



*Melrose 2003*  
**DEPARTMENT OF THE AIR FORCE**  
HEADQUARTERS AIR COMBAT COMMAND  
LANGLEY AIR FORCE BASE VIRGINIA

26 AUG 2003

MEMORANDUM FOR ALL INTERESTED GOVERNMENT AGENCIES, INDIVIDUALS,  
ORGANIZATIONS, AND PUBLIC AND ACADEMIC REFERENCE  
LIBRARIES

FROM: HQ ACC/CEVP  
129 Andrews Street, Suite 102  
Langley AFB VA 23665-2769

SUBJECT: Final Environmental Assessment (EA) for Use of White Phosphorous Rockets at  
Melrose Air Force Range, Cannon AFB, NM

1. We are pleased to provide you with the Final Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) for use of white phosphorous rockets at Melrose Air Force Range in compliance with the regulations of the President's Council on Environmental Quality. The document is also available on the Cannon AFB website at [www.cannon.af.mil](http://www.cannon.af.mil). This EA analyzes impacts from the proposed rocket use in support of Cannon AFB's Combat Search and Rescue mission. The unique characteristics of white phosphorous rockets permit aircrews to train for realistic rescue operations and target location exercises in support of the Aerospace Expeditionary Force.
2. Libraries are requested to file this document for public access and reference.

If additional information is needed, please contact:

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GILBERT N. BURNET, P.E.  
Chief, Environmental Analysis Branch

Attachment  
Final EA and FONSI

**LIBRARY COPY**

# Environmental Assessment for the Use of White Phosphorus Rockets at Melrose Air Force Range, New Mexico



**Air Combat Command  
August 2003**

## ACRONYMS AND ABBREVIATIONS

27 FW	27th Fighter Wing	LANTIRN	Low Altitude Navigation and Targeting Infrared for Night
27 OSS/OSTW	27th Operations Support Squadron/Operations Support Tactical Wing	LATR	Low Angle Tactical Rocket
AAA	anti-aircraft artillery	mg/m <sup>3</sup>	milligrams per cubic meter
AAQS	ambient air quality standards	MK 66	Mark 66
AEF	Aerospace Expeditionary Force	mm	millimeter
AFB	Air Force Base	mph	miles per hour
AFI	Air Force Instruction	MSL	mean sea level
AFR	Air Force Range	MTR	Military Training Route
AGL	above ground level	NAAQS	National Ambient Air Quality Standards
Air Force	United States Air Force	NAS	National Airspace System
AIRFA	American Indian Religious Freedom Act	NEPA	National Environmental Policy Act
AR	Aerial Refueling Track	NHPA	National Historic Preservation Act
ARTCC	Air Route Traffic Control Center	NMDGF	New Mexico Department of Game and Fish
ATC	Air Traffic Control	NO <sub>2</sub>	nitrogen dioxide
ATCAA	Air Traffic Control Assigned Airspace	NPDES	National Pollutant Discharge Elimination System
AUM	animal unit month	NRHP	National Register of Historic Places
BASH	Bird-Aircraft Strike Hazard	NWR	National Wildlife Refuge
C	Celsius	O <sub>3</sub>	ozone
CAA	Clean Air Act	P.L.	Public Law
CATEX	categorical exclusion	P <sub>4</sub> O <sub>10</sub>	phosphorus pentoxide
CEQ	Council on Environmental Quality	P <sub>4</sub> O <sub>6</sub>	phosphorus trioxide
CFR	Code of Federal Regulations	Pb	lead
CO	carbon monoxide	PCPI	per capita personal income
CSAR	Combat Search and Rescue	PM <sub>10</sub>	particulate matter less than 10 micrometers in diameter
DoD	Department of Defense	PSD	Prevention of Significant Deterioration
EA	Environmental Assessment	RCO	Range Control Officer
EBS	Environmental Baseline Survey	RCRA	Resource Conservation and Recovery Act
EIAP	Environmental Impact Analysis Process	ROI	region of influence
EIS	Environmental Impact Statement	SEAD	Suppression of Enemy Air Defenses
EO	Executive Order	SHPO	State Historic Preservation Office
EOD	explosive ordnance disposal	SIP	State Implementation Plan
ESA	Endangered Species Act	SO <sub>2</sub>	sulfur dioxide
F	Fahrenheit	SUA	Special Use Area
FAA	Federal Aviation Administration	U.S.	United States
FL	Flight Level	USACE	United States Army Corps of Engineers
FONSI	Finding of No Significant Impact	USC	United States Code
GFAC/ETAC	Ground Forward Air Controller/Enlisted Tactical Air Controller	USEPA	United States Environmental Protection Agency
GIS	Geographic Information System	USFWS	United States Fish and Wildlife Service
H <sub>2</sub> S	hydrogen sulfide		
H <sub>3</sub> PO <sub>4</sub>	orthophosphoric acid		
H <sub>4</sub> P <sub>2</sub> O <sub>7</sub>	pyrophosphoric acid		
H <sub>5</sub> P <sub>3</sub> O <sub>10</sub>	triphosphoric acid		
HAP	hazardous air pollutant		
HATR	High Angle Tactical Rocket		
IICEP	Interagency and Intergovernmental Coordination for Environmental Planning		
IR	Infra Red		