

Introduction (3 Screens)

- Building Introduction (2)
 - Location, Function, Architecture
- Mechanical System Overview (2)
 - Heating System
 - Cooling System
 - Laboratory System

Depth 1 – Decentralized Air System (8 Screens)

- Chilled Beam/DOAS Introduction (1)
 - Objective
- Chilled Beam Study (2)
 - Offices, Classrooms
- DOAS Study (1)
 - Design of DOAS
- Energy Analysis (2)
 - Pump/Fan Models
- First Cost Analysis (1)
- Life Cycle Cost Analysis/ System Recommendation (1)

Depth 2 – Chiller Plant (5 Screens)

- Chiller Plant Depth Introduction (1)
 - Objectives – P/S vs. VPF
 - Chiller/Cooling Tower Selection
- Energy Analysis (2)
 - P/S energy vs. VPF energy
- First Cost (1)
- Life Cycle Cost Analysis/System Recommendation (1)

Breadth 1 – Daylighting (4 Screens)

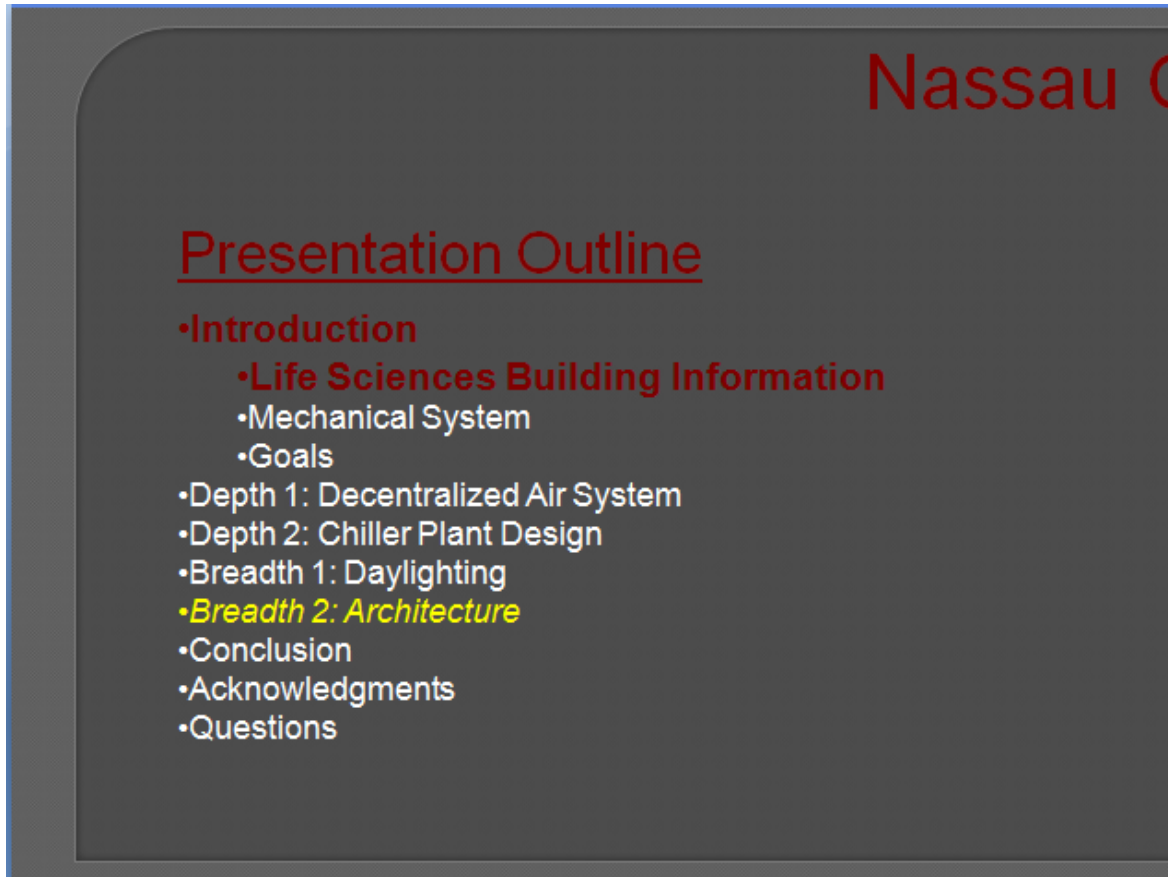
- Daylighting Objective – LEED (1)
- Daylighting Analysis (3)
 - Renderings
 - Discuss Architectural Shading

Conclusion (2 Screens)

- Reiterate Recommendations (2)
 - Closing Remarks

Total: 22 Screens

The next 3 screens are part of the introduction slide/building information



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Building Information

Size:	72,400 Square Feet
Occupancy:	Classrooms/Laboratories/Offices
Levels:	3/Penthouse/Basement
Cost:	\$30 Million
Construction Dates:	March 2010 – January 2012

Team

Architect:	Cannon Design
Structural:	Cannon Design
M/E/P/FP:	Cannon Design
CM:	Jacobs Project Management Co.

Building



The next 3 screens are part of the introduction slide to depth 2:

Nassau C

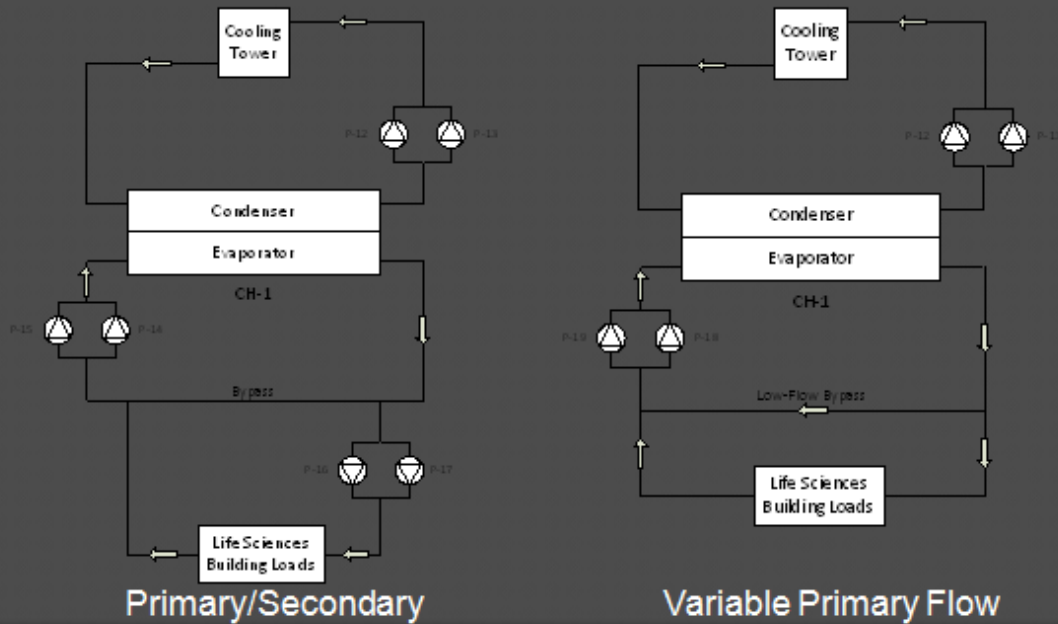
Presentation Outline

- Introduction
- Depth 1: Decentralized Air System
- Depth 2: Chiller Plant Design**
 - Objective**
 - Energy/First Cost
 - Life Cycle Cost
- Breadth 1: Daylighting
- Breadth 2: Architecture*
- Conclusion
- Acknowledgments
- Questions

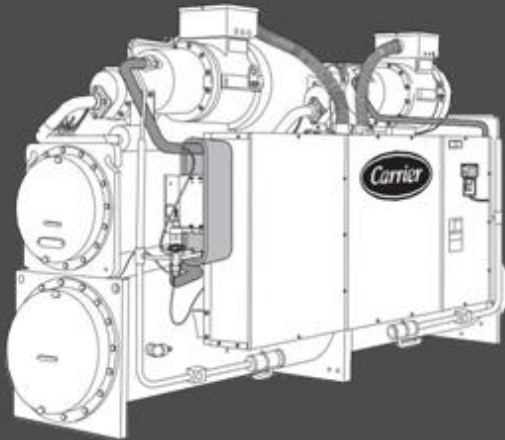
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Primary/Secondary vs. Variable Primary



Building



Carrier Chiller Selected



Marley Cooling Tower Selected



B&G Pump Selected

The next 3 screens are part of the introduction slide to my daylighting breadth:

Nassau C

Presentation Outline

- Introduction
- Depth 1: Decentralized Air System
- Depth 2: Chiller Plant Design
- Breadth 1: Daylighting**
 - Objective**
 - Analysis
- Breadth 2: Architecture*
- Conclusion
- Acknowledgments
- Questions

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Daylighting

- Owner/Architect/Engineer design goal – LEED Gold
- LEED Credit 8.1 - Daylight

Building

