Physical Plant
2015
All Hands Meeting

October 8, 2015
15 years ago....

..in the year 2000
What Lies Beneath... are the many piping systems that allow us to live, work and play here at UVM
What Lies Beneath ... is the hidden infrastructure of a mini city

(3) 50,000 gallon fuel oil tanks buried outside Morrill Hall
What Lies Beneath.. Is Hidden But Very Alive
What Lies Beneath... Is Sometimes Taken For Granted
What Lies Beneath... is always challenged by our harsh Vermont winters
What Lies Beneath ... are the utilities that keep us warm
*What Lies Beneath*... is a huge investment of infrastructure
What Lies Beneath is tremendous energy
What Lies Beneath... is the domestic water that we use every day on campus
What Lies Beneath are the utility vaults that control the flow of our systems
What Lies Beneath... are the electrical systems that power our buildings
What Lies Beneath... are miles of tunnels, crawl spaces and utility corridors.
**What Lies Beneath ...** are the foundations that hold up our buildings
What Lies Beneath ... are the waterproofing systems that keep our buildings dry
What Lies Beneath ... are the Steam and Chilled Water lines that heat and cool our buildings
What Lies Above ... is just as important as What Lies Beneath
*What Lies Beneath* is critical to campus operations
What Lies Beneath... behind and on top are the unsung heroes of our campus.
What Lies Beneath ... to Me... Is Pretty Cool Stuff!
What Lies Beneath Could Be Worse
Our challenge now.....

to match

What Lies Beneath
to

What Lies Ahead
So What Lies Ahead?
We have to make sure that we’re in **alignment** with future projects
Some of the projects

- STEM building and attached academic/support facility
- First Year Student Housing project
- Proposed Billings Center renovation
- Proposed Kalkin Hall addition
- Other projects that seem to come up from time to time

All these facilities need *utilities* to function.
New STEM Building Rendering
New First Year Student Housing  Project Rendering
Addition To Central Plant - Project Rendering
What PPD is Doing To Meet What Lies Ahead

- Central Plant addition to increase chilled water capacity
- Installing new electric capacity from BED
- Working with BED and VGS towards most efficient model
- Design Review, Design Review, Design Review
- Relocating electric feeds to accommodate building footprint
- Using “Smart Meters” – real time data to adjust operation.
- Control systems to limit demand (PI Software investment)
- Anticipate all utility loads and dispatch equipment efficiently
- Continue to think strategic and take advantage of projects
Coming To a Theatre Near You

What Lies Ahead

Starring UVM PPD Staff
To Meet The Challenge Like We Always Do

“A First Class Chiller”