U. S. DEPARTMENT OF ENERGY, OFFICE OF SCIENCE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) ENVIRONMENTAL EVALUATION NOTIFICATION

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, refer to "Instructions for Preparing Environmental Evaluation Notification."

Solid	citatio	on/Award No. (if applicable): DE-SC0024883				
Orga	aniza	tion Name: Focused Energy, Inc.				
Prop	osed	Action Title: Inertial Fusion Energy with High-Gain Proton Fast Ignition				
Tota	l DOI	E Funding/Total Funding: \$3M				
l.	Pro	oject Description: (Use explanation pages if additional space is required)				
	A.	A. Proposed Project/Action (if applicable, delineate Federally funded/Non-Federally funded portions)				
		Through this DOE Milestone-Based Fusion Development Program Focused Energy will lead consortium of private industry, DOE national laboratories, and academic institutions, in a pub partnership to design and build an IFE-based fusion pilot plant (FPP). To access the high gai IFE, the Focused Energy program focuses on a variation of the approach employed on the Nusing short-pulse laser-driven proton beams. This approach, known as proton fast ignition (Pthe two stages of fuel compression and heating and thereby holds the promise of scaling to fabove 100, and doing so with robust igniting targets that are less sensitive to laser and targe and hence more suitable for commercial fusion. This first phase of the project (budget phase 1 for 18 months) will include the target design, of sub-scale implosion test facility, and a pre-conceptual design of the FPP.	lic-private ns require IIF: fast igr FI), separa usion gain t imperfect	ed for nition ates as tions,		
	B.	Would the project proceed without Federal funding? If "yes," use explanation page.	Yes	No Z		
П.	Des	scription of Affected Environment: (Use explanation pages if additional space is required) None				

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III.	Pre	limina	ry Questions:						
	12			Yes	No				
	A.	Is the	e DOE-funded work routinely administrative or entirely advisory or a "paper study?"	\mathbf{Z}					
		If "Yes", ensure that the description in Section I reflects this and go directly to Section V.							
	В.	Is there any potential whatsoever for: (Provide an explanation for each "Yes" response)							
		4	Mark to be performed outdoors?						
		1. 2.	Work to be performed outdoors? Major modification of a building facade or interior?	H	H				
		3.	Threat of violation of applicable statutory, regulatory, or permit requirements for	H	H				
		J.	environment, safety, and health?						
		4.	Siting, construction or major expansion of waste treatment, storage, or disposal facilities?						
		5.	Disturbance to hazardous substances, pollutants, or contaminants preexisting in the environment?						
		6.	The presence of any environmentally-sensitive resources?						
		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						
		_	potentially create a significant impact?						
		9.	Nearby past, present, and/or reasonably foreseeable future actions such that collectively significant impacts could result?	ш					
		10.	Scientific or public controversy, uncertainty over potential impacts, or conflicts						
		10.	regarding resource usage?	<u></u>	П				
		If "N	o" to ALL Section III.B. questions, go directly to Section V.						
IV.	Pot	ential	Environmental Effects: (Provide an explanation for each "Yes" response)						
	12	a r and, and the result to the state of the 							
	Α.								
		and/	or disturbances to any of the following resources?	V	NI-				
		1.	Threatened/Endangered Species and/or Critical Habitata	Yes	No				
		2.	Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds, Pollinators)	H	H				
		3.	Tundra, Coral Reefs, or Rain Forests	H	H				
		4.	Cultural or Historic Resources	H	Ħ				
		5.	Important Farmland	Ħ	Ħ				
		6.	Non-Attainment Areas for Ambient Air Quality Standards		┌				
		7.	Class I Air Quality Control Region						
		8.	Special Sources of Groundwater (e.g., Sole Source Aquifer)						
		9.	Navigable Air Space						
		10.	Coastal Zones						
		11.	Areas with Special National Designation (e.g. National Forests, Parks, Trails)	□					
		12.	Floodplains and/or Wetlands						
	B.	. Regulated Substances/Activities: Would the proposed action involve any of the following							
			lated Items or activities?						
		13.	Natural Resource Damage Assessments						
		14.	Invasive Species or Exotic Organisms	H	H				
		15.	Noxious Weeds	H	Ħ				
		16.	Clearing or Excavation greater than one acre or Removal of Trees Governed by Local	Ħ	H				
			Requirement	ш					
		17.	Dredge or Fill (under Clean Water Act. Section 404, greater than one acre)						

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Regu	lated Substances/Activities: Would the proposed action involve any of the following			
regu	ated Items or activities? (continued)			
		Yes	N	
18.	Noise (in excess of regulations)			
19.	Asbestos Removal			
20.	Polychlorinated biphenyls (PCBs)		Ē	
21.	Import, Manufacture, or Processing of Toxic Substances		Ē	
22.	Chemical Storage/Use Including Emerging Chemicals (e.g., PFAS)		Ē	
23.	Pesticide Use	Ē	Ī	
24.	Hazardous, Toxic, or Criteria Pollutant Air Emissions	百	Ī	
25.	Liquid Effluents	ī	Ī	
26.	Spill Prevention/Surface Water Protection	Ħ	Ē	
27.	Underground Injection	П	Ē	
28.	Hazardous Waste	Ħ	Ē	
29.	Underground Storage Tanks	Ħ	Ē	
30.	Radioactive or Radioactive Mixed Waste	П	Ē	
31.	Radiation Exposure	Ħ	Ē	
32.	Nanoscale Materials	Ħ	Ē	
33.	Genetically Engineered Microorganisms/Plants or Synthetic Biology	Ħ	Ē	
34.	Ozone Depleting Substances	Ħ	Ē	
35.	Greenhouse Gas Generation/Sustainability	Ħ	Ē	
36.	Off-Road Vehicles	Ħ	Ē	
37.	Biosafety Level 3-4 Laboratory	Ħ	Ī	
38.	Research on Human Subjects or other Vertebrate Animals	Ħ	Ē	
39.	Facility footprint exceeds 5,000 Square Feet		Ē	
Other Relevant Information: Would the proposed action involve the following?				
40.	Disproportionate Nearby Presence of Minority and/or Low Income Populations	Yes	N	
41.	Existing, Modified, or New Federal/State Permits			
42.	Involvement of Another Federal Agency (e.g. license/permit, funding, approval)			
43.	Action in a State with NEPA-type law			
44.	Action Would Require Expansion of Public Utilities/Services			
45.	Depletion of a Non-Renewable Resources			
46.	Subject to an Existing Institutional Work Planning and Control Process			
47.	Other Pertinent Information Which Could Impact Human Health or the Environment			
licant	certification that to the best of their knowledge all information provided on this Notificatio	n is accur	rate:	
		120020000000	-	
e thic	disclosure contain: classified, sensitive business, or other exempt information	Yes	N	
OIIII O	disclosure contain. Classificu, scrisitive pusificss, of other exempt information	100	- N	

Organization Official (Name and Title): Pravesh Patel CTO Date: ____ e-mail: pravesh.patel@focused-energy.world Phone: 510-851-1212 B. Optional Secondary Approval (Name and Title): Signature: _____ Date: _____ e-mail: ______ Phone: _____

V.

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Remainder to be completed by DOE

A.	DOE Project Director/Program Manager or Contract/Grant Management Specialist:					
	Has the Applicant completed this Notification correctly?	Yes 🔽	No			
	Does an existing generic categorical exclusion apply? If yes, indicate:	ō	Z			
	Name and Title: Moriam Vaughan, Grants Management Specialist					
	Signature: MORIAM VAUGHAN Digitally signed by MORIAM VAUGHAN Date: 2024.04.12 08:06:46 -05'00' Date:		04/12/2024			
B.	DOE NEPA Team Review (if requested):	105	669			
	Is the class of action identified in the DOE NEPA Regulations (Appendices A-D to Subpart D (10 CFR § 1021))? If yes, specify the class(es) of action: A9 and A11	Yes	No 🗆			
	Name and Title:					
	Signature: Jayashree Jayaraj Digitally signed by Jayashree Jayaraj Date: 2024.04.12 08:32:21 -05'00' 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 DOE Final NEPA Regulati 21.410.	ion, 10 CFR				
Z	Action may be categorically excluded from further NEPA review. I have determined that the proposed action meets the requirements for Categorical Exclusion referenced above.					
	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 the SC Director of Fiel Recommend preparation of an Environmental Impact Statement.	d Operations	S.			
	Comments/limitations if any:					
	NEPA Compliance Officer:					
	Name:PETER SIEBACH Digitally signed by PETER SIEBACH Date: 2024.04.12 09:11:41 -05'00' Date:					

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Optional Additional Narrative: (add additional detail to description to Sections I and II or explanations to responses in Sections 3 and 4.

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