# FACILITY ACTION PLAN

<table>
<thead>
<tr>
<th>FACILITY</th>
<th>SITE ID</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rieke Science Center</td>
<td></td>
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<table>
<thead>
<tr>
<th>CURRENT ENERGY USE INDEX (EUI)</th>
<th>TARGET EUI</th>
<th>AVERAGE EUI (BENCHMARK) FOR THE FACILITY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>333.2 kBtu/Sq Ft</td>
<td></td>
<td>162.7 kBtu/Sq Ft</td>
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<table>
<thead>
<tr>
<th>FACILITY LIASON(S)</th>
<th>FACILITY RCM TEAM MEMBERS (NAME AND POSITION)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angie Alexander</td>
<td>Dean of Natural Sciences Christine Cooley</td>
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</tbody>
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## POTENTIAL CONSERVATION MEASURES, OPERATIONAL IMPROVEMENTS, OR MODIFICATIONS

### MEASURE SUMMARY

<table>
<thead>
<tr>
<th>MEASURE</th>
<th>FOLLOW UP BY</th>
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<tbody>
<tr>
<td>1. Turn off fume hoods when not in use</td>
<td>Angie Alexander  complete</td>
</tr>
<tr>
<td>2. Turn off computers in lab when not in use</td>
<td>To Be Determined  ongoing</td>
</tr>
<tr>
<td>3. Examine summers shutdown opportunities</td>
<td>Angie Alexander  03/01/2011</td>
</tr>
<tr>
<td>4. Upgrade T 12 lighting</td>
<td>completed in 2008</td>
</tr>
<tr>
<td>5. Turn off fume hoods when not in use</td>
<td>Terry Nicksik and Angie Alexander  Education  ongoing, stickers distributed by Feb. 24, 2011</td>
</tr>
<tr>
<td>6. Replace the motor with a premium efficiency induction motor, (1) 7.5hp motor</td>
<td>John Kaniss  included in Reike Renovation plan</td>
</tr>
<tr>
<td>7. Upgrade the toilets to 1.28 gpf model, urinals to 1/8 gpf and install 0.5 gpm aerators on faucets</td>
<td>John Kaniss  included in Reike Renovation plan</td>
</tr>
<tr>
<td>8. Replace exit signs with photo-luminescent version</td>
<td>James Moore and Joe Bell  as signs need to be replaced</td>
</tr>
<tr>
<td>9. Install control valves on the fume hoods</td>
<td>John Kaniss  Part of Reike Renovation plan</td>
</tr>
<tr>
<td>10. Replace existing AHU fan motors</td>
<td>John Kaniss</td>
</tr>
<tr>
<td>11. Upgrade boilers</td>
<td>John Kaniss  included in Reike Renovation plan</td>
</tr>
<tr>
<td>DETAILED MEASURE DESCRIPTIONS</td>
<td>NEEDS</td>
</tr>
<tr>
<td>-------------------------------</td>
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</tbody>
</table>
| 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 perifrials.  
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 |
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
| 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). | ACCOUNTABLE PARTY  
John Kaniss - Construction Manager  
SCHEDULE FOR COMPLETION  
You might want to look at heat recover too. Part of Reike renovation plan |
|---|---|
| 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. | RESOURCES REQUIRED  
$232,171.00  
ACCOUNTABLE PARTY  
John Kaniss - Construction Manager  
SCHEDULE FOR COMPLETION  
Included in Reike renovation plan |
| 11. Upgrade Boilers - DDC | RESOURCES REQUIRED  
ACCOUNTABLE PARTY  
John Kaniss - Construction Manager  
SCHEDULE FOR COMPLETION  
Included in Reike renovation plan |