ALBANY COUNTY JUDICIAL CENTER - CHILLERS

6 Lodge Street. Albany, NY 12207 Contact: Dave Quinn Telephone (518) 487-5361

Equipment	Maintenance Schedule/ Service Requirements	Min. Vendor Qualifications
	Cooling Season	
	Start-up – April & Shut down – October	ALL MAINTENANCE WORK ON
2 Low Pressure Centrifugal Chillers	ANNUAL COOLING EQUIPMENT START-UP PREPARATION:	THE CHILLERS MUST BE PERFORMED BY A YORK
YORK Model YTG3A3E1-CNJ	Check refrigerant and oil levels	CERTIFIED TECHICIAN
Serial Numbers:	Check oil sump and purge oil heaters and temperatures	<u>CERTIFIED TECHTCIAN</u>
SKNM540190	Check and testing all operating and safety controls	AND
SKNM540300	• Check the starter operation	
350 tons	Start the chiller and calibrating controls	10 YEARS COMMERCIAL HVAC
	Log operating conditions after system and unit stabilize	MAINTENANCE/ REPAIR
	Review operating procedures and owner's log with operator	EXPERIENCE
	Check auxiliary equipment operation	
	OPERATING SEASON INSPECTIONS:	
	Inspect chiller and adjust safety controls	
	Check purge operation	Each Contractor must submit
	Check operation of controls	York Certifications for a
	Check oil and refrigerant levels	minimum of two (2) technicians
	Check operation of lube system	employed within the company
	Check the oil return system	
	Check operation of motor and starter	
	Record operating conditions	
	 Check log and review chiller and system operation with operator 	
	Check condenser and cooler water flows	
	 Check the refrigerant cycle to verify the proper operating balance 	
	 Check condenser water and chilled water heat transfer 	
	 Log and report repairs and parts that are required 	
	THREE TIMES PER YEAR:	
	Check Chiller purge and surge counts and record and report to the County	
	if the numbers are unusually high.	
	• Check variable speed drive on the chillers for proper operation and report	
	to the County.	

RFB-2024-066 - DETAILED SPECIFICATIONS

ALBANY COUNTY JUDICIAL CENTER – CHILLERS (CONTINUED)				
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(per above)	ANNUAL COOLING EQUIPMENT SHUTDOWN INSPECTION AND PM: Check the Compressor-Motor Assembly for the following items and perform PM tasks as indicated: Record voltages Meg and record motor winding resistance Lubricate open motor Check the alignment on open drive units Check the coupling Check seals Check inlet vane operator and linkage; lubricating where required Check the Compressor Oil System for the following items: Change oil, oil filter and dryer Conduct analysis on oil and oil filter at independent laboratory Check oil pump, seal and motor Clean the dirt leg Check heater and thermostat Check all other oil system components including cooler, strainer and solenoid valve where applicable Check Motor Starter and perform the following tasks: Run diagnostic check Clean and inspect heat exchanger Check starter coolant pump and motor, meg motor Check all terminals and tighten connections Check at at infliter or starter fluid Check overloads and calibrate Check status lights Review the Control Panel for the following items: Run diagnostic check of Micro Control Panel Check all terminals and tighten connections Check display data accuracy and set points Check free system cooling operation.	(per above)		

RFB-2024-066 - DETAILED SPECIFICATIONS

ALBANY COUNTY JUDICIAL CENTER - CHILLERS (CONTINUED)				
Equipment 6 Lodge Street. Albany, NY 12207 Contact: Dave Quinn Telephone (518) 487-5361	Maintenance Schedule/ Service Requirements	Min. Vendor Qualifications		
(Continued from above)	ANNUAL EQUIPMENT SHUTDOWN INSPECTION AND PM (con't): Review the Purge Unit for the following items: Inspect the operation of the unit Change filter drier Check all other components for proper condition and operation; record pressure control set point Check the Condenser for the following items: Check flow switch operation Remove condenser head and inspect end sheets Mechanically brush clean condenser water tubes Check the Cooler for the following items: Check the Cooler for the following items: Check the System for the following items: Check the System for the following items: Conduct a leak check and identify leak sources for repairs Add refrigerant as required (refrigerant provided by owner) Record condition of sight glasses Check the refrigerant cycle to verify the proper operating balance Check condenser water and chilled water heat transfer General Items Included: Repair insulation removed for inspection and maintenance procedures Clean equipment and surrounding area upon completion of work Consult with the operator Report deficiencies and repairs required.	(per above)		

RFB-2024-066 - DETAILED SPECIFICATIONS

ALBANY COUNTY JUDICIAL CENTER – CHILLERS (CONTINUED)				
Equipment 6 Lodge Street. Albany, NY 12207 Contact: Dave Quinn Telephone (518) 487-5361	Maintenance Schedule/ Service Requirements Summer and Winter Change over	Min. Vendor Qualifications		
2 YORK Optispeed VSD Rating: 460/3/60	OPERATING SEASON INSPECTIONS: Record all power and control voltages for proper operation of drive Verify proper operation of cooling circuit (VSD only) Check condenser water loop strainer (VSD only) ANNUAL SHUTDOWN INSPECTION AND PM: Remove dust and dirt from cabinets, heat sinks and cooling fans Tighten input power electrical connections Verify proper settings of overloads and safeties Check accuracy of transducers and thermistors and calibrate where possible Record all power and control voltages for proper operation of drive Verify proper operation of cooling circuit and back flush heat exchanger (VSD only) Meg motor and record findings Change closed loop coolant fluid every two years Check condenser water loop strainer (VSD only) Check vane pot calibration and recalibrate when required	(per above)		