

# FY 2010 Capital Improvement Requests

Agency/Institution



**Southern Utah University**

Revised June 18, 2008

Priority	Project Name	Cost Estimate	Condition Assessment	Description/Justification
1	Fire Sprinklers Piping and Alarm Systems Upgrade: Student Center, Multi-purpose Center, and Hunter Conference Center	\$335,000	(Life Safety)	1) \$50,000 - Extend Student Center fire sprinkler system piping so that sprinkler heads extend through the ceiling into the room for effective fire suppression. 2) \$90,000 - Upgrade fire alarm panel and devices to an addressable system in the Student Center portion of the Sharwan Smith Center. 3) \$105,000 - Upgrade alarm panel and devices to addressable system in the Multi-purpose Center. 4) \$90,000 - Upgrade fire alarm panel and devices to an addressable system in the Hunter Conference Center.
2	Quichapa Flood Channel: North Boundary of SUU Valley Farm	\$150,000		One-third partnership funding with Iron County and Cedar City for total \$450,000 project to stabilize flood channel at SUU boundary of Valley Farm. Emergency repair of flood channel will re-establish north property line which has dramatic erosion, and will protect SUU from continued flood damage.
3	Summer Boiler Installation: Heat Plant	\$480,000	(Energy Savings) N/A	A recent Heat Plant engineering study recommends the following: Install a small capacity boiler for use during times of low heat load, primarily in the summer months. Allows for an efficient means of providing steam for reheat systems in campus buildings and decreasing corrosion and degradation in steam distribution systems, saving approximately \$140,000-\$170,000 annually in maintenance and equipment replacement costs. Project will include removal of de-commissioned coal boiler and associated equipment.
4	Steam Distribution System Anchoring and Expansion Joint Improvements: Heat Plant	\$285,000	(Life Safety) N/A	A recent Heat Plant engineering study recommends the following urgent need: Perform stress analysis models on the existing distribution system to verify compliance to B31.1 Power Piping Code. This will indicate the needed improvements of the anchoring and expansion joints of the existing distribution system (several have already failed). This request includes the repair of failed anchors.
5	Tennis Court Rebuild	\$200,000		Rebuild six failed tennis courts. Exterior tennis court surface and asphalt have failed and need complete replacement to be playable and at a collegiate level facility. Removal of existing material, compaction, 3" of new asphalt and new playing surface.
6	Steam Condensate Line Safety Repairs: Heat Plant	\$85,000	(Life Safety)	Replace undersized condensate drip legs on Steam Distribution System with larger sizes to prevent condensate blow over and resultant hammer effect on steam lines. Hammering jeopardizes pipe integrity and will cause piping failure, resulting in property damage and safety threat from broken steam lines in tunnel.

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7	Asbestos Abatement and Ceiling Tile Reinstall: Electronic Learning Center	\$250,000	(Life Safety)	Remove asbestos-bearing ceiling tile and replace with new ceiling tile and lighting. Provides safe maintenance access and safer environment. No further remodel and maintenance can be done in ELC until this project is completed.
8	Renovate Space: Electronic Learning Center	\$100,000		Provide critical office space for IT staff. Includes individual HVAC upgrade and controls, electrical revisions and finishes. Renovate two offices (rooms 509 and 519) and a conference room (room 518) to create space for six offices. This project is contingent on funding of "ELC Asbestos Abatement and Ceiling Tile Reinstall" project on this list (currently Priority #8).
9	Utility Tunnel Entry/Exit Hatchways	\$350,000	(Security & Life Safety)	Entry/Exit hatches need to be installed in Utility Tunnel at various locations to secure campus buildings and provide employees emergency egress capability.
10	Exterior Window Replacement: General Classroom	\$250,000	(Energy Savings) ES5B	Remove and replace windows and frames with new energy efficient windows and exterior panels. Seals have failed and windows are leaking, making replacement necessary.
11	Concrete and Asphalt Replacement: Alumni House, Campus Motor Pool, Sharwan Smith Center North, and Multi-purpose Parking Lots	\$320,000	S17B-ISUU S138-4 S15B-ISUU S103-3 S15B ISUU S124-3	Serious asphalt damage to various parking lots. Need to replace: Alumni House, W. Campus Motor Pool, Sharwan Smith Center North, and Multi-purpose parking lots.
12	Underground Fuel Tank Replacement: Heat Plant	\$425,000	(End of Life Equipment Upgrade) N/A	Required as part of the interruptible rate received from Questar Gas to supply boilers with an alternate fuel source in the event that natural gas service is stopped for routine or emergency situations. Replace tanks with three 20,000 gallon double wall fiberglass tanks with integral leak detection and remote monitoring and unify piping, and connect with existing underground tanks and all three boilers to provide additional emergency fuel source for all three boilers in Heat Plant and allow redundant operation of fuel tanks and boilers. These tanks would increase our emergency operation duration to a maximum of 29 days and a minimum of 10.8 days (based on firing rates for number 2 boiler) for operation on #2 fuel, as compared with current duration of operation on #2 fuel oil at a maximum of 9.72 days and a minimum of 3.61 days.
13	Thunderbird Room Addition: Centrum	\$300,000		Addition to Centrum (approximately 1,200 SF). Creates a collegiate level dignitary/guest meeting space for use by Athletics, Administration, and other departments.

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14	Generator and Transfer Switch Replacement: Centrum	\$235,000	(Life Safety) N/A	Replacement would allow the continued provision of reliable back-up power in a high use area of campus with high occupancy loads. This generator is the oldest on campus and is running with a very antiquated transfer switch. The old generator could be relocated to a less critical area of campus.
15	Entrance Door replacement & Electronic Access Control: Various Sites	\$100,000	AC3C	Replace worn entry doors in General Classroom, Sharwan Smith, Multipurpose Center, and Business Building. Install electronic access control doors in Sharwan Smith, Administration and Business Building to meet security and ADA accessibility regulations.
16	New Storm Drain: 300 West	\$370,000		In partnership with Cedar City Storm Drain Master Plan. \$370,000 is SUU's portion of project funding. Total project is \$4,000,000 to construct major storm drain line at 300 West along southwest boundary. Provides piped drainage in lieu of surface drainage which caused flooding in past years.
17	High Voltage System Upgrade: Various Sites	\$490,000	(Life Safety) N/A	Install high voltage switching at sectionalizer locations on campus that will provide opening and closing capability of all three phases of power for circuit isolation and configuration. Existing equipment is outdated and unsafe for campus personnel and requires handling of potentially live 15KV connections.
18	Track Replacement: Stadium	\$500,000	S13A-ISUUS139	Stadium track is separating from the asphalt and requires extensive repair to upgrade to more durable long life product. New technology will save on repair costs.
19	Office Reconfiguration: College of Computing, Integrated Engineering, and Technology (CIET)	\$50,000		CIET continued growth requires appropriate office space for the Dean's suite. To meet this need, a classroom would be converted to offices. This will free up the space for other faculty offices and a much needed conference room.
20	Building Renovation: Multi-purpose Building	\$500,000		Design and engineer to upgrade failing infrastructure (mechanical & electrical) and technology to meet critical academic needs in the Multi-purpose building. Improvements will address ADA, mechanical, electrical, fire suppression, and data systems.

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21	Concrete and Asphalt Replacement: PE Northeast and West Parking Lots, Randall Southeast Ramp, Coliseum Northwest Service Entrance, West Campus Shops	\$300,000	S17B-ISUU S138-4 S15B-ISUU S103-3 S15B ISUU S124-3	Deteriorated concrete and asphalt pavement replacement all over campus. Widen northeast Stadium stairway to 16' to meet fire stadium occupancy load egress requirements. Replace damaged concrete at various other sites on campus. Replace asphalt parking lots: PE Northeast and West (one-way road), Randall Southeast ramp, Coliseum Northwest service entrance, and West Campus Shops. Correct flooding issues around Utilities Shop, remove and reslope asphalt in front of shop, and relocate Greenhouse to allow additional parking and access for heavy equipment.
22	Sectionalizer 15kv Switch and High Voltage Copper Wire and Conduit: West Campus	\$165,000	(Energy Savings)  West Campus	Would provide long term savings by reducing electrical demand charge with meter elimination. Project will connect West Campus to the main meter.
23	Automation and Building Mechanical System Commissioning and Upgrade: Campus Sites	\$265,000	(Energy Project) N/A	Upgrade and install building automation systems and commissioning for energy conservation and effective equipment control. Commissioning of building mechanical systems provides adequate air flow to all building areas and integrates automation controls for Energy Conservation and comfort. Buildings included in project are: Centrum, General Classroom, and Library.
24	Chiller and Cooling Tower Replacement and Addition of Ice Storage: Centrum	\$635,000	(Energy Savings) N/A	Replace 24 year old failing chiller and cooling tower with 2 tandem chillers and one staged cooling tower and add ice storage capability. Tie piping to the Sharwan Smith chiller for building to building staging and increased efficiency. The new chillers would run with a better than 30% reduction in energy consumption. Adding ice storage would further increase the efficiency by allowing off-peak, full capacity run times, which would reduce peak power usage and increased machine life due to full capacity loading.
25	Mechanical System Upgrade: Bennion Building	\$275,000	(Energy Project) 0211 - HV01-HV02	Install a new heat exchanger for a re-heat loop system, coils at the VAV boxes, and associated piping. Replacement of pneumatic building automation controls. The mechanical system installed in the 30 year old building was very minimal then and never adequate for the use of the facility. Replacement of the mechanical system would provide comfortable temperatures in all of the building areas and energy savings due to increased environmental control.
26	Building Renovation: Harris Center	\$250,000	ES5A 8878ES01	Exterior door and hardware have exceeded their life cycle and need replacement. Exterior window wood frame work needs to be covered with new anodized aluminum, to help extend the life of the structure and to reduce maintenance. Exterior stucco repair and paint.

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27	Exterior Walkway and Parking Lot Lighting Improvements: Campus	\$230,000	(Energy Savings)	Installation of exterior lighting for added student security. Install energy efficient lighting to include low cutoff energy efficient lights with metering and controls for parking lots: South of soccer field, Sharwan Smith south, and Technology, as well as several exterior walkways throughout campus.
28	Xeriscape Projects: Various Sites	\$50,000	(Energy Project) Campus	Expanded xeriscape would beautify Campus and help with water conservation in accordance with State guidelines, achieve continued resource management, and save money and valuable resources.
29	Stairway Upgrade: ELC	\$150,000	S17B-ISUU S138-4	Recap the main stairway on the south side of ELC from lower level to the top level (new handrails and stairs). Recap, redo, and add handrails to the stairway leading to the main entry doors on the south side of the Centrum (nose is broken completely off those) and the north side of Harris Center.
30	Press Box and Locker Room Improvements: Coliseum	\$350,000	N/A	Improve space utilization, ventilation, roofing, insulation deck sealant and energy efficiency.
31	Finish Shelled Space Area: Eccles Colliseum	\$760,000	6677PL03	Finish existing, enclosed unfinished space at north and south ends below grandstands at the stadium. The Master Plan for this area includes conference rooms, team meeting space, critical storage needs and associated mechanical and electrical. Expand rest rooms and locker rooms to meet occupancy requirements. This project includes Rm. 101 @ 2,223 sf and Rm. 109 @ 2,136 sf. Total cost = 4,359 sf x \$175 = \$762,825
32	Storm Water Drainage Improvements: 1150 West to Center Street	\$85,000	(Campus Improvement) ISUUS135	Install additional drainage capacity to remove excess storm water from 1150 West to eliminate flood damage to the stadium. Existing City and Campus surface drainage systems direct surface water along 1150 West to Center Street for dispersion into the major collection system, but gutters are not adequate. This project includes a design for replacement of gutters, catch basins, and piping.
33	Upgrade Womens Locker Room Area: Multi-purpose Building	\$600,000	PL1A, AC3C, HV3A, EL3B, EL4B, AC3E - AC3D, IS4A, PL1G, IS2B, IS3B, FS2A, FS1A	Multi-purpose Building - Upgrade/remodel womens locker room area, restrooms, meeting room, locker & dressing area, including deteriorated finishes, ADA accommodations, plumbing, HVAC and electrical improvements for approximately 4,000 square feet.
34	Space Remodel: Communications Department	\$125,000	4895	The Communications Department is in desperate need of additional office and editing space in the TV studio engineering area. This project would convert the mezzanine/storage area above Rm. 211-H and Rm. 211-I into one office and an editing work space.

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35	Boiler #1 Replacement: Heat Plant	\$495,000	(End of Life Equipment Upgrade) N/A	Replace 1969 vintage boiler with new unit of like size and capacity to tie into existing steam distribution system. Includes upgraded electronic controls, softstart ID motor, and other energy saving features.