



DFRC Control Number:  
07-06

Instructions: Section I to be completed by Proponent; Sections II and III to be completed by the Safety, Health & Environmental Office as necessary. Reference appropriate item number(s).

### SECTION I - PROPONENT INFORMATION

1. To: Environmental Officer Safety, Health & Environmental Office	2. From: (Proponent organization, functional address symbol) Code PS	2a. Telephone No.: 2149
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3. Title of Proposed Action/Start Date:  
Global Hawk Air Vehicles 4/11/2007

4. Purpose and Need for Action: (Describe why you need to take this action. Continue in remarks if necessary)  
The transfer of two Global Hawk Air Vehicles from the Air Force to NASA Dryden is planned to take place by September 2007. The Global Hawk Air Vehicle provides performance that no other unmanned aircraft can match in terms of flight endurance, payload capability, and altitude range. The two NASA Global Hawk Air Vehicles are needed to host scientific equipment that would be used to gather research data.

5. Description of Proposed Action and Alternatives: (DOPAA) (Provide sufficient details for evaluation o the total action.)  
The two aircraft would be housed in Bay 1-3 of Hangar 4840. Existing aerospace ground equipment at Dryden would be used to maintain the Global Hawk Vehicles. The expected flight rate would be about two flights per month starting about mid fiscal year 2008. The operations of the Global Hawk Vehicles (landing and takeoffs) in the early years would be conducted at Edwards Air Force Base and flight paths would be conducted within the R2508 range.  
  
No other alternatives were considered for this action.

6. Proponent (Name): Chris Naftel	6a. Signature: 	6b. Date: 25 April 2007
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SECTION II: PRELIMINARY ENVIRONMENTAL ANALYSIS. (Check appropriate box and describe potential environmental effects and mitigations.) (+ = pos. effect; 0 = no effect; - = neg. effect; U = Unknown effect)	+	0	-	U
7. Noise (Source, intensity, duration, etc.)			x	
8. Air Quality (Emissions, attainment status, state implementation plan, etc.)			x	
9. Water Resources (Quality, quantity, source, etc.)		x		
10. Safety & Occupational Health (Asbestos/radiation/chemical exposure, explosives safe qty-distance, etc.)			x	
11. Hazardous Materials/Waste (Use, storage, generation, solid waste, etc.)			x	
12. Biological Resources (Wetlands, floodplains, flora, fauna, etc.)		x		
13. Cultural Resources (Native American burial sites, archeological, historical, etc.)		x		
14. Geology and Soils (Topography, minerals, geothermal, Superfund Program, seismicity, etc.)		x		
15. Socioeconomic (Employment/population projections, school and local fiscal impacts, etc.)		x		
16. Other (Potential impacts not addressed above.)				

### SECTION III - ENVIRONMENTAL ANALYSIS DETERMINATION

17.  Proposed action qualifies for categorical exclusion (CATEX) # 4.2.1 (3) ; or  
 Proposed action does not qualify for a CATEX; further environmental analysis is required.

18. Environmental Office Certification (Name): Dan M. Morgan	18a. Signature: 	18b. Date: 4-12-07
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19. Remarks: (Use additional sheets as necessary).

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IMPACT ANALYSIS AND PROJECT REQUIREMENTS:

**NOISE:** An increase in short-term, local noise levels produced by project activities would occur with varying intensity and duration. Noise impacts from this project would not be significant. Hearing conservation requirements and procedures contained in 29 CFR 1910.95 must be followed by all personnel working on this project.

**AIR QUALITY:** A short-term degradation of air quality may occur during the proposed project. These emissions will be minor and are well below the diminimus thresholds for non-attainment areas; therefore, a formal conformity determination is not required. Vehicle emissions from additional personnel required for temporary duty are exempt under 40 CFR 51.853(c)(2)(vii) & (x) and were not evaluated. Air quality impacts from this project would not be significant.

**SAFETY AND OCCUPATIONAL HEALTH:** All applicable laws, regulations, and standard procedures shall be followed for project activities. Hazard risk reduction actions contained in the Project Hazard Reports shall be implemented.

**HAZARDOUS MATERIALS/WASTE:** Hazardous materials/waste shall be handled in accordance with applicable regulations. All hazardous materials used at Dryden greater than six months shall be included in the DFRC Chemical Management System. For more detailed information contact Steve Fedor of Code SH at extension 7403.

OTHER:

**PROJECT MODIFICATIONS:** The Project Manager must evaluate proposed changes in project scope to see if they result in significant deviations from the project description outlined in this Record of Environmental Consideration. Notify Dan Morgan of Code SH at extension 3976 concerning significant changes in project activites to allow for timely analysis of potential environmental impacts. Future missions that operate in the National Air Space or foreign airspace will require further environmental review.

**MITIGATION MEASURES:** No significant impacts are identified; therefore, no mitigation measures are required.

**CUMULATIVE IMPACT:** This is a one-time project. No specific follow-on actions have been determined at this time so no cumulative environmental impact is expected.

**CONCLUSION:** Based on the above environmental impact analysis it is concluded that this is a categorically excluded action [*NPG 8580.1, Chapter 4, NASA CATEX 4.2.1 (3), Aeronautics and space technology and energy technology applications, other than experimental projects that have the potential for substantial envrionmental impacts*] that does not substantially impact the human environment; therefore, neither an EA nor an EIS is required.