

Caltech Submillimeter Observatory (CSO) – Decommissioning Status

Definition and Purpose (2010 Decommissioning Plan)

Decommissioning refers to a process that results in the partial or total removal of all structures associated with an observatory facility and the restoration of the site, to the greatest extent possible, to its preconstruction condition.

The decommissioning process guides the deconstruction of the observatory facility and its supporting infrastructure and restoration of the site. In addition to a funding plan, the four components of the process include (1) a Notice of Intent, (2) an environmental due diligence review, (3) a Site Deconstruction and Removal Plan and, (4) a Site Restoration Plan.

Brief Summary of Process and Requirements (2010 Decommissioning Plan)

The decommissioning process is successful when all regulatory compliance requirements are met and the site is deemed returnable to the State. A *Site Decommissioning Plan* (SDP) documents the condition of the site, outlines the approach to decommissioning, and proposes a plan for site restoration. The phases and specific details of the SDP are presented in the 2010 Mauna Kea Decommissioning Plan. An SDP should be submitted at least five years prior to either the termination date of a sublease, or a sublessee's decision to cease operations, or as soon as is feasible if decommissioning is to take place less than five years after a decision is made to cease operations, whichever occurs first.

OMKM is responsible for overall coordination of the decommissioning process. OMKM will liaison with DLNR-Office of Conservation and Coastal Lands (OCCL) as needed, will maintain all required reporting and documentation, and will provide DLNR-OCCL with all relevant documentation. Deconstruction and site restoration efforts will be managed by the sublessees with oversight by OMKM. [The Department of Land and Natural Resources (DLNR) indicated that an Environmental Assessment (EA) and Conservation District Use Application (CDUA) and Permit (CDUP) will be required for CSO decommissioning. Caltech has also chosen to prepare subject-matter specific technical reports to inform the preparation of the Site Decommissioning Plan and Environmental Assessment.]

The Board of Land and Natural Resources (BLNR) is the final authority regarding approval of the (Site) Decommissioning Plan.

There are several elements of the decommissioning process that will incorporate community input. A process similar to the Board of Regents-approved Major Project Review Process will be established to review, guide and recommend the disposition of a site, including site restoration and planning.

Reviewers will include OMKM, Mauna Kea Management Board, Kahu Kū Mauna, and the Environment Committee [note: the review process also includes establishment of a technical group to review site-specific documents, the "Decommissioning Review Committee"].

Scope of Documents to Review and Analyze

Following is a non-exhaustive list of the documents reviewed and analyzed in the Environmental Assessment and Site Decommissioning Plan. Review of historical documents in particular should be reviewed for compliance measures.

- Observatory Construction Documents
 - Final Environmental Impact Statement (FEIS) or Environmental Assessment (EA)
 - Conservation District Use Application (CDUA)
 - DLNR Staff comments and correspondence regarding the CDUA
 - Conservation District Use Permit (CDUP)
 - Sub-Lease and Master Lease
- Operating documents
 - Operating and Site Development Agreement (OSDA)
 - Subsequent permits and operating agreements for original and any additional infrastructure and uses
 - Improvements resulting from other Observatory permits
- Planning Documents
 - County General Plan
 - 2000 Mauna Kea Master Plan (and EIS)
 - 2009 Mauna Kea Comprehensive Management Plan (including EA and subplans)

Activities not requiring a permit

- Removal of interior items for reuse or recycling (ongoing).
- Removal and relocating of the mirror (pending funding).

CSO Decommissioning Process Status

	Document	CSO Submission Date	Review by Decommissioning Review Committee	Kahu Kū Mauna / Env. Committee Consultations	Public Comment or Hearings	Status	
	Press Release	2009				Operations ceased 2015.	
Site Decommissioning Plan (SDP) (estimated 5-yr process per Decommissioning Plan)	Notice of Intent (NOI) *	Nov '15 & Mar '16	May 2018	Apr '16 / Jan '16	At May '16 MKMB mtg.	Completed Approved by OMKM and MKMB	
	Environmental Due Diligence Phase 1 ESA *	Jun '18	August 2019	Aug '18 / Oct '18		Completed Approved by OMKM. Pending "Phase 2 ESA" (below)	
	Cost / Benefit Analysis *	Outstanding	Review TBD	TBD	During the EA process	Outstanding Not simply monetary	
	Site Deconstruction & Removal Plan (SDRP) *	Outstanding		TBD		Outstanding	
	Site Restoration Plan (SRP) *	Outstanding		TBD		Outstanding	
Environmental Assessment	Project Scoping	Apr '18	May 2018	Dec '18 / Oct '18	2018	Completed	
	Technical Reports Archaeology Cultural Setting Geology/Hydrology Biology (2 reports) Transportation, Hazardous Material	Aug '18 Outstanding Apr '19 Apr/Jun '19 Jul '19 Mar '19	August 2019	Aug '18 / NA Outstanding May '19 / Pending May '19 / Pending Pending / Pending May '19 / Mar '19	Reviewed as appendices with the EA (below)	KKM consultations: Aug '18, May '19 Env. Comm consultations: Jan '19, Mar '19 Outstanding Cultural Setting	
	Pre-Final DRAFT EA	Outstanding		TBD	Informal	Outstanding	
	DRAFT EA * UH submits to OEQC		Review(s) TBD	TBD	Formal	Premature Timing as to when a Preferred Alternative is selected by UH (applicant) is to be determined.	
	Final EA * UH submits to OEQC			TBD	Comments accepted	Premature	
Conservati on District Use Permit	Application (CDUA) *	UH applies to DLNR	Review TBD	TBD	OCCL hearing anticipated	Premature	
	Permit (CDUP)	Issued by BLNR			BLNR public hearing	Premature	
Implement-ation	Deconstruction	Removal & Restoration	Review TBD	TBD		Pending a Permit	
		Phase 2 ESA				TBD	Contaminant testing of cesspool and below dome foundation
		Remedial Action Plan				TBD	If needed

* Per 2010 Decommissioning plan approvals include OMKM, MKMB, and UH President. The final "Site Decommissioning Plan" may include approval by the UH Board of Regents.