The College of William & Mary Protects Research Samples with Minus80 Monitoring Solution

The Biology Department at The College of William & Mary in Williamsburg, Virginia conducts a diverse research and teaching program. As a top public research university, the innovative research culture and significant collaborative studies underway at William & Mary make sample protection a top priority.

The W&M Biology Department has relied upon either a building-wide HVAC monitoring system that was only effectively monitored during working hours or analog telephone-based monitoring devices to provide limited information to investigators if a freezer began to fail. The Biology Department Faculty were looking for a monitoring solution that would provide detailed information when a storage unit encountered a problem and one that would enable them to receive alerts to render a quick response. They agreed to a 'trial evaluation' of Minus80's monitoring solution to see exactly how this would offer the peace of mind they had been seeking.

Minus80 Monitoring provides the real time cloud-based solution W&M was seeking, offering constant remote monitoring and alerting required of lab personnel and researchers today with minimal onsite equipment. Minus80 allows staff at The College of William & Mary to quickly be informed of alarming units thus enabling quick action prior to storage unit failure. The Minus80 mobile phone app via iPhone or Android increases flexibility and allows quick response when an alert requires immediate action.

In only the past few months, Minus80 Monitoring has protected the W&M Biology Department from loss on two separate occasions when storage units failed.

Simply put, when an alarm occurs on a freezer or any lab storage unit, real-time internal temperature, ambient temperature, and current door status readings are sent via text, email or voice to recipients via an easy and intuitive web portal. This keeps staff properly informed and enables them to respond back to the system for others to see who is taking action. Minus80 allows monitoring of any temperature controlled storage unit, self-configuration of alerting protocols, and access to historical data of temperatures and door events.

Minus80 Monitoring's ability to monitor the door status in addition to the internal and ambient temperature provides staff with meaningful data to help instill good lab habits for students loading or unloading samples and will quickly foster good energy efficiency and sustainability principles.

Tables and graphical data on the Minus80 portal show trending of temperatures as they relate to door open events.

Minus80 is monitoring a combination of ultra-low and standard freezers in William & Mary's Biology Department.   Today the researchers enjoy the flexibility of alarm delivery via text, email or telephone as well as the Minus80 iPhone application providing the research staff peace of mind their work is safe.   The subscription plan has made it affordable for William & Mary as Minus80 provides and maintains the onsite equipment while the cloud-based design assures the software features and updates are always current. In only the past few months, Minus80 Monitoring has protected the W&M Biology Department from loss on two separate occasions when storage units failed.   The ability to monitor door events has also aided in establishing procedures for good lab protocol moving forward.

For further information on how Minus80 Monitoring can help you better protect your sample storage environments, please contact us at info@minus80monitoring.com. Dr. Eric Bradley, within the Biology Department at The College of William & Mary will provide personal reference upon request.

MINUS 80
Critical Temperature Monitoring
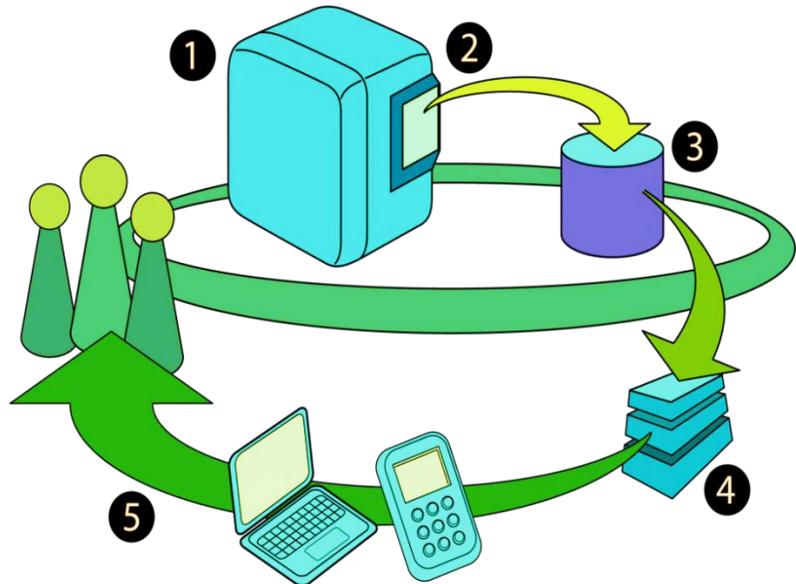
1. Freezers and other lab equipment (incubators, cryogenic, etc.) are fitted with wireless probes to monitor temperature and door status.

2. Wireless probes communicate to a collection appliance in the user's facility.

3. The collection appliance communicates to our servers over the internet.

4. Our servers monitor the units, and alert the users if there are any problems.

5. Users access the system via the browser to administer their alert actions, and to view reports. They can also access it via their iPhone.