



## STEM CELL LABORATORY (STCL)



**DOCUMENT NUMBER:** STCL-EQUIP-021 JA2

**DOCUMENT TITLE:**

Duke University Users Guide-Building Automation Systems JA2

**DOCUMENT NOTES:**

### Document Information

**Revision:** 01

**Vault:** STCL-Equipment-rel

**Status:** Release

**Document Type:** Equipment

### Date Information

**Creation Date:** 24 Jun 2015

**Release Date:** 13 Aug 2015

**Effective Date:** 13 Aug 2015

**Expiration Date:**

### Control Information

**Author:** WATE02

**Owner:** WATE02

**Previous Number:** None

**Change Number:** STCL-CCR-294

## STCL-EQUIP-021 JA2

### Duke University User's Guide-Building Automation Systems

#### Duke University Medical Center Engineering & Operations **USER'S GUIDE**

### B.A.S. - Building Automation Systems

The Building Automation System (B.A.S.) consists of computerized equipment to monitor, control, and record alarms for major equipment, which include the following: Fire Alarm System, HVAC System, Building Security System, Emergency Generator System, and Plumbing System (including Medical Gases).



The objectives of the B.A.S. are as follows:

1. To maintain acceptable environmental conditions by monitoring and controlling all major systems and equipment.

2. To conserve energy and reduce operational costs by managing its use through central monitoring and controlling major systems and equipment.

- a. Enthalpy optimization
- b. Electric demand limiting

3. To provide a Life Safety System through the use of the Fire Alarm System.

- a. Automatic and manual audio (voice) alarm reporting to all zones within the building and evacuation message to the fire zone.
- b. Automatic smoke evacuation provided by the HVAC system.

4. To provide security to the outlying Medical Center buildings through the use of a centralized building lockup and monitoring system.

5. To provide daily reports of all points in alarm and printouts of the Medical Gas System readings.

***If you set off the centralized building lockup and monitoring system in your area by accident, notify the B.A.S. room immediately, 681-2365.***



<u>AIR COMPRESSORS</u>	<u>LOCKS</u>
<u>ACCESS CARDS</u>	<u>MEDICAL GAS SYSTEMS</u>
<u>B.A.S.</u>	<u>PLTTS- Pneumatic Linen and Trash Transport System</u>
<u>COMMUNICATIONS</u>	<u>PLUMBING SYSTEMS</u>
<u>ELEVATORS</u>	<u>PRT - Personnel Rapid Transit</u>
<u>ELECTRICAL APPLIANCES</u>	<u>REFRIGERATION</u>
<u>EMERGENCY POWER</u>	<u>SIGNAGE</u>
<u>HEPA FILTERS</u>	<u>STEAM SYSTEMS</u>
<u>HVAC</u>	<u>STERILIZERS</u>
<u>LAB HOODS</u>	<u>VACUUM SYSTEMS</u>

**Signature Manifest****Document Number:** STCL-EQUIP-021 JA2**Revision:** 01**Title:** Duke University Users Guide-Building Automation Systems JA2

All dates and times are in Eastern Time.

**STCL-EQUIP-021 JA2 Duke University Users Guide-Building Automation Systems****Author**

Name/Signature	Title	Date	Meaning/Reason
Barbara Waters-Pick (WATE02)		14 Jul 2015, 07:54:26 PM	Approved

**Manager**

Name/Signature	Title	Date	Meaning/Reason
Barbara Waters-Pick (WATE02)		14 Jul 2015, 07:54:38 PM	Approved

**Medical Director**

Name/Signature	Title	Date	Meaning/Reason
Joanne Kurtzberg (KURTZ001)		15 Jul 2015, 10:06:33 AM	Approved

**Quality**

Name/Signature	Title	Date	Meaning/Reason
John Carpenter (JPC27)		15 Jul 2015, 10:11:52 AM	Approved

**Document Release**

Name/Signature	Title	Date	Meaning/Reason
Sandy Mulligan (MULLI026)		31 Jul 2015, 01:23:55 AM	Approved