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EXECUTIVE SUMMARY

The long-term benefits of correct ongoing system operation greatly outweigh the initial commissioning process. Implementation of preventive maintenance, re-commissioning, and ongoing calibrations is a cost effective path to ensure the building's mechanical, lighting, and domestic hot water systems function as designed, meet the needs of the building operation, and that energy savings are realized throughout the life-cycle of the project building. If the components of this Systems Manual are followed by the operational staff the results lead to improved occupant well-being + productivity as well as prolonging the life of the commissioned equipment. Finally, above and beyond the initial commissioning process prior to building occupancy, the Systems Manual gives the operating staff the direction needed to maintain the equipment as defined by "Industry Best Practices".

The intent of the systems manual is to provide the operating staff the information needed to understand and optimally operate the commissioned systems. The manual includes the following sections:

- Resolution Plan
- List of Equipment Commissioned
- Commissioning Summary Report
 - Commissioning Plan
- As-Built Sequence of Operations
- Commissioning Summary Report
- Recommended Preventative Maintenance Plan & IOM's
- Recommended Schedule for Re-Commissioning
- Blank Functional Testing Forms
- Recommended Calibration Schedule
- Record Drawings
- Completed Test Reports
- Submittals

The expected annual energy consumption of the project building has been determined through an energy simulation model. It is recommended, and may be required by a Measurement & Verification Plan, to compare the first year of energy consumption to the expected energy consumption.

SUMMARY

is a sustainable consulting firm located in Milwaukee, Wisconsin. prepared this document for , Inc. The Commissioning Authority (CxA) and author of this report is , CxA.

The project building is a 707,653 square foot processing and distribution facility located in and consists of manufacturing facility and office. has set out to bring an awareness level for sustainability to a higher level by using the LEED Green Building Rating System as a benchmark for the project's achievements. will set a goal of LEED Silver for the project.

This report has been written to comply with the requirements of Energy & Atmosphere Prerequisite - Fundamental Commissioning, and Energy & Atmosphere Credit – Enhanced Commissioning, as outlined by the LEED for New Construction V4 Rating System.

Commissioning is the process of understanding the requirements of the owner through the development of the Owner's Project Requirements (OPR) and designing a facility that meets these needs through the creation of the Basis of Design (BOD). The CxA has reviewed the OPR and BOD for clarity and completeness. The relevant party has been held responsible for modifications to the OPR or BOD under the guidance of the CxA. The CxA has incorporated the commissioning requirements into the construction documents such that bidding contractors are aware of their roles and responsibilities with respect to the commissioning process. Finally, the CxA has verified the building's energy-related systems perform in accordance with the design intent and has included the findings within a written summary commissioning report.

The goal of the commissioning report is to ensure the project's energy related systems are installed, calibrated and perform according to the owner's project requirements, basis of design and construction documents. Benefits of commissioning include reduced energy use, lower operating costs, reduced contractor callbacks, better building documentation, improved occupant productivity and verification that the systems perform in accordance with the owner's project requirements.

SUMMARY

Commissioning process activities have been completed for the following energy-related systems:

- Heating, ventilating, air conditioning and refrigeration (HVAC&R) systems (mechanical and passive) and associated controls:
 - Air Handling Units + Associated Condensing Units
 - Boilers + Associated Pumps
 - Chillers
 - Make-Up Air Units
 - Variable Air Volume System
 - Fan Powered Induction with Reheat
 - DX Rooftop Air Conditioning Unit
 - Split System Cassette Heat Pumps
 - Supply and Exhaust Fans
 - Electric Heaters
 - Humidifiers
 - Motor Operated Dampers
- Lighting and daylighting controls
 - Occupancy Sensors
 - On/off Switches
- Domestic hot water system
 - Natural Gas Water Heater
 - Electric
 - Plumbing Fixtures
 - Domestic Water Pumps
- The project building does not encompass Renewable Energy Systems
- Other systems commissioned

In conclusion, this report contains the final OPR, BOD and commissioning plan implemented by the commissioning team. The completed Pre-Functional Checklists, Functional Testing Reports, and Issues Log can be found within the Appendix of this report. The Issues Log has been created to document all items found out of compliance with the Basis of Design. Issues that have been remedied have been noted as “resolved” and date of verification has been included. Issues that are still outstanding are written in red.

A summary commissioning report has been uploaded to LEED Online to document compliance.

SYSTEMS MANUAL

LIST OF EQUIPMENT COMMISSIONED

- Air Handling Units

- UAHU101
- UAHU201
- UAHU202
- UAHU203
- UAHU204
- UAHU301
- UAHU302
- UAHU303
- UAHU304
- UAHU305
- UAHU306
- UAHU307
- UAHU308
- UAHU309
- UAHU310
- UAHU311
- UAHU312
- UAHU313
- UAHU314

- Make-up Air Units

- UMAU201
 - UMAU202
 - UMAU203
 - UMAU204
 - UMAU205
 - UMAU206
 - UMAU207
 - UMAU208
 - UMAU209
 - UMAU210
 - UMAU211
 - UMAU301
 - UMAU302
 - UMAU303
 - UMAU304
 - UMAU305
 - UMAU401
 - UMAU402
 - UMAU403
-

SYSTEMS MANUAL

- UMAU404
 - Chillers
 - UCH001
 - UCH002
 - UCH003
 - Boilers
 - UBLR001
 - UBLR002
 - UBLR003
 - Cooling Towers
 - UCT001
 - UCT002
 - UCT003
 - VAVs
 - UVAV021
 - UVAV101
 - UVAV102
 - UVAV103
 - UVAV104
 - UVAV105
 - UVAV106
 - UVAV107
 - UVAV108
 - UVAV109
 - UVAV110
 - UVAV111
 - UVAV112
 - UVAV113
 - UVAV114
 - UVAV115
 - Fan Powered Induction Units – HW Reheat
 - UPIU101
 - UPIU102
 - UPIU103
 - UPIU104
 - UPIU105
 - UPIU106
-

SYSTEMS MANUAL

- UPIU107
 - UPIU108
 - UPIU201
 - UPIU202
 - UPIU203
 - UPIU204
 - UPIU205
 - UPIU206
 - UPIU207
 - UPIU208
 - UPIU209
 - UPIU210
 - UPIU211
 - UPIU212
 - UPIU213
 - UPIU214
 - UPIU215
 - UPIU216
 - UPIU217
 - UPIU218
 - UPIU219
 - Exhaust Fans
 - UEF101
 - UEF102
 - UEF201
 - UEF202
 - UEF204
 - UEF205
 - UEF206
 - UEF207
 - UEF208
 - UEF209
 - UEF210
 - UEF211
 - UEF212
 - UEF213
 - UEF214
 - UEF215
 - UEF301
 - UEF302
 - UEF303
-

SYSTEMS MANUAL

- UEF311
 - UEF401
 - UEF402
 - UEF403
 - UEF404
 - UEF405
 - UEF406
 - UEF407
 - Supply Fans
 - UBAF001
 - UBAF002
 - UBAF003
 - UBAF004
 - UBAF005
 - UBAF006
 - UBAF007
 - UBAF008
 - UBAF009
 - UBAF010
 - UBAF011
 - UBAF012
 - DX Rooftop Units
 - URTU201
 - URTU202
 - URTU203
 - URTU301
 - URTU302
 - URTU401
 - URTU402
 - Electric Heaters
 - UEH101
 - UEH102
 - UEH103
 - Pumps
 - UCHP001
 - UCHP002
 - UCHP003
 - UCHP004
-

SYSTEMS MANUAL

- UCHP005
- UCHP006
- UCWP001
- UCWP002
- UCWP003
- UHWP001
- UHWP002
- UHWP003
- UBCP001
- UBCP002
- UBCP003
- Split System with Heat Pump
 - UOAC101
 - UIAC101
- Electrical Systems
 - Lighting
 - Distribution
- Domestic Hot Water Systems
 - Hot Water Tanks
 - Fixtures

SUMMARY COMMISSIONING REPORT

RESOLUTION PLAN

It is the responsibility of the owner to ensure the HVAC, controls and electric contractors resolve the open items detailed in the Issues Log. The Construction Manager will require all contractors to complete the outstanding items prior to final payment. The HVAC, controls and electrical contractors will agree to resolve the outstanding items in a timely manner at no cost to the owner.

The owner will ensure that issues involving equipment / specification disparities will be resolved. The owner will confirm with the engineer of record final design. The engineer will rule if the installed equipment / sequence shall remain. Items requiring changes in documentation will be performed by the respective contractor responsible for the associated equipment.

Once deficiencies are resolved the MEP contractors will provide training of installed systems to the building engineer. This training shall include the sequence of operation for each system as well as industry / manufacturer recommended maintenance procedures.

CONCLUSIONS

The installed, as-operating energy-related systems meet the Owners Project Requirements, Basis of Design, and contract documents. All future additions / modifications will follow the commissioning requirements implemented during the initial construction.

The Commissioning Authority (CxA) recommends that the building owner documents the energy performance and implement sustainable policies and plans for the following:

- Building Exterior and Hardscape
- Integrated Pest Management
- Erosion Control
- Landscape management
- Purchasing
- Waste
- Green Cleaning

Upon implementation of the plans, the documentation of building energy consumption, CxA recommends the building owner pursue LEED EBOM Certification to further increase their awareness and commitment to building sustainability.

DEFINITIONS

Acceptance

A formal action, taken by a person with appropriate authority (which may or may not be contractually defined) to declare that some aspect of the project meets the defined requirements, thus permitting subsequent activities to proceed.

Basis of Design

A document that records the concepts, calculations, decisions, and product selections used to meet the owner's project requirements and to satisfy applicable regulatory requirements, standards and guidelines. The document includes both narrative descriptions and lists of individual items that support the design process.

Checklists

Verification checklists that are developed and used during all phases of the commissioning process to verify that the owner's project requirements are being achieved. This includes checklists for general verification, plus testing, training and other specific requirements.

Commissioning

A systematic process of ensuring that all building systems perform according to the owner's project requirements, design intent, basis of design and contract documents. The process includes verification of installed mechanical systems and owner training.

Commissioning Authority

An entity identified by the owner who leads, plans, schedules and coordinates the commissioning team to implement the commissioning process. May also be referred to as the Commissioning Agent.

Commissioning Plan

A document that outlines the organization, schedule, allocation of resources, and documentation requirements of the commissioning process.

Commissioning Process

A quality focused process for enhancing the delivery of a project. The process focuses upon verifying and documenting that the facility and all of its systems and assemblies are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

Commissioning Manual

A document that records the activities and results of the commissioning process.

DEFINITIONS

Commissioning Team

The individuals who through coordinated actions are responsible for implementing the commissioning process.

Construction Documents

These include a wide range of documents that will vary from project to project and with the owner's needs, regulations, laws and municipalities. Construction documents usually include the project manual (specifications), plans (drawings), and general terms and conditions of the contract.

Coordination Drawings

Drawings showing the work of all trades to illustrate that equipment can be installed in the space allocated without compromising equipment function or access for maintenance or replacement. These drawings graphically illustrate and dimension manufacturer's recommended maintenance clearances.

Design Intent Documentation

Design intent document is a design phase narrative that explains how proposed designs responded to the owner's project requirements and how the building is intended to operate.

Owner's Project Requirements

A written document that details the functional requirements of a project and the expectations of how it will be used and operated. These include project goals, mechanical equipment efficiencies, success criteria and supporting information.

Test Procedure

A written protocol that defines methods, personnel, and expectations for tests conducted on components, equipment, assemblies, systems and interface among systems.

Training Plan

A written document that details the expectations, schedule, budget and deliverables of the commissioning process activities related to training of project operating and maintenance personnel, users and occupants.

Verification

The process by which specific documents, components, equipment, assemblies, systems and interface among systems are confirmed to comply with the criteria described in the owner's project requirements.

Construction Issues

Number	Description	Status	Priority	Asset	Assigned	Due Date
CHK-4349-5	Supply Static Pressure reads -0.05 inwc with supply fan VFD at 100%	CLOSED AND VERIFIED BY		UAHU314 - Air Handling Unit - Packaging near K-15 - 54T 20k cfm		12/25/2019
CHK-4349-4	Fan VFDs do not shut down with a smoke alarm when placed in hand .. Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU314 - Air Handling Unit - Packaging near K-15 - 54T 20k cfm		12/25/2019
CHK-4349-3	Humidifier install is not complete	VENDOR SUB COMPLETE		UAHU314 - Air Handling Unit - Packaging near K-15 - 54T 20k cfm		12/25/2019
CHK-4349-2	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU314 - Air Handling Unit - Packaging near K-15 - 54T 20k cfm		12/25/2019
CHK-4349-1	RA AFMS is not installed	CLOSED AND VERIFIED BY		UAHU314 - Air Handling Unit - Packaging near K-15 - 54T 20k cfm		12/25/2019
CHK-4348-6	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU313 - Air Handling Unit - Packaging near G-15 - 54T 20k cfm		12/25/2019
CHK-4348-5	Fan VFDs do not shut down with a smoke alarm when placed in hand	VENDOR SUB COMPLETE		UAHU313 - Air Handling Unit - Packaging near G-15 - 54T 20k cfm		12/25/2019
CHK-4348-4	Humidifier install is not complete	VENDOR SUB COMPLETE		UAHU313 - Air Handling Unit - Packaging near G-15 -		12/25/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				54T 20k cfm		
CHK-4347-6	Supply Static Pressure reads -0.60 inwc with supply fan VFD at 100%	CLOSED AND VERIFIED BY		UAHU312 - Air Handling Unit - Packaging near K-13 - 54T 20k cfm		12/25/2019
CHK-4347-5	Humidifier install is not complete	VENDOR SUB COMPLETE		UAHU312 - Air Handling Unit - Packaging near K-13 - 54T 20k cfm		12/25/2019
CHK-4347-4	Fan VFDs do not shut down with a smoke alarm when placed in hand	VENDOR SUB COMPLETE		UAHU312 - Air Handling Unit - Packaging near K-13 - 54T 20k cfm		12/25/2019
CHK-4347-3	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU312 - Air Handling Unit - Packaging near K-13 - 54T 20k cfm		12/25/2019
CHK-4346-5	Humidifier install is not complete	VENDOR SUB COMPLETE		UAHU311 - Air Handling Unit - Packaging near G-13 - 54T 20k cfm		12/25/2019
CHK-4346-4	Fan VFDs do not shut down with a smoke alarm when placed in hand	VENDOR SUB COMPLETE		UAHU311 - Air Handling Unit - Packaging near G-13 - 54T 20k cfm		12/25/2019
CHK-4345-5	Supply Static Pressure reads -0.45 inwc with supply fan VFD at 100%	CLOSED AND VERIFIED BY		UAHU310 - Air Handling Unit - Packaging near K-11 - 54T 20k cfm		12/25/2019
CHK-4345-4	Humidifier install is not complete	VENDOR SUB COMPLETE		UAHU310 - Air Handling Unit -		12/25/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				Packaging near K-11 - 54T 20k cfm		
CHK-4345-3	Fan VFDs do not shut down with a smoke alarm when placed in hand ..	VENDOR SUB COMPLETE		UAHU310 - Air Handling Unit - Packaging near K-11 - 54T 20k cfm		12/25/2019
CHK-4345-2	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU310 - Air Handling Unit - Packaging near K-11 - 54T 20k cfm		12/25/2019
CHK-4344-5	Supply Static Pressure reads -0.45 inwc with supply fan VFD at 100%	CLOSED AND VERIFIED BY		UAHU309 - Air Handling Unit - Packaging near G-11 - 54T 20k cfm		12/25/2019
CHK-4341-6	Humidifier install is not complete	VENDOR SUB COMPLETE		UAHU306 - Air Handling Unit - Packaging near K-7 - 54T 20k cfm		12/25/2019
CHK-4339-6	Humidifier Installation not complete	VENDOR SUB COMPLETE		UAHU304 - Air Handling Unit - Packaging near K-4 - 54T 20k cfm		12/25/2019
CHK-4344-4	Humidifier Installation not complete	VENDOR SUB COMPLETE		UAHU309 - Air Handling Unit - Packaging near G-11 - 54T 20k cfm		12/25/2019
CHK-4344-3	Fan VFDs do not shut down with a smoke alarm when placed in hand . Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU309 - Air Handling Unit - Packaging near G-11 - 54T 20k cfm		12/25/2019
CHK-4343-4	Fan VFDs do not shut down with a	VENDOR SUB		UAHU308 -		12/25/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
	smoke alarm when placed in hand . Clarify what is proper response?	COMPLETE		Air Handling Unit - Packaging near K-9 - 54T 20k cfm		
CHK-4342-5	Supply Static Pressure reads -0.35 inwc with supply fan VFD at 100%	VENDOR SUB COMPLETE		UAHU307 - Air Handling Unit - Packaging near G-9 - 54T 20k cfm		12/25/2019
CHK-4342-4	Fan VFDs do not shut down with a smoke alarm when placed in hand . Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU307 - Air Handling Unit - Packaging near G-9 - 54T 20k cfm		12/25/2019
CHK-4342-3	OA AFMS is not calibrated	VENDOR SUB COMPLETE		UAHU307 - Air Handling Unit - Packaging near G-9 - 54T 20k cfm		12/25/2019
CHK-4341-5	Supply Static Pressure reads -0.60 inwc with supply fan VFD at 100%	CLOSED AND VERIFIED BY		UAHU306 - Air Handling Unit - Packaging near K-7 - 54T 20k cfm		12/25/2019
CHK-4341-4	Fan VFDs do not shut down with a smoke alarm when placed in hand .. Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU306 - Air Handling Unit - Packaging near K-7 - 54T 20k cfm		12/25/2019
CHK-4341-3	RA AFMS is not installed	FOR REVIEW		UAHU306 - Air Handling Unit - Packaging near K-7 - 54T 20k cfm		12/25/2019
CHK-4341-2	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU306 - Air Handling Unit - Packaging near K-7 - 54T 20k cfm		12/25/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
CHK-4340-6	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU305 - Air Handling Unit - Packaging near G-7 - 54T 20k cfm		12/25/2019
CHK-4340-5	Fan VFDs do not shut down with a smoke alarm when placed in hand .Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU305 - Air Handling Unit - Packaging near G-7 - 54T 20k cfm		12/25/2019
CHK-4340-4	Humidifier install is incomplete	VENDOR SUB COMPLETE		UAHU305 - Air Handling Unit - Packaging near G-7 - 54T 20k cfm		12/25/2019
CHK-4340-3	Factory RA AFMS is not installed	VENDOR SUB COMPLETE		UAHU305 - Air Handling Unit - Packaging near G-7 - 54T 20k cfm		12/25/2019
CHK-4339-5	Supply Static Pressure reads -0.50 inwc with supply fan VFD at 100%	CLOSED AND VERIFIED BY		UAHU304 - Air Handling Unit - Packaging near K-4 - 54T 20k cfm		12/25/2019
CHK-4339-4	Fan VFDs do not shut down with a smoke alarm when placed in hand . Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU304 - Air Handling Unit - Packaging near K-4 - 54T 20k cfm		12/25/2019
CHK-4338-4	Humidifier install is not complete	VENDOR SUB COMPLETE		UAHU303 - Air Handling Unit - Packaging near G-4 - 54T 20k cfm		12/25/2019
CHK-4338-3	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU303 - Air Handling Unit - Packaging near G-4 -		12/25/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				54T 20k cfm		
CHK-4338-2	Fan VFDs do not shut down with a smoke alarm when placed in hand. Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU303 - Air Handling Unit - Packaging near G-4 - 54T 20k cfm		12/25/2019
CHK-4336-5	RA AFMS is not installed	VENDOR SUB COMPLETE		UAHU301 - Air Handling Unit - Packaging near G-2 - 54T 20k cfm		12/25/2019
CHK-4337-6	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU302 - Air Handling Unit - Packaging near K-2 - 54T 20k cfm		12/25/2019
CHK-4337-5	SA Humidity sensor reads -25.	VENDOR SUB COMPLETE		UAHU302 - Air Handling Unit - Packaging near K-2 - 54T 20k cfm		12/25/2019
CHK-4337-4	Fan VFDs do not shut down with a smoke alarm when placed in hand .. Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU302 - Air Handling Unit - Packaging near K-2 - 54T 20k cfm		12/25/2019
CHK-4336-4	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU301 - Air Handling Unit - Packaging near G-2 - 54T 20k cfm		12/25/2019
CHK-4334-5	Fan VFDs do not shut down when in hand with a smoke alarm.. Clarify proper response	VENDOR SUB COMPLETE		UAHU203 - Air Handling Unit - Raw Matl Whse central - 37T 15250 cfm		12/25/2019
CHK-4335-2	Relief AFMS not installed	CLOSED AND VERIFIED BY		UAHU204 - Air Handling Unit - Raw		12/25/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				Matl Whse east - 37T 15250 cfm		
CHK-4333-4	AHU has no supply temperature increase with HW valve at 100% open	VENDOR SUB COMPLETE		UAHU202 - Air Handling Unit - Raw Matl Whse west - 37T 15250 cfm		12/25/2019
CHK-4333-3	OA AFMS is not calibrated	VENDOR SUB COMPLETE		UAHU202 - Air Handling Unit - Raw Matl Whse west - 37T 15250 cfm		12/25/2019
CHK-4331-3	filter dp sensor reads 0 or negative value	CLOSED AND VERIFIED BY		UAHU101 - Air Handling Unit - Main Office - 100T 24k cfm		12/25/2019
CHK-4341-1	There is no temperature gauges installed on the supply/return chilled pipes located within the unit's doghouse.	VENDOR SUB COMPLETE		UAHU306 - Air Handling Unit - Packaging near K-7 - 54T 20k cfm		12/23/2019
CHK-4340-2	There is no temperature gauge installed on the supply chilled water pipe located within the unit's doghouse.	FOR REVIEW		UAHU305 - Air Handling Unit - Packaging near G-7 - 54T 20k cfm		12/23/2019
CHK-4339-3	There is no temperature gauges installed on the supply/return chilled and hot water pipes located within the unit's doghouse.	VENDOR SUB COMPLETE		UAHU304 - Air Handling Unit - Packaging near K-4 - 54T 20k cfm		12/23/2019
CHK-5233-1	current transducer shows fan off with unit running. CT needs adjustment	VENDOR SUB COMPLETE		UEF302 - Chiller Room Exhaust Fan		12/20/2019
CHK-5234-1	current transducer shows fan off with unit running. CT needs adjustment	VENDOR SUB COMPLETE		UEF303 - Chiller Room Refrigerant Exhaust Fan		12/20/2019
CHK-5235-1	current transducer shows fan off	FOR REVIEW		UEF311 -		12/20/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
	with unit running. CT needs adjustment			Boiler Room Exhaust Fan		
CHK-5232-1	Fan status CT not installed	VENDOR SUB COMPLETE		UEF301 - Chiller Room Exhaust Fan		12/20/2019
CHK-5303-1	What is the condenser water pump speed control sequence? Pumps currently operate at fixed speed	CLOSED AND VERIFIED BY		UCWP001 - Condenser Water Pump 1		12/20/2019
CHK-5286-1	Boiler 2 has delayed interlock which holds unit off. Requires reset at boiler panel and the BAS.	VENDOR SUB COMPLETE		UBLR002 - Boiler 2		12/20/2019
CHK-4344-2	SA AFMS is not calibrated	VENDOR SUB COMPLETE		UAHU309 - Air Handling Unit - Packaging near G-11 - 54T 20k cfm		12/20/2019
CHK-4343-2	RA AFMS is not installed	CLOSED AND VERIFIED BY		UAHU308 - Air Handling Unit - Packaging near K-9 - 54T 20k cfm		12/20/2019
CHK-4343-3	OA AFMS is not calibrated	VENDOR SUB COMPLETE		UAHU308 - Air Handling Unit - Packaging near K-9 - 54T 20k cfm		12/20/2019
CHK-4343-1	Supply static pressure sensor reads -0.25	CLOSED AND VERIFIED BY		UAHU308 - Air Handling Unit - Packaging near K-9 - 54T 20k cfm		12/20/2019
CHK-4337-3	Return Fan does not run	CLOSED AND VERIFIED BY		UAHU302 - Air Handling Unit - Packaging near K-2 - 54T 20k cfm		12/20/2019
CHK-4339-1	Return AFMS not installed	FOR REVIEW		UAHU304 - Air Handling Unit - Packaging		12/20/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				near K-4 - 54T 20k cfm		
CHK-4339-2	OA AFMS is not calibrated	FOR REVIEW		UAHU304 - Air Handling Unit - Packaging near K-4 - 54T 20k cfm		12/20/2019
CHK-4337-2	RA AFMS is not installed	CLOSED AND VERIFIED BY		UAHU302 - Air Handling Unit - Packaging near K-2 - 54T 20k cfm		12/20/2019
CHK-5306-2	Pump displays status failure at the BAS. Possible cause is the setting on the pump status current transducer	VENDOR SUB COMPLETE		UHWP001 - HHW Secondary Loop Pump 1		12/20/2019
CHK-5306-3	Pump display status failure. Possible cause is the setting on the pump status current transducer	VENDOR SUB COMPLETE		UHWP001 - HHW Secondary Loop Pump 1		12/20/2019
CHK-5306-4	Pump display status failure. Possible cause is the setting on the pump status current transducer	VENDOR SUB COMPLETE		UHWP001 - HHW Secondary Loop Pump 1		12/20/2019
CHK-5285-4	Calculated HW Supply setpoint should be added to the graphic for user reference	VENDOR SUB COMPLETE		UBLR001 - Boiler 1		12/20/2019
CHK-5306-1	Value jumps around eratically. Was not an issue during initial test.	VENDOR SUB COMPLETE		UHWP001 - HHW Secondary Loop Pump 1		12/20/2019
CHK-5288-2	Chiller plant sequence was not commissioned under full system operation. Additional review during post occupancy visit	FOR REVIEW		UCH001		12/19/2019
CHK-5288-3	Chilled water system graphics are not complete. Information needs to be verified on the page	VENDOR SUB COMPLETE		UCH001		12/19/2019
CHK-5297-1	Pump integration is complete but graphic is not in place.	VENDOR SUB COMPLETE		UCHP004 - CHW Secondary Loop Pump 1		12/19/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
CHK-5441-1	OA AFMS not installed	FOR REVIEW		URTU302 - Packaged RTU 13T 6000 cfm no heat Elec Room single zone VAV		12/19/2019
CHK-5440-2	AFMS is not installed	FOR REVIEW		URTU301 - Packaged RTU 13T 6000 cfm no heat Elec Room single zone VAV		12/19/2019
CHK-5441-2	The unit runs in cooling mode continuously. Does not respond to thermostat input or BAS setpoint.	VENDOR SUB COMPLETE		URTU302 - Packaged RTU 13T 6000 cfm no heat Elec Room single zone VAV		12/19/2019
CHK-5288-1	Refrigerant monitor system non installed	VENDOR SUB COMPLETE		UCH001		12/19/2019
CHK-5439-1	Thermostat display doesn't match measurement	FOR REVIEW		URTU201 - Packaged RTU 3T 1000 cfm gas heat Bean Receiving single zone CAV		12/19/2019
CHK-5440-1	The BAS zone temp doesn't reflect the thermostat or the measurement.	VENDOR SUB COMPLETE		URTU301 - Packaged RTU 13T 6000 cfm no heat Elec Room single zone VAV		12/19/2019
CHK-5443-2	The BAS zone temp doesn't reflect the thermostat and the measurement.	VENDOR SUB COMPLETE		URTU402 - Packaged RTU 3T 1600 cfm gas heat DC North Office single zone VAV		12/19/2019
CHK-5442-4	Supply air temperature increases until the zone temperature reach	FOR REVIEW		URTU401 - Packaged		12/19/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
	75 F.			RTU 4T 1900 cfm gas heat DC Shipping Office single zone VAV		
CHK-5442-3	The BAS zone temp doesn't reflect the thermostat and the measurement.	FOR REVIEW		URTU401 - Packaged RTU 4T 1900 cfm gas heat DC Shipping Office single zone VAV		12/19/2019
CHK-5443-1	Supply AFMS is not installed	FOR REVIEW		URTU402 - Packaged RTU 3T 1600 cfm gas heat DC North Office single zone VAV		12/19/2019
CHK-5285-3	Boiler manager is not used to control boiler systems. This also prevents software integration of boiler points.	VENDOR SUB COMPLETE		UBLR001 - Boiler 1		12/19/2019
CHK-5249-1	Unit has a noticeable vibration when running. Unit was shut down after Cx testing	FOR REVIEW		UMAU207 - Make Up Air Unit 15,000 cfm, 80/20% recirc DeGas		12/19/2019
CHK-5249-2	Supply AFMS is not calibrated	FOR REVIEW		UMAU207 - Make Up Air Unit 15,000 cfm, 80/20% recirc DeGas		12/19/2019
CHK-5252-1	Filters are sucked in.	VENDOR SUB COMPLETE		UMAU210 - Make Up Air Unit 15,000 cfm, 100% OA, VAV Roasting		12/19/2019
CHK-5252-2	Unable to test due to power issue at unit	VENDOR SUB COMPLETE		UMAU210 - Make Up Air Unit 15,000 cfm, 100% OA, VAV Roasting		12/19/2019
CHK-5251-1	Unable to test the unit due to	VENDOR SUB		UMAU209 -		12/19/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
	power issue	COMPLETE		Make Up Air Unit 15,000 cfm, 100% OA, VAV Roasting		
CHK-5248-1	Unable to test due to power issue	VENDOR SUB COMPLETE		UMAU206 - Make Up Air Unit 15,000 cfm, 80/20% recirc Roasting		12/19/2019
CHK-5444-1	OA AFMS not installed	FOR REVIEW		URTU202 - Packaged RTU 5T 1600 cfm gas heat Raw Matl Receiving Office multi- zone VAV		12/19/2019
CHK-5444-2	Value not on graphic	VENDOR SUB COMPLETE		URTU202 - Packaged RTU 5T 1600 cfm gas heat Raw Matl Receiving Office multi- zone VAV		12/19/2019
CHK-5445-1	Noise from motor when unit runs	FOR REVIEW		URTU203 - Packaged RTU 3.8T 1400 cfm gas heat CP Control Room multi-zone VAV		12/19/2019
CHK-5445-2	OA AFMS is not installed	FOR REVIEW		URTU203 - Packaged RTU 3.8T 1400 cfm gas heat CP Control Room multi-zone VAV		12/19/2019
CHK-5445-3	Value is not graphic	VENDOR SUB COMPLETE		URTU203 - Packaged RTU 3.8T 1400 cfm gas heat CP		12/19/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				Control Room multi-zone VAV		
CHK-5445-4	Value is not on graphics	VENDOR SUB COMPLETE		URTU203 - Packaged RTU 3.8T 1400 cfm gas heat CP Control Room multi-zone VAV		12/19/2019
CHK-5445-5	Sensor is loose from mounting	FOR REVIEW		URTU203 - Packaged RTU 3.8T 1400 cfm gas heat CP Control Room multi-zone VAV		12/19/2019
CHK-5442-1	Factory supply sensor not installed	VENDOR SUB COMPLETE		URTU401 - Packaged RTU 4T 1900 cfm gas heat DC Shipping Office single zone VAV		12/19/2019
CHK-5442-2	Supply AFMS is not installed	FOR REVIEW		URTU401 - Packaged RTU 4T 1900 cfm gas heat DC Shipping Office single zone VAV		12/19/2019
CHK-5246-1	Supply AFMS is not calibrated	FOR REVIEW		UMAU204 - Make Up Air Unit 10,000 cfm, 80/20% recirc Partner Coffee		12/18/2019
CHK-5255-1	filter status Transducer is not installed	FOR REVIEW		UMAU302 - Make Up Air Unit 15,000 cfm, 80/20% recirc Boiler room		12/18/2019
CHK-5245-1	Supply AFMS NEEDS CALIBRATION	FOR REVIEW		UMAU203 - Make Up Air		12/18/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				Unit 12,000 cfm, 80/20% recirc Green Bean Storage		
CHK-5287-2	Hard wired lockout prevents boiler from starting. UBCP003 operating at 60 Hz. Occurred multiple times during day of testing	VENDOR SUB COMPLETE		UBLR003 - Boiler 3		12/19/2019
CHK-5256-3	Unit is not heating with command from BAS. Possible issue with local safeties	FOR REVIEW		UMAU303 - Make Up Air Unit 40,000 cfm, 100% OA, VAV		12/19/2019
CHK-5315-2	Return air grille isn't sealed appropriately	FOR REVIEW		UPIU107 - Powered Induction Unit		12/19/2019
CHK-5477-5	Conference room 1203 and 1226 do not have mid-level control (the original design was on/off/ mid-level)	FOR REVIEW		U-Lighting		12/19/2019
CHK-5477-6	HR storage 1220 light cannot be turned off by the switch.	FOR REVIEW		U-Lighting		12/19/2019
CHK-5477-3	Light switch at First Aid 1118 doesn't function.	FOR REVIEW		U-Lighting		12/19/2019
CHK-5477-4	The light control located in restroom 1103 (by lobby west) does not work	FOR REVIEW		U-Lighting		12/19/2019
CHK-5477-2	Two light fixtures are down at Workstation 1134	FOR REVIEW		U-Lighting		12/19/2019
CHK-5477-1	The light near the column K-2 (the wall between office and packaging) is broken.	FOR REVIEW		U-Lighting		12/19/2019
CHK-5311-2	T-stat is covered by the refrigerator	IN PROGRESS		UPIU103 - Powered Induction Unit		12/18/2019
CHK-5253-1	AFMS needs calibration	VENDOR SUB COMPLETE		UMAU211 - Make Up Air Unit 15,000 cfm, 100% OA, VAV Grinding		12/18/2019
CHK-5250-1	Supply air AFMS is not calibrated	FOR REVIEW		UMAU208 - Make Up Air		12/18/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				Unit 15,000 cfm, 80/20% recirc Grinding		
CHK-5257-2	Power supply wires have come loose from wire tie mounts	FOR REVIEW		UMAU304 - Make Up Air Unit 40,000 cfm, 100% OA, VAV		12/18/2019
CHK-5247-1	Filter is sucked in	VENDOR SUB COMPLETE		UMAU205 - Make Up Air Unit 25,000 cfm, 80/20% recirc Trash/ Recycle		12/18/2019
CHK-5287-1	UBCP003 drive display has failed	FOR REVIEW		UBLR003 - Boiler 3		12/18/2019
CHK-5256-2	Damper endswitch status does not alarm	FOR REVIEW		UMAU303 - Make Up Air Unit 40,000 cfm, 100% OA, VAV		12/18/2019
CHK-5316-2	Effective heat/cool setpoints are incorrect	FOR REVIEW		UPIU108 - Powered Induction Unit		12/18/2019
CHK-5313-2	Not stable. Off during occupied mode.	VENDOR SUB COMPLETE		UPIU105 - Powered Induction Unit		12/18/2019
CHK-5318-2	The valve is on, but the temperature is not increased . Effective heat/cool setpoints are incorrect.	CLOSED AND VERIFIED BY		UPIU110 - Powered Induction Unit		12/18/2019
CHK-5285-2	Boiler is producing 125 deg, building supply reads 105 with primary pumps at 60Hz. Building Supply temp is lower than expected value.	VENDOR SUB COMPLETE		UBLR001 - Boiler 1		12/18/2019
CHK-5256-1	BAS graphic is incomplete. Data is not present	CLOSED AND VERIFIED BY		UMAU303 - Make Up Air Unit 40,000 cfm, 100% OA, VAV		12/18/2019
CHK-5257-1	BAS graphic is incomplete. Data is not present	VENDOR SUB COMPLETE		UMAU304 - Make Up Air Unit 40,000		12/18/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				cfm, 100% OA, VAV		
CHK-5258-1	BAS graphic is incomplete. Data is not present	VENDOR SUB COMPLETE		UMAU305 - Make Up Air Unit 40,000 cfm, 100% OA, VAV		12/18/2019
CHK-5308-1	Issue with pump coupling or coupling cover is loose. Excessive noise and vibration from the coupling.	VENDOR SUB COMPLETE		UHWP002 - HHW Secondary Loop Pump 2		12/18/2019
CHK-5285-1	Unit has failed flow switch.	FOR REVIEW		UBLR001 - Boiler 1		12/18/2019
CHK-5259-1	Filter is sucked into damper	VENDOR SUB COMPLETE		UMAU401 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-5260-2	Filter is sucked into damper	VENDOR SUB COMPLETE		UMAU402 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-5260-3	OA AFMS is configuration is not complete	FOR REVIEW		UMAU402 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-5260-1	Building pressure sensor is not installed	CLOSED AND VERIFIED BY		UMAU402 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-5261-2	OA AFMS needs config parameters set.	FOR REVIEW		UMAU403 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-5261-3	Unit has one filter sucked in	VENDOR SUB COMPLETE		UMAU403 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-5261-1	Building pressure sensor not installed	CLOSED AND VERIFIED BY		UMAU403 - Make Up Air		12/17/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				Unit 12,000 cfm, 100% OA, CAV		
CHK-5262-3	OA AFMS configuration is not complete.	FOR REVIEW		UMAU404 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-5262-2	Filters are sucked in	VENDOR SUB COMPLETE		UMAU404 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-5239-1	Disconnect labeled URTU402	FOR REVIEW		UEF404 - Finished Goods Whse Exhaust Fan		12/17/2019
CHK-5262-1	Building static pressure sensor not installed	FOR REVIEW		UMAU404 - Make Up Air Unit 12,000 cfm, 100% OA, CAV		12/17/2019
CHK-4331-2	Dog house door latch needs adjustment. Unit does not compress the seal when closed	FOR REVIEW		UAHU101 - Air Handling Unit - Main Office - 100T 24k cfm		12/17/2019
CHK-4331-1	OA AFMS not calibrated	FOR REVIEW		UAHU101 - Air Handling Unit - Main Office - 100T 24k cfm		12/17/2019
CHK-4332-3	Water in the control panel. Possible damage to controller	FOR REVIEW		UAHU201 - Air Handling Unit - Maintenance -24T 7000 cfm		12/17/2019
CHK-4332-4	Latch and door handle are loose for relief fan compartment door	FOR REVIEW		UAHU201 - Air Handling Unit - Maintenance -24T 7000 cfm		12/17/2019
CHK-4332-1	building static pressure sensor Install is not complete	FOR REVIEW		UAHU201 - Air Handling		12/17/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				Unit - Maintenance -24T 7000 cfm		
CHK-4332-2	Supply static pressure install is not complete	FOR REVIEW		UAHU201 - Air Handling Unit - Maintenance -24T 7000 cfm		12/17/2019
CHK-4333-1	building static pressure sensor Install is incomplete	FOR REVIEW		UAHU202 - Air Handling Unit - Raw Matl Whse west - 37T 15250 cfm		12/17/2019
CHK-5330-1	Thermostat is not provided	FOR REVIEW		UPIU212 - Powered Induction Unit		12/17/2019
CHK-5335-1	Under construction, thermostat is not provided.	FOR REVIEW		UPIU217 - Powered Induction Unit		12/17/2019
CHK-5336-1	Under construction, thermostat is not provided.	FOR REVIEW		UPIU218 - Powered Induction Unit		12/17/2019
CHK-5337-1	Under construction, thermostat is not provided.	FOR REVIEW		UPIU219 - Powered Induction Unit		12/17/2019
CHK-5329-1	Thermostat is not provided(solved)	VENDOR SUB COMPLETE		UPIU211 - Powered Induction Unit		12/17/2019
CHK-5332-1	Thermostat is not provided (solved)	VENDOR SUB COMPLETE		UPIU214 - Powered Induction Unit		12/17/2019
CHK-5331-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU213 - Powered Induction Unit		12/17/2019
CHK-4334-1	Building Static pressure tubing install not complete	VENDOR SUB COMPLETE		UAHU203 - Air Handling Unit - Raw Matl Whse central - 37T 15250 cfm		12/17/2019
CHK-4334-2	Supply static pressure tubing	VENDOR SUB		UAHU203 -		12/17/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
	install not complete	COMPLETE		Air Handling Unit - Raw Matl Whse central - 37T 15250 cfm		
CHK-4334-3	OA AFMS Calibration is not complete	VENDOR SUB COMPLETE		UAHU203 - Air Handling Unit - Raw Matl Whse central - 37T 15250 cfm		12/17/2019
CHK-4334-4	Relief AFMS not installed	VENDOR SUB COMPLETE		UAHU203 - Air Handling Unit - Raw Matl Whse central - 37T 15250 cfm		12/17/2019
CHK-5334-1	Thermostat is not installed (solved)	VENDOR SUB COMPLETE		UPIU216 - Powered Induction Unit		12/17/2019
CHK-5333-2	The diffuser produces very loud noise.	FOR REVIEW		UPIU215 - Powered Induction Unit		12/17/2019
CHK-5333-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU215 - Powered Induction Unit		12/17/2019
CHK-5328-1	Thermostat is not stalled yet (solved)	VENDOR SUB COMPLETE		UPIU210 - Powered Induction Unit		12/17/2019
CHK-5327-1	T stat for PIU209 is covered by furnitures.	IN PROGRESS		UPIU209 - Powered Induction Unit		12/17/2019
CHK-5325-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU207 - Powered Induction Unit		12/17/2019
CHK-5326-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU208 - Powered Induction Unit		12/17/2019
CHK-5324-1	Fan is off (solved)	VENDOR SUB COMPLETE		UPIU206 - Powered Induction Unit		12/17/2019
CHK-5324-2	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU206 - Powered Induction Unit		12/17/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
CHK-4335-1	OA AFMS Not calibrated	VENDOR SUB COMPLETE		UAHU204 - Air Handling Unit - Raw Matl Whse east - 37T 15250 cfm		12/17/2019
CHK-5323-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU205 - Powered Induction Unit		12/17/2019
CHK-5321-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU203 - Powered Induction Unit		12/17/2019
CHK-5322-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU204 - Powered Induction Unit		12/17/2019
CHK-4346-3	Unit not calibrated	VENDOR SUB COMPLETE		UAHU311 - Air Handling Unit - Packaging near G-13 - 54T 20k cfm		12/17/2019
CHK-5319-3	No increase to the supply temperature when the valve is 100% on	VENDOR SUB COMPLETE		UPIU201 - Powered Induction Unit		12/17/2019
CHK-5319-2	Fan is off	VENDOR SUB COMPLETE		UPIU201 - Powered Induction Unit		12/17/2019
CHK-5320-1	Cannot override	FOR REVIEW		UPIU202 - Powered Induction Unit		12/17/2019
CHK-5320-2	Cannot turn on/ override	VENDOR SUB COMPLETE		UPIU202 - Powered Induction Unit		12/17/2019
CHK-5319-1	Fan is not on, damper open delayed	VENDOR SUB COMPLETE		UPIU201 - Powered Induction Unit		12/17/2019
CHK-4348-2	Supply static pressure reads -1.1 inwc	CLOSED AND VERIFIED BY		UAHU313 - Air Handling Unit - Packaging near G-15 - 54T 20k cfm		12/17/2019
CHK-4348-3	Outdoor pressure reference is not installed	VENDOR SUB COMPLETE		UAHU313 - Air Handling		12/17/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				Unit - Packaging near G-15 - 54T 20k cfm		
CHK-5312-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU104 - Powered Induction Unit		12/17/2019
CHK-5313-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU105 - Powered Induction Unit		12/17/2019
CHK-5314-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU106 - Powered Induction Unit		12/17/2019
CHK-5315-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU107 - Powered Induction Unit		12/17/2019
CHK-5316-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU108 - Powered Induction Unit		12/17/2019
CHK-5317-2	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU109 - Powered Induction Unit		12/17/2019
CHK-5309-3	No increase to the supply temperature when the valve is 100% on	VENDOR SUB COMPLETE		UPIU101 - Powered Induction Unit		12/17/2019
CHK-5318-1	Overriding PIU to occupied mode does not communicate with BAS (solved)	VENDOR SUB COMPLETE		UPIU110 - Powered Induction Unit		12/17/2019
CHK-4348-1	RA AFMS not installed	CLOSED AND VERIFIED BY 		UAHU313 - Air Handling Unit - Packaging near G-15 - 54T 20k cfm		12/17/2019
CHK-5311-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU103 - Powered Induction Unit		12/17/2019
CHK-5310-2	No increase to the supply temperature when the valve is 100% on	VENDOR SUB COMPLETE		UPIU102 - Powered Induction Unit		12/17/2019
CHK-5310-1	No increase to the supply temperature when the valve is 100% on (solved)	VENDOR SUB COMPLETE		UPIU102 - Powered Induction Unit		12/17/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
CHK-4337-1	Humidifier Install is not complete	VENDOR SUB COMPLETE		UAHU302 - Air Handling Unit - Packaging near K-2 - 54T 20k cfm		12/17/2019
CHK-5309-1	Override off (solved)	VENDOR SUB COMPLETE		UPIU101 - Powered Induction Unit		12/17/2019
CHK-5309-2	Override off within 10 seconds (solved)	VENDOR SUB COMPLETE		UPIU101 - Powered Induction Unit		12/17/2019
CHK-5317-1	This PIU replaces VAV110	FOR REVIEW		UPIU109 - Powered Induction Unit		12/17/2019
CHK-5267-1	VAV105 is controlled by two T-stat because of the setting of temporary wall. One is on the east wall of the training room and another is on the column. The control logic between these two T-stat is not programmed appropriately. The T-stat on the wall doesn't control the VAV, but override unoccupied mode with the T-stat on the column.	VENDOR SUB COMPLETE		UVAV105 - VAV Terminal		12/17/2019
CHK-5270-1	The VAV does not communicate with BAS (solved)	VENDOR SUB COMPLETE		UVAV108 - VAV Terminal		12/17/2019
CHK-4345-1	RA AFMS not installed	CLOSED AND VERIFIED BY		UAHU310 - Air Handling Unit - Packaging near K-11 - 54T 20k cfm		12/16/2019
CHK-4347-2	RA AFMS is not installed	CLOSED AND VERIFIED BY		UAHU312 - Air Handling Unit - Packaging near K-13 - 54T 20k cfm		12/16/2019
CHK-4347-1	Supply Fan chamber door sticks closed	FOR REVIEW		UAHU312 - Air Handling Unit - Packaging near K-13 - 54T 20k cfm		12/16/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
CHK-4346-2	AFMS not installed in unit	CLOSED AND VERIFIED BY		UAHU311 - Air Handling Unit - Packaging near G-13 - 54T 20k cfm		12/16/2019
CHK-4346-1	Sensor displays reading of -25% on the BAS	CLOSED AND VERIFIED BY		UAHU311 - Air Handling Unit - Packaging near G-13 - 54T 20k cfm		12/16/2019
CHK-4344-1	RA AFMS not installed	VENDOR SUB COMPLETE		UAHU309 - Air Handling Unit - Packaging near G-11 - 54T 20k cfm		12/16/2019
CHK-4340-1	Supply humidity Sensor reading 0%	VENDOR SUB COMPLETE		UAHU305 - Air Handling Unit - Packaging near G-7 - 54T 20k cfm		12/16/2019
CHK-4342-1	RA AFMS not installed	CLOSED AND VERIFIED BY		UAHU307 - Air Handling Unit - Packaging near G-9 - 54T 20k cfm		12/16/2019
CHK-4342-2	Humidifier Installation not complete	VENDOR SUB COMPLETE		UAHU307 - Air Handling Unit - Packaging near G-9 - 54T 20k cfm		12/16/2019
CHK-4338-1	RA AFMS is not installed	VENDOR SUB COMPLETE		UAHU303 - Air Handling Unit - Packaging near G-4 - 54T 20k cfm		12/16/2019
CHK-4336-1	Supply humidity sensor installation is not complete	VENDOR SUB COMPLETE		UAHU301 - Air Handling Unit - Packaging near G-2 -		12/16/2019

Number	Description	Status	Priority	Asset	Assigned	Due Date
				54T 20k cfm		
CHK-4336-2	Fan VFDs do not shut down with a smoke alarm when placed in hand .. Clarify what is proper response?	VENDOR SUB COMPLETE		UAHU301 - Air Handling Unit - Packaging near G-2 - 54T 20k cfm		12/16/2019
CHK-4336-3	Humidifier install is incomplete	VENDOR SUB COMPLETE		UAHU301 - Air Handling Unit - Packaging near G-2 - 54T 20k cfm		12/16/2019