SC NEPA Tracking Number

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	o. (if	
applicable):		
Organization Name:	Lawrence Be	rkeley National Laboratory
Title of Proposed Proj	ect/Research:	lace Existing Firehouse (Building) at Lawrence Berkeley National Laboratory NL), Berkeley, California.
Total DOE Funding/T	otal Project Fu	nding: Approximately \$1 Million (Construction)

- I. Project Description (use additional pages as necessary):
 - A. <u>Proposed Project/Action (delineate Federally funded/Non-Federally funded portions)</u>
 Project Description:

The U.S. Department of Energy (DOE) proposes to deconstruct and remove its existing LBNL fire station (Building 45), retain and reinforce its existing foundation, and replace it in-kind and in place with a building of roughly the same size, layout, and program elements. The purpose of this proposed action is to improve the seismic performance of this "essential services" facility from its current "seismically poor" rating to a rating of "Good," or "Seismic occupancy category IV."

The existing 3,300 gross square-foot (gsf) fire station features two levels and an adjoining garage for emergency vehicles, all on a slab grade. It is a "pre-manufactured" metal building and was constructed in 1979. The proposed replacement building would be a new metal frame building, also be approximately 3,300 gsf. It would be built on the same footprint using the existing slab foundation and would include a similar open garage structure to house emergency vehicles. The existing foundation would be reinforced with new subsurface grade beams. All subsurface work would be confined to within the existing footprint of the existing Building 45 site.

Building occupancy would continue to be fewer than 20 occupants. Building function would continue to serve the LBNL site and surrounding Berkeley and Oakland areas with Alameda County fire and emergency medical service.

Project construction is expected to take place as follows: Design and approvals process would be completed in Fall 2011. Existing equipment and operations would be moved and demolition activities performed in early 2012. Foundation would be improved and the building constructed during mid-2012. Building completion would occur and occupancy would begin in late 2012.

During construction, fire station activities would be relocated to adjacent Building 48 or put in temporary storage. Emergency vehicles would be parked in outside parking spaces nearby to Building 48. Construction crews would be expected not to exceed six workers on site at any one time. Approximately 15-to-20 concrete pumping trucks trips and 4-to-8 structural and finish steel truck trips would be required. One crane would be brought to and used on the site.

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	В.	Would the project proceed without Federal funding?	Yes	No ⊠
		If "yes", describe the impact to the scope:		
П.	<u>De</u>	Scription of Affected Environment: The site is within a highly developed and disturbed area of the Lab adjacent to the "Old Town" bounded by Lawrence Road, Building 43, Building 48, and a grassy slope that climbs to "Old" 40 and 41. To the south, across Lawrence Road, are undeveloped slopes populated with eucaly grassland areas.	Town" bu	aildings
		Surrounding the Building 45 proposed project site are Building 43 (a utility structure housing a compressor and the Fire Station's emergency generator) adjoining to the west; a steep, grassy s which plateaus into the LBNL "Old Town" area approximately 150 feet northward; Building 4 Emergency Operations Command center) immediately to the east; and Lawrence Road to the swithin what is described as "Research and Academic Area" in the University of California's 20 Development Plan for LBNL.	lope to the 8 (LBNL outh. The	's e site is
III.	Den	iminary Questions:		
111.	FIE	Infinially 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.	Would the work to be performed include work that would take place outside an existing building?	\boxtimes	
		And:		
		1. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health?		\boxtimes
		2. 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? Lead based paint and asbestos would be encountered during demolition. Grade beam construction would be shallow so as not to encounter groundwater. There is no known or expected subsurface contamination at the project site. Nevertheless, all foundation work would be overseen by LBNL's EH&S personnel.		
		4. Adversely affect environmentally-sensitive resources identified in Section IV.A.?		\boxtimes
		5. Be connected to another existing/proposed activity that could potentially create a cumulatively significant impact?		\boxtimes
		6. Have an inherent possibility for high consequence impacts to human health or the environment (e.g., Biosafety Level 3-4 laboratories, activities involving high levels of radiation)?		
		If "No" to Question III.B. and ALL six subsequent questions, ensure the descriptions in Sect. reflect this and go directly to Section V.	ions I an	d 11

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IV. Potential Environmental Effects:

Attach/insert an explanation for each "Yes" response.

Α	Sensitive Re resources?	esources: Would the proposed action result in changes and/or disturbances to any of	the follo	owing
:	icsources:		Yes	No
	1.	Threatened/Endangered Species and/or Critical Habitats		
	2.	Other Protected Species (e.g., Burros, Migratory Birds)	. П .	
	3.	Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests)	\Box	茵
	4.	Archaeological/Historic Resources		岗
	5.	Important Farmland	Ħ	Ħ
	6.	Non-Attainment Areas for Ambient Air Quality Standards	X	Ħ
		LBNL is in Bay Area Air Quality Basin, which is in federal non-attainment for	٠	
		Ozone and state non-attainment for ozone, PM10, and PM2.5. There would be	i.	
		very minimal, very temporary construction-related air emissions and		
		essentially no operational air emissions. Any construction impacts would be		
		sufficiently mitigated by adherence to Bay Area Air Quality Management		
		District construction practices.	•	
	7.	Class I Air Quality Control Region		\square
	8.	Special Sources of Groundwater (e.g. Sole Source Aquifer)	Ħ	X
	9.	Navigable Air Space	H	Ħ
*	10.	Coastal Zones	H	X
	11.	Areas with Special National Designation (e.g. National Forests, Parks, Trails)	H	R
	12.	Floodplains and Wetlands	H	
	14.	1 1000 pums and 11 changs	. —	
В.	Regulated Su	abstances/Activities: Would the proposed action involve any of the following regula	ated item	s or
	activities?			. <u></u>
			Yes	No
	13.	Natural Resource Damage Assessments		
	14.	Exotic Organisms		茵
	15.	Noxious Weeds		茵
	16.	Clearing or Excavation (indicate if greater than one acre)	\sqcap	
	17.	Dredge or Fill (under Clean Water Act, Section 404, indicate if greater than		$\overline{\boxtimes}$
		ten acres)	_	
	18.	Noise (in excess of regulations)		\bowtie
	19.	Asbestos Removal		茵
	20.	PCBs	П	茵
	21.	Import, Manufacture, or Processing of Toxic Substances	┌┐	茵
	22.	Chemical Storage/Use	П	· 🛱
	23.	Pesticide Use	Ħ	岗
	24.	Hazardous, Toxic, or Criteria Pollutant Air Emissions	Ħ	
		Construction and grading activities would result in standard construction-	_	
		related emissions of criteria pollutants (Particulate matter associated with earth	*.	
		movement, oxides of Nitrogen and reactive organic gasses associated with		
		equipment engines; and diesel exhaust [toxic air contaminant] associated with		
,		equipment engines). By following BAAQMD best management practices,		
		these levels are expected to be less than significant.		
	25.	Liquid Effluents: Quantity and characteristics of effluent would not		\boxtimes
		noticeably change as a result of this action.	_	
	26.	Underground Injection		\boxtimes
	27.	Hazardous Waste	Ħ	岗
	28.	Underground Storage Tanks	Ħ	X
	29.	Radioactive Mixed Waste	Ħ	X
	30.	Radioactive Waste	Ħ	
		The state of the s		

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31.	Radiation Exposure		
32.	Surface Water Protection		
33.	Pollution Prevention Act		
34.	Ozone Depleting Substances		
35.	Off-Road Vehicles		
36.	Biosafety Level 3-4 Laboratory		
C. Other Releva	nt Information: Would the proposed action involve the following?		
		Yes	
	Potential Violation of Environment, Safety, or Health Regulations/Permits		
37.	Siting/Construction/Major Modification of Waste Recovery, or Waste		
	Treatment, Storage, or Disposal Facilities		
38.	Disturbance of Pre-existing Contamination: No lead, PCB, or asbestos issue	s 🗌	
	are expected, but surveying is being undertaken to determine that. In any		
	event, controls and monitoring would be in place to avoid any releases to		
	workers or the environment. All activities associated with the relocation		
	would be carefully planned, executed, and monitored by qualified experts		
	from LBNL's Environment, Health, & Safety Division and disposed of in		
	accordance with all applicable laws and regulations.		
39.	New or Modified Federal/State Permits		
40.	Public Controversy		
41	Environmental Justice		
42.	Action/Involvement of Another Federal Agency (e.g. license, funding,		
	approval)		
43.	Action of a State Agency in a State with NEPA-type law: A California	\boxtimes	
	Environmental Quality Act (CEQA) review would be conducted.	· —	
44.	Public Utilities/Services		
45.	Depletion of a Non-Renewable Resource		
46.	Extraordinary Circumstances	\Box	
47.	Connected Actions	П	
48.	Exclusively Bench-top Research		

A.	Organization Official (Name and Title):	Jeff Philliber, LBNL Environmental Planner	, LBNL Environmental Planner		
	Signature:	/s/	Date:	9-19-11	
	e-mail:	JGPhilliber@lbl.gov	,		
B.	Optional Concurrence (Name and Title)				
	Signature	::	Date:		
	e-mail:	Phone:			

Remainder to be completed by SC

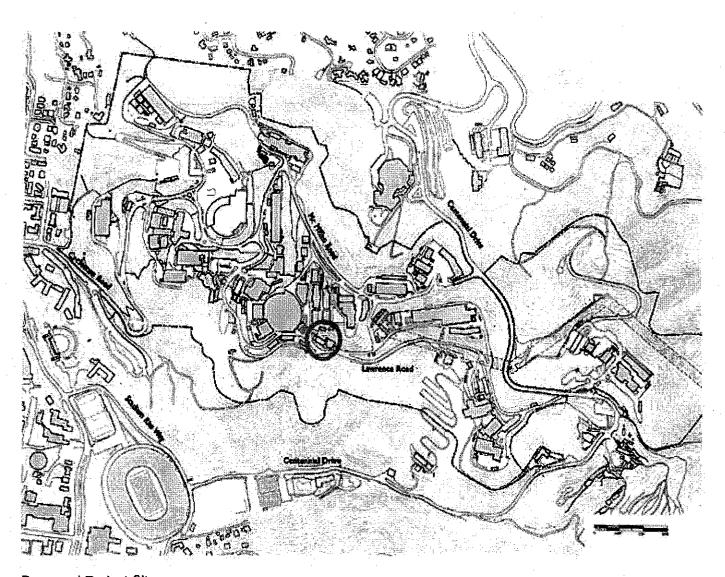
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VI. <u>SC</u>	Concurrence/Reco	ommendation/Determinati	on:	
A.	SC Office of Ac	quisition and Assistance o	r Office of Safety, Technical	& Infrastructure Services:
	Name and Title:		Rick Chapman General En	gineer
		Signature:	/s/	Date: 9/19/11
В.	SC NEPA Team		Rick.chapman@bso.science	doe.gov /
	Is the project/act Organization by	ivity appropriate for a dete the NEPA Compliance Of	ermination or a recommendat ficer (NCO) under Subpart D	ion to the Head of the Field Of the DOE NEPA Regulations?
		Yes 🛛	No 🗌	
	Specific class(es)) of action from Appendic	es A-D to Subpart D (10 CFF	R 1021):
		onstruction (or Modifications and supposed to buildings and supposed to buildings and supposed to be supposed t		buildings), and B1.23 (Demolition and
		Kim Abbott, NEPA Prog	gram Manager	
	Signature:	/s/		Date: 9/19/2011
	e-mail:	kim.abbott@bso.science	.doe.gov	
C.	SC ISC Counsel	(if necessary):		
	Name and Title:			
	Signature:			Date:
D.	e-mail: SC ISC Field Off	ice NEPA Compliance Of	ficer:	
	preceding pages a 1.400,	re a record of documentat	ion required under DOE Fina	al NEPA Regulation, 10 CFR
	Action may action meets	be categorically excluded the requirements for Cate	from further NEPA review. gorical Exclusion referenced	I have determined that the proposed above.
Action requires approval by Head of the Field Organization. Recommend preparation of an Environmental Assessment.				
	Action require preparation of	res approval by Head of the	ne Field Organization or a Sect Statement.	cretarial Officer. Recommend
Com	ments/Limitations	s if necessary:		
Print	t Name	James L. Elmo	ore	

/s/

ORO NEPA Compliance Officer

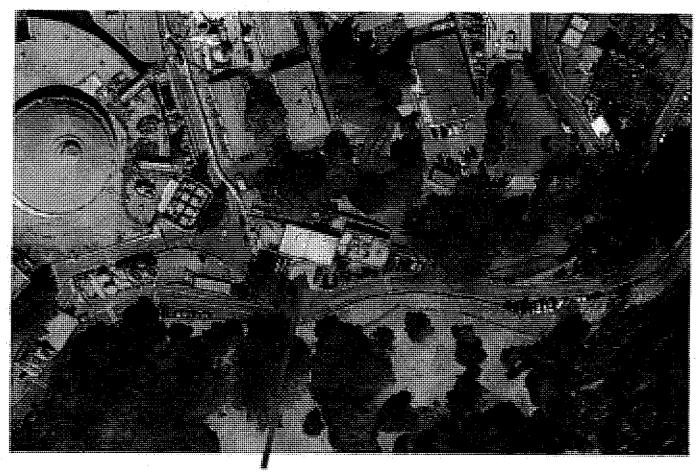
Signature:



Proposed Project Site

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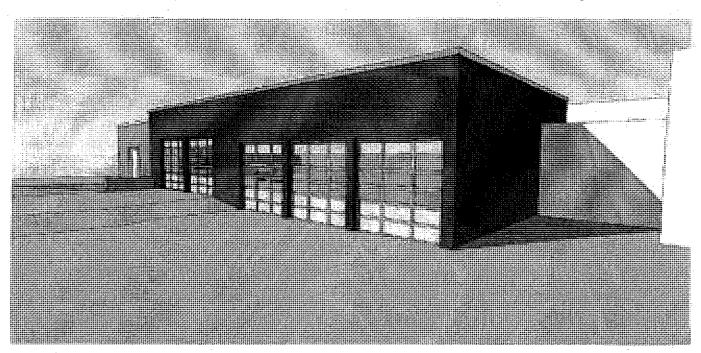


Existing Building 45



Existing Building 45

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Proposed New Building