FACILITY ACTION PLAN

FACILITY		SITE ID		DATE	
University Center		UC			6/30/10
CURRENT ENERGY USE INDEX (EUI) 328.79394 kBtu/Sq Ft 19.75 kWh/Sq Ft Note: The boilers that heat this building also heat Eastvold, Mortvedt, Ramstad, Xavier and Harstad FACILITY LIASON(S)			ERS (NAME AND F	FACILITY 1 167.19* kBi 28.54 kWh/	ARK) FOR THE TYPE tu/Sq Ft
Wendy Robins - Dining Manager	1. Christine Cooley – Sustainability Coordinator				
POTENTIAL CONSERVATION MEASURES, OPERATIONAL IMPROV MEASURE SUMMARY (<i>LIST HIGH PRIORITY MEASURES FIRST</i>) 1. Temperature Set Point Policy		FOLLOW UP BY (<i>PERSON AND DATE</i>) Sean Lynn – August 1 st			
2. Turn off lights in the Dining area wher	n not in use.	Wendy Robins – December 1 st , 2010			
3. Test the water flow rate for espresso spoon drip		Bruce Broussard – September 1 st , 2010			
4. Install an aerator on the dish room hose		Bruce Broussard – August 1 st , 2010			
5. Patch the hole in the AHU vent		Bruce Broussard – July 10 th , 2010			
6. Replace key lock switch in the entrance of the Cave		Bruce Broussard – July 10 th , 2010			
7. Replace the fluorescent lights in the fridges		Wendy Robins – December 1 st , 2010			
8. Enclose the open fridge space at OMM		Wendy Robins – December 1 st , 2010			
9. Provide a supply duct CO2 sensors		Lyle Kendal – August 13 th , 2010			
10. Install natural gas submeter		Dave Kohler – January 30 th , 2011			
11. Replace the food lines' display lights with LED		Wendy Robins – October 1 st , 2010			
12. Remove the dish accumulator		Wendy Robins – January 31 st , 2011			
13. Install rain barrel in the courtyard		Bruce Broussard - May 30 th , 2011			
14 Replace the existing condensate pump package		Dave Kohler – March 10 th , 2011			
15. Perform retro-commissioning		Dave Kohler – January 20 th , 2011			
16. Replace existing AHU fan motors with premium efficiency motors and add VFDs and modulate		Dave Kohler – January 20 th , 2013			
17. Replace both boilers with (2) 2000 MBH high efficiency condensing boilers and review the distribution		Dave K	ohler – January	20 th , 2013	

Notes: Package 9, 10, 14 and 16 together for final project

DETAILED MEASURE DESCRIPTIONS / NEEDS (OPTIONAL)		
DESCRIPTION		
1. PLU's Temperature Set Point Policy will affect this building by mandating a temperature range of 68 to 76 degrees Fahrenheit during occupied hours and 55 to 80 in unoccupied hours.	RESOURCES REQUIRED This building has controls in place. ACCOUNTABLE PARTY Bruce Broussard, Maintenance Manager SUPPORT STAFF Sean Lynn, Controls Technician SCHEDULE FOR COMPLETION August 30 th ,2010	
2. Turn off lights in the Dining area when not in use. 18 26 w fixtures and 16 13 w fixtures could be manually controlled during the times between meals.	RESOURCES REQUIRED Colaboration with Dining Services ACCOUNTABLE PARTY Wendy Robins, Dining Manager SCHEDULE FOR COMPLETION December 15 th , 2010	
3. Test the water flow rate for espresso spoon drip wells in the Old Main Market If these 2 wells are flowing above the Health Code's set flow rate, adjust accordingly.	RESOURCES REQUIRED Time from the Campus Plumber ACCOUNTABLE PARTY Bruce Brousard, Maintenance Manager SUPPORT STAFF Ross Winters, Campus Plumber SCHEDULE FOR COMPLETION September 15 th , 2010	
4. Install an aerator on the dish room hose to lower the flow rate while increasing the pressure.	RESOURCES REQUIRED Time from the Campus Plumber ACCOUNTABLE PARTY Bruce Brousard, Maintenance Manager SUPPORT STAFF Ross Winters, Campus Plumber SCHEDULE FOR COMPLETION August 1 st , 2010	

5. Patch the whole in the AHU vent closest to the door in west penthouse.	RESOURCES REQUIRED Time from the Campus Engineer ACCOUNTABLE PARTY Bruce Brousard, Maintenance Manager SCHEDULE FOR COMPLETION July 15 th , 2010
<text></text>	RESOURCES REQUIRED Time from the Campus Electrician ACCOUNTABLE PARTY Bruce Brousard, Maintenance Manager SCHEDULE FOR COMPLETION July 15 th , 2010

7. Replace the fluorescent lights in the Old Main	RESOURCES REQUIRED
Market fridges with converter kits. (14)	Time from the Campus Electrician
	Need to obtain a quote ACCOUNTABLE PARTY Wendy Robins, Dining Manager SCHEDULE FOR COMPLETION December 30 th , 2010

<text></text>	RESOURCES REQUIRED Time from the Maintenance staff Need to obtain a quote ACCOUNTABLE PARTY Wendy Robins, Dining Manager SCHEDULE FOR COMPLETION December 30 th , 2010
9. Provide a supply duct CO2 sensor for main AHU's - this sensor will detect "unused" return air and modulate the outside air damper accordingly. Total of 7 supply air CO2 sensor kits in the CK auditorium, main lobby and dining areas. In a 2009 estimate, McKinstry predicted this would save 4,854 therms and 9,728 kWh. At the time, that would save \$5,847 annually.	RESOURCES REQUIRED \$33,600 ACCOUNTABLE PARTY Lyle Kendal, Project Coordinator SUPPORT STAFF Contracted party SCHEDULE FOR COMPLETION September 1 st , 2010
10. Install submeter to assist data collection and energy use monitoring for natural gas	RESOURCES REQUIRED Need to obtain a quote ACCOUNTABLE PARTY Dave Kohler, Facilities Director SCHEDULE FOR COMPLETION December 30 th , 2015
11. Replace the food lines' display lights. There are currently 17 T5 lights that can be replaced with LED.	RESOURCES REQUIRED Need to obtain a quote ACCOUNTABLE PARTY Wendy Robins, Dining Manager SUPPORT STAFF Contracted party SCHEDULE FOR COMPLETION

	December 30 th , 2010
12. Remove the dish accumulator. Doing so will eliminate the need for electricity to have it turn, and the water to have it constantly rinsing. Instead, stationary shelves would take their place.	RESOURCES REQUIRED Need to obtain a quote Collaboration with Dining Services ACCOUNTABLE PARTY Wendy Robins, Dining Manager SUPPORT STAFF Contracted party SCHEDULE FOR COMPLETION May 30 th , 2011
<text></text>	RESOURCES REQUIRED Time from Campus Plumber ACCOUNTABLE PARTY Sara Paz, Grounds Manager Bruce Broussard, Maintenance Manager SCHEDULE FOR COMPLETION May 30 th , 2011
14. Replace the existing condensate pump package. (1) duplex condensate pump package with 10 horsepower each. McKinstry only estimates a 608 therms savings, as well as the 54 CCF water savings.	RESOURCES REQUIRED \$18,843 - NEEDS TO BE PLACE ON 2011 CAPITAL PROJECTS LIST ACCOUNTABLE PARTY Dave Kohler, Faciliteies Director SCHEDULE FOR COMPLETION

	January 31 st , 2014
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15. Perform retro-commissioning on the major mechanical systems. The scope includes performing P2P and Functional Performance Tests on major mechanical equipment. McKinstry estimated a savings	RESOURCES REQUIRED
	Determine scope and costs. McKinstry rough quote was \$52,673.
	ACCOUNTABLE PARTY
of 7,271 therms and 141,904 kWh.	Dave Kohler, Facilities Management Director
	SCHEDULE FOR COMPLETION
	As funding allows
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16. Replace existing AHU fan motors with premium efficiency motors and add VFDs and modulate the fan speeds based on space temperature or return temperature. Note: Careful attention to building	RESOURCES REQUIRED 297,741
	GET LISTED ON CAMPITAL PROJECTS LIST
pressurization will be required in the development of	ACCOUNTABLE PARTY
this FIM. (1) 25hp, (2) 20hp, (2) 15hp, (2) 5hp, (2) 3hp,	Dave Kohler, Facilities Management Director SCHEDULE FOR COMPLETION
(2) 2hp and (3) 1hp. There are a total of 12 fans in the UC. McKinstry estimated a savings of 9,695 therms	As funding allows
annually	As funding allows
17. Replace both boilers with (2) 2000 MBH high	RESOURCES REQUIRED
efficiency condensing boilers and review the distribution. McKinstry estimated a savings of 23,083 therms annually.	CAPITAL FUNDING - \$299,417
	ACCOUNTABLE PARTY
	Dave Kohler, Facilities Management Director
	SCHEDULE FOR COMPLETION
	As funding allows