



## Wallops Flight Facility Site-Wide Environmental Assessment(EA) NEPA Checklist

PROJECT NAME		
PROJECT CONTACT	PHONE NO.	MAILSTOP
PROJECT START DATE	PROJECT LOCATION	
<p><i><b>Instructions:</b> This checklist is to be completed for proposed NASA actions at Wallops Flight Facility (WFF) to determine if the action is covered by the December 2004 NASA Wallops Flight Facility Site Wide Environmental Assessment (Site-Wide EA). If the action is covered by the Site Wide EA (as determined by this checklist) and all applicable sections of this checklist have been completed, a Record of Environmental Consideration (REC) will be prepared documenting the determination, and no further NEPA documentation will be required. If the checklist indicates the need for additional analysis or that the action is not adequately covered under the Site-Wide EA, than a REC will be prepared that includes sufficient documentation of the additional analysis to support a determination of no significant impact. An Environmental Assessment (EA) will be completed if substantial additional analysis is required to determine direct, indirect, or cumulative impacts.</i></p> <p><i>This checklist and the Site-Wide EA are only applicable to NASA WFF actions and customer actions that use NASA-owned facilities at WFF.</i></p>		

### SECTION I. - PROJECT ELIGIBILITY FOR COVERAGE UNDER THE SITE-WIDE EA

PROJECT DESCRIPTION:
PROJECT OWNER AND LOCATION
<p>For <b>New Construction, Repair/Renovation/Relocation, or Demolition</b> projects, complete <b>Part 1</b>.</p> <p>For <b>Routine Site Activities and Maintenance</b> projects, complete <b>Part 2</b>.</p> <p>For <b>Operational</b> projects complete <b>Part 3</b>.</p>

PART 1 - CONSTRUCTION PROJECTS
<b>Check one:</b> <input type="checkbox"/> New Construction <input type="checkbox"/> Repair/Renovation/Relocation <input type="checkbox"/> Demolition
Would the project involve new construction in the Atlantic Ocean? <input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA. Separate NEPA documentation must be prepared.
If NO, would the project involve construction within an Area of Increased Sensitivity identified on Figures 6a, 6b, or 6c of the Site Wide EA? <input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, complete Section II, Parts A through K and Section III of the NEPA checklist <b>and include sufficient documentation with the REC to support a determination of no significant impact on sensitive resources</b> .
If NO, complete Section II, Parts A through K, and Section III of the NEPA checklist.

<b>PART 2 - ROUTINE SITE ACTIVITIES AND MAINTENANCE</b>	
Would the project involve one or more of the routine site activities and maintenance operations listed below or discussed in Section 2.1.3 of the Site Wide EA? (Check all project items that apply)	
<input type="checkbox"/>	Sea wall repair or enhancement
<input type="checkbox"/>	Causeway fender repair or replacement
<input type="checkbox"/>	Wallops Island shoreline maintenance ( <b>Note: for projects involving dock repair/replacement or channel dredging, USACE must complete separate NEPA and environmental documentation</b> ).
<input type="checkbox"/>	Wildlife management
<input type="checkbox"/>	Brush and tree clearing for airspace maintenance
<input type="checkbox"/>	Utility infrastructure upgrade, repair, or replacement including storm drainage system, potable water systems, sanitary sewer systems, steam heating lines, electrical lines and generators, telephone systems, or T-3 LAN communication systems.
<input type="checkbox"/>	Transportation infrastructure upgrade, repair, removal or replacement including roads, sidewalks, and parking lots.
<input type="checkbox"/>	Fabrication activities in Building F-7, F-10, and N-159.
<input type="checkbox"/>	Payload processing ( <b>Note: Part 3I of Checklist must also be completed</b> )
<input type="checkbox"/>	Fueling, fuel storage, and mobile Liquid Fueling Facility ( <b>Note: Part 3C of Checklist must also be completed and fuel storage and use must be in compliance with the WFF ICP</b> )
<input type="checkbox"/>	Storage
<input type="checkbox"/>	Safety and security measure upgrades.
<input type="checkbox"/>	Fire suppression system repair, replacement or upgrade.
<input type="checkbox"/>	Other action as described in Section 2.1.3 of the Site-Wide EA. List action here:
If NO, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without Further NEPA Documentation.	
If YES, would the project involve new construction (project does not repair or replace an existing structure or system)? <input type="checkbox"/> YES <input type="checkbox"/> NO	
If YES, Complete PART 1 - CONSTRUCTION PROJECTS above.	
If NO, complete Section II, Parts A through K and Section III of the NEPA checklist.	

<b>PART 3 - OPERATIONAL PROJECTS</b>	
Only projects involving the operations listed below are potentially eligible for coverage under the Site-Wide EA. Complete the appropriate checklist part(s) referenced below for all components of the proposed project to determine eligibility for coverage under the Site-Wide EA.	
<b><i>Proposed Operation</i></b>	
Rocket Operations (Orbital, Sounding, or Drones) ---	Complete Parts 3A, 3B, and 3C
Balloons -----	Complete Part 3D
Piloted Aircraft -----	Complete Part 3E
Uninhabited Aerial Vehicles -----	Complete Part 3F
Autonomous Underwater Vehicles -----	Complete Part 3G
Payloads -----	Complete Part 3H
Tracking and Data Systems -----	Complete Part 3I
Scientific Research Programs and Facilities -----	Complete Part 3J
Educational Programs -----	If no new construction, no further NEPA documentation required *
Open Burn Area -----	Complete Part 3K
Rocket Boosted Projectile Testing -----	Complete Part 3L
Airfield Operations -----	If no new construction, no further NEPA documentation required *
*If the project involves new construction, you must complete PART 1 - CONSTRUCTION PROJECTS above	

<b>PART 3A: Rockets (Orbital, Sounding or Drones)</b>	
Would the rocket exceed the solid propellant weight of the Athena-3 (approximately 133,120 kilograms [293,479 pounds]) class vehicle <b>or</b> exceed the launch/mission rate listed below? Orbital Rockets - 12 launches per year Sounding Rockets - 60 launches per year Drone Targets - 20 missions per year	
	<input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without Further NEPA Documentation.	
If NO, <b>complete Section II, Parts A through K and Section III of the NEPA Checklist and provide documentation with the REC to demonstrate compliance with the orbital rocket envelope above.</b>	

<b>PART 3B: Fuel Types</b>	
Would the project involve the use, storage, or transportation of any fuel <b>not</b> listed below: (check all fuels that will be involved in action)	
<input type="checkbox"/>	Heating oil #2 or #6
<input type="checkbox"/>	Jet fuel JP-5 or JPTS
<input type="checkbox"/>	Diesel fuel
<input type="checkbox"/>	Gasoline
<input type="checkbox"/>	Kerosene
<input type="checkbox"/>	Hydroxyl-terminated polybutadiene
<input type="checkbox"/>	Ammonium perchlorate/aluminum
<input type="checkbox"/>	Nitrocellulose/nitroglycerine
<input type="checkbox"/>	Liquid oxygen, hydrogen, or nitrogen
<input type="checkbox"/>	Hydrogen Peroxide
<input type="checkbox"/>	Hydrazine or its derivatives
<input type="checkbox"/>	Hybrid mixture
If NO, <b>complete Section II, Parts A through K, and Section III of the NEPA Checklist</b>	
If YES, would the project involve the use of a hybrid fuel? <input type="checkbox"/> YES <input type="checkbox"/> NO	
If NO, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without further NEPA documentation.	
If YES, would the hybrid fuel use exceed the environmental impacts of the safety risks of the solid fuels analyzed in the Site-Wide EA? (See Section 2.2.1 of the Site Wide EA) <input type="checkbox"/> YES <input type="checkbox"/> NO	
If NO, <b>complete Section II, Parts A through K and Section III of the NEPA Checklist and include sufficient documentation with the REC to demonstrate that the hybrid fuel will not exceed the environmental impacts or the safety risks of the solid fuels analyzed in the Site-Wide EA.</b>	
If YES, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without further NEPA documentation.	

<b>PART 3C: Motor Types</b>	
Would the motor(s) proposed for use exceed the enveloped emissions of the Castor 120™ with eight Castor IV™ strap-ons? <input type="checkbox"/> YES <input type="checkbox"/> NO	
If YES, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without further NEPA documentation.	
If NO, <b>complete Section II, Parts A through K, and Section III of the NEPA Checklist and provide documentation with the REC to demonstrate compliance with the motor type envelope above.</b>	

<b>PART 3D: Balloons</b>
Would the balloon to be launched at WFF be larger than 1,132,673 cubic meters (40,000,000 cubic feet) and have a payload larger than 3,628 kilograms (8,000 pounds)? <input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without further NEPA documentation.
If NO, <b>complete Section II, Parts A through K, and Section III of the NEPA Checklist.</b>

<b>PART 3E: Piloted Aircraft</b>
Would the project change flight operations by more than 25 percent or require additional airfield infrastructure for the basing of non-NASA aircraft? <input type="checkbox"/> YES <input type="checkbox"/> NO
If additional infrastructure is required for the basing of non-NASA aircraft, and EA or EIS would be required depending on the quantity of aircraft and potential for impacts.
If YES, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without further NEPA documentation.
If NO, <b>complete Section II, parts A through K, and Section III of the NEPA Checklist.</b>

<b>PART 3F: Uninhabited Aerial Vehicles</b>		
Would the test vehicle be included in the envelopes described in Table 3F (below)? <input type="checkbox"/> YES <input type="checkbox"/> NO		
If YES, <b>complete Section II, Parts A through K, and Section III of the NEPA Checklist, and provide documentation with the REC to demonstrate compliance with the envelopes in Table 3F below.</b>		
If NO, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without further NEPA documentation.		
<table border="1"> <tr> <td><b>Table 3F: Uninhabited Aerial Vehicle Envelopes</b></td> </tr> <tr> <td> <b>Size:</b> Does not exceed one-fifth scale Boeing 757.  <b>Thrust:</b> Does not exceed 3,946 kg (8,700 lbs)  <b>Fuel:</b> Not more than 8,695 L (2,297 gal.) of Jet-A fuel.  <b>Payload:</b> Maximum 6,550 kg (14,442 lbs.) with total weight of 23,133 kg (51,000 lbs.). </td> </tr> </table>	<b>Table 3F: Uninhabited Aerial Vehicle Envelopes</b>	<b>Size:</b> Does not exceed one-fifth scale Boeing 757. <b>Thrust:</b> Does not exceed 3,946 kg (8,700 lbs) <b>Fuel:</b> Not more than 8,695 L (2,297 gal.) of Jet-A fuel. <b>Payload:</b> Maximum 6,550 kg (14,442 lbs.) with total weight of 23,133 kg (51,000 lbs.).
<b>Table 3F: Uninhabited Aerial Vehicle Envelopes</b>		
<b>Size:</b> Does not exceed one-fifth scale Boeing 757. <b>Thrust:</b> Does not exceed 3,946 kg (8,700 lbs) <b>Fuel:</b> Not more than 8,695 L (2,297 gal.) of Jet-A fuel. <b>Payload:</b> Maximum 6,550 kg (14,442 lbs.) with total weight of 23,133 kg (51,000 lbs.).		

<b>PART 3G: Autonomous Underwater Vehicles</b>		
Would the test vehicle be included in the envelopes described in Table 3G (below)? <input type="checkbox"/> YES <input type="checkbox"/> NO		
If YES, <b>complete Section II, Parts A through K, and Section III of the NEPA Checklist and provide documentation with the REC to demonstrate compliance with the envelopes in Table 3G below.</b>		
If NO, <b>STOP HERE</b> . This project cannot be covered under the Site-Wide EA without further NEPA documentation.		
<table border="1"> <tr> <td><b>Table 3G: Autonomous Underwater Vehicle Envelopes</b></td> </tr> <tr> <td> Does not exceed size and depth capability of International Submarine Engineers' Theseus Vehicle:  <b>Size:</b> Diameter: 1.27 m (4 ft); Length: 10.6 m (35 ft); Weight: 8,618 kg (19,000 lbs.)  <b>Depth Capability:</b> 1,000 m (3,281 ft) </td> </tr> </table>	<b>Table 3G: Autonomous Underwater Vehicle Envelopes</b>	Does not exceed size and depth capability of International Submarine Engineers' Theseus Vehicle: <b>Size:</b> Diameter: 1.27 m (4 ft); Length: 10.6 m (35 ft); Weight: 8,618 kg (19,000 lbs.) <b>Depth Capability:</b> 1,000 m (3,281 ft)
<b>Table 3G: Autonomous Underwater Vehicle Envelopes</b>		
Does not exceed size and depth capability of International Submarine Engineers' Theseus Vehicle: <b>Size:</b> Diameter: 1.27 m (4 ft); Length: 10.6 m (35 ft); Weight: 8,618 kg (19,000 lbs.) <b>Depth Capability:</b> 1,000 m (3,281 ft)		

**PART 3H: Payloads**

Would the proposed payload be included in the envelopes described in Table 3H (below)?  
 YES     NO

If YES, **complete Section II, Parts A through K, and Section III of the NEPA Checklist.**

If NO, **STOP HERE.** This project cannot be covered under the Site-Wide EA without further NEPA documentation.

Table 3H: Payload Envelopes		
Component	Envelope	Additional Documentation Requirement for REC
<b>Radio Frequency</b>	Electromagnetic fields must be within ANSI-recognized acceptable levels as stated in IEEE C95.1-1991.	Radio frequency data confirming compliance
<b>Lasers</b>	Meets ANSI Safety standards (ANSI Z136.1-2000 and Z136.6-2000).	Laser data Confirming compliance
<b>Radioactive Materials</b>	Quantity and Type of radioactive material are within the approval authority level of the NASA Nuclear Flight Safety Assurance Manager.	Copy of Radioactive Materials Report as per NPR 8715.3 Section 5.5.2.
<b>Biological Agents</b>	Biological agents must meet conditions of Biosafety Level 1 of the NIH and CDC Biosafety in Microbiological and Biomedical Laboratories.	Laboratory data confirming compliance.
<b>Chemical Release</b>	Must not pose a substantial hazard and cannot have a significant adverse affect on the atmosphere.	Sufficient analysis to support compliance
<b>Orbital Debris Generation</b>	Must comply with the requirements of NPD 8710.3 NASA Policy for Limiting Orbital Debris Generation and NSS 1740.1.	A debris assessment would need to be prepared as required by this policy.
<b>Fuel</b>	Re-entry payload must not exceed 90 kilograms (200 pounds) of fuel. Must comply with the requirements of NPD 8700.2A, NASA Policy for Safety and Mission Assurance (SMA) for Experimental Aerospace Vehicle (EAV) (Revalidated 4/28/04)	Sufficient analysis to support compliance.
<b>Misc.</b>	Must comply with the requirement of NPD 8700.3A, SMA Policy for NASA Spacecraft, Instruments, and Launch Services.	

**PART 3I: Tracking and Data Systems**

Would the radio frequency electromagnetic fields be within ANSI-recognized acceptable levels as stated in IEEE C95.1-1991?

If YES, **complete Section II, Parts A through K, and Section III of the NEPA Checklist.**

If NO, **STOP HERE.** This project cannot be covered under the Site-Wide EA without further NEPA documentation.

**PART 3J: Scientific Research Programs and Facilities**

Would the proposed project comply with the envelopes described in Table 3J (below)?  
 YES     NO

If YES, **complete Section II, Parts A through K, and Section III of NEPA Checklist.**

If NO, **STOP HERE.** This project cannot be covered under the Site-Wide EA without further NEPA documentation.

Table 3J: Scientific Research Programs and Facilities Envelopes		
Component	Envelope	Additional Documentation Requirement for REC
<b>Radio Frequency</b>	Electromagnetic fields must be within ANSI-recognized acceptable levels as stated in IEEE C95.1-1991.	Radio frequency data confirming compliance.
<b>Radioactive Materials</b>	NASA's Safety Office and the Radiation Safety Committee have been consulted and (for projects involving ionizing radiation) the project would be in compliance with NASA's NRC license.	Ionizing radiation confirming compliance, for sources submit GSFC Forms 23-61, and 23-28I, for emitting equipment GSFC Forms 23-61D and 23-28ID.
<b>Lasers</b>	Meets ANSI Safety Standards (ANSI Z136.1-2000 and Z136.6-2000)	Laser data confirming compliance
<b>Biological Agents</b>	Biological Agents must meet conditions of Biosafety Level 1 of the NIH and CDC Biosafety in Microbiological and Biomedical Laboratories.	Laboratory data confirming compliance
<b>Chemical Release</b>	Must not be ozone-depleting and cannot have significant adverse affect on the atmosphere.	Sufficient analysis to support compliance

<b>PART 3K: Open Burn Area</b>
Is the burn operation covered under WFF's VDEQ permit and would the amount of propellant to be disposed be within the annual limit of 68 metric tonnes (75 tons)? <input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, <b>complete Section II, Parts A through K and Section III of the NEPA checklist.</b>
If NO, <b>STOP HERE.</b> This project cannot be covered under the Site-Wide EA without further NEPA documentation.

<b>PART 3L: Rocket Boosted Projectile Testing</b>
Would the project exceed 20 projectile tests (missions) per year? <input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, <b>STOP HERE.</b> This project cannot be covered under the Site-Wide EA without Further NEPA documentation.
If NO, <b>complete Section II, Parts A through K and Section III, of the NEPA Checklist.</b>

## SECTION II. - ENVIRONMENTAL REVIEW CHECKLIST

*Complete Sections A through K. Work through each resource section until a box with "RESOURCE EVALUATION COMPLETE" has been checked, or the entire resource section has been completed. If the checklist identifies the need for additional analyses or documentation, these must be completed and described in a REC and the additional analyses must be included with the REC to satisfy NEPA requirements.*

<b>A. LAND RESOURCES</b>
<i>Topography and Drainage/Geology and Soil</i>
<input type="checkbox"/> Project would <b>not</b> cause land disturbances such as land clearing, earth moving, and excavation. <b>RESOURCE EVALUATION COMPLETE</b> <input type="checkbox"/> Project would cause land disturbances such as land clearing, earth moving, and excavation. <ul style="list-style-type: none"> <li>o Project requires a site-specific Sediment and Erosion Control Plan if it involves: <ul style="list-style-type: none"> <li>- 929 square meters (10,000 square feet) or more of land disturbance;</li> <li>- 30.5 meters (100 feet) distance from a wetland;</li> <li>- 15.25 meters (50 feet) distance from a drainage structure and on a slope &gt; 7%; or</li> <li>- 30.5 meters (100 feet) distance from a drainage structure and on a slope &lt; 7%</li> </ul> </li> <li>o Project must comply with the WFF Storm Water Pollution Prevention Plan.</li> <li>o Project must obtain Virginia Storm water Management Program (VSMP) Construction site Stormwater Permit if it would disturb 0.4 hectare (1 acre) or more of land.</li> </ul>
Project will comply with these conditions? <input type="checkbox"/> Yes <b>RESOURCE EVALUATION COMPLETE</b> <input type="checkbox"/> No <i>Explain in comments section</i>
Comments:
Impact would be <input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input type="checkbox"/> Minimal <input type="checkbox"/> None Additional analysis and documentation required? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<i>Land Use</i>
<input type="checkbox"/> Project would be consistent with existing WFF land use and master plans. <b>RESOURCE EVALUATION COMPLETE</b> <input type="checkbox"/> Project would <b>not</b> be consistent with existing WFF land use and master plans. <i>Explain in comments section. Additional analyses and documentation are required.</i>
Comments:
Impact would be <input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input type="checkbox"/> Minimal <input type="checkbox"/> None Additional analysis and documentation required? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

**B. WATER RESOURCES**

***Surface Water Quality***

*Consider all potential impacts to surface water quality, temporary and permanent, including indirect impacts such as stormwater discharges from construction.*

Project would **not** directly or indirectly impact surface waters. **RESOURCE EVALUATION COMPLETE**

Project would directly or indirectly impact surface waters.

Impacts would be temporary.

BMPs for water quality protection are required and project must comply with the WFF Storm Water Pollution Prevention Plan. A site-specific Sediment and Erosion Control Plan and VSMP Construction site Stormwater Permit may be required.

Project will comply with these conditions?  Yes **RESOURCE EVALUATION COMPLETE**  
*(include conditions in Section III)*  No **(explain in comments section)**

Impacts would be permanent ***Explain in comments section. Additional analyses and documentation are required***

Comments:

Impact would be  Severe  Moderate  Minimal  None

Additional analysis and documentation complete?  Yes  No  N/A

***Groundwater***

Project would **not** involve modifying, replacing, or adding groundwater supply wells. **RESOURCE EVALUATION COMPLETE**

Project would involve modifying, replacing, or adding groundwater supply wells.

Consultation with Virginia DEQ complete?  Yes  No

Permit(s) required?  Yes (include in Section III)  No

List permit(s) required \_\_\_\_\_

Are project conditions required by the permit?  Yes (include in Section III)  No

Comments:

Impact would be  Severe  Moderate  Minimal  None

Additional analysis and documentation complete?  Yes  No  N/A

**B. WATER RESOURCES Cont.**

***Wetlands and Waters of the U.S.***

*Note: "Waters" includes waters subject to ebb and flow of tide, wetlands, streams, impoundments, tributaries, territorial seas, and wetlands adjacent to waters previously identified.*

- Project would **not** involve dredging or disposal of dredged material, or excavation, filling or other modifications, or adverse effects to wetlands or waters of the U.S.

**AND**

Project would **not** result in piers, wharves, breakwaters, bulkheads, jetties, weirs, transmission lines, or bank stabilization in waters of the U.S. **RESOURCE EVALUATION COMPLETE**

- Project would involve dredging or disposal of dredged material, or excavation, filling or other modifications, or adverse effects to wetlands or waters of the U.S.

**AND/OR**

- Project would result in piers, wharves, breakwaters, bulkheads, jetties, weirs, transmission lines, or bank stabilization in waters of the U.S.

a. Public notification complete?  YES  NO

b. Are there any practicable alternatives that avoid or minimize wetland/waters impacts?

YES (*explain in comments why alternative was not selected*)  NO

c. Consultation with USACE and VDEQ/VMRC completed  YES  NO

d. Permit required?  YES (*include in Section III*)  NO

List permit(s) required \_\_\_\_\_

e. Are project conditions or mitigation required?  YES (*include in Section III*)  NO

Comments:

Impact would be  Severe  Moderate  Minimal  None

Additional analysis and documentation complete?  Yes  No  N/A

***Floodplains***

- Project would **not** be located within the 100-year floodplain or 500-year floodplain (if a critical facility). **RESOURCE EVALUATION COMPLETE**

- Project would be located within the 100-year floodplain or 500-year floodplain (if a critical facility).

a. Public notification complete?  YES  NO

b. Are there any practicable alternatives that avoid floodplain impacts?

YES (*explain in comments why alternative was not selected*)  NO

c. Beneficial effect on floodplain values?  YES  NO

d. Agency consultation completed (if required)  YES  NO

e. Are project conditions required?  YES (*include in Section III*)  NO

Comments:

Impact would be  Severe  Moderate  Minimal  None

Additional analysis and documentation complete?  Yes  No  N/A

***Coastal Zone Management***

- Project would **not** affect coastal resources. **RESOURCE EVALUATION COMPLETE**

- Project would affect coastal resources.

Project is consistent with CZMA and Virginia VCP

Coastal Zone Consistency Determination complete?  Yes  No

Project is **not** consistent with CZMA and Virginia VCP ***Explain in comments section. Additional analyses and documentation are required.***

Comments:

Impact would be  Severe  Moderate  Minimal  None

Additional analysis and documentation complete?  Yes  No  N/A



**F. RADIATION**

- Project would **not** involve any amount of radioactive material and would not require the use or generation of ionizing or non-ionizing radiation (including lasers). **RESOURCE EVALUATION COMPLETE**
- Project would involve radioactive material and/or would require the use or generation of ionizing or non-ionizing radiation (including lasers).
  - a. Protection guidelines and procedures for radiation sources must be followed.
  - b. Have NASA's Safety Office and the Radiation Safety Committee been consulted and (for projects involving ionizing radiation) would the project be in compliance with NASA's NRC license?
    - YES (*include mitigation measures in Section III*) - **RESOURCE EVALUATION COMPLETE**
    - NO *Explain in comments section. Additional analyses and documentation are required*

Comments:

Impact would be  Severe  Moderate  Minimal  None  
Additional analysis and documentation complete?  Yes  No  N/A

**G. BIOLOGICAL ENVIRONMENT**

***Terrestrial Wildlife and Migratory Birds***

- Project would **not** affect terrestrial wildlife or migratory birds. **RESOURCE EVALUATION COMPLETE**
- Project would affect terrestrial wildlife or migratory birds.
  - Project is consistent with or a component of WFF's aviation safety program for flight operations - **RESOURCE EVALUATION COMPLETE**
  - Project is **not** consistent with and is **not** a component of WFF's aviation safety program for flight operations
    - a. Consultation with USFWS is complete and on file?  Yes  No
    - b. Are project conditions required?  YES (*include in Section III*)  NO

Comments:

Impact would be  Severe  Moderate  Minimal  None  
Additional analysis and documentation complete?  Yes  No  N/A

***Threatened and Endangered Species***

- Project would **not** affect the physical environment (land disturbance, vegetation removal, sedimentation, noise/waste/hazardous materials emission into the environment, etc.) **RESOURCE EVALUATION COMPLETE**
- Project would affect the physical environment.
  - Threatened or endangered species or habitat **not** present (Provide confirmation from regulatory agencies or an explanation (in comment section below) to justify determination) - **RESOURCE EVALUATION COMPLETE**
  - Threatened or endangered species or habitat potentially present
    - a. Review and consultation with USFWS, VDACS, VDGIF, VDCR, and NMFS complete and on file?  Yes  No
    - b. Are project conditions required?  YES (*include in Section III*)  NO

Comments:

Impact would be  Severe  Moderate  Minimal  None  
Additional analysis and documentation complete?  Yes  No  N/A

<b>G. BIOLOGICAL ENVIRONMENT Cont..</b>
<i>Marine Mammals and Fish</i>
<input type="checkbox"/> Project would <b>not</b> affect the marine environment. <b>RESOURCE EVALUATION COMPLETE</b> <input type="checkbox"/> Project would affect the marine environment. <input type="checkbox"/> Project would <b>not</b> involve the use of high strength sonar and/or would be consistent with the July 5, 2000 NASA Memorandum, <i>Taking of Marine Mammals Incidental to Rocket Launches from NASA Goddard Space Flight Center's Wallops Flight Facility</i> - <b>RESOURCE EVALUATION COMPLETE</b> <input type="checkbox"/> Project would involve the use of high strength sonar and/or would <b>not</b> be consistent with the July 5, 2000 NASA Memorandum, <i>Taking of Marine Mammals Incidental to Rocket Launches from NASA Goddard Space Flight Center's Wallops Flight Facility</i> . <b><i>Explain in comments section. Additional analyses and documentation are required.</i></b>
Comments:
Impact would be <input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input type="checkbox"/> Minimal <input type="checkbox"/> None Additional analysis and documentation complete? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

<b>H. SOCIAL AND ECONOMIC ENVIRONMENT</b>
<input type="checkbox"/> Project would <b>not</b> result in a permanent increase or decrease in operations. <b>RESOURCE EVALUATION COMPLETE</b> <input type="checkbox"/> Project would result in a permanent increase in operations, and impacts would be beneficial. <b>RESOURCE EVALUATION COMPLETE</b> <input type="checkbox"/> Project would result in a permanent decrease in operations. <b><i>Explain in comments section.</i></b>
Comments:
Impact would be <input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input type="checkbox"/> Minimal <input type="checkbox"/> None Additional analysis and documentation complete? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

<b>I. HEALTH AND SAFETY</b>
<input type="checkbox"/> Project would <b>not</b> result in any health and safety impacts to the public or WFF staff, contractors, or guests. <b>RESOURCE EVALUATION COMPLETE</b> <input type="checkbox"/> Project would result in health and safety impacts to the public or WFF staff, contractors, or guests. <b><i>Complete all of the following as appropriate:</i></b> <input type="checkbox"/> Health and safety impacts would be associated with new construction, repair/renovation/relocation, demolition activities, or the upgrade, removal or installation of transportation infrastructure. Impacts would be minimized by complying with all Federal and state OSHA regulations and by using only trained personnel. Appropriate signage and fencing would be placed to alert pedestrians and motorists of project activities, as well as any changes in traffic patterns. Project will comply with these conditions? <input type="checkbox"/> Yes <input type="checkbox"/> No <b><i>Explain in comments section. Additional analyses and documentation are required.</i></b> <input type="checkbox"/> Health and safety impacts would be associated with the use and storage of fuels or the storage of hazardous materials. NASA would comply with all applicable Federal and state regulations and the guidance provided in the ICP. Project will comply with these conditions? <input type="checkbox"/> Yes <input type="checkbox"/> No <b><i>Explain in comments section. Additional analyses and documentation are required.</i></b>

- Health and safety impacts would be associated with the expansion of or modifications to the WFF Security Force or Fire Department.  
All fire and security personnel would be properly trained and would be provided appropriate personal protective equipment. Project will comply with these conditions?  
 Yes  
 No ***Explain in comments section. Additional analyses and documentation are required.***
- Health and safety impacts would be associated with orbital and/or suborbital rocket operations.  
The range user will submit formal documentation pertaining to the proposed activity to the WFF Range Safety Branch for formal review. Ground and flight safety plans will be developed and approved prior to operation. Project complies with these conditions?  
 Yes  
 No ***Explain in comments section. Additional analyses and documentation are required.***
- Health and safety impacts would be associated with balloon operations, piloted aircraft operations, or uninhabited aerial vehicle operations.  
Project would be consistent with WFF's aviation safety program?  
 Yes  
 No ***Explain in comments section. Additional analyses and documentation are required.***
- Health and safety impacts would be associated with the use of lasers.  
Personnel operating lasers or in the vicinity of laser operations would be properly trained and would be provided appropriate personal protective equipment when necessary. Laser use would comply with all Federal and state OSHA regulations?  
 Yes  
 No ***Explain in comments section. Additional analyses and documentation are required.***
- Health and safety impacts would be associated with the use of radioactive materials.  
The radioactive materials are within the approval authority of the Nuclear Flight Safety Assurance Manager?  
 Yes  
 No ***Explain in comments section. Additional analyses and documentation are required.***

Comments:

Impact would be  Severe  Moderate  Minimal  None  
Additional analysis and documentation complete?  Yes  No  N/A

**J. CULTURAL RESOURCES**

*Historic Structures*

- Project would **not** affect any structure over 50 years old and does not involve construction within 1,000 meters (3,280 feet) of any potentially historic structure identified in the 2004 Historic Resources and Eligibility Report. **RESOURCE EVALUATION COMPLETE**
  - Project would affect a structure over 50 years old.
    - Structure is **not** eligible for listing in the NRHP (see 2004 Historic Resources and Eligibility Report) and project does not involve construction within 1,000 meters (3,280 feet) of any potentially historic structure. **RESOURCE EVALUATION COMPLETE**
    - Structure is eligible for listing in the NRHP and/or is within 1000 meters (3,280) of any potentially historic structure (see 2004 Historic Resources and Eligibility Report)
      - Review and consultation with VDHR completed and on file
- Effect Determination \_\_\_\_ ( No effect, no adverse effect, adverse effect)
- Are project conditions required by VDHR?  YES (*include in Section III*)  
 NO

Comments:

Impact would be  Severe  Moderate  Minimal  None  
Additional analysis and documentation complete?  Yes  No  N/A

*Archaeological Resources*

- Project would **not** involve disturbance of previously undisturbed ground. **RESOURCE EVALUATION COMPLETE**
  - Project would involve disturbance of previously undisturbed ground
    - Project would **not** be located in an identified area with moderate or high archaeological sensitivity (see 2003 Cultural Resources Assessment). **RESOURCE EVALUATION COMPLETE**
    - Project would be located in an identified area with high archaeological sensitivity (see 2003 Cultural Resources Assessment )
      - Review and consultation with VDHR completed and on file
- Effect Determination \_\_\_\_ ( No effect, no adverse effect, adverse effect)
- Are project conditions or mitigation required?  YES (*include in Section III*)  NO

Comments:

Impact would be  Severe  Moderate  Minimal  None  
Additional analysis and documentation complete?  Yes  No  N/A

**K. ENVIRONMENTAL JUSTICE**

- Project would **not** result in adverse effects of any nature to any population. **RESOURCE EVALUATION COMPLETE**
- No low-income or minority populations occur in or near the project area. **RESOURCE EVALUATION COMPLETE**
- Low-income or minority populations occur in or near the project area.
  - Project would **not** result in disproportionately high and adverse effects on low-income or minority populations. **RESOURCE EVALUATION COMPLETE**
  - Project would result in disproportionately high and adverse effects on low-income or minority populations. ***Explain in comments section. Additional analyses and documentation are required.***

Comments:

Impact would be  Severe  Moderate  Minimal  None  
Additional analysis and documentation complete?  Yes  No  N/A

### SECTION III. - PROJECT CONDITIONS AND MITIGATION MEASURES

*List all required project conditions and mitigation measures that were identified in Items A through K of Section II.*

1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
6.	_____
7.	_____
8.	_____
9.	_____
10.	_____
	_____
	_____