



DEPARTMENT OF FACILITIES MANAGEMENT

OPEN CALL FOR BIDS #TFM-009-25

CENTRIFUGAL/CENTRAVAC CHILLER MAINTENANCE/SERVICE AGREEMENT

ADDENDUM 2

Date: May 8, 2025

Updated Appendix D – Equipment List.

Please see below updated Appendix D – Equipment List. The following items have been updated and highlighted.

- Item 4. Tag A-CHL-01
- Item 29 Tag AR-CHL-1
- Item 30 Tag AR-CHL-02
- Item 31 Tag AR-FC-01

APPENDIX D – EQUIPMENT LIST

UNIT	TAG	LOCATION	ITEM	MAKE & SERIAL NUMBER		REFRIGERANT NUMBER	TONS
1	UA-CHL-01	UA-1002	Centrifugal Chiller	Make	Carrier	R-134A	1592
				Model	19XR-8787505EQH65S		
				Serial	3706Q73004		
2	UA-CHL-02	UA-1002	Centrifugal Chiller	Make	Carrier	R-134A	1600
				Model	19XR-858559DEPH658		
				Serial	2210Q19854		
3	UA-CHL-03	UA-1002	Centrifugal Chiller	Make	Carrier	R-134A	1528
				Model	19XR-8787505EPS65		
				Serial	2199J59589		
4	A-CHL-01	A-5002	Chiller	Make	Trane	R-22	
				Model	RTUD110F2L02A1D1AA2A1X0Y-1B0A40000A000B20 3		
				Serial	U20M08248		
5	A-CON-01	A-ROOF	Condensing Unit for (and leak checked with) A-CHL-01	Make	Trane	R-22	
				Model	LAVC-24412MA		
				Serial	MY20N095868		
6	CSF-CHL-01	Chiller – CWS/CHW7	Chiller	Make	Trane		
				Model	CVHF0770		
				Serial	L18A00510		
7	CSF-CHL-02	Chiller – CWS/CHW7	Chiller	Make	Trane		
				Model	CVHF0770		
				Serial	L18A00506		
8	CSF-CHL-03	Chiller – CWS/CHW7	Chiller	Make	Trane		
				Model	CVHF0770		
				Serial	L18A00505		
9	CSF-CHL-04	Chiller - HWR43/ECHWS	Chiller	Make	Trane		
				Model	RTWD130HE		
				Serial	259406/259407		
10	BT-CON--01	BT- ROOF	Air conditioner, Roof top	Make:	Trane	R-410A	30
				Model:	CGAM030G2		
				Serial:	2AXD2A1A1A1		
11	EN-CHL-01	EN- 1036C	Chiller	Make:	Trane	R-134A	358
				Model:	RTHD		
				Serial:	U03K02376		
12	IIC-CHL-01	IIC- 3ROOF	Chiller	Make:	Trane	R-134A	300
				Model:	RTAC		
				Serial:	U04J07744		
13	L-CHL-01	L-6000	Centrifugal Chiller	Make:	McQuay	R-134A	180
				Model:	WMC035TTT-ER10		
				Serial:	STNU070500090		
14	L-CHL-02	L-6004	Centrifugal Chiller	Make:	McQuay	R-134A	180
				Model:	WMC035777-ER10		
				Serial:	STNU070500124		
15	HH-AC-01	HH- 2014	Air	Make:	Liebert	R-22	15
				Model:	FD125A		

16	HH-AC-02	HH- 2014	Air Conditioner (and remote condenser HH-ON- 02)	Make:	Liebert	R-22	20
				Model:	DH245A-AAE1		
				Serial:	831008-001		
17	HH-CON-02	HH- ROOF	Condensing Unit for (and leak checked with) HH-AC-02	Make:	Liebert	R-22	
				Model:	DCDL308-A		
				Serial:	0603C83669		
18	HH-CON-04	HH- ROOF	Compressors here, cooling coil is in HH- HV-01 plus other elements	Make:	McQuay	R-22	26
				Model:	ALP027CG		
				Serial:	5WE 0500600		
19	HH-AC-07	HH- 2014	Air Conditioner (and Remote condenser HH- CON- 07)	Make:	Liebert	R-22	30
				Model:	DS105AMAOE1497A		
				Serial:	CO7J8E0151		
20	HH-CON-07	HH- ROOF	Condensing Unit for (and leak checked with) HH-AC-07	Make:	Liebert	R-22	
				Model:	DCDL415-A		
				Serial:	0740C04242		
21	HH-AC-08	HH- 2014	Air conditioner (and remote condenser HH-CON-08)	Make:	Liebert	R-22	30
				Model:	DS105AMA0E1497A		
				Serial:	C07J8E0152		
22	HH-CON-08	HH- ROOF	Condensing Unit for (and leak checked with) HH-AC-08	Make:	Liebert	R-22	
				Model:	DCDL415-A		
				Serial:	0740C04205		
23	EN-AC-18	EN- 4024A	Air conditioner (and remote condenser EN- CON- 18)	Make:	Liebert	R-22	10
				Model:	VH125AUBAE16174		
				Serial:	896174-001		
24	EN-CON-18	EN- ROOF	Condensing Unit for (and leak checked with) EN- AC-18	Make:	Liebert	R-22	
				Model:	DCDL165-B		
				Serial:	0633C89402		
25	EN-AC-19	EN- 4024A	Air Conditioner (and remote condenser EN- CON-19)	Make:	Liebert	R-22	10
				Model:	VH125AUBAE16174		
				Serial:	896174-002		
26	EN-CON-19	EN- ROOF	Condensing Unit for (and leak checked with) EN-AC-19	Make:	Liebert	R-22	
				Model:	DCDL165-B		
				Serial:	0633C89340		
27	DH-CHL-01	DH- ROOF	Chiller	Make:	McQuay	R-22	60
				Model:	AGZ060BH12-ER11		
				Serial:	STNU040600191		
28	MU-AC-01	MU- ROOF	Air Conditioner	Make:	Carrier	R-22	20
				Model:	38AK024100		
				Serial:	3390F30827		
29	AR-CHL-01	BASEMENT	TurboCor Chiller	Make:	Daikin	R- 134A	110
				Model:	TMC036DDSNA		
				Serial:	STNU180900200		
30	AR-CHL-02	BASEMENT	TurboCor Chiller	Make:	Daikin	R- 134A	120
				Model:	TMC036DDSNA		
				Serial:	STNU180900191		

31	AR-FC-01	AR-ROOF	Fluid Cooler	Make: Model:	Ref Plus		
					FVD-264F-8-SP		
					D-2018110065		
32	AR-FC-02	AR-ROOF	Fluid Cooler	Make:	Ref Plus		32
				Model:	FVD-264F-8-SP		
				Serial	D2018110065		



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ADDENDUM 1

Date: April 30, 2025

Change in Closing/Opening Date:

The closing date has been extended to May 15, 2025 @ 10:00am NDT. The opening date is now May 15, 2025 @ 10:30am NDT.

Change in Webex Access Code:

The Webex Access code has been changed to the following: **2773 715 3077**

Questions and Answers:

1. The refrigeration detection system(s) are not included in Appendix D. Please provide the make and model and location of the refrigeration detection systems.
 - a. Our Honeywell Contractor is responsible for the majority of the refrigeration detection systems located throughout campus. They have a list of the systems that are currently on their radar, and the ones that are not currently on their radar are in the process of being added to their list. The Chiller Contract holder will not be responsible for the repair or replacement of the refrigeration detection systems.

2. During the site walk there were two Daikin chillers observed, however there is only one listed in Appendix D. Please confirm if the additional chiller is to be included under this contract.
 - a. Yes, there is a mistake on the Contract where the Daikens are listed. There is an error with unit #4, A-CHL-01. This is a Trane Unit with Model #RTUD110F 2L02 A1D1 AA2A 1X0Y 1B0A 4000 0A00 0B20 3 & serial U20M08248. There is also a mistake on AR-CHL-01, unit # 29. This unit should be identical to unit #30, AR-CHL-02. AR-CHL-01 is supposed to read as follows, Make: Daiken, Serial: STNU180900200 and model # TMC036DDSNA.
3. The Minimum Personnel Qualifications (b) notes that Confined Space Entry is required. Can we get confirmation on which units have confined space requirements for access?
 - a. No reason for any Chiller onsite to have a confined space entry permit. The most it would/could be is roof access. If for some reason confined space is required, you will need to provide the personnel required all with confined space training.
4. The Minimum Personnel Qualifications (g) notes proof of training on Micro-processor-based Chillers. Are you able to provide additional details on what is acceptable?
 - a. I am not sure what this is referring to, it is most likely left over from the previous contract that could be cleaned up. The required documentation for training is covered in (D) & (E).
5. The Minimum Personnel Qualifications (h) references a “McBee” Refrigerant Labeling System. Can you provide additional information about the system or provide some pictures/examples for reference?
 - a. This could be removed. Unaware of any systems on campus you would be required to label the system. This McBee System seems to be referring to labelling the piping and equipment so as not to mix match refrigerants during maintenance. There are several different types of refrigerants used on site which are listed in the equipment list.
6. The Minimum Personnel Qualifications (i) references a “Low-Pressure Refrigerant Recovery System”. Are there specifications available for what is required?
 - a. There are 3 Chillers in the Core Science Facility that operate on a low-pressure refrigerant system. This point is referring to you having the equipment available to recover the gas out of a low-pressure system. My understanding is, a low-pressure refrigerant recovery uses natural pressure differential to remove refrigerant, High pressure recovery uses a compressor to add a pressure differential.

7. It is possible that major repairs on the large chillers, if required, will require specialized technician assistance from chiller mechanics located outside of the St. John's area. Is it the intent of this contract to be able to include the required travel costs as separate identified costs on the repair quotes or will these costs have to be covered by the provided hourly rates in Appendix C - Article 1?
 - a. The hourly rates are not supposed to reflect travel costs needed for outside assistance from other technicians with regard to repairs that are not considered regular maintenance. Assistance needed outside of regular maintenance will be discussed with MUN for approval. Upon approval they will be billed separately from the contract. If assistance is needed to complete regular manufacturer recommended maintenance, it will be expected to be covered under your quote.
8. Have prior service providers been completing the oil analysis, refrigerant analysis and vibration analysis scope? Are their annual reports provided to MUN? It adds a significant cost and on past tender cycles
 - a. There are no records to indicate that refrigerant sampling was completed, only oil analysis. There are no reports that I have available on Oil, Refrigerant, or Vibration analysis. It's up to the bidder if they want to bid on the refrigerant analysis, but vibration analysis needs to be in the bid. We will be tightening up on the reports we receive going forward. If refrigerant analysis is required to identify maintenance activities or to support what the oil analysis cannot identify, it will be covered by the contractor.

END OF ADDENDUM 1