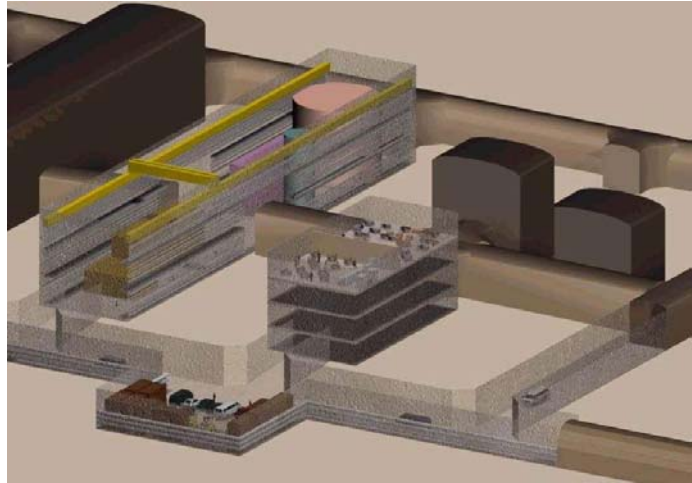


San Jacinto National Underground Science Laboratory

A CNA-led team conducted geologic and engineering studies, and prepared a preliminary design for a national underground science laboratory (NUSL) at Mount San Jacinto, near Palm Springs, CA. CNA prepared the project WBS, conducted site investigations, prepared preliminary designs for heavy civil construction, prepared cost estimates and estimated the project construction schedule.

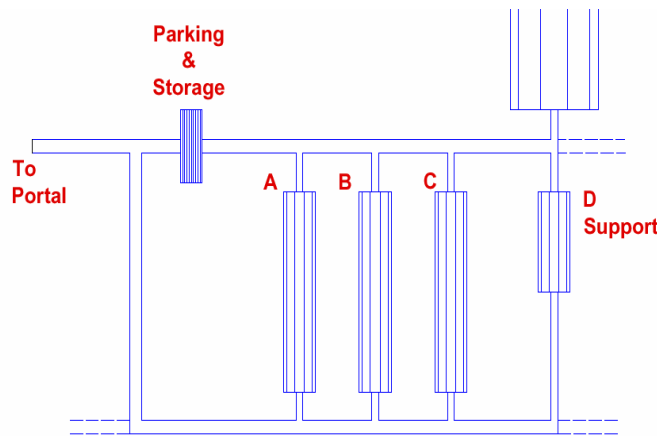
The San Jacinto NUSL facilities would consist of aboveground administration, warehouse and assembly buildings, and an extensive complex of laboratory caverns located deep within Mount San Jacinto.

One or two tunnels would provide access to the underground cavern complex, consisting of several interconnected caverns providing storage, common space, service functions, and space for future detectors.



Shielding of about 6,510 mwe is possible with a 1 percent up grade from the portal to the cavern complex. The tunnel length for this shielding option is 7,600 m.

Extensive site reconnaissance work formed the design basis for the heavy civil construction of the laboratory. The form, function and operating characteristics of the laboratory facilities were determined via interaction with the user groups.



Laboratory capital and operating costs were estimated based on the project WBS. The laboratory development schedule was estimated, including the environmental studies and mitigation plan necessary to address environmental concerns, site investigation and design work and construction phase. CNA assisted UCI in presenting the laboratory plan to the Bahcall Committee, and in preparing the funding proposal submitted to the U.S. national Science Foundation.

Owner — University of California-Irvine

Completion Date — Study completed 2002

Construction Cost — \$250 million

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