

CUMULATIVE PROJECTS

Section 15130 of the CEQA Guidelines suggest that the following elements are necessary to an adequate discussion of significant cumulative impacts: Either

- (A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency, or
- (B) a summary of projections contained in an adopted general plan or related planning document, or in a prior environmental document which has been adopted or certified, which described or evaluated regional or area wide conditions contributing to the cumulative impact. Any such planning document shall be referenced and made available to the public at a location specified by the Lead Agency.

Adopted plans proximate to the Project site are listed and summarized in part I below. A list of present and probable future projects appears in part II below.

I. SUMMARY OF PROJECTIONS IN LOCAL PLANS AT LBNL, CITY OF BERKELEY, UC BERKELEY:

UC Berkeley 2020 LRDP EIR

The campus 2020 LRDP EIR, certified by The Regents of the University in January 2005, assumed no more than one million gross square feet of construction would be underway at any one time within the Campus Park, Adjacent Blocks, Southside and Hill Campus land use zones. The 2020 LRDP EIR assumed UC Berkeley would grow by up to 18%, or 2,200,000 gross square feet of academic and support space (which excludes, for example, new housing), over 2005 levels by 2020; up to 700,000 GSF of the space demands would be research laboratory space. Of these overall numbers, 1 million gross square feet of new space would be constructed on the Campus Park, 800,000 GSF would be constructed on the West Adjacent Blocks, 400,000 GSF would be constructed on the South Adjacent Blocks, 50,000 would be constructed on the North Adjacent Blocks, 50,000 would be constructed in the Southside and another 50,000 would be constructed upon other Berkeley properties owned by the University. The LRDP assumed up to 100,000 GSF would be constructed in the Hill Campus. The plan anticipated the creation of up to 2,870 new jobs on campus by 2020. The total campus headcount – faculty, student, staff, vendors and visitors -- would grow as much as 12 percent, from 45,940 in 2002 to 51,260 by 2020. This compares to a projected population growth of six percent for the city of Berkeley and 20 percent for the San Francisco Bay Area region. See the 2020 LRDP for a description of these land use areas. Documents available at lrpd.berkeley.edu

LBLN Long Range Development Plan

The Lawrence Berkeley National Laboratory's population in all of the facilities it occupies is projected to grow from 4,515 in 2006 to 5,375 by 2025. The 2006 LRDP describes an entire development program of new research and support space construction and demolition of existing facilities, for a projected net increase in building area on the main site of 612,000 gross square feet (gsf), from 1,808,000 gsf in 2006 to 2,420,000 gsf. See <http://www.lbl.gov/LRDP/> or http://www.lbl-cag.org/docManager/1000000012/LRDP_CAG_3-17-2010_Final.pdf

EXHIBIT C – Cumulative projects as of January 2011

In January 2011 LBNL issued a request for qualifications for a potential new site, to be developed in addition to the existing hill campus site.

City of Berkeley General Plan

The Berkeley City Council gave final approval to the City's General Plan in Spring 2002. The General Plan includes goals to increase the supply of affordable housing in Berkeley, promote living-wage jobs, and encourage infill development. The EIR for the General Plan found that population of Berkeley would remain below 120,000. The City's General Plan can be viewed at <http://www.ci.berkeley.ca.us/contentdisplay.aspx?id=488> and the General Plan EIR can be found here: <http://www.ci.berkeley.ca.us/contentdisplay.aspx?id=492>

As of January 2011, the City of Berkeley is also in the process of completing updated plans for the Downtown and the Southside areas in the vicinity of UC Berkeley. UC Berkeley participated in an extensive process on the Downtown Area Plan to guide planning at its downtown building sites. The new downtown plan is expected to revitalize the downtown in accordance with climate action goals; concentrate housing, jobs and cultural destinations near transit, shops and amenities; preserve historic resources; enhance open space; promote green buildings; and allow two residential buildings and one hotel no taller than 180 feet, and two smaller office buildings up to 120 feet.

II. LIST OF FORESEEABLE PROJECTS AS OF JANUARY 2011:

PROJECTS CURRENTLY UNDER CONSTRUCTIONUC Berkeley - Student Athlete High Performance Center – 142,000 GSF

The new Student-Athlete Center, immediately west of the CMS, will provide a training facility for all Cal student athletes and a home for 13 of Cal's intercollegiate athletic teams. The building includes locker and meeting rooms, office areas, training facilities and academic space. The Center will also house an applied sports science, nutrition and medicine complex. Construction scheduled to complete Fall 2011.

UC Berkeley - California Memorial Stadium Seismic and West Program Improvements – 118,000 GSF (refers to net new program space)

The California Memorial Stadium Seismic Corrections and West Program Improvements project is an element of the Southeast Campus Integrated Projects. The CMS West project reconstructs the west grandstand within the west wall of the California Memorial Stadium with new game day program and fan amenities while retaining the existing bowl shape and the exterior wall. To accomplish this, the project proposes to widen concourses and stairways in lobbies located on the west and north sides of the CMS in order to provide an area with improved access and less crowded conditions. An Athletic Service Center (ASC) would house game day ticketing, loading, solid waste, service, recycling and minimal storage needs for both the Student Athlete High Performance Center (SAHPC) and CMS. The CMS project would include a new two-level elevated press box on the west side. Construction underway would continue through summer 2012.

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UC Berkeley - Li Ka Shing Center for Biomedical and Health Sciences – 200,000 GSF

The site of this project is at the northwest corner of the Campus Park, east of Oxford Street and south of Hearst Avenue. The new building will have five stories above grade and one below grade. The facility will house laboratories, lecture halls, teaching laboratories, a magnetic imaging facility, and an expansion of the existing animal facility. Construction scheduled to complete Fall 2011.

UC Berkeley - Law School Infill – 52,072 GSF

The addition to the Boalt Hall Law School on the Berkeley campus, at the south edge adjacent to Bancroft Way replaces a south facing courtyard. Constructed two stories below the school's courtyard, it will create a new home for the law library's collection. The design includes efficient compact shelving, which will create more space for student research and reading rooms. At ground level, a pavilion-style building will house a café, student lounge, and a 90-person state-of-the-art classroom. A roof-deck garden will be connected by bridges to the Steinhart Courtyard and to the library's main reading room. A newly landscaped entryway will create a green and vibrant transition from the Berkeley Law complex to Bancroft Way. Construction scheduled to complete Spring 2011.

UC Berkeley - Helios Energy Research Facility – 113,000 GSF

Construction of a new facility for the development of carbon-neutral biofuels, the Helios Energy Research Facility, at a site west of the Berkeley Campus Park, near Oxford Street and Hearst Avenue, is underway. Approved by The Regents in January 2010. Facilities totaling 210,000 GSF at 2151 Berkeley Way were demolished in 2010. The larger site may one day also accommodate a Community Health Campus for studies in public health. Construction of the Helios building may complete December 2012.

UC Berkeley - Anna Head West Student Housing – 142,000 GSF

The Anna Head West Student Housing project would construct a new undergraduate housing complex to meet undergraduate student housing goals as described in the University's 2020 Long Range Development Plan. The 2020 LRDP identified a need for over 1,600 new beds of single-student housing. The 135,000 gsf project will consist of a new residence hall for 160 sophomores and apartments for 264 upper division students. The objectives are to meet single student housing demand and to provide the opportunity for students to have continuity in housing throughout their university careers. Construction began Fall 2010, complete June 2012.

Other builders - 2055 Center Street

The nine-story building, located at 2055 Center Street, will include 143 condominiums, 5,000 square feet of retail space, and 10,000 square feet of rehearsal space for the Berkeley Repertory Theater. Construction is underway as of September 2009 and expected to complete in 2010.

City of Berkeley Public Works Improvements

The City has on-going public works improvement programs, including storm drain and paving. A City public works website is updated regularly with information about construction. See <http://www.ci.berkeley.ca.us/ContentDisplay.aspx?id=5838>.

LBLN - Seismic Phase 2

Seismic Phase 1 was intended to correct structural deficiencies in LBNL Buildings 50 and 74 in order to improve their performance in a seismic event and upgrade the seismic rating of the buildings from “Poor” to “Good,” in accordance with the UC Seismic Safety Policy. The Seismic Upgrades Phase 2 project will continue the work of Phase 1 and will modernize the major systems within Building 74, build a new 43,000 gross square foot laboratory building, mitigate potential seismic induced landslides at Building 85 & 85A and demolish the equivalent of 43,000 gsf by removing Buildings 25, 25B, 55 and Building 71 trailers C, G, J, K and P. Building 85 would be seismically strengthened. Construction began September 2009 and is expected to be completed January 2014.

LBLN - The User Support Building

The three-story, approximately 30,000 gsf User Support Building (USB), will include assembly space, support laboratories, and offices. An existing 16,038 gsf structure, Building 10, which housed approximately 24 full-time LBNL staff, was demolished to create space for the USB. An Initial Study/Mitigated Negative Declaration was prepared and circulated in the fall 2006 and certified by the UC Regents in January 2007.

Demolition of Building 10 was completed in 2007. Construction of the USB was initiated in June 2008 and was expected to be complete by late 2010.

LBLN - Building 51 and the Bevatron Demolition

An EIR was certified in July 2007 for the demolition and removal of the Building 51 complex, including the Bevatron (a retired particle accelerator), and the concrete blocks and building shell surrounding it. This EIR was tiered from the 1987 LRDP EIR, as amended. Demolition commenced in August 2008 and is expected to continue through December 2011.

LBLN - Berkeley Lab Laser Accelerator (BELLA)

BELLA will take place almost entirely within Building 71, involving modifications to the internal structure to support a shielded experimental cave and support functions. The cave will house a new laser accelerator system. An additional utility room and stairwell will protrude from the roof. The project was determined to be categorically exempt under CEQA. It was covered by a NEPA EA/FONSI (Finding of No Significant Impact) under NEPA that was signed by the DOE in September 2009. The construction work is scheduled for an approximately 18-month long period between 2009 and 2012.

LBLN - Building 74 Modernization

Building 74 modernization work will include a renovation of the entire building, including new mechanical, electrical, and plumbing systems; new interior partitions; new finishes; and new laboratory casework. The interior of the building would also be remodeled. The work is due to be completed in mid-2012. The project was included in the 2006 LRDP EIR under CEQA and is categorically excluded under NEPA.

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Berryman Reservoir Replacement

EBMUD is replacing the existing empty Berryman reservoir, located on Euclid Avenue, with a modern tank inside the reservoir basin. Demolition started June, 2010 and lasted for several months. Earth and concrete work will continue into early winter. At the end of the year construction will begin on the new steel tank, which will continue into summer of 2011. Landscaping and area restoration will follow construction, with all work expected to be complete by fall 2011. The project is on schedule.

PROJECTS APPROVED, CONSTRUCTION PENDINGCampbell Hall – 81,600 GSF

Design approval has occurred; project delayed due to state budget conditions. Current schedule is to start construction (including abatement and demolition of existing building) in July 2011 with a three year construction duration.

LBNL - Solar Energy Research Center project (SERC)

The approximately 1.5-acre SERC project site is located in the central portion of the LBNL hill site, located south of McMillan Road in the “Old Town” area at the current location of Buildings 25A, 44, 44A, and 44B. The SERC project consists of an approximately 40,000-gross-square-foot (gsf) research facility focused on developing fuels from sunlight. The goal of SERC is to develop the science and technology that would allow the use of sunlight alone as the energy source to create fuels from water and atmospheric carbon dioxide. The building would accommodate approximately 60 employees. Approximately 50 people would be relocated to the SERC facility from other locations within LBNL or UC Berkeley, and there would be approximately 10 new people that would be at the LBNL hill site as a result of project implementation. Project construction is anticipated to occur over a two-year period beginning in mid-2011 and continuing through mid-2013.

LBNL - Computational Research & Theory (CRT) Facility

This project includes an approximately 140,000 gross square-foot computer facility and office structure, associated infrastructure and access improvements. It will be constructed on UC land adjacent to the UC Berkeley campus on Cyclotron Road. The project’s Environmental Impact Report and design were approved by the UC Regents in May 2008, and the project has been subject to litigation delay. Construction may start in early 2011 and complete Fall 2013.

PROJECTS IN PLANNING, DESIGN APPROVAL PENDINGUC Berkeley - Lower Sproul Student Center Project

The Lower Sproul Student Center project will revitalize the mid century modernist complex comprised of Eshleman Hall, ML King, Jr. Student Union, and the Cesar Chavez Center, in order to provide undergraduate and graduate students with a center for student life commensurate with the needs of 21st century students. The project will also renovate Anthony Hall and relocate the Career Center to leased space near Lower Sproul. The scope includes 44,300 gsf demolition, 60-65,000 gsf of renovations, and 75-80,000 gsf of new construction. Construction is expected to be implemented in two phases between 2012-2017.

UC Berkeley - BAM/PFA project

The University proposes to repurpose the existing Print Plant building at Oxford and Center Street in downtown Berkeley to house the Berkeley Art Museum and Pacific Film Archive. The site is home to a 48,000-square-foot, art deco style former printing plant, which will be repurposed into office, education, and gallery space. This repurposed building will be integrated with an adjacent new 30,469-square-foot structure, which will include the PFA Theater, an art and film library, and back of house operations. The new BAM/PFA will be 78,469-square-feet. Construction may occur beginning in 2012, with the new museum opening in 2014.

UC Berkeley - Switch Station 6

The University proposes a new electrical switching station (Switching Station 6) to serve the campus. Switching Station 6 will receive power from the Hill Area Substation, be interconnected with the five existing campus switching stations, have sufficient capacity to accommodate peak campus loads, provide a redundant power supply system, and provide power to the California Memorial Stadium and campus buildings Stanley Hall and Sutardja Dai Hall. Switching Station 6 will consist of a two-story building with a ground floor and subterranean basement floor, with a footprint of 35 feet by 60 feet. The building will be notched into the hillside on the Stern Hall site and north of the Hearst Greek Theater. Buried electrical conduit and cable, which will connect Switching Station 6 to the UCB campus electrical system, will be installed from the switching station to the California Memorial Stadium and to the Hearst Mining Circle area. The electrical conduit will be installed by open trenching to a depth no more than 10 feet below ground surface. Construction would begin in spring 2011 and be complete by January 2012.

UC Berkeley – Maxwell Family Field Parking Structure

The Maxwell Family Field proposal includes construction of a parking structure on the Maxwell Family Field site that would consolidate parking in one location. The structure as described in the IP EIR would have capacity for up to 911 vehicles, in a combination of marked spaces and attendant parking spaces; however, the University has subsequently agreed to limit the total parking spaces to 546. The sports field would be replaced on the roof level (approximately el. +399 to +405 feet) and its size would increase. Approval and construction is not currently scheduled.

UC Berkeley – Law Business Connection

This project involves construction of a new building of approximately 186,000 GSF that would link collaborative programs of the Haas School of Business and the School of Law at a site in the southeast quadrant of UC Berkeley's Campus Park. The central Forum of the proposed connection building would have an estimated indoor seating capacity of 300 people. The project would be located at the site of Calvin Laboratory (which would be demolished) and the former 2241 and 2243 College Avenue buildings. Approval and construction is not currently scheduled.

UC Berkeley - Vegetation Management Projects

The University has applied, through the State of California Governor's Office of Emergency Services, to the Federal Emergency Management Agency (FEMA) for funding under the Pre Disaster Mitigation (PDM) Program to conduct vegetation management activities in Strawberry Canyon, Claremont Canyon, and Frowning Ridge. The vegetation management activities would involve removal of non-native trees, including approximately 10,000 stems of eucalyptus trees from Strawberry Canyon, approximately 12,000 stems of eucalyptus trees from the Claremont

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Canyon area, and approximately 24,000 stems of eucalyptus and pine trees from the Frowning Ridge location. Each project would take place over a three-year period. Environmental review of the projects has not been completed.

LBL - User Test Bed Facility

The User Test Bed facility project would consist of a series of energy-efficient building “testbeds” in the new and existing buildings to allow researchers to conduct measurements of energy use with various prototype building systems such as windows, lights, heating, ventilation, and air conditioning (HVAC), roofs, and skylights. The project is in a very early stage of development; at this time, it appears that the facility would be built primarily by renovating existing floor space in Building 90 and possibly adding a small building next to Building 90 on what is now a parking lot. The project is assumed to include a 10,000-gsf building, but the building may not be built or may be less than 10,000 gsf. The project would add less than 10 new employees to the LBNL hill site. This project has not yet undergone environmental review, and therefore has not been approved at this time (Jan. 2011) However, the project was awarded funding in December 2009, and construction is considered foreseeable in the near term. Final details of the new facility will be determined by DOE staff in order to meet cost and schedule targets.

LBL - Seismic Upgrades Phase 3

The Seismic Upgrades Phase 3 project will include the building of a new 40-46,000 gsf General Purpose Laboratory, demolish the equivalent 40-46,000gsf of seismically unsafe and deficient space within LBNL, upgrade Building 26’s seismic rating from “Poor” to “Good”, upgrade Buildings 45 & 48’s seismic rating from “Poor/Fair” to “Good” and seismically upgrade from “Poor” to “Good” or build a new replacement for Building 54. Design is expected to begin January 2011 and construction is scheduled for completion 2018.

LBL - Old Town Demolition

The building demolition and site restoration of buildings in LBNL’s “Old Town” will include Buildings 4, 5, 7, 7A, 7C, 14, 16, 17, 25A, 27, 40, 41, 44, 44A, 44B, 52, 52A, 53, 53B. These buildings are seismically rated “Very Poor”, “Poor” or “Fair” or unusable due to age. The assessment and characterization of the buildings is expected to begin January 2010 and demolition activities are scheduled for completion 2014.