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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."

Solicitation/Award No. (if applicable): DE - FOA - 0002809
Organization Name: Tokamak Energy Inc.
Proposed Action Title: ST-E1 Preliminary Design Review for a Fusion Pilot Plant
Total DOE Funding/Total Funding: \$3M/18 months
 Project Description: (Use explanation pages if additional space is required) A. Proposed Project/Action (if applicable, delineate Federally funded/Non-Federally funded portions) The design will : Approximate a Fusion Pilot Plant's scientific, technical, commercial, and economic requirements. Achieve and sustain an adequate energy gain. Develop the engineering solutions for fusion's extreme conditions inside the reactor. Develop a sustainable fivel cycle involving tritium Realize the necessary technological advances to sustain gain, manage fusion conditions, and Deliver a preliminary-design review There will be some laboratory validation, but this is primarily a preliminary design project.
B. Would the project proceed without Federal funding? No, not at this pace.

II. <u>Description of Affected Environment</u>: (Use explanation pages if additional space is required)

No environment will be affected, as this project's product is a design, only, not a facility or commodity in Bruceton Mills WV.

		Yes	No
Α.	Is the DOE-funded work routinely administrative or entirely advisory or a "paper study?"		\boxtimes
	(There will be some aboratory val	Idatin)	

If "Yes", ensure that the description in Section I reflects this and go directly to Section V.

B. Is there any potential whatsoever for: (Provide an explanation for each "Yes" response)

1.	Work to be performed outdoors?	<u>N</u> NN
2.	Major modification of a building facade or interior?	\bowtie
3.	Threat of violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health?	
4.	Siting, construction or major expansion of waste treatment, storage, or disposal facilities?	\mathbb{X}
5.	Disturbance to hazardous substances, pollutants, or contaminants preexisting in the environment?	\boxtimes
6.	The presence of any environmentally-sensitive resources?	M M
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	\boxtimes
	potentially create a significant impact?	
9.	Nearby past, present, and/or reasonably foreseeable future actions such that	${ imes}$
40	collectively significant impacts could result?	X
10.	Scientific or public controversy, uncertainty over potential impacts, or conflicts regarding resource usage?	NA N

If "No" to ALL Section III.B. questions, go directly to Section V.

IV. Potential Environmental Effects: (Provide an explanation for each "Yes" response)

- A. Environmentally Sensitive Resources: Could the proposed action potentially result in changes and/or disturbances to any of the following resources?
 - 1. Threatened/Endangered Species and/or Critical Habitats
 - 2. Other Protected Species (e.g., Burros, Migratory Birds, Pollinators)
 - 3. Tundra, Coral Reefs, or Rain Forests
 - 4. Cultural or Historic Resources
 - 5. Important Farmland
 - 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

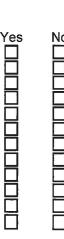
III.

Preliminary Questions:

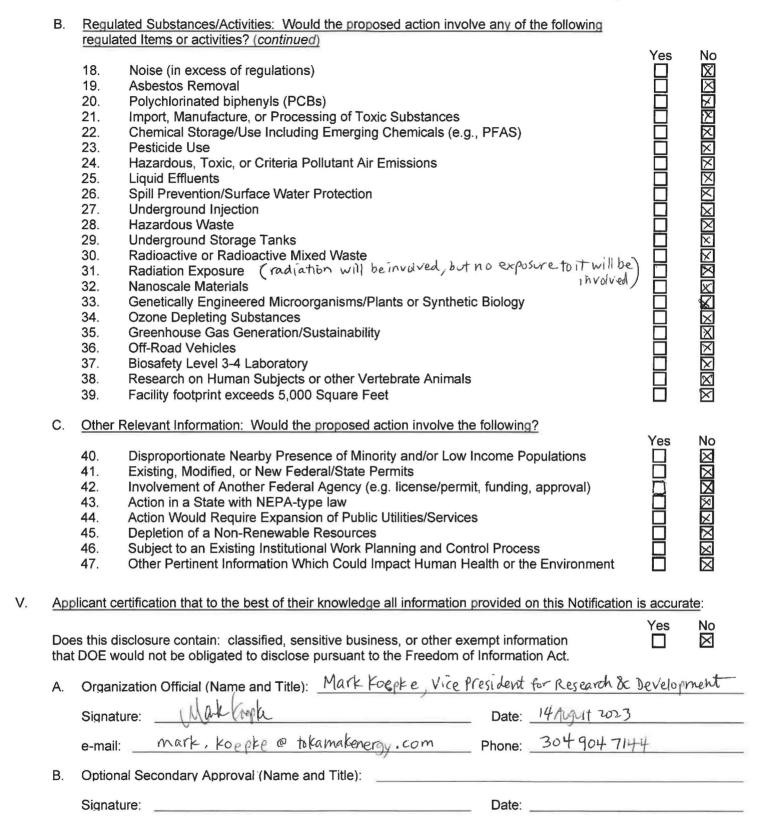
- 11. Areas with Special National Designation (e.g. National Forests, Parks, Trails)
- 12. Floodplains and/or Wetlands

B. <u>Regulated Substances/Activities:</u> Would the proposed action involve any of the following regulated Items or activities?

- 13. Natural Resource Damage Assessments
- 14. Invasive Species or Exotic Organisms
- 15. Noxious Weeds
- 16. Clearing or Excavation greater than one acre or Removal of Trees Governed by Local Requirement
- 17. Dredge or Fill (under Clean Water Act, Section 404, greater than one acre)



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e-mail: _____ Phone: _____

DOE NEPA Tracking Number

Remainder to be completed by DOE

DE Concurrence/Recommendation/Determination:						
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:						
Name and Title:Tanisha Smith, Grants Management Specialist						
Signature: Tanisha Smith Digitally signed by Tanisha Smith Date: 2023.08.17 09:48:17 -05'00' Date:						
DOE NEPA Team Review (if requested):						
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, A11 and B3.6 Subpart D (10 CFR § 1021))? A9, A11 and B3.6						
Name and Title:Environmental Engineer						
Signature: Jayashree Jayaraj Digitally signed by Jayashree Jayaraj Date: Date: 2023.08.17 10:01:25 -05'00' Date:						
DOE Counsel (if requested):						
Name and Title:						
Signature: Date:						
DOE NEPA Compliance Officer:						
e preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR 021.410.						
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 Field Operations. Recommend preparation of an Environmental Impact Statement.						
Comments/limitations if any:						
NEPA Compliance Officer:						
Name: PETER SIEBACH Digitally signed by PETER SIEBACH Date: 2023.08.18 13:06:49 -05'00'						
Signature: Date:						

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