

Accreditation:

Facilities Condition Assessment:



94.9% score – Ranked the highest in the State of Utah in 2008

The audit was conducted Dec. 9-11, 2008, during a snowy period when the campus could have looked much less than pristine. Dan Harrison, who led the facilities condition assessment, was very complimentary about staff and the level of care that was apparent at SUU from the Facilities Management Team. In his report, he made this statement: *"Overall, the campus of Southern Utah University was found to be in very good condition. The overall level of effort with respect to the maintenance program at the campus exceeds the norms found in higher education maintenance operations across the nation."*



96% score – Ranked the highest in the State of Utah in 2005

Accreditation of SUU by the Northwest Commission on Colleges and Universities in 2004:

Commendations highlighted by the Accreditation Evaluation Team:

“. . . a beautiful campus that is well maintained, a progressive approach to water conservation, . . . preventative maintenance efforts are the best in the USHE . . .”

Current & Recent Projects:

Gibson Science Center Addition

- | | | |
|-------------------------------------|-------------------------------|--------------|
| ○ New square footage 48,445 sq. ft. | Grant Funding (HCOF): | \$ 377,190 |
| ○ Footprint 11,500 sq. ft. | State Funding: | \$13,851,036 |
| ○ Raze 9,491(Life Science) | Donation: | \$ 5,000,000 |
| ○ Greenhouse | Programming Funds: | \$ 78,020 |
| ○ Museum of Natural History | Estimated Total Project Cost: | \$18,851,036 |
| ○ Faculty offices | | |
| ○ Animal Care Rooms | | |
| ○ Classroom | | |
- Programming completed: January 2008
 - Estimated Completion: December 2010

Student Housing Phase II

- | | | |
|--|---------------|--------------|
| ○ New square footage 56,700 (28,350 each in Buildings A & B) | Bond Funding: | \$14,583,061 |
| ○ 272 beds | | |
| ○ 136 Bedrooms | | |
| ○ 6 Group Study Areas | | |
- Project is 90% Complete
 - Estimated Completion Date: July 23, 2009

Facilities Management Administration Building:

- New gross square footage 4,160
- Combined division heads in one area
- Returned current space at the center of campus for academic purposes
- Site work began the end of June 2008
- Completion: December 2008.

New Teacher Education Building

- | | | |
|-----------------------------|----------------|-----------------|
| ○ New square footage 36,731 | State Funding: | \$11,480,551.33 |
| ○ 14 Classrooms | | |
| ○ 2 Computer Labs | | |
| ○ 28 Faculty offices | | |
- Completion: February 2008

Old Main Seismic Upgrade & Renovation

- Building Square Footage 17,016
 - 6 Classrooms
 - 17 Faculty Offices
 - Completion: February 2008
- State Funding: \$ 4,293,900

Carter Carillon

Construct a Bell Tower on upper campus south of Teacher Education and Old Main. Steel work complete. Bells installed mid-October 2007. January 2008 Completion.

- Clock Contract \$ 34,735
 - Construction Contract \$ 955,026
 - Design \$ 46,000
 - Bells \$ 192,225
- Total \$ 1,227,986

Completed: June 2008

Staffing:

59 full-time; 1 half-time; 152 Student Workers

Campus Information:

Valley Farm

- 1,032.44 acres with 7 agricultural buildings & staff housing

Mountain Center

- 6,002 square feet of mountain cabin on 2,629 acres of mountain property

Main Campus

- 135 Maintained Acres
 - 67 acres of Turf
 - 70 acres Landscape total
 - 2 acres of Xeriscape (Water savings = 467,557 gallons or 17.22 inches per year)
 - 1 acre of Flower Beds
 - 24 acres of Parking Lots (snow removal)
 - 9 miles of Sidewalks
- 3,172 Work orders completed in fiscal year 2008
- 22 vehicles in our rental fleet (16 minivans, 4 sedans, 1 SUV, and 1 pickup) (updated 2008)
- 66 Maintained University-owned Buildings

- Total square footage: 1,104,242 sq. ft.
- 10 New Buildings (less than 10 years old)
 - Housing Maintenance Shop 1992/1998/1999
 - Facilities Management Custodial Shop 1998/1999
 - J.L. Sorenson P.E. Building 1999/2000
 - Facilities Management Equipment Storage Bldg. 2000
 - South Hall (New) 2003
 - Eccles Living Learning Center A 2004
 - Eccles Living Learning Center B 2004
 - Eccles Living Learning Center C 2004
 - Emma Eccles Jones Education Building 2007
 - Facilities Management Administration Building 2008

Facilities Management Conservation Efforts:

Utility Services

- **Photovoltaic Solar Array installation at new Facilities Management Administration Building** – Installation of a 2kW photovoltaic net metering system, which will produce power and relieve campus electrical load. It will produce 5,376 kilowatt hours of electricity per year, enough to offset the production of 7,365 lbs. of CO2 that would otherwise be released to the atmosphere and is the equivalent of electrical power used by 1.53 homes in a year.
- **Photovoltaic Solar Array installation** - Installation of a 10.2kW photovoltaic solar array on the Utility Shop, producing an estimated 27,400 kWh of electricity per year, enough to run 7.8 homes and offset over 37,400 pounds of CO2 per year.
- **Recommissioning projects** – Sharwan Smith, Student Center, Centrum- a fine point effort to restore building operating systems to like new efficiency.
- **CFL Purchase to eliminate incandescent lights on campus** - Purchased 500 compact fluorescent lamps for installation in the Hunter Conference Center and the Library as a step toward our goal of eliminating incandescent lights on campus. These were purchased as part of a program that was supplemented by Rocky Mountain Power, so the cost of the bulbs to us was \$0.99 each, a substantial savings from \$2.50-\$3.00 each.
- **38 waterless urinals on campus**- each urinal saves up to 40,000 gallons of fresh water per year.
- **Refrigerant recovery/ reclaiming program** – recovers and recycles 100% of the refrigerant used on campus
- **Metals recycling**- recycles several hundred pounds per year of copper, brass, steel, aluminum, and stainless.
- **Building scheduling**- daily scheduling efforts to minimize operation times of large building mechanical systems
- **Only Ultra-low sulfur diesel used on campus** –significantly reduces sulfur dioxide emissions on campus
- **NEMA premium efficiency motors**- Established as a University standard to reduce electrical consumption and minimize utility demand charges due to low power factor.
- **Variable Frequency Drives**- allows variable speed operation of electric motors to significantly reduce their power consumption
- **Extensive lighting retrofits** – High efficiency lighting products installed in the Administration, Sharwan Smith, Student Center, Science, Business, Shops, and ELC buildings.
- **Utility tracking via sub-meter reading**- Helps utility management by allowing individual buildings to be metered

- **Campus lighting standards developed**- for indoor and outdoor fixtures, addresses energy efficiency and light pollution
- **Steam powered condensate pumps** – located in Multi Purpose, Sharwan Smith, Teacher Ed, and soon in the Heat Plant. Uses the pressure of live steam to move condensate back to the Heat Plant in the steam distribution system.
- **Heat Plant conversion to #2 oil for emergency back up** - reduces all aspects of emissions from the Heat Plant, including opacity, SO_x, NO_x, and VOC.
- **Annual Heat Plant emission report**-Illustrates outstanding air quality compliance for two years running.
- **Smart panel lighting controls and Honeywell light scheduling**- allows for precise lighting control of lights inside and outside of buildings, year round.
- **Reduced steam pressure operation in Heat Plant**- saves energy by not having to maintain pressures that are above what is required for campus distribution.
- **Lighting controls on tennis courts** – reduce run time with automatic timers that limit per time use and hours per day use, saving an average of 84,000kWh per day.
- **Pipe insulation repair and replacement** – The repair and replacement of insulation on steam, hot water, and chilled water lines saves thousands of BTU's per year.
- **Multi-Purpose Dance Lab lighting retrofit**- replacement of misapplied lighting fixtures to reduce power consumption and improve light quality
- **Student Center Chiller replacement** – New chiller replacing old chiller that was failing. New machine will save 27,217kWh/year, a monetary savings of \$926 per year.

Custodial

- **Utilizing Micro-fiber Technologies** – Currently using rags, dust mops and wet mop system with micro-fiber.
- **Testing three lines of “Green Seal” certified chemical lines** – once testing is complete we will convert to product line that is both effective and cost competitive.
- **Recycled paper** – We purchase out paper products (toilet paper and paper towels) from Kimberly-Clark professional who uses a minimum of 40% post consumer waste content for paper towel and minimum of 45% post consumer waste content for toilet paper. Both products are manufactured with elemental chlorine-free (ECF) bleaching.

Motor Pool and Receiving

- **Tire Recycling** – when Motor Pool receives new tires, the old ones are hauled to Salt Lake City where they are ground up and used for road surfaces and rubberized running tracks in schools and colleges
- **Vehicle Battery Recycling** – when Motor Pool replaces batteries, the old batteries get shipped back to the factory and 100% of them get recycled
- **Fuel Efficient Vehicles** – Motor Pool is researching vehicles which run on compressed natural gas or electricity for future purchases
- **Pallet Recycling** – Pallets are picked up from Receiving and refurbished and re-used.

Building Maintenance, Repairs & Project Administration

- **Roofing** – use roofing materials that are light in color and reflective, reducing the solar gain
- **Insulation and Venting** – use different insulation and venting methods to increase energy efficiency. At the Mountain Center, we have installed a new roof using these methods, which has yielded a 44% decrease in propane consumption
- **Re-caulking windows** – helps increase energy efficiency - currently working on the Centrum
- **Carpet Tile** – use carpet tile that is recyclable and wastes very little because of the layout. Also use a water based formula glue with minimal VOCs
- **Weather-stripping** – Install weather stripping on thresholds to better seal doors on many buildings, including: Randall Jones Theatre, Bennion Building, Harris Center, and Music Building.
- **Parts/Supplies Shopping** – Employees from all shops are combining trips to the store for parts and supplies to reduce fuel consumption

Grounds and Gardens

- **Water savings**
 - Xeriscape
 - Maxi-com Irrigation Systems
 - Drought Tolerant Plants
 - Adapt plants to fix areas with low water
- **Landscape Waste**
 - Re-use pruned tree limbs as mulch
 - Leave Grass clippings to become organic material for turf
- **We plant an average of 50 trees each year**
 - One tree can filter up to 60 pounds of pollutants from the air each year. More than 1/3 of all fiber used to make paper comes from recycled paper. Only 1 percent of the world's water supply is usable; 97 percent is in the ocean and 2 percent is frozen. It takes a 15-year-old tree to produce 700 grocery bags.

Space Planning, Risk & Project Administration

- **Space Heater Exchange**
 - Will purchase energy efficient and safety approved space heaters to replace those currently being used on campus (in the Fall).

Construction Services

- **Sustainable site designs include energy efficiency and environmental measures, including:**
 - Natural shade to reduce heat island effect from parking lots and landscaping areas
 - Shielded or reduced parking and façade lighting to reduce night sky pollution
 - Use local building materials and products to support local economy and reduce the environmental impacts from transportation
 - Protect wetlands and green spaces
 - Provide a recycling center
 - Reuse existing building to conserve our resources
 - Engage an Energy Specialist on construction projects
 - Designer shall select on-site renewable energy such as photovoltaic, wind, geothermal, and fuel cells utilizing biogas to reduce source energy use
 - Designer shall use daylight as the primary lighting system for 40-90% of the space
 - For indoor air quality, designer shall select adhesives and sealants, paints and coatings, carpet, and composite woods with low-emitting materials
 - For indoor air quality management, contractor shall ensure that Volatile Organic Compounds (VOC), dust, oils, and odors have been contained and removed before occupancy.
 - For recycled content, designer shall select building products that have incorporated recycled-content in major materials from the Construction Products category of the US EPA procurement guidelines
 - For construction waste reduction, contractor shall ensure that construction waste, demolition, and land clearing waste are recycled, composted, and salvaged
 - Designer shall select water-efficient fixtures and appliances for new construction, including waterless or ultra-low flow urinals, sensor flushometer toilets, etc.

Capital Improvements 2007/08

Southern Utah University	07/08 DFCM		
	Funding	Status	Completion Date
1) Student Center Chiller Replacement	\$418,200	Demolition phase	Feb. 2008
2) Heat Plant Fuel Tanks & Emergency Generator Phase II	\$208,200*	Project 99% complete	Dec. 2007
3) Swimming Pool Re-plaster	\$250,000	Contract Awarded	Jan. 2007
4) Campus Fire Systems	\$218,800	On Schedule Progress	April 2008
5) Teacher Education Building: Fire Lane & Water Line	\$175,000	Complete	February 2008
6) Campus Master Plan	\$ 62,500*	On Schedule Progress	July 2008
7) Campus Utility Master Plan	\$125,000	On Schedule Progress	June 2009
8) ADA Accessibility Issues	\$219,000	On Schedule Progress	March 2008
9) Library/Centrum/Eng Tech. Concrete Settlement and Water Damage	\$375,000	On Schedule Progress	June 2008
10) Parking Paving Improvements	\$125,000	Complete	April 2008
11) Roofing: Harris 2 & 3	\$139,000	Complete	
12) Roofing: Mountain Center	\$150,200	Complete	
13) Roofing: Randall Jones Theater	<u>\$ 44,500</u>	On Schedule Progress	May 2008
Total Allocation:	\$2,510,400		

Capital Improvements 2008/09

Southern Utah University	08/09 DFCM Funding	Status	Scheduled Completion Date
1) Randall Jones Theater: Theatrical Lighting & Dimming System	\$332,700		Feb. 2009
2) Gravel Parking Lot Paving (DFCM Reimbursement)	\$ 53,400	Reimbursement Complete	
3) Campus Master Plan (DFCM Reimbursement)	\$ 52,100	Reimbursement Complete	
4) Engineering and Technology: Air Handler Replacement	\$317,200		July 30, 2009
5) Heat Plant: Catwalk System Upgrade & Steam Tunnel	\$119,200		June 30, 2009
6) Steam Tunnel Ventilation	\$222,300 (Bid \$98,394)		
7) Multipurpose Building: Acoustical Tile Upgrades	\$ 53,600 (Bid \$39,168)		June 30, 2009
8) General Classroom Building: Classroom Upgrades	\$178,700 (Bid \$68,540)		June 30, 2009
9) Heat Plant: Condensate Tank Relocation	\$223,900 (Bid \$129,850)		Fall 2009
10) Facilities Management Building	\$475,000		December 2008
11) Hunter Conference Center: Carpet Replacement	\$108,000		May 2009
12) Centrum Arena Door Replacement	\$119,200		Oct. 2008 (Design)
13) Roofing: Auditorium	\$ 30,000		
14) Roofing: Multipurpose Building	\$ 30,000		
15) Paving: Asphalt Parking Lot Seal/Slurry Coating	\$111,200		July 2009
Total	\$2,426,500		

*Not reflected here is funding from previous years or from in-house accounts – see Weekly Status Report for total funding

Capital Improvements 2009/10

Southern Utah University	09/10 DFCM Funding	Status	Completion Date
1) Fire Sprinklers Piping and Alarm Systems Upgrade: Student Center, Multi-purpose Center, Hunter Conference Ctr. & Heat Plant	\$227,430	Met with Spectrum on 5/27/09	
2) Quichapa Flood Channel: North Boundary of SUU Valley Farm	\$142,000	Meetings Tuesdays @ 10 am	
3) Utility Tunnel Entry/Exit Hatchways	\$108,000	Awaiting proposal from Stanley	
4) Steam Distribution System Anchoring and Expansion Joint Improvements: Heat Plant	\$230,000	Awaiting proposal from Stanley	
5) Renovate Space: Electronic Learning Center	\$151,200	Plans at State Building Officials office	
6) Steam Condensate Line Safety Repairs: Heat Plant	\$100,800	Awaiting proposal from Stanley	
7) Tennis Court Rebuild	\$240,000	Met with Design Engineer on 6/17/09	
Total	\$1,429,430		

Items not approved in the 09/10 request were:

- 1) Asbestos Abatement and Ceiling Tile Reinstall: Electronic Learning Center
- 2) Replace Boiler #1: Heat Plant
- 3) Exterior Window Replacement: General Classroom

***Not reflected here is funding from previous years or from in-house accounts – see Weekly Status Report for total funding**