			Alamogordo, New		
			Mexico		

Appendix F - Military and Surrounding Area Activities Tables

Appendix F - Table 1 Military Activities/Uses/Infrastructure Effects on Surrounding Areas - Generic

Militany Astinity/Hass EFFECTOR	Dataset	Incompatible RECEPTOR (Non-	Detroot
Military Activity/Uses EFFECTOR Air Quality	Dataset	Military)	Dataset
Military commuter traffic Air emissions from aircraft operations, training and test equipment	Road network surrounding installation Military airfields High intensity airspace training areas (restricted, MOA, MTRs)	Residential areas Prevention of Significant Deterioration (PSD) Class 1 areas Non-attainment areas	Nonattainment area boundaries PSD Class 1 areas boundaries State nonattainment area boundaries
Airspace (Hazardous Activity)			
Test trajectories and safety areas for missiles, high energy (HE), directed energy (DE), live fire weapons, and laser weapons	Restricted airspace Evacuation Areas Call up areas Debris fall-out areas	Developed areas Institutional facilities High-value national asset (infrastructure) Areas with concentrated activities Inhabited/occupied structures Field crews	Incorporated areas Small communities Schools, hospitals Institutional zoning Land use/zoning Transmission lines Windfarms Nuclear plant DOT/other construction project sites
High speed low-flying aircraft	MTRs	Obstructions/structures Physical infrastructure Birds	Transmission lines Towers >200 feet, >50feet<200 feet) Wetlands Avian fly-ways Waterfowl areas

Appendix F - Table 1 Military Activities/Uses/Infrastructure Effects on Surrounding Areas - Generic

		Incompatible RECEPTOR (Non-	
Military Activity/Uses EFFECTOR	Dataset	Military)	Dataset
Aircraft arrival and departure	Military airfields	Avian habitat	Incorporated areas
(high volume)	Auxiliary airfields	Obstructions/structures	Zoning
	Accident zones, clear zones	Landfills	Residential areas
	Airfield clearance zones	Residential areas	Commercial areas
		Institutional uses	Industrial areas
		High intensity commercial/	Institutional uses (schools, hospitals)
		industrial use	Outdoor public complexes, parks,
			amphitheaters, race tracks
Drop zone	Drop zones	Developed areas	Incorporated areas
		Occupied facilities	Isolated homes
		Recreational use areas	High use recreational areas-
		Urban areas	developed sites (campgrounds)
			National/state parks, monuments,
			refuges
Missile flight path >60,000 feet	Missile flight safety corridors	Non-participating aircraft	Note: above the National Airspace
MSL		High altitude weather	area of concern
		equipment	Satellites and weather equipment
		Satellites	airborne sites/orbits
Airspace (Non-Hazardous Activity)			
Helicopter operations areas (non-	Alert Areas	Interface with civilian air traffic:	Airports
hazardous)	Helicopter operations areas	Airfields/airports (controlled	Arrival and departure paths
	(Non-hazardous)	airspace Class A to E)	Class A-G airspace
		Uncontrolled Airspace Class F, G	
Military aircraft operating areas	MOAs/ATCAAs	Interface with civilian air traffic:	FAA air traffic routes
		Enroute IFR, VFR routes,	
		Victor routes	
Military aircraft transit	Military air transit routes, UAS	Interface with civilian air traffic:	Airports
corridors/routes	CoAs	Airfields/airports (controlled	Arrival and departure paths

Appendix F - Table 1 Military Activities/Uses/Infrastructure Effects on Surrounding Areas - Generic

		Incompatible RECEPTOR (Non-	
Military Activity/Uses EFFECTOR	Dataset	Military)	Dataset
		airspace Class A to E)	Class A-G airspace
		Uncontrolled Airspace Class F, G	
		Enroute IFR, VFR routes,	
		Victor routes	
Developed Areas (cantonment, camp	ps)		
Cantonment areas	Cantonment boundaries	Residential areas	Local road network
	Cantonment expansion areas	Construction zones	Incorporated areas
	Access control points	Local roads and traffic	Zoning-residential
			Congestion areas (roads with LOS
			<c)< td=""></c)<>
			Aerial photography
Military airfields	Airfield areas	Accident potential in populated	Local zoning maps
	APZs/CZs	areas	Residential areas
	Noise contours	Noise sensitive land uses	Institutional infrastructure
			Outdoor recreational facilities and
			parks
			High density commercial and
			industrial use areas
Range camps, range centers	Military facility data	Nearby residential areas	Incorporated areas
			Census places
Frequency Spectrum generation			
Instrumentation sites	Laser and DE test envelopes	Radar communication	Radar sites
Radar sites	Restricted airspace	Commercial radio and TV	Satellite towers
	HE emitting equipment	broadcasting equipment	Emergency dispatch facilities
Laser and HE test operations	Radar sites	Personal communication devices	Communication towers

Appendix F - Table 1 Military Activities/Uses/Infrastructure Effects on Surrounding Areas - Generic

		Incompatible RECEPTOR (Non-	
Military Activity/Uses EFFECTOR	Dataset	Military)	Dataset
Communication sites	Instrumentation sites	Satellite services	(transmitting/receiving)
GPS equipment and test sites	GPS jamming facility	GPS-dependent services	Frequency 90-mile border buffer
	Communication towers	Frequency 90 mile border buffer	zone
	Test facilities + buffers	zone "quiet" zone	
Light/Glare generation			
Airfield	Airfield lighting	Light sensitive facilities	Observatories
	Reflective surfaces (dishes,	Dark sky areas	Major highways
	arrays, glazing)	Busy roadways (drivers)	Counties with dark sky ordinances
		Residential areas	Isolated residential areas
Cantonment	Outdoor facility lighting		
	Roadway lighting		
	Reflective surfaces (dishes,		
	arrays, glazing)		
Outdoor facility lighting, Reflective	Isolated facilities with outdoor		
surfaces (dishes, arrays, glazing)	lighting		
	Outdoor facility lighting		
	Solar arrays, dishes, large		
	glazing		
Natural Resource Protection areas			
Contextual information	Military installations:	Not applicable-not an activity	Not applicable
	T&E habitat		
	Soils classifications		
	Floodplains		
	Wetlands		
	Protected/limited use areas		
	Riparian areas		

		Incompatible RECEPTOR (Non-	
Military Activity/Uses EFFECTOR	Dataset	Military)	Dataset
Noise/vibration			
Aviation Noise (Ldn)	MTRs	Residential areas	Urban areas
	MOAs	Wilderness areas/WSAs	Incorporated areas
	Restricted airspace	Protected areas	Residential areas
	Military airfield	Institutional infrastructure	Schools, hospitals
	Noise contours (L _{dn})	Cultural properties	Small communities, home sites
	Helicopter flight paths/flying	Recreational users	Wilderness areas/WSAs
	area		National/state parks, monuments
	Nap-of-the-earth training		Zoning/land use (municipal/ETZ)
	areas		Future land use
	HAMETs training areas		Small communities, home sites
Range noise	Firing Ranges		Wilderness areas
(munitions/impulsive/sonic boom)	Bombing Ranges		National/state parks, monuments
(CDNL)	Noise contours		Historic structures
	Supersonic approved airspace		USFS lands
Obstacles/Structures			
ATC towers	Military facilities including:	Civilian aircraft operations:	Airports, approach paths
Energy	ATC towers	Airports, approach paths	Public land open recreation areas
infrastructure/communication	Transmission lines	Public land open recreation	Public land developed recreational
towers	Communication towers	areas	sites
Instrumentation sites (off-site)	Radar towers	Public land developed	Visual resource areas Class I, II areas
Buildings >50 feet in height	Instrumentation sites (off-	recreational sites	
-	site)	Visual resource areas	
	Buildings > 50 feet in height		

Military Activity/Uses EFFECTOR	Dataset	Incompatible RECEPTOR (Non- Military)	Dataset
Physical Infrastructure	Dutuset	winted y)	Butaset
Off-road Heavy vehicle operations Heavy vehicle trails	Off-road training areas Military tank trails	Underground pipelines Dust sensitive areas	Underground pipeline (water, gas) Residential areas
Low flying military operations	MTRs Restricted airspace	Above ground physical infrastructures High-value national assets	Transmission lines Wind farms Communication towers/above ground lines Energy production sites Nuclear plants
Missile debris/impact areas	Restricted airspace Missile firing safety areas	Above ground physical infrastructures High-value national assets Wind farms	Transmission lines Solar arrays Wind farms Oil and gas fields Above ground pipelines Energy production sites, nuclear plants,
Airfield accident zones	APZs/CZs	Above ground physical infrastructures High-value national assets Wind farms Hospitals	Transmission lines Solar arrays Wind farms Oil and gas fields Above ground pipelines Hospitals Energy production sites
Military solar arrays Geothermal facilities Water treatment plant Waterwater treatment plant Landfills			

	_	Incompatible RECEPTOR (Non-	_
Military Activity/Uses EFFECTOR	Dataset	Military)	Dataset
Physical Security			
Ground operations on non- military lands Military sites on non-military land Use of public airports, facilities	Instrumentation sites (off-site) Airfield clearance zones Public airports Field operations areas on non-military land	Effects on high value resources and vandalism/nuisance attractions: Public airports (with mil use) Military use areas on non- military land Military sites on non-military land Proximity of military uses and assets to high-value non- military assets, high use public areas	Boundary/fence lines High-valued public assets (observatories, commercial test sites) Airports Surface training areas outside military land
Protected Area			
Riparian areas Limited Use areas on military land Cultural properties	T&E/critical habitat areas Fort Bliss red zones WSMR Trinity site	Wildlife refuges Parks, monuments Critical Habitat Conservation areas Wild and scenic rivers	Federal/state GIS sources: Wildlife refuges Parks, monuments Habitat/conservation areas Wild and scenic rivers
Quality of Life			
Cantonment expansion	Cantonment expansion areas Road network Access control points	Noise sensitive areas Traffic and congestion	Land use/zoning Residential areas
Military population growth	Installation population statistics/trends	Utility capacity issues Institutional infrastructure capacities Medical facilities Sports facilities Urban parks	Census block data / growth trends Census block density Census block population projections Urban areas: parks, medical facilities, sports facilities

Military Activity/Uses EFFECTOR Recreational Resource	Dataset	Incompatible RECEPTOR (Non- Military)	Dataset
Aviation noise (L _{dn})	MTRs, MOAs, Restricted airspace supersonic areas	Users of public recreational facilities, sites and natural	State and federal land management data:
Range noise	Firing Ranges Off-road maneuver areas	areas: Co-use recreation areas on military land	Co-use recreation areas on military land National parks, monuments
Vehicle maneuvers	Vehicle maneuver areas in co- use areas Range Roads	National parks, monuments Campgrounds Parks	Campgrounds Parks Wilderness areas
Air drop operations	Air drop zones (off-site)	Wilderness areas	Wild and scenic rivers
Field training operations	Training areas, FTX sites	Wild and scenic rivers Special recreation areas Trails (non-motorized) Amphitheaters National Parks and Monuments	Special recreation areas Recreational opportunity areas Trails (non-motorized) Amphitheaters National Parks and Monuments Municipal GIS - parks Outdoor sports complexes
Resource extraction/development			
Aircraft operations (hazardous)	Restricted airspace	Require evacuation or removal of non-participating persons during events Timber harvesting Oil and gas development Wind harvesting	Timber harvesting areas Oil and gas well fields Wind farms Industrial plants Mining sites Resource processing sites Timber areas
Surface Danger zones	SDZs Test areas Impact areas Debris fallout areas	- Industrial processing Solar power sites	Oil and gas fields (active lease areas) Wind farms Solar arrays Industrial plants Mining sites

		Incompatible RECEPTOR (Non-	
Military Activity/Uses EFFECTOR	Dataset	Military)	Dataset
Surface Contamination			
Contamination from incidental	FUDS areas	Water supply sources	Aquifers, groundwater basins, well
spills and releases of hazardous	RCRA/CERCLA sites	(groundwater, surface water)	fields
substances	UXO areas	Irrigation for food production	Agricultural areas
		Future development areas	Future development areas from plans
Unexploded ordnance areas		Publicly accessible lands	State/BLM owned land
(current, former, potential)			
Water Resource			
Contamination from incidental	Airfields, field training spill	Water supply sources	Stormwater infrastructure, Aquifers,
spills and releases of hazardous	incidents, mission	(groundwater, surface water)	well fields, streams, water bodies
substances	maintenance areas		
Water demand for troops	Aquifers, well fields,	Water supply quantities/supply	Tabular data
	drawdown areas	capacity	
Wildfires			
Use of incendiaries, live	Impact areas	Critical habitat	
ammunition	Bombing ranges	Protected grasslands	
		Adjacent high fire risk areas	
		High value public/commercial	
		infrastructures	
Field operations with vehicles	FTX sites	Critical habitat	
(ignition sparks)	Off-road vehicle areas	Protected grasslands	
	On-road training routes	Adjacent high fire risk areas	
		High value public/commercial	
		infrastructures	

		Incompatible RECEPTOR (Non-	
Military Activity/Uses EFFECTOR	Dataset	Military)	Dataset
Surface safety hazard			
Off-road maneuver areas	Training areas approved for	Public access and recreation on	Off-road maneuver approved areas
Munitions Storage areas	off-road maneuver	military land	Co-use areas on military land
Launch sites	Quantity distance areas	Developed areas	Hunting areas on military land
Impact areas (existing, former)	Launch site safety areas	Surrounding residential land	Incorporated areas
Surface Danger zones	(restricted airspace)	Isolated communities, homes	Municipal land use/zoning
Firing ranges	Surface Danger zone	Surrounding developed	Aerial imagery
Test facilities	footprints	sites/industrial uses	Isolated home sites
Contamination	Exclusion areas (hazardous)	Ranching operations	Grazing permit boundaries
Airfield accident zones	UXO areas	Utility ROW maintenance	Private parcels
Field training	Contaminated sites	operations	Utility ROWs
	Impact areas	Occupied facilities	Transmission lines
	Surface Danger zones	Field crews	Solar arrays
	Firing ranges	High-value public infrastructure	Wind farms
	APZs/CZs	Institutional infrastructure	Schools, hospitals
	Drop zones		
	FTX sites		

Non Military Activity/Uses-	ble 2 Surrounding Area Uses and Activitie	Incompatible with (RECEPTOR-	Vities and Resources
	Detecat	•	Detect
EFFECTOR Air Overline	Dataset	Military)	Dataset
Air Quality		12.2.6	
Vehicular air emissions	Highway congested zones	Cantonment areas (QOL for	Cantonment areas
State Implementation Plan (SIP)	SIP budgets; regional air basins; NM	military families)	
user budgets	Air Quality control Board areas	Military SIP budget	
Point source emissions from	Major power/industrial sites		
industrial sites			
Major construction sites (PM10)	Major construction zones (e.g.,		
	highways, shopping center)		
Regional haze, smog	Nonattainment areas		
Airspace (non-Hazardous Activit	y)		
Civilian air traffic-high levels of	VFR corridors around military airspace	Pilots constrained by heavy	MOAs, Class G airspace, Alert
activity	Arrival/departure corridors to airports	civilian traffic in shared see-and-	Areas
		avoid airspace (both special use	Airports
		and Class G VFR airspace)	
General aviation VFR,	Class G airspace	Low level military operations in	MTRs, MOAs (low minimum floor)
operations at <1,000 feet AGL		MTRs, MOAs (see and avoid)	EPIA airspace
		Low-level operations in Class G	Biggs AAF airspace
		airspace (helicopter areas, transit	Alert Areas
		routes) mostly around Fort Bliss	
Airspace (Hazardous Activity)			
Crop dusting	Agricultural lands	Low-flying military aircraft	MTRs, MOAs, Restricted airspace
			(surface)
Government/commercial	Research sites + buffer	Helicopter operations areas	MTRs, MOAs, Restricted airspace
research and test facilities	Observatory, telescopes	Alert areas	(surface)
(airborne functions)	Laser safety envelopes (state and	Military air transit corridors	
	commercial sites)	Military air operations	
	NMT EMRTC	(hazardous)	
		Military surface training areas	

Non Military Activity/Uses-		Incompatible with (RECEPTOR-	
EFFECTOR	Dataset	Military)	Dataset
Commercial space vehicle	Spaceport boundaries	Helicopter operations areas	MTRs, MOAs, Restricted airspace
operations	Launch envelope safety footprints	Alert areas	
		Military air transit corridors	
		Military air operations	
		(hazardous)	
		Military surface training areas	
Airfield protection areas	FAA clear zones and airfield clearance	Helicopter operations areas	MTRs, MOAs, Restricted airspace
	areas	Alert areas	
		Military air transit corridors	
Balloons (recreation, research,	Airspace approved for recreational	Helicopter operations areas	MTRs, MOAs, Restricted airspace,
monitoring equipment)	balloons	Alert areas	Alert Areas, certificate of
Aerostat (border control	Airborne commercial weather	Military air transit corridors	Authorization (CoA) areas for UASs,
surveillance)	equipment	Low-flying aircraft operations	Aerostat/JLENS site
	Aerostat sites (Homeland Security)	Pilot training - aircraft, tactics	
UAS test activities	NMSU UAS FTC operations area	Military helicopter operations	Helicopter operations areas
		areas	Alert Areas
Airborne research/weather	Tethered monitoring equipment	Helicopter operations areas	MTRs, MOAs, Restricted airspace
equipment		Alert areas	JLENS site
		Future Alert areas	Alert areas
		Military air transit corridors	Tethered equipment
Cultural Resources			
Trespass/vandalism	Military installation boundaries	Cultural sites on military land	Fort Bliss red zones
	Fence lines	NRHP structures on military land	NRHP sites
		Traditional cultural properties	TCPs on military land
Blasting	Active mines	(TCPs)	Urban expansion areas
		Boundary encroachment areas	Census tracks with increasing
Loud noises from construction (vibration)	Major construction sites		population trends on boundaries

Appendix F- Table 2 Surrounding Area Uses and Activities - Effects on Military Mission, Activities and Resources				
Non Military Activity/Uses-		Incompatible with (RECEPTOR-		
EFFECTOR	Dataset	Military)	Dataset	
Impulsive noises from testing	Energetics research facility			
activities, sonic booms				
Developed Areas/Uses				
Areas with high density	Urban areas (existing, planned)	All operations constrained by	SDZs for test facilities (outside DoD	
population/concentrated uses	Subdivisions (existing, planned)	presence of non-participating	boundary)	
	Residential areas	persons	Aviation noise areas (contours)	
	Institutional land use	Test mission operations	Impulsive noise areas (contours)	
	Hospitals, hospices	Aviation noise areas	Firing ranges	
	Schools, universities, colleges	Impulsive noise areas	Aircraft operations (hazardous)	
	Government facilities	Firing ranges	QD areas	
		Aircraft operations (hazardous)	Surface danger zone	
		Surface hazard area	Troop training sites, FTX sites	
		Surface danger zone	APZs/CZs	
		Troop training sites	Air drop zones	
		Airfield arrival and departure	Nap of the earth training areas	
		tracks		
		Air drop operations		
		Nap of the earth training		
		sites sensitive to trespass		
Industrial use/commercial use	Industrial land use	Aircraft operations (hazardous)	Military airfield	
	Commercial land use	Firing ranges	Firing ranges	
		Aircraft operations (hazardous)	Aircraft operations (hazardous)	
		Surface hazard area	QD areas	
		Surface danger zone	Surface danger zone	
		Troop training sites	Troop training sites, FTX sites	
		Airfield arrival and departure	APZs/CZs	
		tracks	Air drop zones	
		Air drop operations	Nap of the earth training areas	

	$\frac{able\ 2\ Surrounding\ Area\ Uses\ and\ Activit}{ }$		Vities and Resources
Non Military Activity/Uses-	.	Incompatible with (RECEPTOR-	.
EFFECTOR	Dataset	Military)	Dataset
		Nap of the earth training	
Agriculture/food production	Cropland	Surface contamination	UXO areas
	Grazing Areas	Surface activities (hazardous)	FUD sites
		Aircraft operations (hazardous)	SDZs
			Restricted airspace (surface)
Future subdivision and	Future land use plans	Airspace activities (hazardous)	Evacuation areas + buffer zone
development	Proposals for subdivisions	Hazardous surface activities	Restricted airspace + buffer zone
	Existing subdivisions (not built up)	Missile/laser/HE test safety areas	MTRs
	Zoning revisions	Aircraft operations at airfields	APZs/CZs
			SDZs
			Evacuation areas
Isolated communities,	Isolated communities, homesteads	Aviation noise areas	Aviation noise areas (contours)
homesteads		Impulsive noise areas	Impulsive noise areas (contours)
		Firing ranges	Firing ranges
		Aircraft operations (hazardous)	Aircraft operations (hazardous)
		Surface hazard area	QD areas
		Troop training sites	Surface danger zone
		Airfield arrival and departure	Troop training sites, FTX sites
		tracks	APZs/CZs
		Air drop operations	Air drop zones
		Nap of the earth training	Nap of the earth training areas

Non Military Activity/Uses-		Incompatible with (RECEPTOR-	
EFFECTOR	Dataset	Military)	Dataset
Frequency Spectrum			
Communications towers	Satellite/ radio towers	Frequency conflicts interrupt test effectiveness, communications and curtail test envelopes:	Site/facility location & buffer distance UAV operating areas (CoA areas)
Medical equipment	Hospitals	Military communication sites	
GPS equipment use, emergency dispatch communications	Lookout towers	Instrumentation sites Military radar sites	
Welding operations	Commercial welding operations	Military GPS test facilities Tests requiring prequency clarity	
Commercial radio and broadcasting operations	Cell phone towers, radio towers, commercial antennas, satellite dishes	Tests requiring access to frequency spectrum UAV/RPA operating areas (C-band uses)	
Personal communication devices, HDTV, medical devices, satellite dishes, cellular phones, GPS	Urban areas Isolated homes, communities Primary highways		
Ham radio operators (using military and shared spectrum without approval)		Interrupt test effectiveness, curtail test envelopes	
Institutional Infrastructure			
Commuter and construction traffic near/on installation (emissions, traffic, hindered access)	Road network/ construction routes in and around installation Highway repair sites Commuter routes LOS D, F roadways around installations	Military schools and daycare facilities Military medical facilities Military outdoor sports and recreation facilities	Schools, daycare, medical facilities, outdoor sports and recreation areas on installation from Master Plan/Civil Engineering
Noise (from traffic, aircraft)	Road network/ construction routes in and around installation Highway repair sites	Schools and daycare facilities on installation Military medical facilities	

	T	T	
		Military outdoor sports and	
		recreation facilities	
Non Military Activity/Uses-		Incompatible with (RECEPTOR-	
EFFECTOR	Dataset	Military)	Dataset
Light/Glare			
Areas/spot locations with high	Highways	Alert areas	GEODSS
lumen emissions	Airfields	Specialized light sensitive test	Airfield arrival/departure tracks
	Urban areas, solar panels	facility	
		Military air transit corridors	
		Airfield approach and departure	
		tracks	
Natural Resource Protection			
Natural resource management	Co-use areas (on McGregor Range)	Low-flying aircraft	MTRs, MOAs, Restricted airspace
actions on military lands	Grazing areas on McGregor Range	Aviation noise	Noise contours
,		Aircraft operations (hazardous)	Impact areas, bombing ranges
		Munitions impact areas/debris	
		areas	
Natural resource management	Burn sites	Localized constraints on military	Case-by-case
actions outside military lands		uses (may be temporary)	
(e.g., burn areas, sensitive	Others TBD		
species monitoring areas,			
Air quality maintenance, non-	Maintenance and Nonattainment areas	Military families QOL	Cantonment areas
attainment areas	High congestion roads (LOS D, F)	Cantonment areas	
	Construction sites		
Noise/vibration			
Welding operations	Commercial welding operations	Noise & vibration sensitive	Noise sensitive facility/equipment
		facilities	location & buffer distance (e.g.,
Construction sites (large scale)	Commercial construction sites		ARC on WSMR)
, 3			
Traffic corridors (high volume)	Traffic corridors (high volume) (BTS		
	attributes)		

Blasting	Mining and oil and gas drilling		
Airport operations (aviation)	Airports and airstrips		
Non Military Activity/Uses- EFFECTOR	Dataset	Incompatible with (RECEPTOR- Military)	Dataset
Obstacles/obstructions			
Communication towers	Radio towers, cell phone, radio, TV towers	Hazardous, non-hazardous airspace activities, missile debris/safety areas	MTRs MOAs Restricted airspace
High buildings	Cranes, lookouts	Hazardous, non-hazardous airspace activities	Alert Areas Test envelopes (case-by-case),
Energy infrastructure	Windmills, electric transmission plants, coal burning plant, O&G operations	Hazardous, non-hazardous airspace activities	Evacuation/Call up areas
Physical Infrastructure			
Trespass/vandalism to military infrastructure (surface penetration)	Fenced areas, border fence lines Dispersed recreation areas (public land) Public trails on periphery of installations State/national parks, monuments Evacuation areas	Air-to-ground bombing (weapons release) Instrumentation sites (off-site) Radar/equipment sites, launch sites Existing military roads Communication towers Wells, Well fields Surface water supplies	Bombing ranges Evacuation areas Radar and communication sites
Highway systems/road use	Highway network Railroad network	Surface danger areas Call-up/Evacuation areas Road closure points	Evacuation areas Road blocks
Wildfire	High fire danger areas Dispersed recreational areas on public lands	Existing military roads Instrumentation sites (off-site) Communication towers Wells, well fields	

		Launch sites, test facilities Transmission lines on military	
		land Surface water supplies	
Non Military Activity/Uses- EFFECTOR	Dataset	Incompatible with (RECEPTOR-Military)	Dataset
Regional public utility infrastructures - operations, maintenance	Pipelines (above ground, underground) Utility ROWs Transmission lines	Damage/inference from or to: Off-road heavy vehicle operations areas	Off-road use approved areas Tank trail crossings ATC facilities/radar sites (line of site)
Regional public utility infrastructures - operations, maintenance	Wind farms	Military ATC radar	ATC facilities/radar sites (line of site)
Physical Security			
Intrusion, surveillance of military facilities	Line of sight viewing locations onto military installation Terrain data Fence lines Populated areas along boundaries Public use facilities, resources along boundaries Campgrounds, trails Parks, monuments, trails Co-use areas	Security of high-value test sites (near boundary) Cantonment areas Secure facilities (not releasable information) Bombing ranges Munitions storage areas	Access control points Research sites Cantonment areas Co-use/public use areas on installations Centennial Range QD arcs Airfields Railroads onto installation (active)
Inadvertent access to military land	WHSA Co-use areas Adjacent public lands Populated areas on boundaries	High-value military assets/test facilities near boundaries (not releasable information) Military airfield	Airfields Cantonment areas Fence lines
Terrorism, protest threats	Populated areas Remote, unpatrolled areas Access control points	Cantonment areas Military sites on non-military land (e.g., Instrumentation sites)	Airfields Cantonment areas Fence lines Instrumentation sites (off-site)

Inadvertent access to	Evacuation areas	Clearing non-participating	Evacuation areas
evacuation areas	Road blocks	persons from SDZs	Road blocks
	Road network in Call up areas		Road network in Call up areas
Non Military Activity/Uses-		Incompatible with (RECEPTOR-	
EFFECTOR	Dataset	Military)	Dataset
Protected Areas			
Public access to sensitive	N/A	TCPs	Installation GIS:
locations (most not applicable)		Cultural sites	TCPs
		NRHP	Cultural sites
		Critical habitat	NRHP
		Burial sites	Critical habitat
		Contamination sites	Burial sites
		Wetlands, floodplains	Contamination sites
		Watershed protection	Wetlands, floodplains
Wildfire/development in	Watershed boundaries	Watershed recharge areas on	Bonito Lake
watershed areas	Forested areas	military land	
		Bonito lake	
Recreational Resource			
Noise-generating commercial	Mines	Hunting areas on military land	
operations (blasting,	Construction sites	Public access areas on military	
construction etc.)		land	
		Outdoor recreation areas for	
		military personnel/families	
Areas with high outdoor	Public parks	High-value military	Instrumentation sites, MTRs,
recreational use	Trails	infrastructure	MOAs, Restricted airspace
	Reservoirs	Instrumentation sites, noise	Noise contours
	Boat launch	Hazardous surface activities,	Impact areas, bombing ranges
	Campgrounds, ski areas	hazardous airspace activities	

Commercial/ public outdoor recreation facilities generating noise	Racing complexes, gun club, rifle range	Noise sensitive military sites	ARC facility on WSMR
Non Military Activity/Uses- EFFECTOR	Dataset	Incompatible with (RECEPTOR- Military)	Dataset
Commercial/ public outdoor recreation facilities sensitive to noise	Amphitheaters, outdoor performance, sport complexes	Constraint on operations: Aviation noise Range noise Hazardous surface activities, hazardous airspace activities	Military airfields
Public parks	Federal, state, local parks	Constraint on noise-producing operations: Aviation noise Range noise Hazardous surface activities, hazardous airspace activities	MTRs, MOAs, Restricted airspace Noise contours Impact areas, bombing ranges DoD compatibility zones (LUPs, APZs, noise exposure)
Resource extraction/development	nt		
Trespass/vandalism	Line of sight viewing locations onto military installation Terrain data Fence lines Populated areas along boundaries Public use facilities, resources along boundaries Campgrounds, trails Parks, monuments, trails Co-use areas	Energy/water development sites on military land (vulnerability of site and resource)	Water infrastructure on military land Energy productions sites (geothermal sites, wind, desalination plant,
Adjacent sensitive uses: Recreation areas, residential areas, airport	Airfields (ATC radars, equipment) Zoning/land use (residential) Future urban expansion areas	Military renewable energy development	Renewable energy potential areas
Resource contamination or depletion by non-military uses	Oil and gas drilling (lease areas, developed, undeveloped)	Water harvesting locations on military land	Well sites (conventional, deep well injection sites)

	Deep-well water injection sites Aquifer drawdown zones		Military well fields, wells Sweet water areas Aquifer
Non Military Activity/Uses-		Incompatible with (RECEPTOR-	
EFFECTOR	Dataset	Military)	Dataset
Surface Contamination			
Industrial discharge	Manufacturing operations, grazing feedlots, mining slag heaps	Groundwater supply Surface water supply	Well field locations
Water Resource			
Civilian and commercial use; development and population growth	Water-intensive use areas, golf- courses, residential, commercial, and industrial (not necessarily GIS format) Future growth areas (non-serviced)	Groundwater supply Surface water supply	Well field locations
Ground water depletion		Groundwater supply Surface water supply	Well field locations
Wildfire prone areas	High fire risk areas Public dispersed recreation areas (forest, BLM land)	Watershed and surface water replenishment and quality (military supply)	Streams within watershed area for local aquifers Bonito lake (Holloman)
Drawdown from new residential wells in local aquifers	New well sites Private parcels Water service areas Residential subdivisions outside municipal service areas Expansion/growth areas	Groundwater supply and sustainability	Boles Water Well Field annex

Non Military Activity/Uses-	.	Incompatible with (RECEPTOR-	5
EFFECTOR	Dataset	Military)	Dataset
Wildfires			
Burn areas	Burn areas	Surface water supply	Water supply lakes
	High fire hazard areas	High-value infrastructure	Off-site instrumentation sites
		Instrumentation sites (off-site)	
Surface safety hazard			
Hazardous commercial or research activities/sites	Spaceport America flight safety envelopes Airport airfield safety/clearance zones El Paso International Airport airfield protection zones Alamogordo airport airfield zones Alamogordo Airport helicopter operations areas Civilian airport runway expansion areas	Military hazardous air operation Operations or use of facilities in safety areas Interaction of military and non- military airfield arrival and departure operations (Biggs/EPIA, Holloman/Alamogordo Airport)	Restricted airspace Military airfields APZs/CZs Military aircraft transit routes (e.g., helicopter transit corridors from Biggs AAF)
	Chemical processing plants		

Factor	Incompatible With	Cause by Military	Effect	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Air Quality	Developed Areas (concentrated activity/growth/urban)	Construction (dust)	Air Quality	Decrease in air quality due to fugitive dust from construction	Military construction sites	Air basin
Air Quality	Developed Areas (concentrated activity/growth/urban)	Off Road Vehicle	Air Quality	Decrease in air quality due to fugitive dust from off road vehicle use (training)	Subset of training areas: those with off road vehicle use	Air basin
Air Quality	Developed Areas (concentrated activity/growth/urban)	Troop increase (additional buildings, personnel & vehicles)	Air Quality	Decrease in air quality due to emissions from additional buildings & vehicles	Location of new buildings (cantonment expansion areas)	Air basin
Airspace (Non- Hazardous Activity)	Physical Infrastructure	Training (aircraft)	Decrease in available airspace	Increasing difficulty using airspace for private and commercial flights	MTRs, MOAs, other airspace	Commercial/Pub lic airspace
Institutional Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop increase	Decrease in available medical services	Competition and reduced availability of medical services	Proximity to installation/concent ration of military personnel	Medical facilities
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Construction	Decrease in landfill availability	Exceedance of landfill capacity due to construction/demoli tion waste	Construction sites	Landfills
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop increase	Decrease in landfill availability	Exceedance of landfill capacity due to household/office refuse	Proximity to installation/concent ration of military personnel	Landfills

Factor	Incompatible With	Cause by Military	Effect	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Institutional Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop increase	Decrease in school (student space)	Exceedance of school capacity due to additional enrollment by troop families	Proximity to installation/concent ration of military personnel	Schools
Water Resource	Developed Areas (concentrated activity/growth/urban)	Troop increase	Diminished Water Supply	Increased demands on potable water supply	Proximity to installation/concent ration of military personnel	Water supply: wellfields, reservoirs, river, aquifer, desalination plant
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop increase	Electric Utility Interruption	Exceedance of utility capacity due to additional personnel	Proximity to installation/concent ration of military personnel	Electrical Infrastructure
Wildfires	Surface safety hazard	Training (munitions)	Fire	Wildfire caused by munitions use	Firing points; bombing ranges; SDZ; impact areas	Area in Vicinity of geographic area of military cause
Wildfires	Surface safety hazard	Training (off- road vehicles)	Fire	Wildfire caused by off road vehicles	Subset of training areas: those with off road vehicle use	Area in Vicinity of geographic area of military cause
Wildfires	Surface safety hazard	Training (troop movement)	Fire	Wildfire caused by ground troops	Subset of training areas: those with ground troops and troop vehicles; range camps	Area in Vicinity of geographic area of military cause
Natural Resource	Surface safety hazard	Training (munitions)	Habitat Loss	Habitat loss caused by munitions	Firing points; bombing ranges; SDZ; impact areas	T&E Habitat
Natural Resource	Surface safety hazard	Training (off- road vehicles)	Habitat Loss	Habitat loss caused by off road vehicles	Subset of training areas: those with off road vehicle use	T&E Habitat

Factor	Incompatible With	Cause by Military	Effect	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Natural Resource	Surface safety hazard	Training (troop movement)	Habitat Loss	Habitat loss caused by ground troops	Subset of training areas: those with ground troops and troop vehicles; range camps	T&E Habitat
Water Resource	Developed Areas (concentrated activity/growth/urban)	Troop increase	Increased Wastewater	Exceedance of water system capacity	Proximity to installation/concent ration of military personnel	Wastewater treatment facilities
Natural Resource	Developed Areas (concentrated activity/growth/urban)	Construction (fill material)	Invasive species	Introduction of invasive species in construction fill material	Construction sites where fill material is used	Area in Vicinity of geographic area of military cause
Light/Glare	Surface safety hazard	Night Training (flares, munitions)	Light Pollution	Light pollution caused by night time training activities	Subset of training areas where night training occurs	Viewshed of training activities
Noise/vibration	Water Resource	Desalination injection well	Localized Low- intensity Earthquakes	Damage caused by earthquakes	Desalination injection well sites	Area in Vicinity of geographic area of military cause
Recreational Resource	Developed Areas (concentrated activity/growth/urban)	Troop increase	Loss of Open Space due to new construction	Development caused by troop increase reducing open space in surrounding areas	Proximity to installation/concent ration of military personnel	Open Space In Vicinity
Recreational Resource	Developed Areas (concentrated activity/growth/urban)	Training	Loss of Recreation Opportunities	Decrease in solitude and value of existing recreation sites	Training areas	Adjacent Public Recreation Sites
Noise/vibration	Developed Areas (concentrated activity/growth/urban)	Construction	Noise	Noise annoyance caused by construction	Construction sites; construction noise contours	Noise Sensitive Areas/Incompati ble Land Use

Factor	Incompatible With	Cause by Military	Effect	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Noise/vibration	Surface safety hazard	FIREX [Training (munitions)]	Noise	Noise annoyance caused by munitions training	McGregor Range, training areas and ranges where missile use occurs; SEL noise contours (specific)	Noise sensitive areas/incompati ble land use
Noise/vibration	Physical Infrastructure	Railway	Noise	Noise annoyance caused by railway	Rail ROW; SEL noise contours (specific)	Noise sensitive areas/incompati ble land use
Noise/vibration	Airspace (Non- Hazardous Activity)	Training (aircraft)	Noise	Noise annoyance caused by training aircraft	Restricted airspace; SEL noise contours (specific)	Noise sensitive areas/incompati ble land use
Noise/vibration	Surface safety hazard	Training (munitions)	Noise	Noise annoyance caused by munitions training	Firing points and bombing ranges; SEL noise contours (specific)	Noise sensitive areas/incompati ble land use
Noise/vibration	Surface safety hazard	Training (off- road vehicles)	Noise	Noise annoyance caused by off-road vehicles	Subset of training areas: those with off road vehicle use; SEL noise contours (specific)	Noise sensitive areas/incompati ble land use
Noise/vibration	Surface safety hazard	Training (troop movement)	Noise	Noise annoyance caused by troop movement	Subset of training areas: those with ground troops and troop vehicles; range camps; SEL noise contours (specific)	Noise sensitive areas/incompati ble land use
Natural Resource	Developed Areas (concentrated activity/growth/urban)	Construction	Soil erosion	Loss of soil due to erosion caused by construction	Construction sites	Sensitive soils (NRCS SSURGO)
Natural Resource	Surface safety hazard	Training (munitions)	Soil erosion	Loss of soil due to erosion caused by munitions training	Firing points; bombing ranges; SDZ; impact areas	Sensitive soils (NRCS SSURGO)

Factor	Incompatible With	Cause by Military	Effect	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Natural Resource	Surface safety hazard	Training (off- road vehicles)	Soil erosion	Loss of soil due to erosion caused by off-road vehicles	Subset of training areas: those with off road vehicle use	Sensitive soils (NRCS SSURGO)
Natural Resource	Surface safety hazard	Training (troop movement)	Soil erosion	Loss of soil due to erosion caused by troop movement	Subset of training areas: those with ground troops and troop vehicles; range camps	Sensitive soils (NRCS SSURGO)
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Construction (impervious surface)	Stormwater Runoff	Increase in stormwater runoff caused by increase in impervious surface	Impervious surface created by construction: building footprints, pavements	Stormwater infrastructure
Surface safety hazard	Developed Areas (concentrated activity/growth/urban)	Training (munitions)	Surface Hazard	Danger caused by UXO or bombing activities	Firing points; bombing ranges; SDZ; impact areas	Area in vicinity of geographic area of military cause
Cultural Resource	Surface safety hazard	Training (munitions)	TCP preservation	Damage or limited access to TCPs by munitions	Firing points; bombing ranges; SDZ; impact areas	TCP locations
Cultural Resource	Surface safety hazard	Training (off- road vehicles)	TCP preservation	Damage or limited access to TCPs by off-road vehicles	Subset of training areas: those with off road vehicle use	TCP locations
Cultural Resource	Surface safety hazard	Training (troop movement)	TCP preservation	Damage or limited access to TCPs by troop movement	subset of training areas: those with ground troops and troop vehicles; range camps	TCP locations
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Training (troop movement)	Traffic	Traffic congestion/roadway closure due to troop movement	subset of training areas: those with ground troops and troop vehicles; range camps	Roadways in vicinity of geographic area of military cause

Factor	Incompatible With	Cause by Military	Effect	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop increase	Traffic	Traffic congestion due to increased personnel traveling to Fort Bliss	Subset of highways and roads identified to provide access to Fort Bliss	Roadways in vicinity of geographic area of military cause
Water Resource	Developed Areas (concentrated activity/growth/urban)	Desalination injection well	Water/Surface Contamination	Contamination of water supplies due to desalination effluent	Desalination injection well sites	Water supply: wellfields, reservoirs, river, aquifer, desalination plant
Water Resource	Physical Infrastructure	Railway (creosote, impedance to drainage)	Water/Surface Contamination	Contamination of water supplies due to creosote on railway ties	Rail ROW	Water supply: wellfields, reservoirs, river, aquifer, desalination plant
Water Resource	Surface safety hazard	Training (munitions)	Water/Surface Contamination	Contamination of water supplies due to munitions materials	Firing points; bombing ranges; SDZ; impact areas	Water supply: wellfields, reservoirs, river, aquifer, desalination plant
Water Resource	Surface Contamination	Training (off- road vehicles)	Water/Surface Contamination	Contamination of water supplies due to vehicle fuel and soil erosion	Subset of training areas: those with off road vehicle use	Water supply: wellfields, reservoirs, river, aquifer, desalination plant
Water Resource		Training (troop movement)	Water/Surface Contamination	Contamination of water supplies due to soil erosion	Subset of training areas: those with ground troops and troop vehicles; range camps	Water supply: wellfields, reservoirs, river, aquifer, desalination plant

Factor	Incompatible With	Cause by Military	Effect	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Water Resource	Surface safety hazard	Use of Restricted Airspace	Water/Surface Contamination	Contamination of water supplies due to air to ground bombing munitions materials	Restricted airspace	Water supply: wellfields, reservoirs, river, aquifer, desalination plant

Factor	Incompatible With	Cause by Military	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Surface safety hazard	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation)	Aircraft Mishaps creating safety issues to communities	Clear Zones/APZs, airspace	Area in Vicinity of geographic area of military cause
Air Quality	Airspace (Non- Hazardous Activity)	Aircraft Operations & Training (Aviation)	Increase in greenhouse gasses due to aviation activities	Training Airspace Units	Air Basin
Air Quality	Surface safety hazard	Fugitive Dust emissions from Bombing	Decrease in air quality	Centennial Range, McGregor Range	Air Basin
Airspace (Non- Hazardous Activity)	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation)	Increasing difficulty using airspace for private and commercial flights	Training Airspace Units	Commercial/Public airspace
Airspace (Non- Hazardous Activity)	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation)	impacts to commercial operations at spaceport	Training Airspace Units	Commercial/Public airspace used by spaceport
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop Increase	Increase in personnel may decrease available housing	Proximity to installation/concentration of military personnel	Available real estate
Institutional Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop Fluctuations	Effects to local economy and services due to fluctuations in troops and therefore tax base	Proximity to installation/concentration of military personnel	Nearby communities and Otero County in proximity to installation/concentration of military personnel
Institutional Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop Increase	Decreased availability of public services such as law enforcement, fire-fighting, and medical services due to increased demands from personnel	Proximity to installation/concentration of military personnel	Nearby communities and Otero County in proximity to installation/concentration of military personnel
Institutional Infrastructure	Noise/vibration	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	decrease in real property value due to noise from military operations	Proximity to installation/concentration of military personnel	Real property in vicinity of Holloman

Factor	Incompatible With	Cause by Military	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
Institutional Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop Increase	Exceedance of school capacity due to additional enrollment by troop families	Proximity to installation/concentration of military personnel	Schools
Water Resource	Developed Areas (concentrated activity/growth/urban)	Troop Increase	Exceedance of water supply due to increased demand	Proximity to installation/concentration of military personnel	Water supply: well fields, reservoirs, river, aquifer, desalination plant
Institutional Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop Increase	Increased consumption of energy resources affecting local communities	Proximity to installation/concentration of military personnel	Utility infrastructure
Frequency Spectrum	Surface safety hazard	Electromagnetic radiation sources	Accidental detonation of explosives or fuels caused by EMI	Holloman AFB EMI sources	Fuel storage in Vicinity of geographic area of military cause
Wildfires	Airspace (Non- Hazardous Activity)	Aircraft Operations & Training (Munitions/Chaff and Flare Use)	Wildfire due to chaff used during training	Training Airspace Units	Area in Vicinity of geographic area of military cause
Wildfires	Surface safety hazard	Aircraft Operations & Training (Munitions/Chaff and Flare Use)	Wildfire due to munitions	Bombing ranges; SDZs	Area in Vicinity of geographic area of military cause
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop Increase	Exceedance of wastewater infrastructure capacity	Holloman AFB and downstream	Wastewater infrastructure
Protected Area	Airspace (Hazardous Activity)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Degradation of Otero Mesa due to mission activities	Training Airspace Units, McGregor Range, Centennial Range	Otero Mesa
Recreational Resource	Airspace (Hazardous Activity)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Decrease in solitude and value of existing recreation sites	Training Airspace Units, McGregor Range, Centennial Range	Recreation sites
Recreational Resource	Airspace (Hazardous Activity)	Aircraft Operations & Training (Aviation,	Impacts to recreation facilities such as ski lift	Holloman AFB, Training Airspace	Recreation sites

Factor	Incompatible With	Cause by Military	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
		Munitions/Chaff and Flare Use)	Gondolas, gaming locations, or the Spencer Theater		
Protected Area	Airspace (Hazardous Activity)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Annoyance/Damage to SULMAS	Training Airspace Units	SULMAs under airspace
Noise/vibration	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Annoyance due to Increase in noise levels	Training Airspace Units (general area); SEL noise contours (specific)	Incompatible land uses
Noise/vibration	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Disproportionate effects of noise on EJ populations	Training Airspace Units (general area); SEL noise contours (specific)	EJ populations
Noise/vibration	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Greater annoyance results from night-time noise	Subset of Training Airspace Units used for night time operations; noise contours	Incompatible land uses
Noise/vibration	Institutional Infrastructure	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Damage to water tanks used for grazing	Training Airspace Units (general area); SEL noise contours (specific)	Water tanks
Noise/vibration	Physical Infrastructure	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Damage to structures such as buildings, windmills, radio towers, etc.	Training Airspace Units (general area); SEL noise contours (specific)	Structures
Noise/vibration	Natural Resource	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Nest abandonment due to noise	Training Airspace Units (general area); SEL noise contours (specific)	Nests of T&E species
Noise/vibration	Institutional Infrastructure	Aircraft Operations & Training (Aviation, Munitions/Chaff and	Cracking of chicken eggs/decrease in hatchability due to noise	Training Airspace Units (general area); SEL noise contours (specific)	Chicken operations

Factor	Incompatible With	Cause by Military	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
		Flare Use)			
Noise/vibration	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Startle response in privately owned animals	Training Airspace Units (general area); SEL noise contours (specific)	Animal pens/grazing areas
Noise/vibration	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Sonic booms effects on communities, residential areas	Supersonic airspace with buffer distance (10 nautical miles- assumption)	Developed areas Residential areas Communities Isolated homes Urban development areas
Noise/vibration	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Noise and startle effects on residents from low- level fast moving aircraft	MTRs; MOAs with low minimum altitudes; restricted airspace to surface outside DoD boundaries.	Residential areas Subdivisions Communities Isolated homes
Natural Resource	Surface safety hazard	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Soil erosion due to surface disturbance	Training Airspace Units, McGregor Range, Centennial Range	Sensitive soils
Surface safety hazard	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	UXO due to operations mishaps	Training Airspace Units	Area in Vicinity of geographic area of military cause
Surface safety hazard	Developed Areas (concentrated activity/growth/urban)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Surface hazard from munitions storage or use	QD areas; SDZs outside military boundaries	
Cultural Resource	Surface safety hazard	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Damage to TCP due to noise/vibrations/munitions	Training Airspace Units (general area); SEL noise contours (specific); bombing ranges; SDZs	ТСР

Factor	Incompatible With	Cause by Military	Specific Issue	Military Geographic Surrounding GIS for area/GIS data for Cause Affected area			
Cultural Resource	Airspace (Hazardous Activity)	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Decrease in TCP quality due to visual presence of aircraft	Training Airspace Units	ТСР		
Physical Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop Increase	Traffic congestion due to increased personnel traveling to Holloman	subset of highways and roads identified to provide access to Holloman	Roadways in vicinity of geographic area of military cause		
Institutional Infrastructure	Developed Areas (concentrated activity/growth/urban)	Troop Increase	Arnold Avenue school bus stop safety	subset of highways and roads identified to provide access to Holloman	School bus stops in vicinity of geographic area of military cause		
Natural Resource	Surface safety hazard	Aircraft Operations & Training (Munitions/Chaff and Flare Use)	Soil contamination from munitions debris or chaff materials	Training Airspace Units	Area in Vicinity of geographic area of military cause		
Water Resource	Surface safety hazard	Aircraft Operations & Training (Munitions/Chaff and Flare Use)	Water contamination from munitions debris or chaff materials	Holloman AFB	Area in Vicinity of geographic area of military cause		
Airspace (Non- Hazardous Activity)	Natural Resource	Aircraft Operations & Training (Munitions/Chaff and Flare Use)	Aircraft mishap due to Wildlife Strike Hazard	Clear Zones/APZs	Area in Vicinity of geographic area of military cause		
Airspace (Non- Hazardous Activity)	Natural Resource	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Habitat loss/disturbance to critical habitat/special-status species	Training Airspace Units	T&E species habitat		
Airspace (Non- Hazardous Activity)	Natural Resource	Aircraft Operations & Training (Aviation, Munitions/Chaff and Flare Use)	Game-species Annoyance resulting in effects to Mescalero economy	Training Airspace Units, Dona Ana Range, McGregor Range	Game species habitat		
Developed Areas (concentrated	Natural Resource	Construction	Demolition of buildings could negatively affect	Construction/Demolition sites	Bat populations		

Factor	Incompatible With	Cause by Military	Specific Issue	Military Geographic area/GIS data for Cause	Surrounding GIS for Affected area
activity/growth/urban)			resident bat populations		
Airspace (Non- Hazardous Activity)	Natural Resource	Aircraft Operations & Training (Munitions/Chaff and Flare Use)	Negative effects to transient, migratory threatened, endangered, and sensitive species	Holloman AFB arrival and departure tracks MTRs MOAs	Migratory avian routes Waterfowl areas Refuges Wetland areas Landfills
Airspace (Non- Hazardous Activity)	Airspace (Hazardous Activity)	Aircraft Operations & Training (Munitions/Chaff and Flare Use)	Potential collision with low-flying aircraft	APZs/CZs around airfields, low-level MTRs, Restricted airspace to surface; SDZs outside military boundary	VFR and IFR routes Residential areas, homesites Areas with concentrated activity
Airspace (Non- Hazardous Activity)	Obstacles/Structures	Aircraft Operations & Training (Munitions/Chaff and Flare Use)	Potential collision with low-flying aircraft	APZs/CZs around airfields, low-level MTRs, Restricted airspace to surface	Energy infrastructure Planned utility corridors Transmission lines (above ground)

Appendix G - Department of Defense Land Use Compatibility Guide	elines

Appendix G - Land Use Compatibility Table

Land Use	Compatibility Guidelines							
		ACCIDENT P	OTENTIAL	ZONES	ı	IOISE ZOI	NES (dB)	
	LAND USE	CLEAR ZONE	APZ 1	APZ 2	65-69	70-74	75-79	80+
10	Residential							
11	Household units							
11.11	Single units; detached	N	N	Υ1	A ¹¹	B ¹¹	N	N
11.12	Single units; semi detached	N	N	N	A ¹¹	B ¹¹	N	N
11.13	Single units; attached row	N	N	N	A ¹¹	B ¹¹	N	N
11.21	Two units; side-by-side	N	N	N	A ¹¹	B ¹¹	N	N
11.22	Two units; stacked	N	N	N	A ¹¹	B ¹¹	N	N
11.31	Apartments; walk up	N	N	N	A ¹¹	B ¹¹	N	N
11.32	Apartments; elevator	N	N	N	A ¹¹	B ¹¹	N	N
12	Group quarters	N	N	N	A ¹¹	B ¹¹	N	N
13	Residential hotels	N	N	N	A ¹¹	B ¹¹	N	N
14	Mobile home parks or courts	N	N	N	N	N	N	N
15	Transient lodgings	N	N	N	A ¹¹	B ¹¹	C ¹¹	N
16	Other residential	N	N	N ¹	A ¹¹	B ¹¹	N	N
20	Manufacturing							
21	Food & kindred products; manufacturing	N	N2	Υ	Υ	Y12	Y13	Y14
22	Textile mill products; manufacturing	N	N2	Υ	Υ	Y12	Y13	Y14
23	Apparel and other finished products made from fabrics, leather, and similar materials; manufacturing	N	N	N2	Y	Y12	Y13	Y14
24	Lumber and wood products (except furniture); manufacturing	N	Y2	Υ	Υ	Y12	Y13	Y14
25	Furniture and fixtures; manufacturing	N	Y2	Υ	Υ	Y12	Y13	Y14
26	Paper & allied products; manufacturing	N	Y2	Υ	Υ	Y12	Y13	Y14
27	Printing, publishing, and allied industries	N	Y2	Υ	Υ	Y12	Y13	Y14
28	Chemicals and allied products; manufacturing	N	N	N2	Υ	Y12	Y13	Y14
29	Petroleum refining and related industries	N	N	N	Υ	Y12	Y13	Y14
30	Manufacturing							
31	Rubber and miscellaneous plastic products	N	N2	N2	Υ	Y12	Y13	Y14
32	Stone, clay and glass products	N	N2	Υ	Υ	Y12	Y13	Y14
33	Primary metal industries	N	N2	Υ	Υ	Y12	Y13	Y14
34	Fabricated metal products	N	N2	Υ	Υ	Y12	Y13	Y14
35	Professional and scientific instruments	N	N	N2	Υ	Α	В	N
39	Miscellaneous manufacturing	N	Y2	Y2	Υ	Y12	Y13	Y14
40	Transportation, communications and utilities							
41	Railroad, rapid rail transit and street railroad transportation	N3	Y4	Υ	Υ	Y12	Y13	Y14
42	Motor vehicle transportation	N3	Υ	Υ	Υ	Y12	Y13	Y14
43	Aircraft transportation	N3	Y4	Υ	Υ	Y12	Y13	Y14

Appendix G - Land Use Compatibility Table

LAND USE CLEAR ZONE APZ 1 APZ 2 65-69 70-74 75-79 80-4 80-4 80-4 80-4 80-5 80-5 80-6	Land Use Compatibility Guidelines									
Marine craft transportation			ACCIDENT F	ACCIDENT POTENTIAL ZONES			NOISE ZONES (dB)			
Martine craft transportation		LAND USF		APZ 1	APZ 2	65-69	70-74	75-79	80+	
45	44	Marine craft transportation	N3	Y4	Y	Υ	Y12	Y13	Y14	
Automobile parking	45			Υ	Υ	Υ			Y14	
A			N3	Y4	Υ				Y14	
Mail									N	
49	48	Utilities	N3	Y4	Υ	Υ	Υ		Y13	
Section	49		N3	Y4	Y	Υ	A15	B15	Н	
52 Retail trade-building materials, hardware and farm equipment N Y2 Y Y 12 Y13 Y15 53 Retail trade-general merchandise N N N2 Y2 Y A B N 54 Retail trade-food N N N2 Y2 Y A B N 55 Retail trade-automotive, marine craft, aircraft and accessories N N2 Y2 Y A B N 56 Retail trade-automotive, marine craft, aircraft and accessories N N2 Y2 Y A B N 56 Retail trade-automotive, marine craft, aircraft and accessories N N2 Y2 Y A B N 57 Retail trade-furniture, home furnishings and equipment N N2 Y2 Y A B N 58 Retail trade-furniture, home furnishings and equipment N N2 Y2 Y A B N 59 Other retail trade N N N Y2 Y A B N <	50	Trade								
Section	51	Wholesale trade	N	Y2	Υ	Υ	Y12	Y13	Y14	
Setall trade- food N N N2 Y2 Y A B N N N2 N2 Y2 Y A B N N N2 N2 N2 N2 N A B N N N2 N2 N2 N2 N A B N N N2 N2 N2 N2 N A B N N N2 N2 N2 N2 N A B N N N2 N2 N2 N2 N A B N N N2 N2 N2 N2 N A B N N N2 N2 N2 N2 N A B N N N2 N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N2 N A B N N N2 N2 N A B N N N N2 N2 N A B N N N N N N N N N N N N N N N N N	52		N	Y2	Y	Υ	Y12	Y13	Y14	
Retail trade- automotive, marine craft, aircraft and accessories 8 Retail trade- apparel and accessories 8 Retail trade- apparel and accessories 8 Retail trade- furniture, home furnishings and equipment 8 Retail trade- furniture, home furnishings and equipment 9 Retail trade- furniture, home furnishings and equipment 9 Retail trade- eating and drinking establishments 1 N N N N N N N N N N N N N N N N N N	53	Retail trade- general merchandise	N	N2	Y2	Υ	Α	В	N	
55 and accessories N Y2 Y2 Y A B N Retail trade- apparel and accessories N N2 Y2 Y A B N Retail trade- furniture, home furnishings and equipment Retail trade- furniture, home furnishings and N Retail trade- furniture, home furnishings and N Retail trade- furniture, home furnishings and N Retail trade- furniture, home furnishings and N Retail trade- furniture, home furnishings and N Retail trade- furniture, home furnishings and N Retail trade- furniture, home furnishings and N Retail trade- furniture, home furnishings and N N N N N N N N N N N N N	54	Retail trade- food	N	N2	Y2	Υ	А	В	N	
Retail trade- furniture, home furnishings and equipment N N2 Y2 Y A B N Retail trade- eating and drinking establishments N N N N2 Y2 A B N Other retail trade N N2 Y2 Y A B N Services In Finance, insurance and real estate services N N N Y6 Y A B N Cemeteries N NY7 Y7 Y Y Y12 Y12 Y12 Y12 Y12 Y12 Y12 Y12 Y12	55		N	Y2	Y2	Y	А	В	N	
57 equipment N N2 Y2 Y A B N 58 Retail trade- eating and drinking establishments N N N2 Y A B N 59 Other retail trade N N2 Y2 Y A B N 60 Services Services Services N N Y6 Y A B N 61 Finance, insurance and real estate services N N Y6 Y A B N 62 Personal services N N Y6 Y A B N 62.4 Cemeteries N Y7 Y7 Y7 Y12 Y12 </td <td>56</td> <td>Retail trade- apparel and accessories</td> <td>N</td> <td>N2</td> <td>Y2</td> <td>Υ</td> <td>А</td> <td>В</td> <td>N</td>	56	Retail trade- apparel and accessories	N	N2	Y2	Υ	А	В	N	
59 Other retail trade N N2 Y2 Y A B N 60 Services	57		N	N2	Y2	Υ	А	В	N	
60 Services 61 Finance, insurance and real estate services N N Y6 Y A B N 62 Personal services N N Y7 Y7 Y7 Y Y12 Y12 63 Business services N N Y8 Y8 Y A B N 64 Repair services N N Y2 Y Y Y12 Y13 Y1 65 Professional services N N N Y6 Y A B N 65.1 Hospitals, nursing homes N N N A* B* N 65.1 Other medical facilities N N N N A* B* N 65.1 Other medical facilities N N N N Y6 Y A B N 65.1 Governmental services N N N Y6 Y A B N 66 Contract construction services N N N Y6 Y A B N 67 Governmental services N N N Y6 Y A B N 68 Educational services N N N N A* B* N 69 Miscellaneous services N N N N A* B* N 70 Cultural, Entertainment and Recreational 71 Cultural activities (including churches) N N N N N N N N N N N 72 Public assembly N N N N N N N N N N N N N N N N N N N	58	Retail trade- eating and drinking establishments	N	N	N2	Υ	Α	В	N	
61 Finance, insurance and real estate services N N Y6 Y A B N 62 Personal services N N Y6 Y A B N 62.4 Cemeteries N Y7 Y7 Y Y12 Y13 Y1 66 Repair services N Y2 Y Y Y12 Y13 Y1 9 Y1 X1	59	Other retail trade	N	N2	Y2	Υ	А	В	N	
62 Personal services N N Y6 Y A B N 62.4 Cemeteries N Y7 Y7 Y Y12 Y13 Y14 Y15 Y15 <td>60</td> <td>Services</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	60	Services								
N	61	Finance, insurance and real estate services	N	N	Y6	Υ	Α	В	N	
62.4 Cemeteries N Y7 Y7 Y Y12 Y12 21 63 Business services N Y8 Y8 Y A B N N 94 Y12 Y13 Y14 Y15 Y15 Y16 Y Y12 Y13 Y14 Y15 Y16 Y Y12 Y13 Y14 Y15 Y16 Y16 Y17	62	Personal services	N	N	Y6	Υ	А	В	N	
64 Repair services N Y2 Y Y Y12 Y13 Y14 65 Professional services N N N Y6 Y A B N 65.1 Hospitals, nursing homes N N N N A* B* N N 65.1 Other medical facilities N N N N Y A B N 66 Contract construction services N Y6 Y Y A B N 67 Governmental services N N N N A* B* N 68 Educational services N N N N A* B* N 69 Miscellaneous services N N N N A* B* N 70 Cultural, Entertainment and Recreational 71 Cultural activities (including churches) N N N N N A* B* N 71.2 Nature exhibits N Y2 Y Y* N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N	62.4	Cemeteries	N	Y7	Y7	Υ	Y12	Y12	Y14, 21	
65 Professional services N N N Y6 Y A B N 65.1 Hospitals, nursing homes N N N N A* B* N N 65.1 Other medical facilities N N N N Y A B N 66 Contract construction services N Y6 Y Y A B N 67 Governmental services N N Y6 Y* A* B* N 68 Educational services N N N A* B* N N 69 Miscellaneous services N N N A* B* N N 70 Cultural, Entertainment and Recreational 71 Cultural activities (including churches) N N N N A* B* N N 71.2 Nature exhibits N Y2 Y2 Y N N N 72 Public assembly N N N N N N N N N N N N N N N N N N N	63	Business services	N	Y8	Y8	Υ	А	В	N	
65.1 Hospitals, nursing homes N N N N N N N N N N N N N N N N N N	64	Repair services	N	Y2	Υ	Υ	Y12	Y13	Y14	
65.1 Other medical facilities N N N N N N N N N N N N N N N N N N	65	Professional services	N	N	Y6	Υ	А	В	N	
66 Contract construction services N Y6 Y Y A B N 67 Governmental services N N N N Y6 Y* A* B* N N 68 Educational services N N N N N A* B* N N N 69 Miscellaneous services N N N N N N N N N N N N N N N N N N N	65.1	Hospitals, nursing homes	N	N	N	A*	B*	N	N	
67 Governmental services N N N Y6 Y* A* B* N 68 Educational services N N N N A* B* N N 69 Miscellaneous services N N N N Y2 Y2 Y A B N 70 Cultural, Entertainment and Recreational 71 Cultural activities (including churches) N N N N A* B* N N 71.2 Nature exhibits N N N N N N N N N N N N N N N N N N N	65.1	Other medical facilities	N	N	N	Υ	Α	В	N	
68 Educational services N N N A* B* N N 69 Miscellaneous services N N N2 Y2 Y A B N 70 Cultural, Entertainment and Recreational	66	Contract construction services	N	Y6	Υ	Υ	Α	В	N	
69 Miscellaneous services N N2 Y2 Y A B N 70 Cultural, Entertainment and Recreational 71 Cultural activities (including churches) N N N2 A* B* N N 71.2 Nature exhibits N Y2 Y Y* N N N 72 Public assembly N N N N N N N N N N N N N N N N N N N	67	Governmental services	N	N	Y6	Υ*	A*	B*	N	
70 Cultural, Entertainment and Recreational 71 Cultural activities (including churches) N N N2 A* B* N N 71.2 Nature exhibits N Y2 Y Y* N N N 72 Public assembly N N N N N N N N N N N N N N N N N N N	68	Educational services	N	N	N	A*	B*	N	N	
71 Cultural activities (including churches) N N N N N N N N N N N N N N N N N N N	69	Miscellaneous services	N	N2	Y2	Υ	А	В	N	
71.2 Nature exhibits N Y2 Y Y* N N N N 72 Public assembly N N N N N N N N N N N N N N N N N N N	70	Cultural, Entertainment and Recreational								
72 Public assembly N N N Y N N N N T N N N N N N N N N N N	71	Cultural activities (including churches)	N	N	N2	A*	B*	N	N	
72.1 Auditoriums, concert halls N N N A B N N	71.2	Nature exhibits	N	Y2	Y	γ*	N	N	N	
	72	Public assembly	N	N	N	Υ	N	N	N	
72.11 Outdoor music shell amphitheaters N N N N N N N N	72.1		N	N	N	А	В	N	N	
72.11 Outdoor music shell, amphitheaters	72.11	Outdoor music shell, amphitheaters	N	N	N	N	N	N	N	

Appendix G - Land Use Compatibility Table

Land Use Compatibility Guidelines								
		ACCIDENT F	POTENTIAL	ZONES	NOISE ZONES (dB)			
	LAND USE	CLEAR ZONE	APZ 1	APZ 2	65-69	70-74	75-79	80+
72.2	Outdoor sport arenas, spectator sports							
73	Amusements	N	N	Y8	Υ	Υ	N	N
74	Recreational activities (including golf courses, riding stables, water recreation)	N	Y8, Y9, Y10	Υ	γ*	A*	B*	N
75	Resorts and group camps	N	N	N	Υ*	γ*	N	N
76	Parks	N	Y8	Y8	Y*	Υ*	N	N
79	Other cultural, entertainment and recreation	N	Y9	Y9	Y*	Υ*	N	N
80	Resources production and extraction							
81	Agriculture (except livestock)	Y16	Y	Y	Y18	Y19	Y20	Y20, 21
81.5- 81.7	Livestock farming and animal breeding	N	Υ	Y	Y18	Y19	Y20	Y20, 21
82	Agricultural related activities	N	Y5	Υ	Y18	Y19	Y20	N
83	Forestry activities and related services	N5	Υ	Υ	Y18	Y19	Y20	Y20, 21
84	Fishing activities and related services	N5	Y5	Υ	Υ	Υ	N	Υ
85	Mining activities and related services	N	Y5	Υ	Υ	Υ	N	Υ