

## Preliminary PowerPoint Presentation Outline

- Personal Introduction (1)
- Presentation Outline (1)
- Straumann USA (Building) Overview (2)
  - Location
  - Building Occupants
  - Occupancy types
- Existing Conditions (3)
  - Current Mechanical System Overview
  - Air Systems – VAV
  - Central Plants – Natural Gas Boilers and Electric Chillers
- Design Objectives (1)
  - Save Yearly Energy Costs
  - Provide Lower 20 yr Life Cycle Costs
  - Educational Tool
- Mechanical Breadth (10)
  - DOAS Redesign
    - Equipment Changes/Modifications
    - Annual Cost Savings
  - Free Cooling Piping: Series vs Parallel
    - Applicability of Series Free Cooling
    - Why Series Free Cooling Would Not Benefit Straumann USA
  - Absorption Cooling Redesign
    - Equipment Changes/Modifications
    - Feasibility of Simultaneous Heating and Cooling
    - Annual Cost Increases
- Electrical Breadth (3)
  - Panels Affected by Changes
  - Equipment Removed or Reduced Electrical Requirements
  - Initial Electrical Cost Savings
- Construction Breadth (3)
  - Major Mechanical Equipment First Costs
  - VAV/DOAS First Cost Comparison
  - Schedule Impacts
- Life Cycle Cost Analysis (1)
  - DOAS vs VAV
  - Absorption vs Electric Chillers
- Recommendations (1)
- Acknowledgements (1)
  
- Total Preliminary Slide Count (27)