

# State of Alaska

## Legislative Affairs Agency

Administrative Services, Supply Section

State Capitol Room 3 ~ Juneau, AK 99801-1182 ~ Phone (907) 465-3853 ~ Fax (907) 465-2918



### MEMORANDUM

**TO:** Representative David Guttenberg, Chair  
Legislative Council

**THRU:** Tina Strong, Procurement Officer   
Legislative Affairs Agency

**FROM:** Tim Banaszak, IT Manager 

**DATE:** October 16, 2018

**SUBJ:** Approval to Award ITB 634 Mechanical Cooling System for the State Capitol Building

On September 25, 2018, ITB 634 was issued to solicit for a contractor to provide and install a working mechanical cooling system at the State Capitol Building. Six known vendors with the capability to provide and install the system were sent invitations to bids.

ITB 634 closed on October 16, 2018. One bid was received and opened from Behrends Mechanical, Inc. The bid met the requirements of the ITB and the total bid price was \$229,404.00.

The design engineering firm recommends we allocate a 10% contingency reserve, should unforeseen conditions be discovered during the project, or requirements identified, that modify the scope of work.

The project documentation includes a closeout memo to the Council Chair, and provides a description of any contingency funds, if used.

Based on the above information, I recommend award of ITB 634 to Behrends Mechanical, Inc. for a total price of \$229,404.00, and a contingency reserve of 10% for a total cost not to exceed \$252,344.40.

I would be happy to answer any questions you have regarding this project.

Enclosure:

Capitol Cooling Project Initiative Memo, September 11, 2018

# Alaska State Legislature

## Legislative Affairs Agency

### Office of Information Technology

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**TO:** Representative David Guttenberg, Chair  
Legislative Council

**FROM:** Tim Banaszak, Manager <sup>2</sup>/<sub>LB</sub>  
Information Technology

**DATE:** September 11, 2018

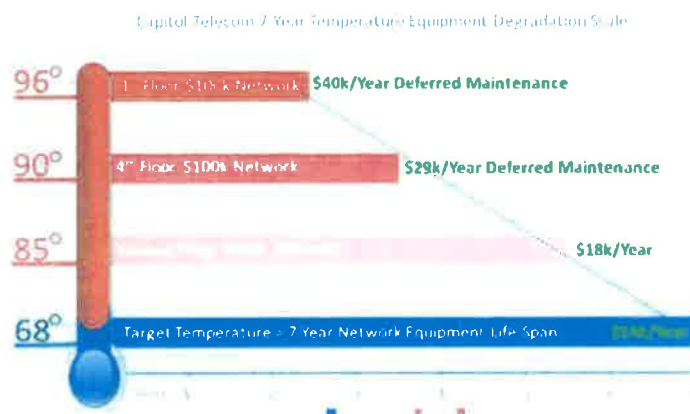
**SUBJECT:** Capitol Building AC Cooling Needs

This is to advise Legislative Council that cooling system upgrades are needed to specific areas of the Capitol Building. PDC Engineering has completed a professional assessment and is preparing a design bid packet for the areas noted in the table below. These areas have reached critical heat thresholds and the current low-cost cooling methods are insufficient.

The ideal temperature range for telecommunication equipment storage and operation is 68-72 degrees, which the ambient temperatures in these areas far exceed.

Location	Cooling Method	Risk	Temp
Ground Floor Telecom Room	Door/ceiling/wall holes and fans	Shortened equipment life/no expansion	≤ 85°
Ground Floor Security Office	Open doors, fans	Exposes all security activity to public Exceeds OSHA recommended temps	≤ 80°
Ground Floor Supply Office	Open window and fans for 5-6 staff during peak	Exceeds OSHA recommended temps	≤ 80°
1 <sup>st</sup> Floor Telecom Room	Door/ceiling holes, fans and dump heat into adjacent legislator offices	Shortened equipment life/no expansion	≤ 96°
4 <sup>th</sup> Floor Telecom Room	Door/ceiling holes and fans	Shortened equipment life/no expansion	≤ 90°

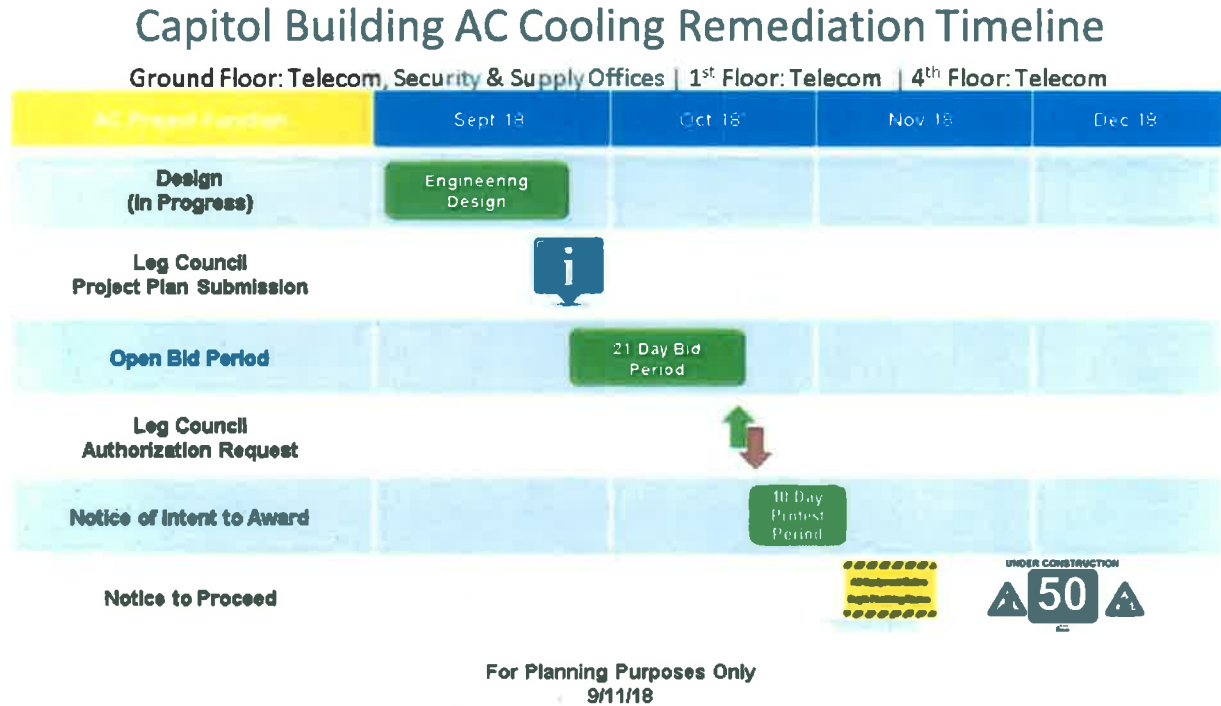
Electronic equipment degradation costs more than double at these elevated temperatures as shown in the following graph:



Attached please find PDC Engineering's Design Fee Proposal and Cooling System Design recommending a Ground/1<sup>st</sup> Floor mechanical cooling system installation and providing two options for a 4<sup>th</sup> Floor cooling system solution.

PDC Engineering anticipates having ready by October 1, 2018, the Invitation to Bid (ITB) design package; the Agency will then immediately issue an ITB. Once the ITB period closes, we will come back to Council for project approval.

A conceptual timeline is provided below.



This item is for information purposes only at this point and I am happy to answer questions or provide additional information.

Enclosures: PDC Engineers Design Fee Proposal and Cooling System Design