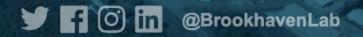




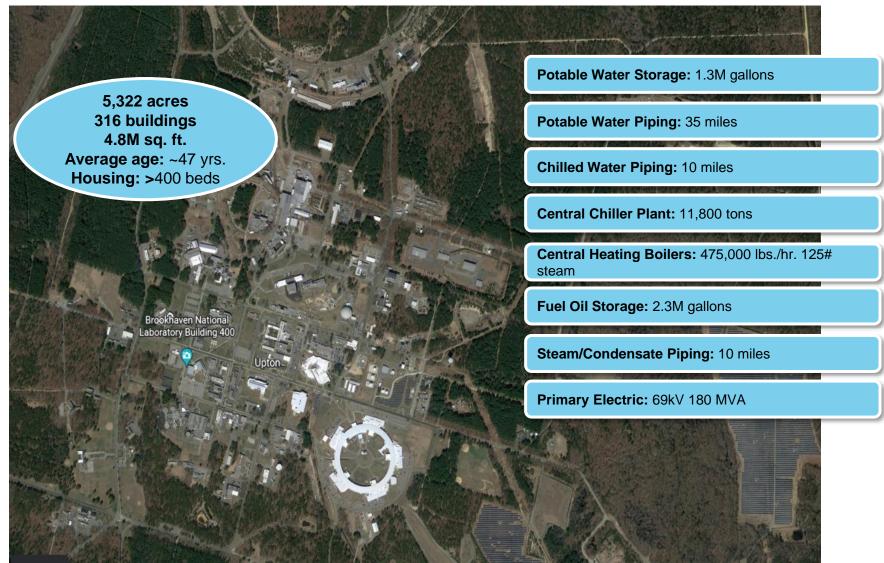
Facilities and Operations Update RHIC & AGS User Meeting

June 14, 2024

Tom Daniels F&O ALD



Our Stewardship Accountability



National Laboratory

Ten-year Campus Infrastructure Strategy

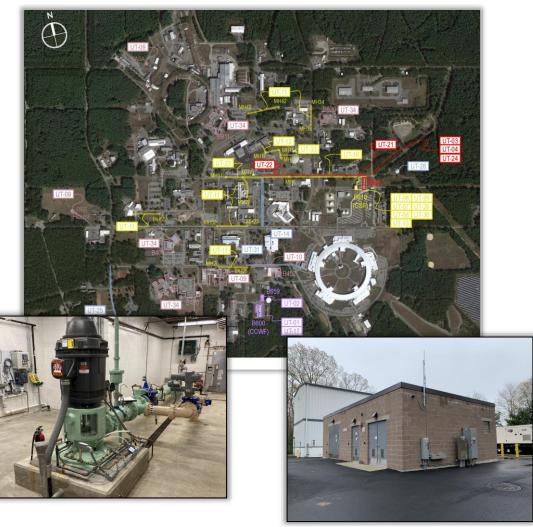
Provide a revitalized campus that transforms the way our science is performed, supports BNL science initiatives, attracts and retains the best workforce, and enables our users to achieve their goals





CURP is addressing the most urgent utility issues

- CD-2/3 Approved December 2022
- TPC \$92.8M
- Scope: Improve service to all programs by rehabilitating the aging infrastructure of BNL's most critical, and urgent, utility subsystems (e.g., steam distribution, central plant chillers, potable water distribution piping, electrical distribution, sanitary system)
- Schedule:CD-4: 2/15/29





CURP: Critical Utilities Rehabilitation Project

CURP Status Update

| WORK PACKAGE ID | DESCRIPTION | PRE DESIGN | 50% DESIGN | 90% DESIGN | 100% DESIGN | IFC | NTP |
|--------------------|--|---------------|---------------|--------------------|--------------------|-----------------|--------|
| UT-01 | Replacement of Chiller CH-4 at CCWF | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |
| UT-02 | Chemical Injection System for Building B659 | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |
| UT-03 | New 13.8kV Feeders from B603 to B600 | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |
| UT-04 | Replace (28) 13.8 kV Magna Blast Breakers in Substation 603 (Bus 1 & 3) | COMPLETE | COMPLETE | IN- DEVELOPMENT | | | |
| UT-05 | Replace Five Water Valves | COMPLETE | COMPLETE | COMPLETE | COMPLETE | COMPLETE | ISSUED |
| UT-06 | Rebuild Manhole MH1 | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |
| UT-07 | Replace Existing Bailey Infi-90 Control System | COMPLETE | COMPLETE | IN- DEVELOPMENT | | | |
| UT-08 | Replace B-6 Economizer and Stack | COMPLETE | COMPLETE | IN- DEVELOPMENT | | | |
| UT-09 | Replacement/Rehabilitation of Four Highest Priority Lift Stations | COMPLETE | COMPLETE | COMPLETE | IN- DEVELOPMENT | | |
| UT-10 | Reline 440LF of Sewer Pipe Section from B452 MH-96A to North of Building 452 (440LF/5610LF) And Replace 1 Manhole MH-96A | COMPLETE | COMPLETE | COMPLETE | COMPLETE | COMPLETE | ISSUED |
| UT-11 | Replace Various Leaks | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |
| UT-12 | Replace Condensate Pipe Between MH17 to B801 | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |
| UT-13 | Replace CEMS Data Acquisition System | COMPLETE | COMPLETE | UNDER REVIEW | | | |
| UT-14 | Replace Water Main on Technology Street | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |
| UT-15 | Emergency Water System Interconnection to BNL | COMPLETE | COMPLETE | COMPLETE | IN- DEVELOPMENT | | |
| UT-16 | Replace Steam and Condensate Piping Between MH1- MH6 | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |
| UT-17 | Replace CH-2 at CCWF | COMPLETE | COMPLETE | COMPLETE | COMPLETE | UNDER REVIEW | |

Applying SLI-GPP investment to critical priorities -



- B510 Electrical Upgrade Phase II (\$5.15M): Upgrade building electrical distribution equipment to decrease potential for hazards, decreasing arc flash incident energy and system damaging electrical faults and allowing for safe operation and maintenance.
- HVAC I Upgrades (\$8.7M): Addressing the most urgent mechanical needs in Mission Critical buildings replacing aged equipment, adjusting HVAC load capacities, updating system configurations and upgrading controls systems with energy efficient systems.

HVAC II Upgrades (\$9.3M):

Addressing the mechanical needs in Mission Critical buildings to enhance operational efficiency and reliability replacing aged equipment, adjusting HVAC load capacities, updating system configurations and upgrading controls systems with energy efficient systems.



Science + User Support Center (SUSC) Project Overview







Under Construction





April 17, 2024



SUSC First Floor



Main Lobby



Badging, Housing and GUV Center



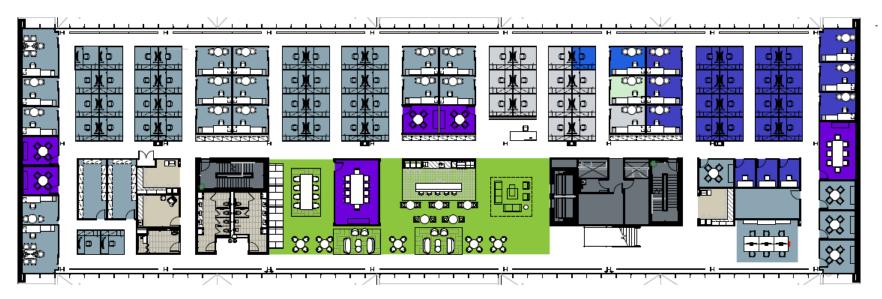


Conference Assembly Area

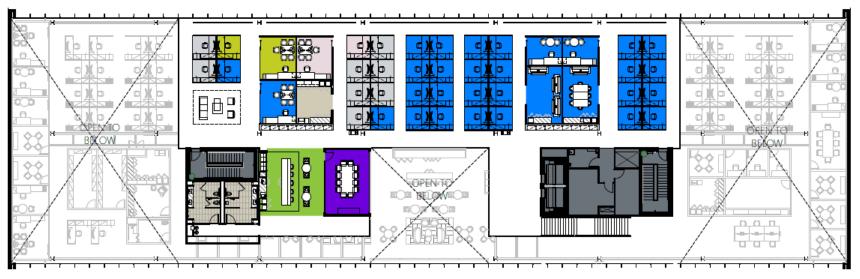




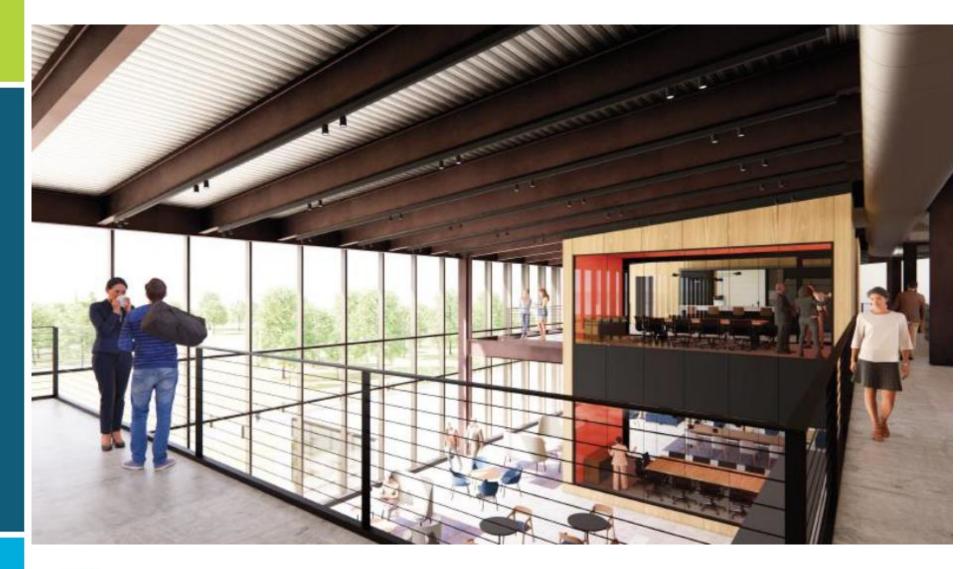
SUSC Second Floor



SUSC Third Floor



View from Mezzanine





2nd Floor Work Café





Guest Services Overview



Transportation and Fleet

ADA Bus Approval: An ADA bus order has been submitted to DOE for approval.

Additional Shuttle Van Rental: A 14-passenger shuttle van has been rented to handle the summer influx. The extra shuttle will shorten wait times and provide additional 8 am-4:30 pm service.

Route Optimization: Summer routes will be assessed to optimize the additional shuttle's impact. This data will guide future scheduling adjustments.

New Shuttle App: A customer-friendly app is in development to streamline onsite shuttle requests and automate data tracking.

ChargePoint Stations: Three new ChargePoint EV stations (6 ports) will be installed at B400, including one that is ADA accessible. There are 28 ports total, site-wide.



Housing

Fire Alert Units: Five Lifetone HL fire alert units with auditory, visual, and tactile features are now available upon request for any on-site accommodation.

Lobby Furniture Update: New lobby furniture ordered for the Guest House and three dormitories.

5G Upgrade: Verizon 5G wireless upgrade for the apartment area will be completed by the end of June.

DEIA Improvements: Washer/dryer project enhances first-floor accessibility, moving towards inclusive accommodations. A two- bedroom apartment is being upgraded to accommodate guests with ADA needs.

Online Request Portal: An updated online portal for Housing requests is undergoing testing. **QR Code Access:** A QR code has been created for key cards and tend cards to assist visitors in finding Guest Services information.

Summer Housing Solutions: SBU dorm units have been secured to alleviate summer housing shortages.



Conference & Food Services

Streamlined Planning: Collaborative work with OII and Web Services will enhance conference planning and aims to move the process online.

Furniture Refresh: New Cafeteria and Berkner meeting room furniture is being selected.

Food Vendors: Artisan and Tend Coffee continue regular pop-up services in Berkner for the summer.

Micro Marts: There are three micromarts providing food options 24/7 for the Laboratory. They are located at B400,B740,and B911.

Vending Machines: The current vendor will discontinue services and Food Services is currently working on securing a vendor for the future.

New Proposal: The Food Services proposal is currently under review.

Additional Conference Spaces: The Conference & Food Services team is preparing for the SUSC opening and the additional event spaces that will be available.



QOL/BERA/Recreation

ADA Upgrades: Men's locker room shower at the gym is being updated for ADA compliance.

Recreation Events: Pickleball clinics, a Yankee Stadium bus trip, fireside chats, and softball and beach volleyball leagues are scheduled for the summer.

Online Store: A "soft" rollout of the BERA online store is underway.

Outdoor Yoga: Exploring outdoor yoga sessions once per week for the summer.

BERA Garden Club/CDC: F&O will partner with BERA Garden Club and the CDC in creating garden beds for the children to grow fresh vegetables and flowers.



Upcoming Activities

- Update the Utilities Master Plan
- Update the Campus Master Plan
- Finalize "Future of Work Plan"
 - Space Planning to consolidate staff
- SUSC Transition to Operations
- DDO champions the Improve the User Experience Team
- Continue to exceed SLI expectations to ensure continued SLI/GPP support



BNL Main Gate Booth











