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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 Project/Research:		Relocate Existing Meteorological Tower 44WT at Lawrence Berkeley National Laboratory (LBNL), Berkeley, California.	
Total DOE Funding/To	otal Project Fu	nding: Total DOE Project Funding \$439,000	

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

The U.S. Department of Energy (DOE) proposes to relocate its existing 20-meter-tall meteorological tower ("Tower" – Facility No. 44WT) currently located immediately north of the former Building 44 Site. The proposed new location is a grassy slope adjacent to existing Building 27 (See Figure 1). The purpose of the relocation is to accommodate demolition and redevelopment in the area of the existing tower. The purpose of the Tower is to gather meteorological information, including wind speed, wind direction, temperature, rainfall, solar radiation, and atmospheric pressure, to support multiple purposes related to research and to LBNL Environment, Health & Safety Division data needs.

A relocation assessment was prepared by an independent expert (LBNL Meteorological Monitoring Station Relocation Assessment, Golder Associates, March 2011). The report assessed and ranked thirteen potential relocation sites throughout the LBNL hill site on the basis of several criteria, including meteorological exposure and representativeness, access and site logistics, visual prominence, and need for tree removal. The Relocation Assessment was further refined by the University to take into account ongoing operations, general aesthetics, and compliance with LBNL's 2006 Long Range Development Plan (LRDP). To avoid interference with nearby structures, minimize the number of trees to be removed, and account for its hillside location (compared to current flat location), it is proposed that the existing tower be raised by an additional 6 meters for a total new proposed height of 26 meters. Even at this height and new location, the elevation of the top of the relocated tower would be approximately 6 meters lower than the top elevation of the currently sited tower.

The project site (immediately west of Building 27) is surrounded by Building 53 on the south and Building 17 to the north. The proposed project would provide a new foundation and utilities (electricity and communications), and install minor stabilization, which might include hydroseeding. The foundation would be a grade-beam/pile-cap arrangement with an at-grade access path.

The proposed project would require the removal of a number of trees in the area. Approximately three mature Eucalyptus trees would be removed downslope of the proposed new location. In addition, it is proposed that approximately seven juvenile Douglas Firs be removed from a stand of 16 trees located northwest of Building 17. None of the trees to be removed are considered key screening trees in LBNL's 2006 LRDP Environmental

Page 2 Of 1

LB-EK- LB-EK-11-U0

SC NEPA Tracking Number

Impact Report (EIR) and Design Guidelines. The removal of these trees would not affect the views of LBNL from the surrounding, off-site community.

Project construction is expected to take place as follows: 1) Drill exploratory borings to gather geotechnical data needed for structural calculations and, if recommended or required, to test for any potential contamination. 2) Off-haul approximately ten cubic yards of excavated soil to LBNL's east canyon soil storage site or to an appropriate landfill in accordance with the project soil management plan. 3) Pour a new concrete pile cap and slab of up to 100 square feet. 4) Install one or two small retaining walls as needed to accommodate the existing slope. 5) Trench and install one 20 amp, 120 volt circuit to power the tower's equipment and conduits for communication lines. 6) Install an access pathway or stairs, hand rail, and security fencing, and conduct minor miscellaneous site work. 7) Dismantle and transport existing Tower to the proposed site. Reassemble, test, and commission relocated Tower.

Purpose and need:

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The purpose of the relocation is to accommodate demolition and redevelopment in the area of the existing tower. The purpose of the Tower is to gather meteorological information, including wind speed, wind direction, temperature, rainfall, solar radiation, and atmospheric pressure, to support multiple purposes related to research and to LBNL Environment, Health & Safety Division data needs.

			Yes	No
	В.	Would the project proceed without Federal funding?		\boxtimes
		If "yes", describe the impact to the scope:		
П.	Des	Cription of Affected Environment: The Tower is currently located immediately north of the former Building 44 Site. The propose is a grassy slope adjacent to existing Building 27 (See Figure 1). The proposed new site is highland that is immediately adjacent to the intensively developed "Old Town" area of LBNL. The location is similar to the existing site in terms of use and scale of development.	ghly distur	bed
III.	Pre	iminary Questions:	37	> 7-
	A.	Is the DOE-funded work entirely a "paper study"?	Yes	No
		If "Yes", ensure that the description in Section I reflects this and go directly to Section V.		
	В.	Would the work to be performed include work that would take place <i>outside</i> an existing building?		
		And:		
		1. Threaten a violation of applicable statutory, regulatory, or permit		\boxtimes
		requirements for environment, safety, and health? 2. Require the siting, construction or major expansion of waste treatment,		\boxtimes
		storage, or disposal facilities? 3. Disturb hazardous substances, pollutants, or contaminants preexisting in the environment? Lead based paint and asbestos would be encountered during demolition		
		4. Adversely affect environmentally-sensitive resources identified in Section IV.A.?		

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		5.	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		\boxtimes
			high levels of radiation)?		
			uestion III.B. and ALL six subsequent questions, ensure the descriptions in Secti nd go directly to Section V.	ons I an	d II
		rejieci inis ai	na go airecuy to Section V.		
IV.	Pote	ential Environ	mental Effects:		
	Att	ach/insert an	explanation for each "Yes" response.		
	A.	Sensitive Res	sources: Would the proposed action result in changes and/or disturbances to any of	the follo	wing
		resources?			
		•	Thursday 100 1 10 10 11 10	Yes	No
		1.	Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Promos, Microtory Birds)	片	
		2. 3.	Other Protected Species (e.g., Burros, Migratory Birds)	님	X
			Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests)	님	
		4.	Archaeological/Historic Resources	님	X
		5.	Important Farmland		
		6.	Non-Attainment Areas for Ambient Air Quality Standards	M	
			LBNL is in Bay Area Air Quality Basin, which is in federal non-attainment for		
			Ozone and state non-attainment for ozone, PM10, and PM2.5. There would be		
			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	\sqcup	$oxed{oxed}$
		8.	Special Sources of Groundwater (e.g. Sole Source Aquifer)	빌	\boxtimes
		9.	Navigable Air Space	Ш	\boxtimes
		10.	Coastal Zones		$oxed{oxed}$
		11.	Areas with Special National Designation (e.g. National Forests, Parks, Trails)		
		12.	Floodplains and Wetlands		\boxtimes
	B. Regulated Substances/Activities: Would the proposed action involve any of the following regular				
		activities?			
				Yes	No
		13.	Natural Resource Damage Assessments		
		14.	Exotic Organisms	Ħ	岗
		15.	Noxious Weeds	Ħ	茵
		16.	Clearing or Excavation (indicate if greater than one acre)	Ħ	
		17.	Dredge or Fill (under Clean Water Act, Section 404, indicate if greater than	Ħ	Ħ
			ten acres)		
		18.	Noise (in excess of regulations)		\boxtimes
		19.	Asbestos Removal	┌┌	茵
		20.	PCBs	П	$\overline{\boxtimes}$
		21.	Import, Manufacture, or Processing of Toxic Substances		
		22.	Chemical Storage/Use	П	$\overline{\boxtimes}$
		23.	Pesticide Use	Ħ	$\overline{\boxtimes}$
		24.	Hazardous, Toxic, or Criteria Pollutant Air Emissions	Ħ	Ħ
	11		Construction and grading activities would result in standard construction-		لات
	12.	7-3	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		
			1 1		

Page 3 of 7

LB-ER- LB-ER-11-06

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LO-EK- LO-EK-11-UO SC NEPA Tracking Number

equipment engines). By following BAAQMD best management practices, these levels are expected to be less than significant. Liquid Effluents: Quantity and characteristics of effluent would not noticeably change as a result of this action. Underground Injection Hazardous Waste Underground Storage Tanks Radioactive Mixed Waste Radioactive Waste Radiation Exposure Surface Water Protection Pollution Prevention Act Ozone Depleting Substances Off-Road Vehicles Biosafety Level 3-4 Laboratory evant Information: Would the proposed action involve the following? Potential Violation of Environment, Safety, or Health Regulations/Permits Siting/Construction/Major Modification of Waste Recovery, or Waste Treatment, Storage, or Disposal Facilities Disturbance of Pre-existing Contamination: The existing tower has been tested to contain trace amounts of lead in the existing paint (150 ppm). Therefore, this coating is not classified as "lead-based" paint but, it as "lead-containing." The paint is in good condition and is not flaking. Nevertheless, controls and monitoring would be in place to avoid any releases to workers or the	□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	
Liquid Effluents: Quantity and characteristics of effluent would not noticeably change as a result of this action. Underground Injection Hazardous Waste 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 evant Information: Would the proposed action involve the following? Potential Violation of Environment, Safety, or Health Regulations/Permits Siting/Construction/Major Modification of Waste Recovery, or Waste Treatment, Storage, or Disposal Facilities Disturbance of Pre-existing Contamination: The existing tower has been tested to contain trace amounts of lead in the existing paint (150 ppm). Therefore, this coating is not classified as "lead-based" paint but, it as "lead-containing." The paint is in good condition and is not flaking. Nevertheless, controls and monitoring would be in place to avoid any releases to workers or the	Yes	NAMAMAMAMAM vo
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Treatment, Storage, or Disposal Facilities Disturbance of Pre-existing Contamination: The existing tower has been tested to contain trace amounts of lead in the existing paint (150 ppm). Therefore, this coating is not classified as "lead-based" paint but, it as "lead-containing." The paint is in good condition and is not flaking. Nevertheless, controls and monitoring would be in place to avoid any releases to workers or the		
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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		
	-	
		\boxtimes
그는 사람들이 가장하는 사람들이 되었다면 하는 사람들이 되었다.		
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Connected Actions		\boxtimes
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	all applicable laws and regulations. New or Modified Federal/State Permits Public Controversy Environmental Justice Action/Involvement of Another Federal Agency (e.g. license, funding, approval) Action of a State Agency in a State with NEPA-type law: A California Environmental Quality Act (CEQA) review would be conducted. Public Utilities/Services Depletion of a Non-Renewable Resource Extraordinary Circumstances Connected Actions Exclusively Bench-top Research	New or Modified Federal/State Permits Public Controversy Environmental Justice Action/Involvement of Another Federal Agency (e.g. license, funding, approval) Action of a State Agency in a State with NEPA-type law: A California Environmental Quality Act (CEQA) review would be conducted. Public Utilities/Services Depletion of a Non-Renewable Resource Extraordinary Circumstances

e-mail: JGPhilliber@lbl.gov

V.

LB-ER- LB-ER-11-06	
SC NEPA Tracking Number	

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	В.	Optional Concurrence (Name and Title):	
		Signature:	Date:
		e-mail:	Phone:
Rem	ainde	er to be completed by SC	
VI.		Concurrence/Recommendation/Determinati	on:
V 1.	<u>3C</u>		
	A.	SC Office of Acquisition and Assistance of	or Office of Safety, Technical & Infrastructure Services:
		Name and Title: Signature:	Rick Chapman, Géneral Engineer
		_	/s/ Date: 8/2/11
	В.	e-mail: SC NEPA Team Review:	Rick.chapman@bso.science.doe.gov
	-		termination or a recommendation to the Head of the Field
			efficer (NCO) under Subpart D of the DOE NEPA Regulations?
		Yes 🏻	No 🗌
		Specific class of action from Appendices	A D to Submost D (10 CED 1021):
		•	
			ization and environmental monitoring, including siting, construction g) (h) Installation and operation of meteorological towers and
		Name and Title: Kim Abbott, NEPA Pro	
		Signature: /S/	Date: 8/2/20//
		e-mail: kim.abbott@bso.scienc	ce.doe.gov
	•	CO ICC Common (if management)	
	C.	SC ISC Counsel (if necessary):	
		Name and Title: Signature:	
			Date:
	D.	e-mail: <u>SC ISC Field Office NEPA Compliance C</u>	Officer:
		e preceding pages are a record of document 21.400.	ation required under DOE Final NEPA Regulation, 10 CFR
	乜		d from further NEPA review. I have determined that the proposed stegorical Exclusion referenced above.
		Action requires approval by Head of Environmental Assessment.	the Field Organization. Recommend preparation of an
		Action requires approval by Head of	the Field Organization or a Secretarial Officer. Recommend

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LD-ER- LD-ER-11-00 SC NEPA Tracking Number

Comments/Limitations if necessary:

Print Name

Gary S. Hartman

Signature:

/s/

ORO NEPA Compirance Officer

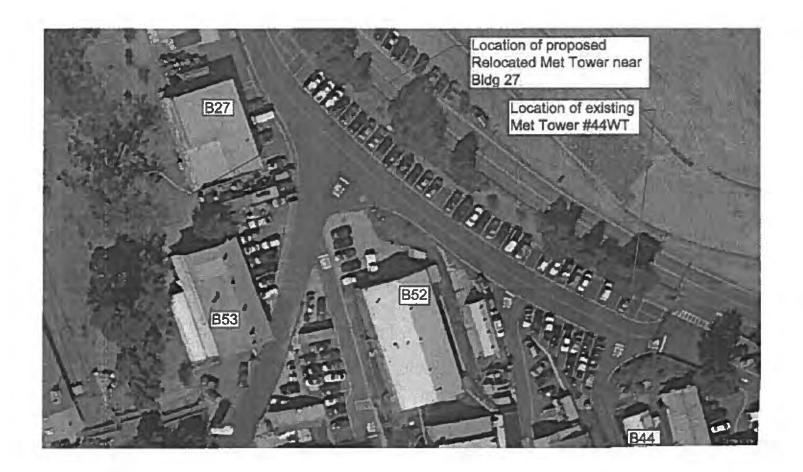


Figure 1