

2024 Critical Environments Summit

Life Sciences Facility Management and Services Best Practices

Fred Hutch Cancer Center

Steve Matthes and Seth Thornton, January 17, 2024



#1 Focus on more than just keeping the old stuff running







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"Many changes don't happen until the maintenance foreman, who knows how to keep the old equipment running,

DIES or **RETIRES**."

- Peggy Podolak
 Senior Industrial Energy Analyst at the Department of Energy
 http://ngm.nationalgeographic.com/2009/03/energy-conservation/miller-text/7



Big things to focus on include:

Fault Detection Diagnostics

Predictive Analytics

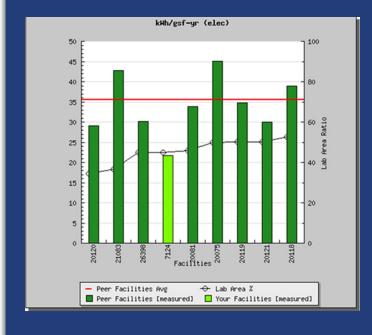
Benchmarking

KPIs

Customer Service

Emergency Operations

Recruitment/Retention/Succession Plans





#2 If you don't have a good Plan B, you better have a good resume







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Critical Operations must have backup plans and redundancy. Failure is not an option!



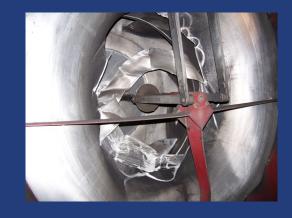




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#3 Replace equipment 1 year too early as opposed to 1 day too late









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Keep track of the:

- Age
- Runtime
- Repair History
- Manufacturer Recommendations
- Cost of Failure
- Obsolescence
- Rebate/Incentive Options

Use it to justify pre-failure replacement



#4 Send just the right amount of energy to just the right place for just the right amount of time





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Outside Air DB/RH/DWPT 37.8 °F / 94.3 % / 36.3 °F





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Level 4

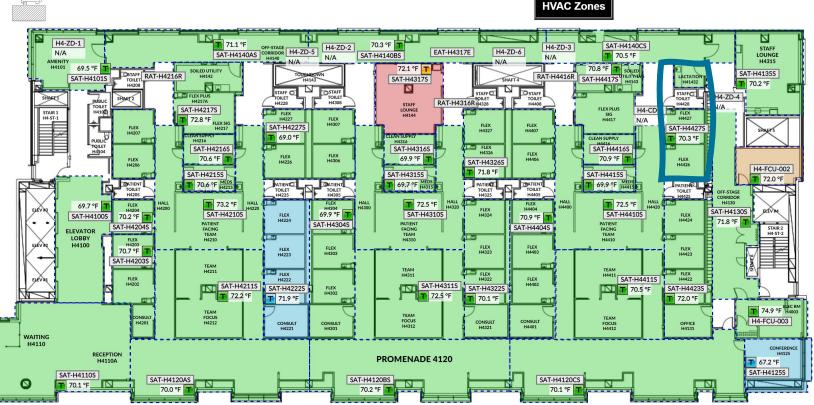
Outside Air DB/RH/DWPT 37.8 °F / 94.6 % / 36.3 °F

Ħ HOME WATER FLOORPLANS SUMMARIES

Show/Hide







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Legend

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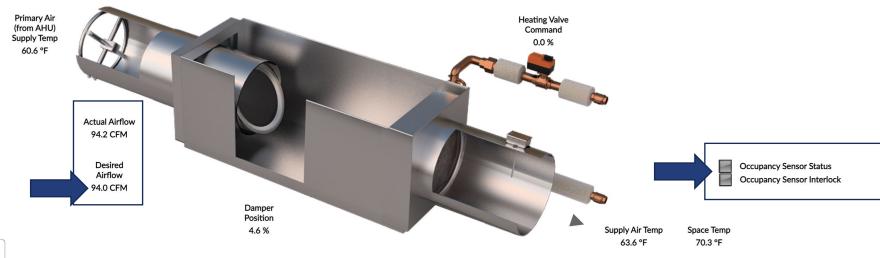
Outside Air DB/RH/DWPT 37.8 °F / 94.2 % / 36.3 °F

Ħ HOME

WATER

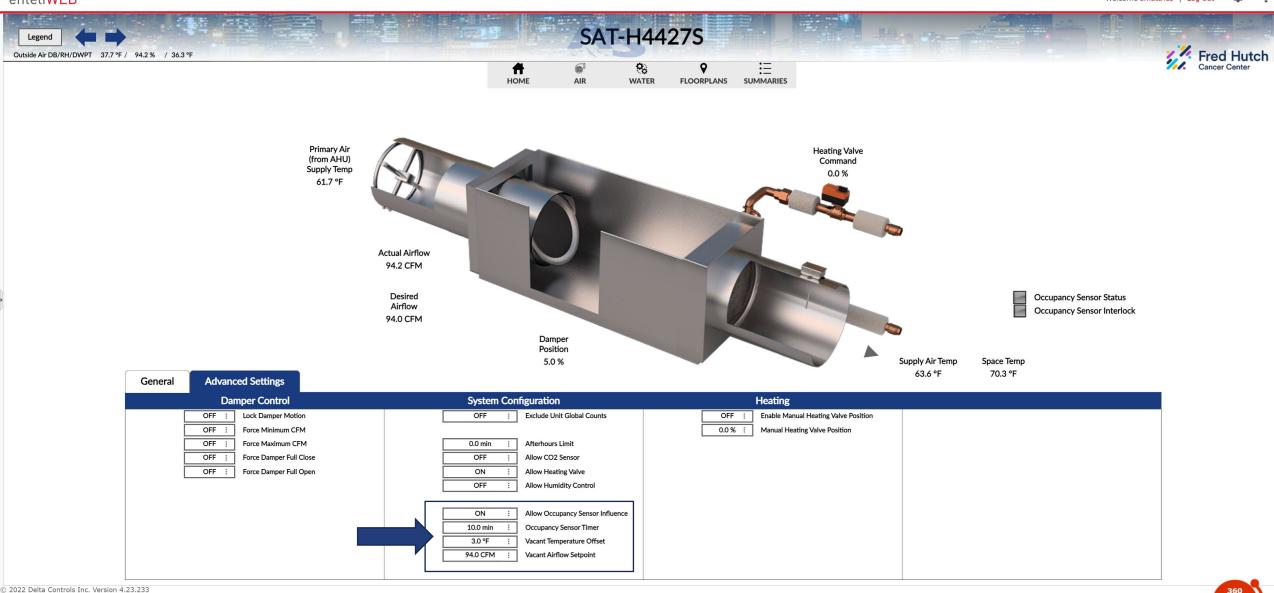
FLOORPLANS SUMMARIES



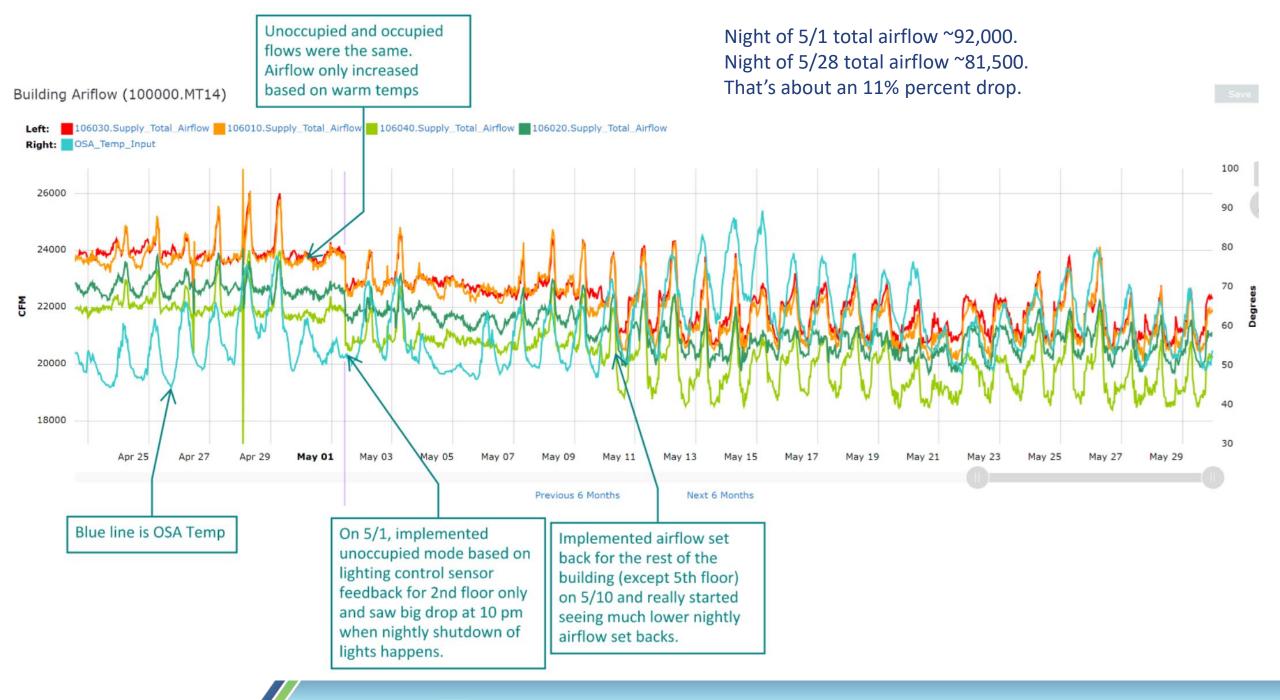


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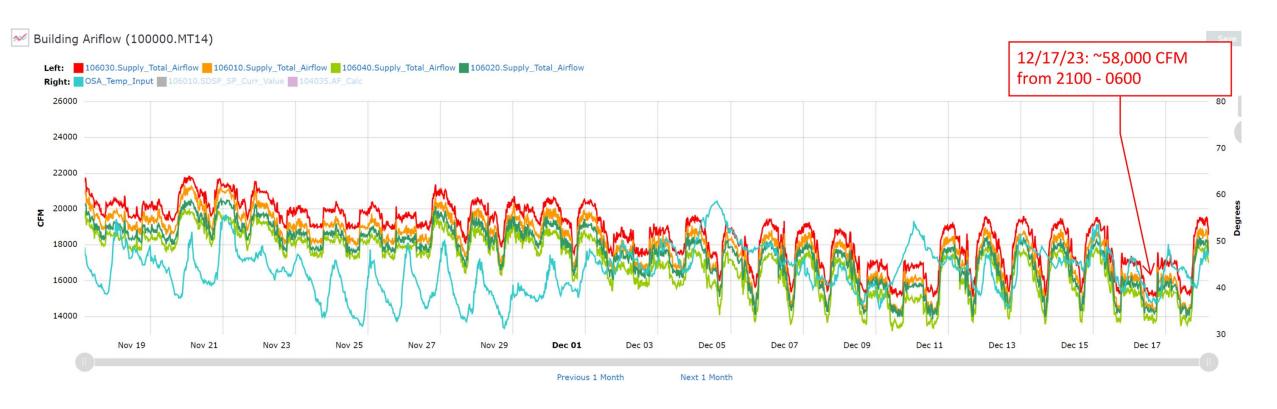




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Night of 5/1 total airflow ~92,000. Night of 5/28 total airflow ~81,500. Night of 12/17 total airflow ~58,000.



- 1. Focus on more than just keeping the old stuff running
- 2. Have a great Plan B...and Plan C... and Plan D....
- 3. Replace equipment 1 year too early versus 1 day too late
- 4. Send just the right amount of energy to just the right place for just the right amount of time

Thank You!

Questions?