

APPENDIX F

CONSULTATION



United States Department of the Interior

NATIONAL PARK SERVICE

MIDWEST REGION

1709 JACKSON STREET

OMAHA, NEBRASKA 68102-2571

IN REPLY REFER TO:

ER-00/454

JUL 5 2000

Ms. Sheryl Parker
HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley Air Force Base, VA 23665

Dear Ms. Parker:

The National Park Service (NPS) has reviewed the Department of the Air Force's notice of intent to prepare an environmental evaluation to determine potential impacts of "bedding down" unmanned aerial vehicles at a main operating base. The project is referred to as the "Global Hawk Remote Operated Aircraft System." We would like to bring the items discussed below to your attention for consideration in preparing the environmental evaluation.

Two of the bases under consideration as potential beddown locations are Ellsworth Air Force Base (South Dakota) and Wright-Patterson Air Force Base (Ohio). Both of these are in close proximity to units of the National Park System. In fact, a portion of Dayton Aviation Heritage National Historical Park is located on the Wright-Patterson Air Force Base (AFB).

Dayton Aviation Heritage National Historical Park was authorized by the Dayton Aviation Heritage Preservation Act of 1992 (106 Stat. 2141-2143). The park is a new and developing multi-unit area established to commemorate the legacy of the Wright brothers and poet and author Paul Laurence Dunbar and their association with the greater Dayton region. Operation of the park is a partnership that involves four legislatively mandated partners (the NPS, Wright-Patterson AFB, the Ohio Historical Society, and Carillon Historical Park).

The Huffman Prairie Flying Field unit of the park is designated as a National Historic Landmark, and is located within Area A of Wright-Patterson AFB (occupying about 84 acres adjacent to the Huffman Prairie). The Interpretive Center for the Flying Field is located at Wright Brothers Hill within Area B of the base (slightly less than two miles from the Flying Field).

In evaluating Wright-Patterson AFB for assignment of the Global Hawk mission, we ask you consider the following issues:

- (1) The cultural values associated with the Huffman Prairie Flying Field must be protected. Please ensure that any proposed new development would be restricted from the Huffman Prairie Flying Field or its immediate vicinity.
- (2) The public must continue to have access to, and use of, the Huffman Prairie Flying Field.

Ellsworth AFB is located about forty miles north-northwest of Badlands National Park. Badlands National Park consists of nearly 244,000 acres of sharply eroded buttes, pinnacles and spires blended with the largest, protected mixed grass prairie in the United States. Sixty-four thousand acres are designated official wilderness. Although the park is some distance from the AFB, it is proximate to some of the base's flight lines.

In evaluating Ellsworth AFB for assignment of the Global Hawk mission, we ask you to consider the impacts that would be created from recovery operations should an unmanned aerial vehicle experience an uncontrolled descent within the Badlands Wilderness.

If you have questions or require additional information concerning Dayton Aviation Heritage National Historical Park, please contact Mr. Lawrence Blake, Superintendent, at 937-225-7705. If you have questions or require additional information concerning Badlands National Park, please contact Mr. William Supernaugh, Superintendent, at 605-433-5361, extension 280.

We look forward to reviewing the environmental evaluation when it is available. Thank you for the opportunity to provide these comments.

Sincerely,



William W. Schenk
Regional Director

cc: DOI-OEPC (Havran)
REO-PHI
REO-DEN
WASO-2310
Superintendent, Dayton Aviation
Superintendent, Badlands

July 14, 2000

CHERYL PARKER
HQ ACC/CEVP
129 ANDREWS STREET SUITE 102
LANGLEY AFB VA 23665-2769

SECTION 106 PROJECT CONSULTATION - IDENTIFICATION/EVALUATION

Project: 000616003F - Ellsworth AFB - Global Hawk Beddown Site

Location: Meade County
(USAF)

Dear Ms. Parker:

Thank you for the opportunity to comment on the above referenced project pursuant to Section 106 of the National Historic Preservation Act (NHPA) of 1966 (as amended).

Based on the information provided in your letter received on June 16, 2000, the State Historic Preservation Officer has the following general recommendations regarding compliance with Section 106 of the NHPA for the proposed undertaking at Ellsworth Air Force Base.

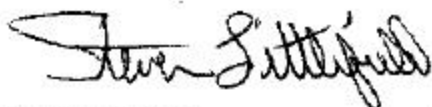
All areas of new ground disturbance will require an archaeological records check and an on-the-ground archaeological survey. Any structures that may be modified or removed as a part of this undertaking will need to be inventoried and evaluated for eligibility for listing in the National Register of Historic Places (NRHP). Consideration should be given to preserving the existing historic structures on Ellsworth Air Force Base.

Concurrence of the State Historic Preservation Office does not relieve the federal agency official from consulting with other appropriate parties, as described in 36CFR Part 800.2(c).

Should you require any additional information, please do not hesitate to contact Steven Littlefield, Review & Compliance Coordinator, at (605) 773-6004. Your concern for the non-renewable cultural heritage of our state is appreciated.

Sincerely,

Jay D. Vogt
State Historic Preservation Officer



Steven Littlefield
Review and Compliance Coordinator



Oklahoma Historical Society

Founded May 27, 1893

State Historic Preservation Office • 2704 Villa Prom • Shepherd Mall • Oklahoma City, OK 73107-2441

Telephone 405/521-6249 • Fax 405/947-2918

July 13, 2000

Mr. Alton Chavis
Chief, Environmental Analysis Branch
HQ ACC/CEVP
129 Andrews St., Suite 102
Langlay AFB, VA 23665-2769

RE: File #1974-00; Proposed Global Hawk Beddown Project at Tinker
Air Force Base, Midwest City, Oklahoma

Dear Mr. Chavis:

We have reviewed the documentation relating to the referenced project. We have no objection to the continued processing of this project. When specific areas to be impacted by construction are identified, we request that you provide documentation in accordance with 36-CFR-800 to our office.

When we have received and reviewed the documentation, we will issue an opinion as to the effect of the program on Oklahoma's cultural and historical resources. We appreciate your cooperation in the effort to identify and preserve the cultural heritage of Oklahoma. Please reference the above underlined file number when responding.

If you have any questions, please contact Mr. Marshall Gettys, Historical Archaeologist, at 405/521-6381. Thank you.

Sincerely,

Melvena Heisch
Deputy State Historic
Preservation Officer

MH:pm



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

MEMORANDUM FOR See Distribution

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

SUBJECT: Global Hawk Main Operating Base Beddown

1. In June, 2000 the United States Air Force (Air Force) initiated an Environmental Assessment (EA) for the proposed beddown of the unmanned aerial vehicle, Global Hawk. This proposal involves basing 18 of these high-altitude, long-endurance, unmanned reconnaissance aircraft at a yet to be determined Air Force base within the contiguous United States, constructing associated facilities within developed areas of the base, and employing between 400 to 800 new personnel. With the exception of take offs and landings, the Global Hawk's flight time would be spent above 60,000 feet Mean Sea Level (MSL). Five Air Force bases are being considered as potential beddown locations: Beale AFB CA, Edwards AFB CA, Ellsworth AFB SD, Tinker AFB OK, and Wright-Patterson AFB OH. The Air Force anticipates approximately 12 sorties would occur per week.

2. Pursuant to the Endangered Species Act and National Environmental Policy Act we must consider potential impacts of the proposed action to federally listed threatened, endangered, candidate, and proposed to be listed species that occur or may occur in the potentially affected area. This area can be defined as the areas on the base potentially affected by construction and those lands under the flight path where the Global Hawk would fly below 2,000 feet AGL (within approximately 5 miles of the runway). We have received species information from the Natural Heritage Inventory and state departments of Natural Resources. We would like to confirm these lists (see Attachment) with your office. Please provide your response to: Ogden Environmental and Energy Services, Global Hawk EA, 910 Main Street, Suite 352, Boise, Idaho 83702. Until the extent of the potential impact to species is determined, no determination regarding the need for Section 7 Consultation will be made.

3. If you have any specific concerns about the Global Hawk Beddown proposal, please contact Ms. Sheryl Parker at HQ ACC/CEVPP, 129 Andrews Street, Suite 102, Langley AFB VA 23665-2769, (757) 764-9334. Thank you for your assistance in this matter.

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachments:

1. Threatened and Endangered Species List
2. Distribution List

Global Power For America

Threatened and Endangered Species Located within Base Areas (Page 1 of 2)

Base	Name		Status		Habitat
	Scientific	Common	Federal	State	
Beale	<i>Falco peregrinus</i>	Peregrine Falcon		E	Open areas for foraging with cliffs or other vertical components
	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	E	Larger rivers and lakes, coastlines
	<i>Laterallus jamaicensis</i>	Black Rail		T	Inland it prefers brackish or freshwater marshes
	<i>Oncorhynchus mykiss</i>	Central Valley Steelhead	T		Perennial and intermittent streams
	<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	PT		Central Valley below natural and human-made barriers in perennial and intermittent streams
	<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	T		Vernal pools
	<i>Lepidurus packardii</i>	Vernal Pool Tadpole Shrimp	E		Vernal pools
Edwards	<i>Falco peregrinus</i>	Peregrine Falcon		E	Open areas for foraging with cliffs or other vertical components
	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	E	Large bodies of water on base such as Piute Ponds
	<i>Spermophilus mohavensis</i>	Mohave Ground Squirrel		T	Desert scrub and alluvial valleys of the Mohave Desert
	<i>Xerobates agassizii</i>	Desert Tortoise	T	T	Arid and semi-arid deserts with soils suitable for burrowing
Ellsworth	<i>Cynomys ludovicianus</i>	Black-Tailed Prairie Dog	C		Open prairies or grasslands
Tinker	No T and E Species observed on Base				
Wright-Patterson	<i>Myotis sodalis</i>	Indiana Bat	E	E	Caves, behind loose bark
	<i>Bartamia longcarda</i>	Upland Sandpiper		T	Grasslands, prairies
	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	E	Larger rivers and lakes, coastlines
	<i>Cistothorus platensis</i>	Sedge Wren		E	Sedge meadows, wet prairies, grassy border of wetland
	<i>Falco peregrinus</i>	Peregrine Falcon		E	Open areas for foraging with cliffs or other vertical components
	<i>Pandion haliaetus</i>	Osprey			Large rivers and lakes, coast
	<i>Rallus elegans</i>	King Rail		E	Freshwater swamps and marshes
	<i>Sterna hirundo</i>	Common Tern		E	Near bodies of water
	<i>Sistrurus cateratus</i>	Eastern Massasauga (rattlesnake)		E	Wetlands, prairies, dry woodlands
	<i>Papaipema beeriana</i>	Beer's Noctuid		E	Prairie endemic-host plant <i>Liatris</i> spp.
	<i>Pleurobema clava</i>	Clubshell	E	E	Medium to large rivers with gravel or mixed gravel and sand
	<i>Myriophyllum verticillata</i>	Whorled Water Milfoil		E	Wetlands, swamps and lakes

E = Listed as Endangered
T = Listed as Threatened
C = Candidate for listing
PT = Proposed for threatened status
CDFG. 1999, 2000.

Sources:

USAF, 1999c, 1998a, 1999a, no date a, 1997b.
South Dakota Dept. of Game, Fish and Parks, 2000.
Oklahoma Natural Heritage Inventory, 2000.
Ohio Department of Natural Resources, 2000.
International Consultants Incorporated, 1999.

DISTRIBUTION LIST

Beale AFB CA

Mr Wayne S White, Field Supervisor
Ecological Services Field Office
2800 Cottage Way - Room W-2605
Sacramento CA 95825-1846

Edwards AFB CA

Mr Ken Berg, Field Supervisor
Ecological Services Field Office
2730 Loker Ave West
Carlsbad CA 92008

Ms Diane Noda, Field Supervisor
Ecological Services Field Office
2493 Portola Rd - Suite B
Ventura CA 93003

Ellsworth AFB SD

Mr Pete Gober, Field Supervisor
Ecological Services Field Office
420 S Garfield Ave - Suite 400
Pierre SD 57501

Tinker AFB OK

Mr Jerry Brabander, Field Supervisor
Ecological Services Field Office
222 S Houston - Suite A
Tulsa OK 74127-8909

Wright Patterson AFB OH

Mr Ken Lammers, Field Supervisor
Ecological Services Field Office
6950-H Americana Parkway
Reynoldsburg OH 43068-1432



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Jerry G. Haney
Principal Chief
Seminole Nation of Oklahoma
P.O. Box 1498
Wewoka OK 74884

Dear Mr. Haney

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

Briefly, the proposal involves basing up to 18 of these high-altitude, long-endurance, unmanned aircraft at an Air Force base within the continental United States, constructing associated facilities at the base, and employing between 500 to 800 personnel. With the exception of take offs and landings, the Global Hawk's flight time would be spent above 60,000 feet MSL. Five Air Force bases are being considered as potential beddown locations: Beale AFB, California, Edwards AFB, California, Ellsworth AFB, South Dakota, Tinker AFB, Oklahoma, and Wright-Patterson AFB, Ohio.

The proposed Global Hawk Beddown project could potentially affect those areas within Tinker AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.


ALTON CHAVIS
Chief, Environmental Analysis Branch

Atch: Global Hawk Information

Global Power For America



GLOBAL HAWK MAIN OPERATING BASE BEDDOWN

What is the Global Hawk?

The Global Hawk is unique from most aircraft because it is designed to fly by remote control. It is called an Unmanned Aerial Vehicle (UAV) and can fly at high altitudes (over 60,000 feet mean sea level) for over 30 hours. The Global Hawk is used to collect images of opposing interest movements, facilities, communication centers, and targets. The Global Hawk also has the ability to remain (or loiter) in a given area surveying the region and relay these images, in Near-Real Time (NRT), to the command center. The Global Hawk can fly day or night and in all types of weather conditions, making this aircraft essential to worldwide Air Force information and intelligence operations.

The Global Hawk has been undergoing several years of testing at Edwards Air Force Base (AFB) in an Advanced Concept Technology Demonstration (ACTD) project, scheduled to be completed in June 2000. When the Global Hawk MOB Beddown environmental analysis is completed, the initial operational base for the aircraft shall be determined. Five bases are currently being considered for the initial beddown including: Beale and Edwards AFBs in California; Ellsworth AFB, South Dakota; Tinker AFB, Oklahoma; and Wright-Patterson AFB, Ohio.

What is the Global Hawk Beddown?

The Global Hawk MOB beddown would include:

- beddown 18 primary aircraft at a main operating base,
- increasing personnel by 400 to 800, and
- constructing facilities such as hangars, squadron operations buildings, and dormitories on the base.

The first four (4) aircraft would begin to arrive by the Fall of 2001. More aircraft would arrive annually for a maximum of 60.

Manpower: Two possibilities are being considered to fulfill manpower requirements for the Global Hawk program. The first case involves the use of contractor support, the second will use Air Force personnel logistical support.

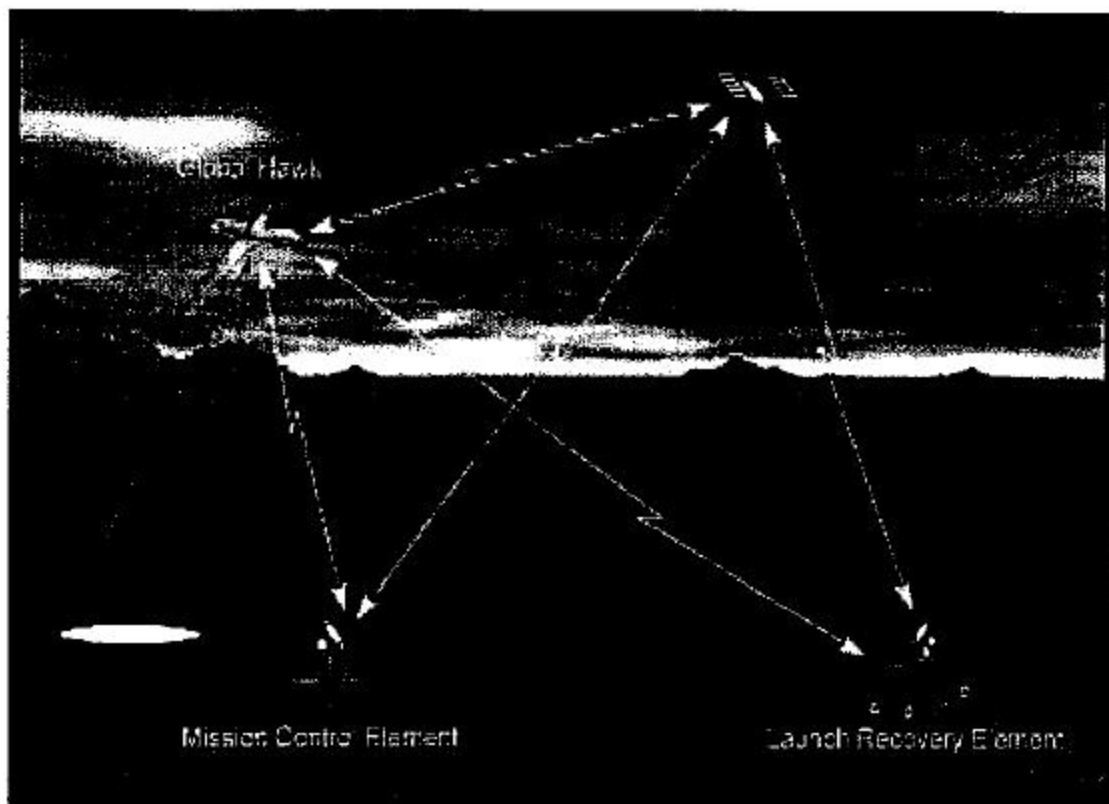
Facilities: Facilities that have been identified to support long term beddown of the Global Hawk program include: hangars, apron space on the flight line, training classrooms, squadron operations, maintenance bays, storage areas, communications buildings, radar pad, dormitory space, and family housing units. Depending on the base chosen, the amount of construction undertaken would differ due to the type and extent of existing infrastructure. These facilities would provide adequate space for the primary assigned aircraft and common ground stations as well as manpower to support two operational squadrons.

What does the Global Hawk System include?

Each Global Hawk system is composed of:

- an *air vehicle segment*: Includes the Global Hawk aircraft with radar, sensors, cameras, software, avionics, as well as line of sight and satellite communication datalinks;
- a *common ground segment [CGS]*: Consists of a launch and recovery element (LRE) and a mission control element (MCE) with embedded ground communications equipment—these facilities support the personnel and equipment that fly the aircraft, communicate with air traffic controllers, and download data and images from the aircraft; and
- a *support segment and trained personnel*: Maintain and fly the aircraft.

The Global Hawk System



If you have any questions or would like more information, please contact Ms. Sheryl Parker at:
HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2769



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Leaford Bearskin
Chief
Wyandotte Tribe of Oklahoma
P.O. Box 250
Wyandotte OK 74370

Dear Mr. Bearskin

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

Briefly, the proposal involves basing up to 18 of these high-altitude, long-endurance, unmanned aircraft at an Air Force base within the continental United States, constructing associated facilities at the base, and employing between 500 to 800 personnel. With the exception of take offs and landings, the Global Hawk's flight time would be spent above 60,000 feet MSL. Five Air Force bases are being considered as potential beddown locations: Beale AFB, California, Edwards AFB, California, Ellsworth AFB, South Dakota, Tinker AFB, Oklahoma, and Wright-Patterson AFB, Ohio.

The proposed Global Hawk Beddown project could potentially affect those areas within Wright-Patterson AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information *Global Power For America*



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Ms. Jessica Tavares
President
United Auburn Indian Community
661 Newcastle Road, Suite 1
Newcastle CA 95658

Dear Ms. Tavares:

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Beale AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Nicolas J. Padilla
Chairperson
Susanville Indian Rancheria
796 Joaquin Street
Susanville CA 96130

Dear Mr. Padilla

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information *Global Power For America*



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Charles W. Murphy
President
Standing Rock Sioux Tribe
P.O. Box D
Fort Yates ND 58538

Dear Mr. Murphy

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Ellsworth AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. W. David Murray, Sr.
Chairperson
Shingle Springs Band of Miwok Indians
P.O. Box 1340
Shingle Springs CA 95682

Dear Mr. Murray

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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Sincerely

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Deron Marquez
Chairperson
San Manuel Band of Serrano Mission Indians
P.O. Box 266
Patton CA 92369

Dear Mr. Marquez

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Edwards AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. William Kindle
President
Rosebud Sioux Tribe
P.O. Box 430
Rosebud SD 57520

Dear Mr. Kindle

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

Briefly, the proposal involves basing up to 18 of these high-altitude, long-endurance, unmanned aircraft at an Air Force base within the continental United States, constructing associated facilities at the base, and employing between 500 to 800 personnel. With the exception of take offs and landings, the Global Hawk's flight time would be spent above 60,000 feet MSL. Five Air Force bases are being considered as potential beddown locations: Beale AFB, California, Edwards AFB, California, Ellsworth AFB, South Dakota, Tinker AFB, Oklahoma, and Wright-Patterson AFB, Ohio.

The proposed Global Hawk Beddown project could potentially affect those areas within Ellsworth AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Charles O. Tillman, Jr.
Principal Chief
Osage Tribe of Oklahoma
P.O. Box 779
Pawhuska OK 74056

Dear Mr. Tillman

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Tinker AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Harold Salway
President
Oglala Sioux Tribe
P.O. Box H
Pine Ridge SD 57770

Dear Mr. Salway

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Ellsworth AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. R. Perry Beaver
Principal Chief
Muscogee (Creek) Nation of Oklahoma
P.O. Box 580
Okmulgee OK 74447

Dear Mr. Beaver

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Tinker AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

Alton Chavis

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Ms. Marlene Cummings
Chairperson
Mooretown Rancheria of Maidu Indians
P.O. Box 1842
Oroville CA 95965

Dear Ms. Cummings

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Beale AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Ms. Angela Timmons
Chairperson
Greenville Rancheria of Maidu Indians
645 Antelope Blvd, Suite 12
Red Bluff CA 96080

Dear Ms. Timmons

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Beale AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Harvey Angle
Chairperson
Enterprise Rancheria of Maidu Indians
2950 Feather River
Oroville CA 95965

Dear Mr. Angle

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Beale AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr Charles D. Envart
Chief
Eastern Shawnee Tribe of Oklahoma
P.O. Box 350
Seneca MO 64865

Dear Mr. Envart

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Wright-Patterson AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Leon Jones
Principal Chief, Qualla Boundary
Eastern Band of Cherokee Indians
P.O. Box 455
Cherokee NC 28719

Dear Mr. Jones

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above Mean Sea Level (MSL)) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Wright-Patterson AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address:
HQ ACC/CEVPP, 129 Andrews Street, Suite 102, Langley AFB VA 23665-2769, (757) 764-9334.

Alton Chavis

ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Dee Ketchum
Chief
Delaware Tribe of Indians
220 NW Virginia Ave.
Bartlesville OK 74003

Dear Mr. Ketchum

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Wright-Patterson AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Sincerely

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. Gregg Bourland
Chairman
Cheyenne River Sioux Tribe
P.O. Box 590
Eagle Butte SD 57625

Dear Mr. Bourland

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Ellsworth AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. David Chaver
Chairman
Chemehuevi Indian Tribe
P.O. Box 1976
Havasup Lake CA 92363

Dear Mr. Chaver

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Edwards AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

1 SEP 2000

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

Mr. James Edwards
Chairman
Berry Creek Rancheria of Maidu Indians
#5 Tyme Way
Oroville CA 95965

Dear Mr. Edwards

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) for the proposed establishment or beddown of the unmanned aerial vehicle, Global Hawk, at an Air Force base in the continental U.S. The mission of the Global Hawk is unique from most Air Force aircraft because it is piloted remotely from a base or other ground facility. This unmanned aerial vehicle flies at high altitudes (over 60,000 feet above mean sea level [MSL]) for up to 36 hours. We are enclosing a fact sheet on the Global Hawk proposal for your information.

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The proposed Global Hawk Beddown project could potentially affect those areas within Beale AFB where facilities would be constructed. You will receive a copy of the draft EA for review and comment in the November timeframe of this year. If you have any questions or concerns about this proposal, please contact Ms. Sheryl Parker at the following address: HQ ACC/CEVP, 129 Andrews Street, Suite 102, Langley AFB, VA 23665, (757) 764-9334.

Alton Chavis
ALTON CHAVIS
Chief, Environmental Analysis Branch

Attachment:
Global Hawk Information

Global Power For America

rapid city area



chamber of commerce

P.O. Box 747, Rapid City, South Dakota 57709-0747
Phone: 605/343-1744 • FAX: 605/343-6550

August 11, 2000

HQ ACC/CEVP
Attn: Ms. Cheryl Parker
129 Andrews St. Ste. 102
Langley AFB, VA 23665-2769

Ms. Parker:

Please accept the enclosed resolution of support for the beddown of the Global Hawk mission at Ellsworth AFB, SD. We regret it is being submitted after the July 20, 2000 date, however, the West River Electric Association just submitted it as a document for inclusion in our community presentation.

Thanking you in advance for your consideration, we hope you will be able to consider it in your basing selection process. Please contact us with any questions or clarification you might have regarding the Greater Rapid City Area.

Sincerely,

Pat McElgunn, Director
Military Affairs Committee

Encl. 1



Offices Located in Rushmore Plaza Civic Center

West River Electric Association, Inc.
Wall and Rapid City, South Dakota

RESOLUTION

Support for Ellsworth Air Force Base and Global Hawk

WHEREAS, West River Electric Association, Inc. serves a 4,500 square mile area surrounding Ellsworth Air Force Base,

WHEREAS, As an electric utility who has provided electricity to the area around Ellsworth since 1942, we are prepared to accommodate this new mission as we did with generations of reconnaissance, bomber, tanker, command and control aircraft, and intercontinental ballistic missiles.

WHEREAS, Our environment is the one that will provide the conditions of uncongested airspace, low population densities, access to training ranges, centralized continental location, and interface with a Global Power strike capability not elsewhere available.

WHEREAS, the entire Black Hills area has received outstanding ratings for the quality of life we present to both our residents and the members of our nation's armed forces.

NOW, THEREFORE BE IT RESOLVED, West River Electric supports Global Hawk, along with our members of Congress, as a natural evolution of the use of our area to support our nation's defense. We have the area and Ellsworth has the facilities to easily blend the new mission into our daily lives.

BE IT FURTHER RESOLVED, that the Board of West River Electric Association, Inc. appreciates this opportunity to highlight our acceptance of such a mission and assure you that our company is totally supportive of your use of Ellsworth Air Force Base and the surrounding air space for Global Hawk.

CERTIFICATE OF SECRETARY

I, William Bielmaier, Secretary of the West River Electric Association, Inc. do hereby certify that the above resolution is a true and correct copy of the resolution adopted at a regular meeting of the Board of Directors of the Cooperative, said meeting being held on July 17, 2000, and that said resolution was not modified, corrected, or rescinded and that all of the members of the Board of Directors were present and took part in the meeting.

Dated this 17th day of July, 2000

(SEAL)


William Bielmaier, Secretary



United States Department of the Interior

FISH AND WILDLIFE SERVICE



Ecological Services
6950 Americana Parkway, Suite H
Reynoldsburg, Ohio 43068-4127
(614) 469-6923
Fax: (614) 469-6919

October 5, 2000



Ogden Environmental and Energy Services
Global Hawk EA
910 Main St., Suite 325
Boise, ID 83702

Dear Sir or Madame:

This is in response to the Department of the Air Force's September 1, 2000 letter regarding the proposed beddown of the unmanned aerial vehicle, Global Hawk. Eighteen of these aircraft are to be placed at a yet to be determined Air Force base within the United States. One of the proposed bases is the Wright-Patterson Air Force Base, located in Montgomery and Greene Counties, Ohio. This letter is to inform you of the Federally-listed threatened, endangered, and candidate species that may be located within the vicinity of the proposed site.

ENDANGERED SPECIES COMMENTS, MONTGOMERY COUNTY: The proposed project lies within the range of the Indiana bat, a Federally listed endangered species. Summer habitat requirements for the species are not well defined but the following are thought to be of importance:

1. Dead trees and snags (especially those with exfoliating bark) which may be used as maternity roost areas along riparian corridors.
2. Live trees (such as shagbark hickory) which have exfoliating bark.
3. Stream corridors, riparian areas, and nearby woodlots which provide forage sites.

Considering the above items, we recommend that if trees with exfoliating bark (which could be potential roost trees) are encountered on the proposed site, they should be saved wherever possible. If they must be cut, they should not be cut between April 15 and September 15.

If desirable trees are present and if the above time restriction is unacceptable, mist net or other surveys should be conducted to determine if bats are present. The survey should be designed and conducted in coordination with the endangered species coordinator for this office, Mr. Buddy Fazio. The survey should be conducted in June or July since the bats would only be expected in the project area from approximately April 15 to September 15.

The project area also lies within the range of the eastern massasauga, a docile rattlesnake that is declining throughout its national range. The massasauga is a Federal candidate species and an Ohio endangered species. We encourage early project coordination to avoid potential impacts to massasaugas or their habitat.

The massasauga is often found in or near wet areas, including wetlands, wet prairie, or nearby woodland or shrub edge habitat. Wet habitat and nearby edges are utilized by the snakes especially during spring and fall. Upland areas up to 1.5 miles away are utilized during summer, if available. If crayfish holes exist in a wet area, the massasauga may live there, too. Some project management ideas include the following:

1. At a minimum, project evaluations should contain delineations of whether or not massasauga habitat occurs within project boundaries. Descriptions should indicate the quality and amount of massasauga habitat that may be affected by the project.
2. In cases where massasaugas are known to occur or potential habitat is rated moderate to high, massasauga surveys may be necessary. If surveys are conducted, they should be performed during the period of Spring emergence from dens (usually a narrow window in April or May).
3. In portions of projects where massasaugas will be affected, clearing and construction activities should occur during Summer when air and ground temperatures are above 65° F. Massasaugas

are mobile during this period and are more likely to move to upland sites.

4. Maintenance activities (mowing, cutting, burning, etc.) should be conducted within the specified seasonal temperature periods described.

ENDANGERED SPECIES COMMENTS, GREENE COUNTY: The proposed project lies within the range of the Indiana bat and eastern massasauga. Please see above comments for habitat description and management recommendations.

The proposed project also lies within the range of the clubshell mussel, a Federally listed endangered species. The clubshell prefers clean streams and small rivers with coarse sand and/or gravel substrate. This species is known to occur in the Little Miami River, Greene County, Ohio.

Though it was indicated on the threatened and endangered species list from the Department of the Air Force that the bald eagle was located in this area, the United States Fish and Wildlife Service has no records for the bald eagle in either of these counties.

This technical assistance letter is submitted in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C.661 et seq.), the Endangered Species Act of 1973, as amended, and is consistent with the intent of the National Environmental Policy Act of 1969, and the U.S. Fish and Wildlife Service's Mitigation Policy.

If you have questions, or if we may be of further assistance in this matter, please contact Megan Sullivan at extension 21 in this office.

Sincerely,


for Kent E. Kroonemeyer
Supervisor

cc: DOW, Wildlife Environmental Section, Columbus, OH

