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U. S. DEPARTMENT OF ENERGY OFFICE OF SCIENCE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) ENVIRONMENTAL EVALUATION NOTIFICATION FORM

To be completed by "financial assistance award" organization receiving Federal funding. For assistance (including a point of contact), see "Instructions for Preparing SC F-560, Environmental Evaluation Notification Form".

Solicitation/	Award No. (if applicable):			
Organizatio	n Name: Lawrence Berkele	y National Laboratory (LBNL)		
Title of Prop	oosed Project/Research: AD	VANCED BIOFUELS PROCESS DEVELOPMENT UNIT for LB	NL	
Total DOE F	Funding/Total Project Funding	: First Year \$23.8M/ outyears 5 years @ ~\$3M/year		ı
I. <u>Proje</u> c	ct Description (use additional	pages as necessary):		
I I I I I I I I I I I I I I I I I I I	Lease for a term of up to 60 m located at 717 Potter Street Be Fourteen employees, guests, and aboratories, and office space of would be improved to accommospace would be reconfigured in approximately 1,000 square feequipment, which would serve electrical, HVAC systems to so The PDU would be an ARRA newly developed processes an Research Centers (BRCs) — the Great Lakes Bioenergy Reportant and to companion DOE Office of Energy Efficien DOE Bioenergy Research Center Would the project proceed with	funded user facility for entities to scale-up and demonstrate (at a dechnologies. The facility would be made available to the three BioEnergy Science Center (BESC), the Joint Bioenergy Institusearch Center (GLBRC); as well as, University researchers, nones involved in biofuels production. Increase and Renewable Energy has a need to translate technologies atters (BRCs) from laboratory scale to commercial operation. Thout Federal funding?	nent Unit (F developme e rented spa office/vacan dition, mechanical a small-sca e Bioenerg ate (JBEI), i-profit rese	PDU) ent ace at al l, ale) y and earch
I	If "yes", describe the impact to	the scope:		
II Doce	rintian of Affacted Environmen	, (•		

II. <u>Description of Affected Environment:</u>

Approximately 1,000 square feet of the area to be remodeled is currently being used as a conference and office space. The remaining space was most recently used for library, office, and conference space but has been vacant for over two years.

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111.	Pre	liminary Questions:	Yes	No		
	A.	Is the DOE-funded work entirely a "paper study"?		\boxtimes		
		If "Yes", ensure that the description in Section I reflects this and go directly to Section V.				
	B.	Will the work to be performed take place entirely in existing buildings?				
		And:				
		1. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health?		\boxtimes		
		 Require the siting, construction or major expansion of waste treatment, storage, or disposal facilities? 		\boxtimes		
		3. Disturb hazardous substances, pollutants, or contaminants preexisting in the environment?		\boxtimes		
		 Adversely affect environmentally-sensitive resources identified in Section IV.A.? Be connected to another existing/proposed activity that could potentially create a cumulatively significant impact? 		\boxtimes		
		6. Have an inherent <i>possibility</i> for high consequence impacts to human health or the environment (e.g., Biosafety Level 3-4 laboratories, activities involving high levels of radiation)?		\boxtimes		
IV.	Potential Environmental Effects: Attach/insert an explanation for each "Yes" response.					
A. <u>Sensitive Resources: Will the proposed action result in changes and/or disturbances resources?</u>				_		
		 Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Archaeological/Historic Resources Important Farmland Non-Attainment Areas for Ambient Air Quality Standards Class I Air Quality Control Region Special Sources of Groundwater (e.g. Sole Source Aquifer) Navigable Air Space Coastal Zones Areas with Special National Designation (e.g. National Forests, Parks, Trails) Floodplains and Wetlands 	Yes			
		Regulated Substances/Activities: Will the proposed action involve any of the following regulated strictions?	action involve any of the following regulated items or			
		 13. Natural Resource Damage Assessments 14. Exotic Organisms The PDU would use recombinant bacterial and yeast strains. No introduction of any exotic organism into a natural ecosystem would occur 	Yes □ ⊠	No ⊠ □		

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	because of the design, construction or operation of the PDU. LBNL will implement the controls required by its safety Manual Publication 3000. In addition, the facility will include spill control measures, all liquids will be treated before disposal by the Hazardous Waste subcontractors and air collected by ventilation equipment will be filtered before release to the		·
15. 16. 17.	environment. Noxious Weeds Clearing or Excavation (indicate if greater than one acre) Dredge or Fill (under Clean Water Act, Section 404, indicate if greater than ten		
18. 19. 20.	acres) Noise (in excess of regulations) Asbestos Removal PCB's		
21. 22.	Import, Manufacture, or Processing of Toxic Substances Chemical Storage/Use The PDU would involve the use, storage, and disposal of hazardous chemicals. Each chemical would have unique toxic, fire, carcinogenic and physical characteristics. Toxin materials may include corrosives, irritants, carcinogens, and mutagens. The laboratory space must meet the requirements of "B" Occupancy laboratories, in accordance with the applicable California Building and Fire Codes. Proposed spaces should maximize the allowable quantities of hazardous materials, compressed gases and flammable and combustible materials in these laboratories by using Control Areas and their location (floor level and arrangement). Hazardous chemical storage cabinets would be located throughout the wet laboratory areas. Tenant-provided hazardous chemical storage cabinets would require a dedicated fume exhaust system with primary and backup exhaust fans supplied with emergency power.		
23. 24. 25.	Pesticide Use Hazardous, Toxic, or Criteria Pollutant Air Emissions Liquid Effluents Discharge resulting from the staff and research at the PDU		
26. 27.	would be to publically owned treatment works. Underground Injection Hazardous Waste Chemical waste would be up to 10,000 liters annually of		\boxtimes
28. 29. 30. 31. 32. 33. 34. 35. 36.	Underground Storage Tanks Radioactive Mixed Waste Radioactive Waste Radioactive Waste Radiation Exposure Surface Water Protection Pollution Prevention Act Ozone Depleting Substances Off-Road Vehicles Biosafety Level 3-4 Laboratory Biological hazard materials would include both Risk Group 1 and Risk Group 2 materials, although the majority would be Risk Group 1 and do not present risks to healthy adults under normal circumstances. Risk Group 1 materials include DNA, and laboratory strains of certain organisms (e.g., E. coli). Risk Group 2 materials include viral vectors. Risk Group 3 materials would not be used and would not be permitted on the PDU site.		
Other 37.	Relevant Information: Will the proposed action involve the following? Potential Violation of Environment, Safety, or Health Regulations/Permits	Yes	No ⊠
38.	Siting/Construction/Major Modification of Waste Recovery, or Waste Treatment, Storage, or Disposal Facilities		
39. 40.	Disturbance of Pre-existing Contamination New or Modified Federal/State Permits Work Planning controls are in place to	\boxtimes	

C.

D. SC ISC Field Office NEPA Compliance Officer:

The preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR 1021,400.

Action may be categorically excluded from further NEPA review. I have determined that the proposed action meets the requirements for Categorical Exclusion referenced above.

Date:

Signature:

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	Action requires approval by Head of the Field Organization. Recommendation Recomm	nend preparation of an	
	Action requires approval by Head of the Field Organization or a Secretarial Officer. Recommend preparation of an Environmental Impact Statement.		
Commer	nts/Limitations if necessary:		

Print Name

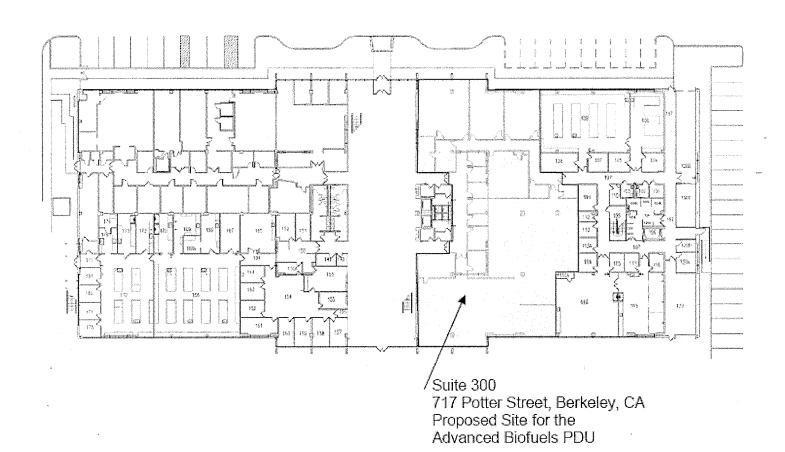
Signature:

Gary Hartman

ORO NEPA Compliance Officer

Date:

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