

FACILITY ACTION PLAN

FACILITY Rieke Science Center		SITE ID	DATE
CURRENT ENERGY USE INDEX (EUI) 333.2 kBtu/Sq Ft	TARGET EUI kBtu/Sq Ft	AVERAGE EUI (BENCHMARK) FOR THE FACILITY TYPE 162.7 kBtu/Sq Ft	
FACILITY LIASON(S) Angie Alexander Dean of Natural Sciences	FACILITY RCM TEAM MEMBERS (NAME AND POSITION) Christine Cooley Sustainability Coordinator		

POTENTIAL CONSERVATION MEASURES, OPERATIONAL IMPROVEMENTS, OR MODIFICATIONS	
MEASURE SUMMARY <i>(LIST HIGH PRIORITY MEASURES FIRST)</i>	FOLLOW UP BY <i>(PERSON AND DATE)</i>
1. Turn off fume hoods when not in use	1. Angie Alexander complete
2. Turn off computers in lab when not it use.	2. To Be Determined ongoing
3. Examine summers shutdown opportunities	3. Angie Alexander 03/01/2011
4. Upgrade T 12 lighting	4. completed in 2008
5. Turn off fume hoods when not in use	5. Terry Nicksik and Angie Alexander Education ongoing, stickers distributed by Feb. 24, 2011
6. Replace the motor with a premium efficiency induction motor, (1) 7.5hp motor.	6. John Kaniss included in Reike Renovation plan
7. Upgrade the toilets to 1.28 gpf model, urinals to 1/ 8 gpf and install 0.5 gpm aerators on faucets.	7. John Kaniss included in Reike Renovation plan
8. Replace exit signs with photo-luminescent version	8. James Moore and Joe Bell as signs need to be replaced
9. Install control valves on the fume hoods	9. John Kaniss Part of Reike Renovation plan
10. Replace existing AHU fan motors	10. John Kaniss
11. Upgrade boilers	11. John Kaniss included in Reike Renovation plan

DETAILED MEASURE DESCRIPTIONS

NEEDS

1. Locate or install light switches in building. Currently, occupants are unable to turn off lights because there simply are not switches. Once located, look to installing occupancy sensors as well.



RESOURCES REQUIRED

We've installed the light switches, but need to educate campus safety for their nightly walk-throughs.

ACCOUNTABLE PARTY

Chrissy Cooley

SCHEDULE FOR COMPLETION

Ongoing

2. Turn off computers in lab when not in use.



RESOURCES REQUIRED

Smart Strips- You can use power strips to help turn off peripherals.

ACCOUNTABLE PARTY

To be determined

SUPPORT STAFF

SCHEDULE FOR COMPLETION

Ongoing

3 Examine summers shutdown opportunities

RESOURCES REQUIRED

Meeting with Angie Alexander Dean of Natural Sciences

SCHEDULE FOR COMPLETION

Meeting in March

4 Upgrade the T12 to T8 and MH to T5HO.

RESOURCES REQUIRED

\$10,655.00

ACCOUNTABLE PARTY

SUPPORT STAFF

SCHEDULE FOR COMPLETION

Completed in 2008

5. Turn off fume hoods when not in use. Partnering with School of Art and Communications to develop a sticker to remind users.

RESOURCES REQUIRED

Education for building occupants

Commitment from users

Distributing stickers



ACCOUNTABLE PARTY

Professors and students

SUPPORT STAFF

Terry Nicksik-Laboratory Supervisor

Angie Alexander- Dean of Natural Sciences

SCHEDULE FOR COMPLETION

Education Ongoing

Stickers complete Feb. 24th 2011

6. Replace the motor with a premium efficiency induction motor, (1) 7.5hp motor. Replace main circulation pump in mechanical room.

RESOURCES REQUIRED

\$21,850.00

ACCOUNTABLE PARTY

John Kaniss- Construction Manager

SCHEDULE FOR COMPLETION

Included in Reike renovation plan

7. Upgrade the toilets to 1.28 gpf model, urinals to 1/ 8 gpf and install 0.5 gpm aerators on faucets.

RESOURCES REQUIRED

\$26,419.00

ACCOUNTABLE PARTY

John Kaniss- Construction Manager

SCHEDULE FOR COMPLETION

Included in Reike renovation plan

8. Replace exit signs with photo-luminescent version



RESOURCES REQUIRED

ACCOUNTABLE PARTY

James Moore- Alarm Technician

Joe Bell- Environmental Health and Safety

SCHEDULE FOR COMPLETION

As signs need to be replaced

9. Install control valves on the fume hoods, upgrade the

RESOURCES REQUIRED

\$162,440.00

<p>fume hood exhaust fans and operate the fume hoods in VAV mode. Pay attention to the control of the supply, general exhaust and fume hood exhaust fans to maintain the pressure dependence. Total of 28 fume hoods. Install control valves for the hoods. Re-route the fume hood exhaust duct and combine the exhaust to two FEF's in north and south fan room and install VFD (10hp and 20hp).</p>	<p>ACCOUNTABLE PARTY John Kaniss- Construction Manager SCHEDULE FOR COMPLETION You might want to look at heat recover too. Part of Reike renovation plan</p>
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<p>10. 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 pressurization will be required in the development of this FIM. Total of (5) AHU's: (2) 50hp, (1) 40hp, (1) 20hp, (1) 15hp, (1) 7.5hp, (2) 5hp. (1) 10hp EF.</p>	<p>RESOURCES REQUIRED \$232,171.00 ACCOUNTABLE PARTY John Kaniss- Construction Manager SCHEDULE FOR COMPLETION Included in Reike renovation plan</p>
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<p>11. Upgrade Boilers - DDC</p>	<p>RESOURCES REQUIRED ACCOUNTABLE PARTY John Kaniss- Construction Manager SCHEDULE FOR COMPLETION Included in Reike renovation plan</p>
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