

**UNIVERSITY OF HOUSTON SYSTEM
BOARD OF REGENTS AGENDA**

COMMITTEE: Facilities, Construction and Master Planning

ITEM: Approval of the UH Central Plant Expansion Site and Program

DATE PREVIOUSLY SUBMITTED: N/A

SUMMARY:



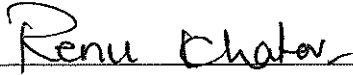
Approval is requested for the UH Central Plant expansion program. The proposed plan would add approximately 8,000 square feet; add three, 2,500-ton chillers, replace all existing cooling towers and add one, new cooling tower cell.

FISCAL NOTE: \$45 million, Capital Renewal and Deferred Maintenance

SUPPORTING DOCUMENTATION: Justification and Site Map

ACTION REQUESTED: Approval

COMPONENT: University of Houston

		<u>3-31-09</u>
PRESIDENT	Renu Khator	DATE
		<u>3/31/09</u>
EXECUTIVE VICE CHANCELLOR	Carl Carlucci	DATE
		<u>3-31-09</u>
CHANCELLOR	Renu Khator	DATE

University of Houston

Agenda Documentation

CENTRAL UTILITIES PLANT EXPANSION

This project is critical for Tier One and Campus expansion and has a number of goals:

1. Existing equipment in the Central Plant is past its manufacturer recommended life, is increasingly expensive to maintain and repair and must be replaced.
2. The current equipment is older and therefore, the central plant is energy inefficient and not as clean as new state of the art technology—a major problem in an air quality non attainment zone like Houston. The Federal Government and EPA have mandated that we replace existing equipment with new lower polluting equipment as part of the mandates to force Houston to meet clean air requirements.
3. The increased energy efficiency that will be realized by the installing the new equipment, we will reduce energy usage by 3-4% resulting in significant savings for the university. Additionally, we will reduce the University's carbon footprint dramatically.
4. The expanded central plant will increase the University's utility capacity to serve the future buildings needed to support the Framework Plan and house Tier One Research: increased on campus housing, additional instructional, and student support space.

Project Budget:

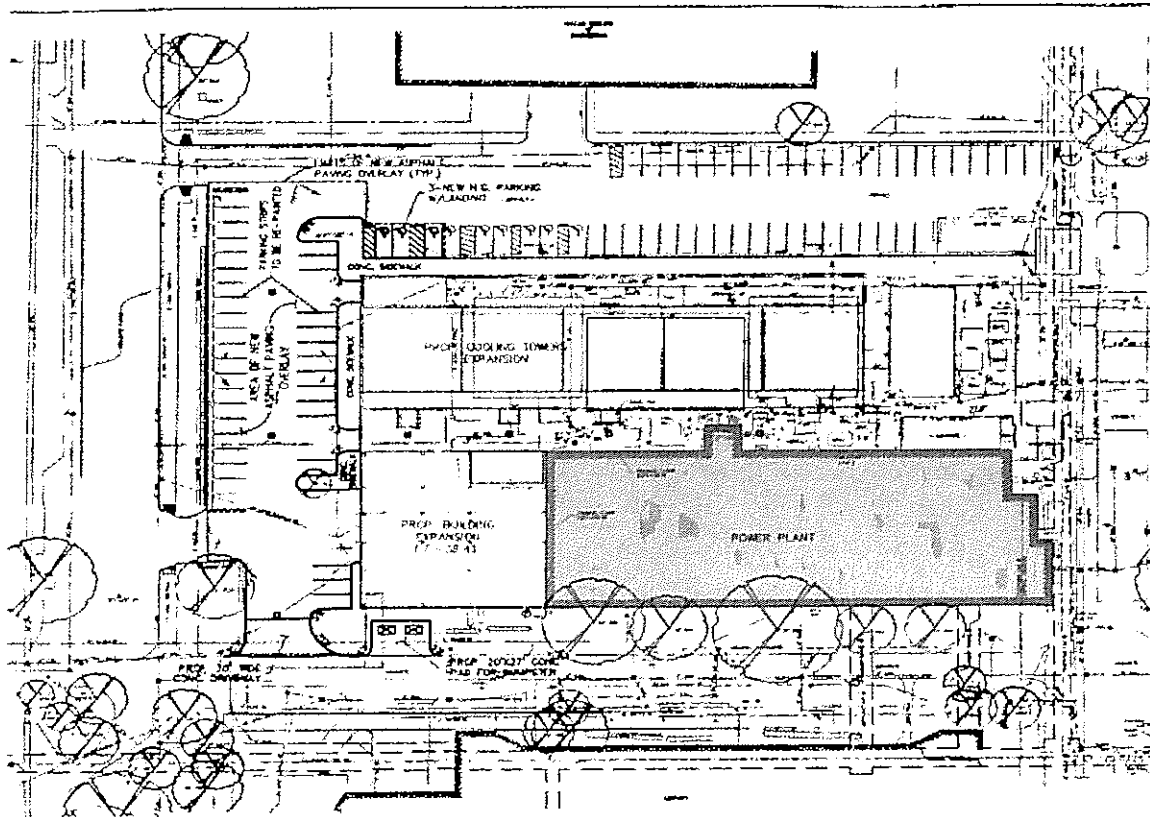
Demolition Costs	\$	2,750,000
Construction Cost	\$	3,700,000
Fixed Equipment	\$	28,000,000
Furniture And Movable Equipment	\$	15,000
Contingency	\$	6,800,000
Professional Service Fees	\$	3,436,000
Public Art	\$	480,000
Total Project Budget	\$	45,181,000

April 15, 2009

Campus Map – Central Power Plan Location



April 15, 2009



Proposed Expansion of the Central Power Plant

April 15, 2009