

Project Details

Project Id: 2020-58

Review Status: Closed

Requester Name: ELIZABETH LU WEST

Requester Code: 8100

Requester Phone: 757.824.2440

Requester Email: libby.west@nasa.gov

POC Name: Gordon David Marsh

POC Code: 8100

POC Phone: 757.824.1166

POC Email: gordon.d.marsh@nasa.gov

Title: 36.324 Harris

Center: WFF

Location: Other Location

Location Details: White Sands Missile Range (WSMR)

Project Type: Sounding Rockets

Project Start: March 09, 2020

Project Description

Solar telescope mission launching from White Sands Missile Range (WSMR)

Check List

Environmental Checklist For Off-Site Activities

Characterize the land use where the project would be located:

- Urban
- Industrial
- Commercial
- Agricultural
- Suburban
- Rural
- Residential
- Forest
- University Campus
- Research Facility
- Ocean
- Other

US Army Launch Facility

Landowner (check all that apply and specify):

- GSFC Site
- Other NASA Center
- Other Federal Agency
- State Agency
- University
- Tribal Lands
- Foreign Country (includes territorial sea and Economic Exclusive Zone)
- Global Commons (oceans)
- Other

US Army

Type of access/use agreement (check all that apply):

- Oral
- Email
- MOU/MOA
- Permit
- License
- Lease
- Transfer of Property
- Other

Inter-Agency Agreement (IAA)

Would the project involve:

- Construction /modification /demolition of a facility, building or structure Yes No Maybe
- Addition/removal of impervious area (e.g., concrete pads, parking, pavement, etc.) Yes No Maybe
- Ground/soil disturbance Yes No Maybe
- Clearing of vegetation/trees If yes, location, number of trees, and size of area Yes No Maybe
- Use of a special vehicle (aircraft, boat, balloons, launch vehicle, sounding rocket, UAS, etc.) Yes No Maybe
- NASA Sounding Rocket, Army helicopter for recovery operations Yes No Maybe
- A release of any object into the environment (balloons, drones, dropsondes, etc) Yes No Maybe
- Army provided balloons for wind weighting Yes No Maybe

Fuels	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>
Standard NASA Sounding Rocket solid propellant (Terrier Mk 70 and Black Brant MkIV stages)	Yes No Maybe
Oil-filled equipment (air compressors, generators, hydraulic equipment, transformers, elevators, etc.)?	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>
Principal Investigator provided vacuum pump	Yes No Maybe
Storage Tanks	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Generators	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Wells or borings	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Air emission sources/points (fume hoods, paint booths, parts cleaners, boilers, generators, etc.)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Asbestos-Containing Material (ACM), lead-based paint/lead-containing paint, PCB-containing equipment, or refrigerant containing equipment	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Storm drainage system (including roof drains, sump, and condensate receiving systems, drainage channels, etc.)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Sanitary sewer system (including floor drains) or septic systems	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Change in land use	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Significant increase in energy usage	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Increase in traffic/parking or require new access/roads	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Acquisition/Use/Storage of hazardous material/chemicals/substances/ODS/pesticides/disease producing pathogenic microorganisms/biological agents or hazards	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Generation of waste or debris including hazardous, biohazard, or radiological wastes	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Discharge to air, water, soil, ground water, surface water, storm water or sanitary systems (air emissions, wastewater, etc.)	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>
Solid Rocket propellant exhaust	Yes No Maybe
A new or change to existing process, material, equipment, or chemical (including additives to industrial or laboratory process water)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe

New or an increase in production of sanitary, laboratory or industrial wastewater	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Potential impacts to wildlife or habitat including any State or Federally listed endangered species and /or their habitat	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>
Endangered species covered under the WSMR EIS	Yes No Maybe
Potential impacts to historical, archeological, or cultural resources/sites	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Would the project modify a known historic property, structure, or facility?	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Potential impacts to water resources (ocean, lakes, pond, rivers, streams, floodplain, wetlands, wetland mitigation areas, drainage channels, etc.)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Potential impacts to forest conservation areas, or other environmentally sensitive areas?	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Would the project occur at or near a former or existing cleanup/remediation/landfill site?	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>
Remediation sites covered under the WSMR EIS	Yes No Maybe
Changes to local socio-economic or employment levels	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Leased property, and/or transfer, leasing or acquisition of property?	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Interference with visual resources (scenic views, landscape, etc.)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
New permits or modification of existing permits (air, water, etc.)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Local, state, or federal parks; forests; monuments; scenic waterways; wilderness; recreation facilities; or tribal lands	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>
US Army coordinates the WSMR activities with the White Sands National Park	Yes No Maybe
Lasers (contact GSFC Laser Safety Officer)	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>
For telescope alignment. Mission team is coordinating with the WFF Laser Safety Officer (LSO)	Yes No Maybe
Ionizing radiation devices/sources (contact GSFC Radiation Safety Officer)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe
Radio frequency sources (contact GSFC Frequency Utilization Manager)	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>
All TM frequencies are standard for WSMR launched Sounding Rocket missions.	Yes No Maybe
High noise levels or changes in noise levels?	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
	Yes No Maybe

- Explosives, propellants and/or pyrotechnics (contact GSFC Explosive Safety Officer)
Yes No Maybe
- Standard rocket motors and payload pyrotechnics
- Climbing and/or working at heights above 4 ft (1.2m)
Ladders and scissor lift may be required for launcher maintenance Yes No Maybe
- Working with, on and/or near electricity
Yes No Maybe
- Working with, on or near pressurized and/or cryogenic systems
Standard Sounding Rocket Attitude Control System (subsystem and procedures already approved) Yes No Maybe
- Using heavy equipment and/or lifting devices
Navy certified cranes in motor assembly. Navy certified motor and payload carts for transport to the launcher. Navy certified scissor lift for working on launcher umbilicals. WSTF certified cranes in payload assembly. Yes No Maybe
- Working in extreme temperatures and/or humidity
Yes No Maybe
- Would the project involve any hazards or safety or environmental issues not in this checklist or otherwise identified?
Yes No Maybe

Sounding Rockets

Which Ranges

- WSMR
- Kwajalein
- PMRF
- Poker Flat
- Norway
- Sweden
- Australia
- Other

Are you using existing GSE?

Standard Sounding Rocket GSE - no new designs.

Does payload exceed any requirements in the following table?
Yes No Maybe

Component	Envelope	Additional Documentation Requirement for REC
Radio Frequency	Electromagnetic fields must be within ANSI-recognized acceptable levels as stated in IEEE C95.1-1991.	Radio frequency data confirming compliance

Lasers	Meets ANSI Safety standards (ANSI Z136 1 2000 and Z136 6 2000) Must consult with LSO	Laser data Confirming compliance
Radioactive Materials	Quantity and Type of radioactive material are within the approval authority level of the NASA Nuclear Flight Safety Assurance Manager Must consult with RSO	Copy of Radioactive Materials Report as per NPR 8715 3C Section 6
Biological Agents	Biological agents must meet conditions of Biosafety Level 1 of the NIH and CDC Biosafety in Microbiological and Biomedical Laboratories Must consult with IH?	Laboratory data confirming compliance.
Chemical Release	Must not pose a substantial hazard and cannot have a significant adverse affect on the atmosphere	Sufficient analysis to support compliance

Comments

Review Assessment

Review Status Closed

Environmental Review

Sustainability Review

Actions: No comment. Thank you.

Follow up required: No

Review Completed: Kelly Busquets on 3/10/2020

CRM Review

Action: No Adverse Effect

Remarks:

Follow up required: No

Review Completed: RANDALL STANLEY on 3/10/2020

Safety Review

Explosives

Actions: Standard SRPO mission to be processed via Ground Safety protocols and procedures. Explosive Safety review to be addressed in the Explosive Site Plan and mission specific Ground Safety Plan.

Follow up required: No

Review Completed: Shad Combs on 3/25/2020

NEPA Review

<input type="checkbox"/>	Proposed Action qualifies for a Categorical Exclusion and has no extraordinary circumstances (14 CFR 1216.304 (c)) that would suggest the need for an environmental assessment.
<input checked="" type="checkbox"/>	Proposed Action is adequately covered in the following EA or EIS: FSEIS for Sounding Rockets Program
<input type="checkbox"/>	Proposed Action requires preparation of an environmental assessment (EA)
<input type="checkbox"/>	Proposed Action requires preparation of an environmental impact statement (EIS)

<input type="checkbox"/>	
<input type="checkbox"/>	Proposed Action is addressed under EO12114.
<input type="checkbox"/>	Proposed Action is not federalized sufficiently to qualify as a major federal action.
<input type="checkbox"/>	Other:

NEPA Review Remarks:

Review Completed: SHARI MILLER on 3/19/2020