Condenser Water Loop Renovations at the Sam Houston Central Plant

The San Houston Central Plant feeds a total of thirteen (13) buildings in the Capitol Complex, including the Capitol and the Capitol Extension. Nine buildings are fed chilled water and steam from the plant, while four only receive chilled water. The central plant also serves as a main electrical service entrance and distributes power to numerous buildings in the Capitol Complex. The plant is the single highest energy user, accounting for $1.5 million in utility costs annually. The plant has been in operation since the late 1950s! And although there has been numerous upgrades, modifications, and expansions to the plant, comprehensive retro-commissioning has not been completed until this current endeavor.

The presentation will cover the retro-commissioning process from project development to the measurement and verification plan. Modifications to the condenser water loop were the central focus of the project recommendations and these renovations will be discussed in detail. Initial estimates predict savings at 2,140,000 kWh or approximately $150,000 annually — about 17% of the current energy cost of operating the chillers, condenser water pumps, and cooling tower fans.
January Speaker

Wendell Cook, PE
Commissioning Engineer
Office of Energy Management
Texas Facilities Commission

Wendell Cook is originally from Laguna Vista, a small coastal town in south Texas. Wendell obtained both his Bachelor’s and Master’s degrees in mechanical engineering at Oklahoma State University. Wendell completed his Master’s degree in the fall of 2008 with a focus in the areas of thermal systems and fluid dynamics.

As a licensed professional engineer working in the areas of MEP Design and Commissioning, Wendell has always felt a responsibility to help further the cause of environmental conservation. This interest has been a driving force throughout Wendell’s career as an engineer and led him towards his current position with Texas Facilities Commission (TFC).

Directions To Meeting

**Directions Coming from Austin:** Head south on I-35. Take Exit #229 – Stassney Ln. Make a right at the traffic signal at Stassney Ln. Go 0.1 miles. Take a right at the Lowes/Fiesta driveway entrance. Texas Land & Cattle parking lot is first entrance on the right.

**Directions Coming from San Antonio:** Head north on I-35. Take Exit #228/229 – Wm. Cannon Dr./Stassney Ln. Pass straight through the traffic signal at Wm. Cannon Dr. Make a left at the traffic signal at Stassney Ln. Go 0.2 miles. Take a right at the Lowes/Fiesta driveway entrance. Texas Land & Cattle parking lot is first entrance on the right.

For a map, click here: https://www.google.com/maps/place/5510+S+IH+35+Frontage+Rd,+Austin,+TX+78745/@30.20215,-97.7619705,17z/data=!4m2!3m1!1s0x8644b35e0ff74287:0x927384484629c3cd

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**Can’t make it to the meeting??...not to worry….**

At 11:45 am, please call in at: 1-800-719-6100 (or 1-218-339-7817), participant access code 157500 #

Participants please DO NOT PLACE PHONE ON HOLD (or we all will hear your music). It would be a good idea to MUTE your line after you get in. Please press * 6 to MUTE. When you want to talk, then UNMUTE by pressing * 6 again, and then you can talk. This will lower background noise on the conference line.

The web link is: https://hello.freeconference.com/conf/call/157500 (Please make sure you have installed the latest version of Google Chrome to view the presentation.)

Please insert your name and company when you are prompted.

If you attended remotely, please email Linda.Rickard@AustinEnergy.com to let her know you attended the web presentation. She will add your name to the roster.
2017 Calendar

<table>
<thead>
<tr>
<th>Month</th>
<th>Subject</th>
<th>Location</th>
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<tbody>
<tr>
<td>January</td>
<td>Condenser Water Loop Renovations at the Sam Houston Central Plant</td>
<td>Austin, TX</td>
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<tr>
<td>February</td>
<td>TBA</td>
<td></td>
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<tr>
<td>March</td>
<td>TBA</td>
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Do you know of a technology or a tour that would be of interest to our chapter membership? The board of directors welcomes your ideas and thoughts. Our chapter is only as good as the membership makes it...it is your chapter, please participate and provide input into the selection of presentations and tours! If your recommendation is used...it's good for a free lunch for you!

Contact Amanda Cambre amanda.cambre@clearesult.com with your ideas!

SAVE THE DATE

COMING UP

Join us Thursday, February 9th for a chapter gathering where we can reconnect and enjoy some good food and music. Be on the lookout for a survey and sign up notification that will be heading your way shortly. Once we have an estimate on attendees we will be able to determine what the menu and provisions will be. For budgetary purposes, dishes at the Gristmill range from $12-$15.

Dinner at Gristmill River Restaurant
1287 Gruene Rd, New Braunfels, TX 78130
Free Concert at Gruene Hall, The Reed Brothers (Texas Blues)

January Meeting Location:
Texas Land & Cattle
5510 S IH 35 Frontage Rd
Austin, TX 78745
(512) 442-6448
texaslandandcattle.com

Understanding Engineers...Take 1

Theory and practice

Theory is when you think you know something but it doesn't work.
Practice is when something works but you don't know why.
Usually we combine theory and practice: nothing works and we don't know why.
Our Mission:

◊ Advance the professional careers and the common purposes of its members. Facilitate networking, social exchange and training.

◊ Present and discuss energy, environmental topics, and members’ ideas. Stay abreast of fast changing developments. Anticipate their future.

◊ Disseminate information to the trade and to the general public via meetings, publications, trade shows and presentations.

◊ Build an exciting, expanding chapter

◊ Cooperate with other AEE chapters and related organizations.

◊ Promote energy efficiency.

2017 Officers

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<thead>
<tr>
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<tbody>
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<td><a href="mailto:klnilsson@cps-satx.com">klnilsson@cps-satx.com</a></td>
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<td>Historian/Photographer</td>
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2017 Officers

We’re On The Web!!

Follow us @TXAEE!
MEMBERSHIP INVOICE
Austin/San Antonio Chapter of the Association of Energy Engineers
http://www.txaee.org

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Date

Local Chapter Dues for 2017 $ 30.00

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<tr>
<th>New Member</th>
<th>Renewal</th>
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Please fill out the following information.

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Company: ________________________________________
Address: ________________________________________
City/State/Zip: ____________________________________
Business Phone: ___________________________________
FAX: ______________________________________________
E-mail Address: _____________________________________

Suggested Speaker Topic or Tour: ____________________________

Chapter meetings typically are held the 4th Tuesday of each month at 11:30 a.m. Location for the meetings is posted on the Austin/San Antonio AEE Web Site http://www.txaee.org/calendar.htm. Look forward to informative, professional, and educational presentations in the energy field, plus field trips to various locations in Austin and San Antonio.

Remit to: Austin AEE
PMB 287
815-A Brazos Street
Austin, TX  78701-2509

For inquiries regarding this invoice please contact:
Karma Nilsson at 210-353-2815 or knilsson@cpsenergy.com

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