



RERC AIR CHILLER UPGRADE AGREEMENT WITH TAS ENERGY INC

Riverside Public Utilities

Board of Public Utilities
November 27, 2017

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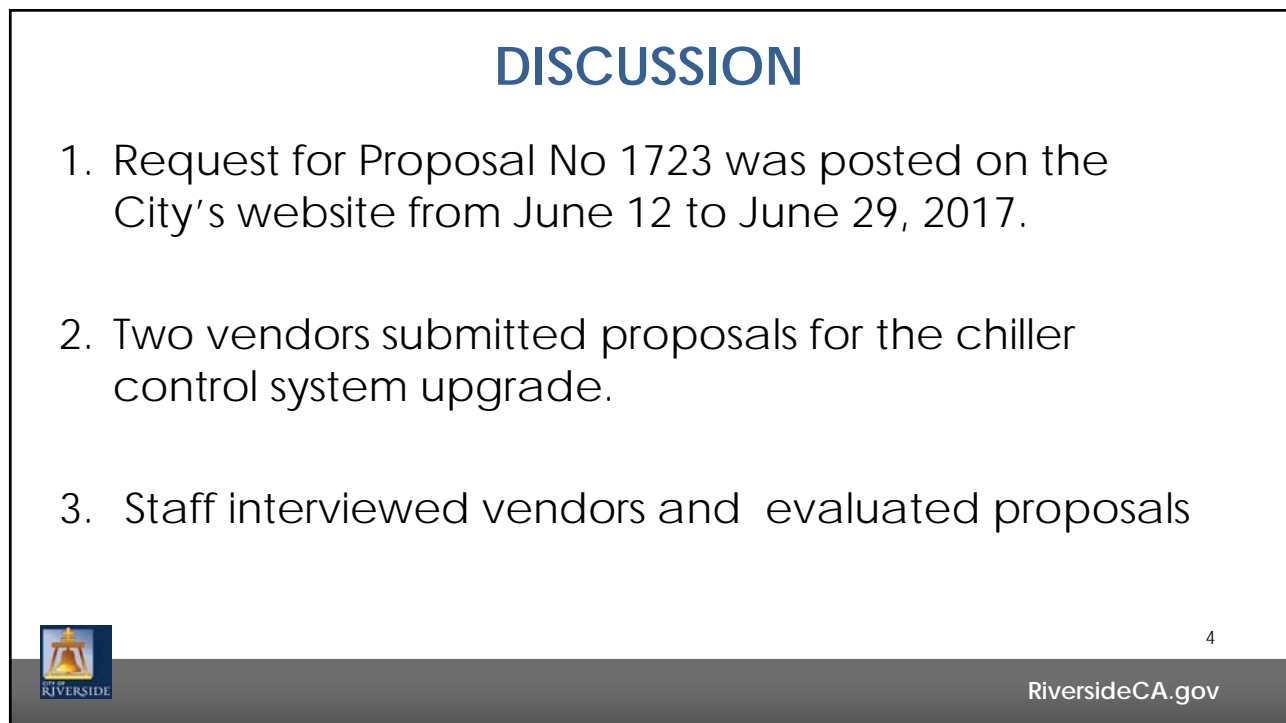
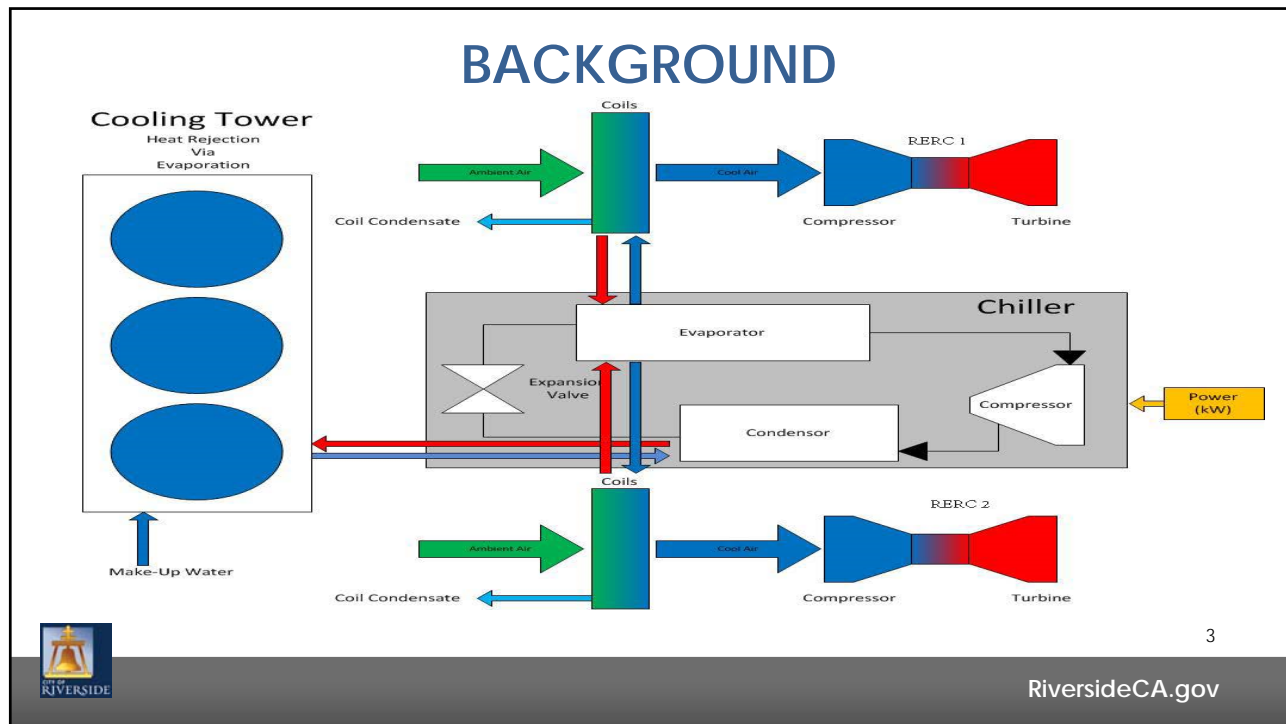
BACKGROUND

1. Air inlet chiller needed to maintain CAISO certified output of 100 MWs from RERC 1&2. Without chiller, output is 64MWs. RERC 1& 2 commissioned in 2006.
2. A single air inlet chiller unit is shared between RERC 1 & 2
3. Air inlet chiller controls system is obsolete and not feasible to maintain. Parts not available.



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DISCUSSION

Selected TAS Energy Inc. for the following reasons:

1. Vendor that provides the proven experience and assurance for controls system upgrade compatibility. They have extensive knowledge on how the chiller system interfaces with RERC's power plant operations.
2. TAS Energy Inc. is original system integrator for the Inlet Air Chiller systems at RERC 1 & 2. They maintain all the existing control system software programming and the proven control logic for the chiller systems at RERC.
3. Their upgrade proposal standardizes and provides commonality with the chiller systems throughout the plant.



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DISCUSSION

Vendors:	Location	Bid Amount	Evaluation
TAS Energy Inc.	Houston, TX	\$96,285	Proven knowledge and experience with the specific chiller system installed on RERC 1&2.
Fourstep Automation	Corona, CA	\$67,737	General controls and industrial background. Not familiar with the existing chiller control systems at RERC. Does not have the RERC chiller control system programming.



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Recommendation

That the Board of Public Utilities:

1. Approve the Professional Consultant Services Agreement, in the amount of \$96,285, with TAS Energy Inc. of Houston, Texas, for the retrofit and upgrade of the air inlet chiller controls system at the Riverside Energy Resource Center; and
2. Approve Work Order No. 1812272 in the amount of \$111,000.



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