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U. S. DEPARTMENT OF ENERGY, OFFICE OF SCIENCE INTEGRATED SUPPORT CENTER—CHICAGO OFFICE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) ENVIRONMENTAL EVALUATION NOTIFICATION FORM

To be completed by "Applicant," i.e., organization with responsibilities for a "Federal action" involving application to DOE for a permit, license, exemption or allocation, or other similar actions. For assistance with this Form, refer to "Instructions for Preparing ISC-CH F-560, Environmental Evaluation Notification Form."

Solic	itatio	n/Award No. (if	applicable): D	DE-SC0021534		
Orga	inizat	ion Name: Nik	ira Labs Inc.			
Prop	osed	Action Title:	Open-Path, Cand Tempera	Cavity-Enhanced Absorption System for Rapid Measurements of Watture Aboard an UAS	ater Vap	or
Tota	I DOE	Funding/Total	Funding: \$25	50,000		
				e and an arrange of the second		
l.	Pro	ect Description	: (Use explan	nation pages if additional space is required)		
	A.	Proposed Pro	ect/Action (if a	applicable, delineate Federally funded/Non-Federally funded portion	<u>s)</u>	
		develop, de monitoring platforms. to make reatimescale with Department	ploy, and de of water vap The analyze al-time, first- rith no memon t of Energy (Innovative Research (SBIR) program, Nikira Labs Inc. preliver multiple compact, lightweight analyzers for very rappor concentration ([H2O]) and air temperature (T) aboard ers will use multipass tunable diode laser absorption spectoriciples measurements of both parameters at the millist ory effects. The resulting systems will be utilized by the (DOE) Atmospheric Radiation Measurement (ARM) Climitation of the supersaturation and better understand cloud dynamic	oid, in-soid, in-soid, in-soid, in-soid airbor ctroscosecond	situ ne py
	В.	Would the pro	ject proceed w	vithout Federal funding?	Yes	No V
		If "yes," use	explanation p	page.		
11.	Des	cription of Affect	ted Environme	ent: (Use explanation pages if additional space is required)		
		If successfu Note that th	l, this progra	am will help DOE researchers study clouds. no negative environmental impact of any sort.		

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11.	Pre	eliminary	Questions:		
	Α.	Is the I	DOE-funded work routinely administrative or entirely advisory or a "paper study?"	Yes	No
		If "Yes	s", ensure that the description in Section I reflects this and go directly to Section	on V.	
	В.	Is there	e any potential whatsoever for: (Provide an explanation for each "Yes" response)		
		1.	Work to be performed outdoors?	V	
		2.	Major modification of a building interior?	H	
		3.	Threat of violation of applicable statutory, regulatory, or permit requirements for		V
			environment, safety, and health?		
		4.	Siting, construction or major expansion of waste treatment, storage, or disposal facilities?		V
		5.	Disturbance to hazardous substances, pollutants, or contaminants preexisting in the		V
			environment?	,	
		6.	The presence of any environmentally-sensitive resources?		マ
		7.	Any potential whatsoever for high consequence impacts to human health or the environment?		~
		8.	The work being connected to another existing/proposed activity that could	П	V
		0.	potentially create a significant impact?		ت
		9.	Nearby past, present, and/or reasonably foreseeable future actions such that collect	tively□	V
		10.	significant impacts could result?	\square	
		10.	Scientific or public controversy, uncertainty over potential impacts, or conflicts regar resource usage?	ding 🗀	V
J.	Pot A.		nvironmental Effects: (Provide an explanation for each "Yes" response) nmentally Sensitive Resources: Could the proposed action potentially result in change	700 ond/o	
	Α.	disturb	ances to any of the following resources?		-
		1.	Threatened/Endangered Species and/or Critical Habitats	Yes	No
		2.	Other Protected Species (e.g., Burros, Migratory Birds, Pollinators)	H	
		3.	Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests)		2222
		4.	Cultural or Historic Resources		V
		5.	Important Farmland Non-Attainment Areas for Ambient Air Quality Standards		V
		6. 7.	Class I Air Quality Control Region	H	V
		8.	Special Sources of Groundwater (e.g. Sole Source Aquifer)	H	듬
		9.	Navigable Air Space		V
			Coastal Zones		V
			Areas with Special National Designation (e.g. National Forests, Parks, Trails) Floodplains and/or Wetlands		~
	B.	Regula activitie	ted Substances/Activities: Would the proposed action involve any of the following rese	egulated It	ems or
		13.	Natural Resource Damage Assessments		
		14.	Invasive Species or Exotic Organisms	H	片
		15.	Noxious Weeds		V
		16.	Clearing or Excavation greater than one acre or Removal of Trees Governed by		V
		17.	Local Requirement Dredge or Fill (under Clean Water Act, Section 404, greater than one acre)		
		11.	2.0-5- 1		V

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	Ь.		es? (continued)	ive any or the following rec	<u>Julateu Iteli</u>	<u>15 UI</u>
		activiti	es: <u>(commueu)</u>		Yes	No
		18.	Noise (in excess of regulations)			
		19.	Asbestos Removal		Ħ	
		20.	Polychlorinated biphenyls (PCBs)		Ħ	
		21.	Import, Manufacture, or Processing of Toxic Substances		ī	M
		22.	Chemical Storage/Use			[i]
		23.	Pesticide Use			
		24.	Hazardous, Toxic, or Criteria Pollutant Air Emissions		H	
		25.	Liquid Effluents		H	
		26.	Spill Prevention/Surface Water Protection		H	Ä
		27.	Underground Injection		H	
		28.	Hazardous Waste		\vdash	
		29.			H	
			Underground Storage Tanks		H	
		30.	Radioactive or Radioactive Mixed Waste		\vdash	
		31.	Radiation Exposure		\vdash	
		32.	Nanoscale Materials		\vdash	
		33.	Genetically Engineered Microorganisms/Plants or Synthetic	c Biology	\vdash	
		34.	Ozone Depleting Substances		닏	
		35.	Greenhouse Gas Generation/Sustainability			
		36.	Off-Road Vehicles		\sqcup	
		37.	Biosafety Level 3-4 Laboratory		\sqcup	
		38.	Research on Human Subjects or other Vertebrate Animals			
		39.	Facility footprint exceeds 5,000 Square Feet			
	C.	Other	Relevant Information: Would the proposed action involve th	e following?	Yes	No
		40.	Disproportionate Nearby Presence of Minority and/or Low	Income Populations	l es	
		41.	Existing, Modified, or New Federal/State Permits			
		42.	Involvement of Another Federal Agency (e.g. license/perm	it, funding, approval)		
		43.	Action in a State with NEPA-type law	3. 11		
		44.	Expansion of Public Utilities/Services		Ħ	
		45.	Depletion of a Non-Renewable Resources			N
		46.	Subject to an Existing Institutional Work Planning and Con	trol Process	H	
		47.	Other Pertinent Information Which Could Impact Human H		. 🗀	
V.	Δpr	olicant ce	ertification that to the best of their knowledge all information	provided on this form is a	courate:	
٧.	ADI	<u>Jiloant ot</u>	Stillioditon that to the bost of their theory	p. evided on the form 15 at		
	Dar	aa thia di	isclosure contain: classified, sensitive business, or other ex	ampt information that DOE	Yes	No
					- ⊔	~
	WOL		e obligated to disclose pursuant to the Freedom of Informati			
			ization Official (Name and Title): Manish Gupta, Ch	ief Technology Off	icer	
	Α.	Organi				
		0: .		Date: 1/15/202		
		Signat	ure:	Date:	1	
		e-mail:	manish gunta@nikiralahs com	Phone: 650-200-01	103	
	В.		al Secondary Approval (Name and Title):			
	υ.					
		Signat	ure:	Date:		
		e-mail:		Phone:		

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Remainder to be completed by DOE

DO	DE Concurrence/Recommendation/Determination:				
A.	DOE Project Director/Program Manager or Contract/Grant Manag	ement Specialist:	Voo	No	
	Has the Applicant completed this Form correctly? Does an existing generic categorical exclusion apply? If yes, indicate:		Yes	No X	
	Name and Title: Lani Nishimura				
	Signature: Signature:		21		
В.	DOE NEPA Team Review (if requested):		Yes .	II N.	
	Is the class of action identified in the DOE NEPA Regulations (Ap Subpart D (10 CFR § 1021))? If yes, specify the class(es) of action: B1.31, B3.1, B3.6	ppendices A-D to	Yes	No	
	Name and Title:				
	Signature:	Date:			
C.	DOE Counsel (if requested):				
	Name and Title:				
	Signature:	Date:			
D.	DOE NEPA Compliance Officer:				
	preceding pages are a record of documentation required under DO 1.410.	E Final NEPA Regula	ation, 10 CFR §	3	
]	Action may be categorically excluded from further NEPA reviewant action meets the requirements for Categorical Exclusion references.		d that the prop	osed	
	Action requires approval by Head of the Field Organization. Recommend preparation of an Environmental Assessment.				
]	Action requires approval by Head of the Field Organization or preparation of an Environmental Impact Statement.	a Secretarial Officer	. Recommend		
	Comments/limitations if any:				
	NEPA Compliance Officer:				
	Name:Peter Siebach Digitally signed by Peter Siebach Date: 2021.01.21 17:18:50 -06'00'	Date:			