MEMORANDUM

TO: Dr. R. Bowen Loftin  
    President, Texas A&M University

SUBJECT: CBE Recommendation: Skylight Window Glazing

At its September 10, 2013, meeting, the Council for the Built Environment (CBE) discussed a request from the Vice Chancellor and Dean of Engineering for glazing of the replacement skylights in the catwalk area of the Hi-Bay Laboratory #0140 of the Wisenbaker Building #0862.

Recommendations from the Sub-Councils:
Design Review Sub-Council (DRsc) – recommends approval of the request to replace the skylights at the Wisenbaker Building with the following caveats:
- Acrylite Satin Sky glazing is approved to replace the existing skylights in the catwalk area of the Hi-Bay Laboratory and the Bronze glazing should be used on the bridge portion of the skylights.

Maintenance Sub-Council – recommends approval to use Acrylite Satin Sky glazing.

Technical Review Sub-Council – supports the project and recommends approval. Sub-Council members had no issues or concerns related to the project.

The CBE voted unanimously to request the President’s approval for the glazing of the skylights at the Wisenbaker Building Hi-Bay Laboratory catwalk with the Acrylite Satin Sky glazing.

Karan L. Watson  Date  9-30-13
Provost and Executive Vice President for Academic Affairs  
Co-Chair, Council for the Built Environment

Rodney P. McClendon  Date  9-30-13
Vice President for Administration  
Co-Chair, Council for the Built Environment

R. Bowen Loftin  Date  9/30/13  
President

cc: Dr. M. Katherine Banks, Vice Chancellor and Dean of Engineering  
Sub-Council Chairs, Council for the Built Environment
July 23, 2013

MEMORANDUM

TO: Karan L. Watson  
Provoest & Executive Vice President for Academic Affairs  
Co-Chair – Council on the Built Environment

Rodney P. McClendon  
Vice President for Administration  
Co-Chair – Council on the Built Environment

SUBJECT: Request for Approval of Skylight Window Glazing  
Wisenbaker Building #0682

We are requesting the approval of the Council on the Built Environment (CBE) to allow the replacement of skylights in the catwalk area of the Hi-Bay Laboratory #0140 of the Wisenbaker Building #0862. We propose using Acrylite Satin Sky glazing for the new skylights to reduce the solar heat gain in the space instead of replacing the skylights with glazing to match existing skylights. This has been discussed with and approved by Lilia Gonzales, University Architect.

The skylights in the catwalk have been leaking for a long period of time and were recently approved to be replaced with deferred maintenance funding by the CBE-Maintenance Sub-Council. The funding approved includes the cost of the upgraded window glazing. The location of the skylights can only be viewed from above the building or from the roof next to the skylights so the change in color will not impact the appearance of the building to the general public. The new window glazing should help reduce the heat in the interior space of the catwalk viewing area and the lab area below as well as decrease energy costs.

Your consideration of this request is greatly appreciated.

M. Katherine Banks, Ph.D., P.E.
Vice Chancellor and Dean of Engineering  
Director, Texas A&M Engineering Experiment Station  
Harold J. Haynes Dean’s Chair Professor

Attachment
High-Performance Light Diffusing Glazing with up to
3X the Thermal Performance of the Leading Competitor
Wasco introduces the EcoSky Series, a revolutionary new green, glare-free unit skylight that bathes the space in natural, healthy diffused light.

Our acrylic Satin Sky glazing is an innovative acrylic sheet that is a powerful sun reflector which greatly reduces solar heat gain, making it ideal for both hot and cold climates. Satin Sky is impact modified, infrared blocking, light diffusing, and 100% haze white.

Our EcoSky" model features Satin Sky Glazing with a Luntra™ aerogel panel. By adapting nano technology, Luntra™ aerogel is able to provide a tremendous thermal insulator that is also environmentally sound. Luntra™ aerogel works so well because of what it does on a nano-scale — it permanently stops conductive, conductive, thermal transfer without an appreciable drop in light transmission.

- Superior thermal performance
- Glare-free, full spectrum diffused light
- "Green" product that's perfect for Cradle to Cradle designs
- Completely moisture resistant
- Will not support growth of mold, mildew, or fungus
- Reduces sound transmission
- UV stable
- Performance will not deteriorate over time

### AVAILABLE CONFIGURATIONS:

#### Curb-Mount
- For use on 1 1/2" thick site-built or prefabricated curbs
- Available in dome or pyramid

#### Deck-Mount
- Curb heights available in 9" or 12"
- Available in dome or pyramid
- Available in standard sizes from 22 1/4" x 22 1/4" to 57 1/4" x 89 1/4" (Rough Opening). Custom sizes available.

WWW.WASCO-SKYLIGHTS.COM/ECOSKY3

We invite you to visit our website to learn more about the features and specifications of EcoSky.
**Ecosky**

The only skylight that meets the IECC 2012 requirements in all climate zones!

Wasco's revolutionary new EcoSky is a glare-free unit skylight that bathes the space in natural diffused light and provides 3x the thermal performance of the leading competitors.

By incorporating a 10mm Lumira® Aerogel panel with Acrylic Satin Sky you get all the benefits of natural diffused light with an R-value that far exceeds anything on the market today. Plus our Satin Sky glazing is a powerful sun reflector which greatly reduces solar heat gain, making it ideal for both hot and cold climates. Wasco also offers EcoSky with Satin Sky without Lumira which is perfect for warmer climates.

- Meets IECC 2012 in all climate zones
- 100% haze – great light diffusion
- Utilizes an impact modified white acrylic outer dome with infrared blockers
- 10mm Lumira Aerogel filled Polycarbonate inner baffle

**Ecosky**

High-performance light diffusing glazing

Our Acrylite® Satin Sky glazing is a powerful sun reflector which greatly reduces solar heat gain, making it ideal for both hot and cold climates. Satin Sky is impact modified, infrared blocking, light diffusing, and 100% haze white.

- 100% haze – great light diffusion
- Utilizes an impact modified white acrylic outer dome with infrared blockers

Acrylite® is a registered trademark of Evernt Industries Lumira® are trademarks of Cubic Corporation. Wasco® and EcoSky™ are trademarks of Wasco Products, Inc.
ECOSKY® SKYLIGHTS

CURB-MOUNT DOME (ECS)

ECS - Acrylite® Satin Sky Over Clear Impact Modified Acrylic, Curb-Mount

ECS® - Acrylite® Satin Sky Over 10 mm Lumina™ Aerogel Filled Panel, Curb-Mount.

PERFORMANCE VALUES:

<table>
<thead>
<tr>
<th></th>
<th>ECS</th>
<th>ECA</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-Factor</td>
<td>.64 BTU/HR-FT²°F</td>
<td>.82 BTU/HR-FT²°F</td>
</tr>
<tr>
<td>Solar Heat Gain Coefficient</td>
<td>A7</td>
<td>A7</td>
</tr>
<tr>
<td>Visible Light Transmission</td>
<td>49%</td>
<td>49%</td>
</tr>
</tbody>
</table>

ECAP / ECAP

ECS MODEL AVAILABLE OPTIONS:

[3] Lumina™ Aerogel
[12] Pyramid Dome

STANDARD SIZES:

<table>
<thead>
<tr>
<th>Model</th>
<th>Available Options</th>
<th>O.D. of Clear</th>
</tr>
</thead>
<tbody>
<tr>
<td>E(S)C(P)-2828</td>
<td>22 1/4&quot; x 25 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-2836</td>
<td>23 1/4&quot; x 33 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-2852</td>
<td>23 1/4&quot; x 49 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-3536</td>
<td>33 1/4&quot; x 33 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-3552</td>
<td>33 1/4&quot; x 49 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-3576</td>
<td>33 1/4&quot; x 72 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-4242</td>
<td>49 1/4&quot; x 49 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-4280</td>
<td>49 1/4&quot; x 92 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-5252</td>
<td>49 1/4&quot; x 49 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-5276</td>
<td>49 1/4&quot; x 72 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-5296</td>
<td>49 1/4&quot; x 92 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-6060</td>
<td>59&quot; x 59&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-6476</td>
<td>60 1/4&quot; x 72 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(S)C(P)-6496</td>
<td>60 1/4&quot; x 92 1/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

DECK-MOUNT DOME (ECA)

ECA9 or 12 - Acrylite® Satin Sky Over Clear Impact Modified Acrylic, Deck-Mount, 9" or 12" High Curb

ECA9 or 12 - Acrylite® Satin Sky Over 10 mm Lumina™ Aerogel Filled Panel, Deck-Mount, 9" or 12" High Curb

PERFORMANCE VALUES:

<table>
<thead>
<tr>
<th></th>
<th>ECA</th>
<th>ECA9</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-Factor</td>
<td>.82 BTU/HR-FT²°F</td>
<td>.82 BTU/HR-FT²°F</td>
</tr>
<tr>
<td>Solar Heat Gain Coefficient</td>
<td>A7</td>
<td>A7</td>
</tr>
<tr>
<td>Visible Light Transmission</td>
<td>49%</td>
<td>49%</td>
</tr>
</tbody>
</table>

ECA / ECA9

ECA MODEL AVAILABLE OPTIONS:

[3] Lumina™ Aerogel
[9] 9" High Curb
[12] 12" High Curb

STANDARD SIZES: (Available in 9" or 12" high options)

<table>
<thead>
<tr>
<th>Model</th>
<th>Available Options</th>
<th>O.D. of Clear</th>
</tr>
</thead>
<tbody>
<tr>
<td>E(SC)[P][9] - 2828</td>
<td>23 1/4&quot; x 25 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 2836</td>
<td>23 1/4&quot; x 33 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 2852</td>
<td>23 1/4&quot; x 49 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 3636</td>
<td>33 1/4&quot; x 33 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 3652</td>
<td>33 1/4&quot; x 49 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 3676</td>
<td>33 1/4&quot; x 72 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 4242</td>
<td>49 1/4&quot; x 49 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 4280</td>
<td>49 1/4&quot; x 92 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 5252</td>
<td>49 1/4&quot; x 49 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 5276</td>
<td>49 1/4&quot; x 72 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 5296</td>
<td>49 1/4&quot; x 92 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 6060</td>
<td>59&quot; x 59&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 6476</td>
<td>60 1/4&quot; x 72 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>E(SC)[P][9] - 6496</td>
<td>60 1/4&quot; x 92 1/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Wasco Products, Inc.
85 Spanner Drive, Unit A
PO Box 599
Wells, Maine 04091
Telephone: (207) 947-8293
Fax: (207) 947-8294
Www.wasco.com
DESIGN REVIEW SUB-COUNCIL

MEMORANDUM

TO: Dr. Karan Watson  
Provost and Executive Vice President for Academic Affairs  
Dr. Rodney McClendon  
Vice President for Administration

FROM: Lilia Gonzales, AIA  
University Architect and Chair, Design Review Sub-Council

DATE: September 3, 2013

RE: Design Review Sub-Council (DRsc) Report  
Request for Skylight Replacement at Wisenbaker Building

On August 21, 2013 the Design Review sub-council reviewed a request from the College of Engineering to replace skylights in the Wisenbaker Building over the Hi-Bay Laboratory area.

The proposal is to replace the existing skylights in the catwalk area of the Hi-Bay Laboratory and the connecting bridge to the Mcnew Laboratory with an Acrylite glazing in a Satin Sky color. The proposed glazing would provide the greatest reduction for solar heat gain while still allowing the maximum amount of natural light into the laboratory below. The Satin Sky glazing has an iridescent quality to it, but the design team believes it will not impact the appearance of the building as the skylights are not visible from the ground plane. It was noted that it would be visible from the ground plane if utilized at the connecting bridge to the Mcnew Laboratory. A bronze color was presented as a possible glazing color, but it was noted that it would not provide as much of a reduction in solar heat gain as the satin sky.

Recommendation

The DRsc recommends approval of the request to replace skylights at the Wisenbaker Building, with the following caveats:

- Acrylite Satin Sky glazing is approved to replace the existing skylights in the catwalk area of the Hi-Bay Laboratory and the Bronze glazing should be used on the bridge portion of the skylights.

Images from the August 21, 2013 presentation are attached for your information. Please let us know if you need additional information.

cc: Katherine Banks  
Tell Butler  
DRsc Members  
Patti Urbina
Skylight Location
View of Bridge Between Wisenbaker and McNew Buildings
September 3, 2013

MEMORANDUM

To: Dr. Karan Watson
   Chair, Council for the Built Environment

   Dr. Rodney McClendon
   Chair, Council for the Built Environment

Subject: Request for approval of Skylight Window Glazing
         Wisenbaker Building #0682

The Maintenance Sub-Council met to discuss the request for the noted subject. The project was previously approved for deferred maintenance funding by the CBE Msc. This requested upgrades the material to an acrylate satin sky glazing that will provide a reduction in heat gain. Overall maintenance of the catwalk system is not affected.

Additional funding for this upgrade is not being requested.

RECOMMENDATION

The Msc recommends approval to use acrylate Satin Sky glazing.

Ralph R. Davila
Chairman, CBE Maintenance Sub Council
Executive Director, Contract Administration - Division of Finance
AgriLife Facilities Manager

CC: CBE-Msc members
    Patti Urbina
MEMORANDUM

TO: Dr. Karan Watson
   Provost and Executive Vice President
   Dr. Rodney McClendon
   Vice President for Administration

FROM: Tom Reber
   Associate Vice President for Student Affairs

DATE: August 19, 2013

SUBJECT: CBE-TRsc Recommendation: Skylight Window Glazing for Wisenbaker Building

On Monday, August 12, 2013, representatives from Texas A&M Engineering presented to the CBE Technical Review Sub-council on the proposed replacement of the skylights in the catwalk area of the Hi-Bay Laboratory #0140 of the Winsenbaker Building.

The skylights have been leaking or some time and were recently approved to be replaced with deferred maintenance funding by the CBE-Maintenance Council. In this case, Engineering would like to use Acrylite Satin Sky glazing, rather than skylights with glazing that will match existing skylights. Since the skylights can only be viewed from above the building, the change in color will not impact the appearance of the building as far as the general public is concerned.

Recommendation
The Technical Review Sub-council supports this project and recommends approval. Sub-council members had no issues or concerns related to the project.

Tom Reber
Associate Vice President for Student Affairs
Chair, CBE Technical Review Sub-council

Xc: CBE Technical Review Sub-council
    Pattl Urbina