Refrigeration PM Checklist					
Customer:		Site:			
Date:		Work Order:			
Technician Name:		· · · · · · · · · · · · · · · · · · ·			

Please provide pictures of cleaning before and after, as well as Deficiencies

SELF CONTAINED (Reach-in Coolers/Freezers) EQUIPMENT TASKS: (If Applicable)	Frequency	Completed Value or Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM: (MUST include system and repairs needed, list current pressure temperature value in or out of range)
Vacuum each condenser	Quarterly			
Clean condenser fan. Verify motor operation.	Quarterly			
Clean condensate pan and verify operation of condensate pan heater.	Quarterly			
Clean evaporator fins, fan blade, guard	Quarterly			
Check door gaskets for damage	Quarterly			
Verify operation of anti-sweat heaters	Quarterly			
Verify tightness of all electrical connections. Inspect connections for corrosion or damage.	Quarterly			
Make sure there is enough clearance between heaters, fan motor and electrical wiring. Ensure that heaters are	Quarterly			
not touching fan motors or wiring harness during operation.	Quarterly			
The wiring harness, fan motor terminals and heater terminals are all securely zip tied and routed to avoid any				
damage, electrical short circuit or fire hazards.Inspect harness connection at motor, at heater terminal block,	Quarterly			
and at any plug connections and make sure it's connected secured				
Check the defrost and drain pan heaters and Ensure that they are operational with correct amp drawn and are	Quarterly			
held in place by the manufacturer provided brackets.	,			
Check fit and finish of all panels and trim	Quarterly			
Verify operation of hinge.	Quarterly			
Ensure that door hinge is fastened tightly to case.	Quarterly			
Verify that fan switch control fans and fans come on when door is closed.	Quarterly			
Check operating temperatures and pressures	Quarterly			
Inspect fan guards for damage. Ensure that they are in place and clean	Quarterly			
Inspect light sockets for damage.	Quarterly	-		
Inspect condition of door wiring harness.	Quarterly			
Ensure that temperature sensor is mounted in return air stream of case.	Quarterly			
Ensure that product emulator is located in the interior of the case, in the lower, back, LH	Quarterly			
Verify that case is visible in E2 panel.	Quarterly			
Note any additional refrigerated equipment that is on site and is not monitored through the	Quarterly			
E2 control panel.	Quarterly			
				Please note any Deficiencies or Values found during PM:
REMOTE - Hillphoenix/Hussmann (DT Reach-in Coolers/Freezers) EQUIPMENT TASKS: (If Applicable)	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current pressure temperature value in or out of range)
Inspect each evaporator for any sign of ice build up	Quarterly			
Inspect each evaporator fan to ensure operation	Quarterly			
Inspect fan motor and fan assembly for vibration	Quarterly			
Check the fan during defrost. Make sure the fan is not operational during defrost				
Listen to each fan motor for bearing noise	Quarterly			
Verify fan rotation	Quarterly			
Inspect each coil for any sign of damage	Quarterly			
Check all sensors including defrost termination, TXV bulb and discharge air sensor and make sure they are placed	Quarterly			
at correct location and mounted correctly Check the superheat and make sure it is as per design spec(Refer the OEM I/O manual)				
crices the superiod that make sure it is as per design specificient the outhly o mandary				
Check the discharge air flow near honey comb and make sure it's as per design spec (Refer the OEM I/O manual)				
Inspect evaporators for dirt/debris. Clean as needed.	Quarterly			
Check honeycomb for any damage and fix/replace it if needed	Quarterly			
Check the return air grill and fix/replace it if needed	Quarterly			
Remove kickplate and clean underneath the case with a broom and long handled mop. Use warm water and				
disinfecting cleaning solution while cleaning underneath the cases.				
Inspect defrost and drain pan heaters for any damage. Ensure that there is sufficient clearance between the	Quarterly			
electrical connections and the copper components of the evaporator coil. Make sure there is enough clearance between heaters, fan motor and electrical wiring. Ensure that heaters are				
not touching fan motors or wiring harness during operation.	Quarterly			
The wiring harness, fan motor terminals and heater terminals are all securely zip tied and routed to avoid any				
damage, electrical short circuit or fire hazards.Inspect harness connection at motor, at heater terminal block,	Quarterly			
and at any plug connections and make sure it's connected secured	Quarterry			
Check the defrost and drain pan heaters and Ensure that they are operational with correct amp drawn and are				
held in place by the manufacturer provided brackets.	Quarterly			
Inspect Defrost Contactors or relay and make sure it's operating properly	Quarterly			
Check defrost settings. Check the evaporator coil condition after each defrost and make sure it's clear at the end				
of defrost				
Verify tightness of all electrical connections	Quarterly			
Inspect condensate drain line to ensure that it is not damaged and no blockage due to debris before cleaning the	Quarterly			
drain pan				
Inspect the glass door and door gaskets for any damage	Quarterly			
Check fit and finish of all panels and trim	Quarterly			
Verify operation of hinge.	Quarterly			
Ensure that door hinge is fastened tightly to case.	Quarterly			
Check operating temperatures and pressures	Quarterly		1	
Inspect light sockets for damage.	Quarterly			
Inspect condition of door wiring harness.	Quarterly			
Check antisweat heater in glass door if available	0			
Ensure that temperature sensor is mounted in return air stream of case.	Quarterly			
Ensure that product emulator is located in the interior of the case, in the lower, back, LH	Quarterly			
corner.				
Verify that case is visible in E2 panel and air sensors and product emulators are reading correctly Check all control parameters	Quarterly			
Note any additional refrigerated equipment that is on site and is not monitored through the				
E2 control panel.	Quarterly			
es control paner.		1	1	L

To be performed in Q2, southern locations first starting in April

				Disease note any Definiencies or Volume found during DBS.
COMPRESSOR/RACKS/CONDENSER TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM: (MUST include system and repairs needed, list current
Com reson, mens, consense mens.	rrequency	completed value of thot Applicable	Quote Necucu	pressure temperature value in or out of range)
Leak Check All Systems and piping **(Must complete Leak inspection form)** (Please provide pictures of leaks				
found)	Quarterly			
Visually check refrigeration compressors and compressor rack for visible signs of vibration	Quarterly			
Visually check refrigeration compressors, refrigeration compressor rack, and condensing units for visible signs of	Quarterly			
oil residue	Quarterly			
Excessive Heat	Quarterly			
Look at each sight glass and verify that oil level is between 1/3 and 1/2 of glass	Quarterly			
Look at each sight glass for foam.	Quarterly			
Loose or Missing Covers: Look at all cover, cover plates, etc.	Quarterly			
Noise Level	Quarterly			
Valve Caps: Look at each valve and ensure that all valves have valve cap in place	Quarterly			
Test refrigeration system for non-condensibles Test acidity of refrigeration oil.	Quarterly Quarterly			
High/Low Pressure Switches: Verify settings and operation of switch	Quarterly			
Oil Failure Switch: Verify settings and operation of switch	Quarterly			
Check oil pressure	Quarterly			
Replace compressor contactor	Annually			
Verify tightness of all electrical connections	Quarterly			
				Please note any Deficiencies or Values found during PM:
	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current pressure temperature value in or out of range)
ADIABATIC CONDENSER/EVAPORATIVE CONDENSER TASKS:				pressure temperature value in or out of range)
Look at condenser fan to verify that it is rotating	Quarterly			
Check bearings - lubircate as neccesary.	Quarterly			
Inspect for broken, missing, or loose fan guards	Quarterly			
Loose Panels/Components: Inspect all panels and covers	Quarterly			
Valve Caps: Inspect all valves to ensure that valve caps are in place	Quarterly			
Inspect inlet side of condenser for dirt, cotton, or other debris that will impact air flow	Quarterly			
Verify that air can flow/ is flowing through condenser. Clean/Dirty?	Quarterly			
Contractor to pressure wash condenser Inspect condenser and sump for scaling, dirt, debris.	Quarterly			
Inspect condenser and sump for scaling, dirt, debris. Verify tightness of all electrical connections	Quarterly Quarterly			
Verify tightness of all electrical connections If applicable: Check belt tension. Adjust as needed. Replace every 6 months.	Quarterly			
The application and tension registed necessarily of months.	Quarterly			Please note any Deficiencies or Values found during PM:
SUBCOOLER TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
	,			pressure temperature value in or out of range)
If system is so equipped, inspect subcooler for oil residue	Quarterly			
	O. control i			
If system is so equipped with Sensors/Transducers, verify that temperature sensors are attached to piping	Quarterly			
Are subcoolers fully operational?	Quarterly			
				Please note any Deficiencies or Values found during PM:
OIL RESERVOIR/SEPARATOR TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
				pressure temperature value in or out of range)
Inspect vessle for oil residue	Quarterly			
Check PSI drop on seperator (if applicable)	Quarterly			
Look at sight glass and verify oil level	Quarterly			
FILTER DAILE TACKS		Constituted Malaca and National Problem	Our Manada d	Please note any Deficiencies or Values found during PM:
FILTER DRIER TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
				pressure temperature value in or out of range)
Measure temperature differential across liquid line drier. Quote replacement if more than 5 Degrees	Quarterly			
measure temperature unrecentur across riquia une uner. Quote reprocentent il more trains organicas				Please note any Deficiencies or Values found during PM:
WALK-IN COOLER/FREEZER BOX TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
WALK IN COOLLY MELLEN SON FASIO.	ricquency	completed value of thorzophicable	Quote Necucu	pressure temperature value in or out of range)
Inspect interior, and exterior of box for condensation issues or ice build up	Quarterly			
Inspect freezer floor along walls, and across doorways for ice build up	Quarterly			
Inspect door gasket for signs of damage, tears, or flattening	Quarterly			
Verify that door sweeps on cooler or freezer doors drag on the floor	Quarterly			
Verify operation of door closure mechanism	Quarterly	·		·
Inspect door latch and strike to ensure operation and that when closed, door is held tight to door fram	Quarterly			
Verify operation of cooler/freezer lights	Quarterly			
Inspect condition of door threshold	Quarterly			
Inspect penetrations through walls/ceilings to ensure that they are sealed	Quarterly			
Inspect each glass door for signs of condensation on exterior of door or between glass panes	Quarterly			
Inspect all doors to ensure that door gaskets seal tightly to door frame when closed. Verify sensors are functional and not damaged. (Quote replacements as needed)	Quarterly Quarterly			
verny sensors are runctional and not damaged. (Quote replacements as needed)	Quarterly		_	Please note any Deficiencies or Values found during PM:
AIR CURTAIN TASKS	Frequency	Completed Value or Not Applicable	Quote Needed	
AIR CORTAIN TANKS	requency	completed value of Not Applicable	Quote Needed	(MUST include system and repairs needed, list current pressure temperature value in or out of range)
Adjust air curtain. Make sure the nozzle is adjusted correctly so that the discharge air is reaching the intake slots	Quarterly			
Adjust air curtain. Make sure the nozzle is adjusted correctly so that the discharge air is reaching the intake slots Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the				
1 1 1	Quarterly Quarterly			
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean.	Quarterly			
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design	Quarterly Quarterly			
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean.	Quarterly			
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design Verify heater operation	Quarterly Quarterly Quarterly			Please note any Deliciencies or Values found during PM:
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design	Quarterly Quarterly	Completed Value or Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM: IMUST include system and readin needed, list current.
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design Verify heater operation WALK-IN FREZER AUTOMATIC BI PARTING DOOR TASKS:	Quarterly Quarterly Quarterly Frequency	Completed Value or Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM: [MUST include system and reaales needed, list current, pressure temperature value in or out of range]
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design Verify heater operation WALK-IN FREZER AUTOMATIC BI PARTING DOOR TASKS: Adjust door so that it closes automatically within 8 seconds of opening	Quarterly Quarterly Quarterly Frequency Quarterly	Completed Value or Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM: (MUST include system and repairs needed, list current, pressure temperature value in or out of range)
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design Verify heater operation WALK-IN FREZER AUTOMATIC BI PARTING DOOR TASKS: Adjust door so that it closes automatically within 8 seconds of opening Inspect door opening switches operating and in good condition	Quarterly Quarterly Quarterly Frequency Quarterly Quarterly Quarterly	Completed Value or Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM: [MMST include system and repairs needed, list current, pressure temperature value in or out of range)
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design Verify heater operation WALK-IN FREZER AUTOMATIC BI PARTING DOOR TASKS: Adjust door so that it closes automatically within 8 seconds of opening	Quarterly Quarterly Quarterly Frequency Quarterly	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current pressure temperature value in or out of range)
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design Verify heater operation WALK-IN FREZER AUTOMATIC BI PARTING DOOR TASKS: Adjust door so that it closes automatically within 8 seconds of opening inspect door opening switches operating and in good condition Adjust motion sensor has correct field of vision and is functioning properly	Quarterly Quarterly Quarterly Frequency Quarterly Quarterly Quarterly Quarterly			[MUST include system and repairs needed, list current pressure temperature value in or out of range) Please note any Deficiencies or Values found during PM:
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design Verify heater operation WALK-IN FREZER AUTOMATIC BI PARTING DOOR TASKS: Adjust door so that it closes automatically within 8 seconds of opening Inspect door opening switches operating and in good condition	Quarterly Quarterly Quarterly Frequency Quarterly Quarterly Quarterly	Completed Value or Not Applicable Completed Value or Not Applicable	Quote Needed Quote Needed	[MUST include system and repairs needed, list current pressure temperature value in or out of range) Please note any Deficiencies or Values found during PM:
Clean off plastic wrap or debris from the intake screen slots. This thrash can be suck into the unit damaging the heater if not kept clean. Ensure that the heater is drawing the proper ampearage and that the air curtain has temperature rise at design Verify heater operation WALK-IN FREZER AUTOMATIC BI PARTING DOOR TASKS: Adjust door so that it closes automatically within 8 seconds of opening Inspect door opening switches operating and in good condition Adjust motion sensor has correct field of vision and is functioning properly	Quarterly Quarterly Quarterly Frequency Quarterly Quarterly Quarterly Quarterly			(MUST include system and repairs needed, list current pressure temperature value in or out of range)

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Inspect underside of building roof deck above all refrigerated or frozen spaces for water infiltration, mold, and	Quarterly			
mildew.	quarterry			
DOORS INSPECTION TASKS:		Complete difference Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM:
DOORS INSPECTION TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current pressure temperature value in or out of range)
Inspect door gaskets for tears, damage, or flattening	Quarterly			pressure temperature value in or out or range)
Inspect door handles to ensure that they are tight to door frame	Quarterly			
Verify that doors close automatically	Quarterly			
Verify operation of door and door frame heaters. Quote replacements as needed.	Quarterly			
				Please note any Deficiencies or Values found during PM:
EVAPORATOR UNIT TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
				pressure temperature value in or out of range)
Inspect each evaporator for signs of ice build up	Quarterly			
Inspect each evaporator fan to ensure operation	Quarterly			
Inspect for broken, damaged, or loose fan guards Inspect fan motor and fan assembly for vibration	Quarterly Quarterly			
Listen to each fan motor for bearing noise	Quarterly			
Verify fan rotation	Quarterly			
Inspect each coil sheet for damage	Quarterly			
Check all evaporator coils for ice build up	Quarterly			
Inspect evaporators for dirt/debris. Clean as needed.	Quarterly			
Inspect guards and blades for damage, clean guards and clean the fan blades	Quarterly			
Inspect heaters to ensure that there is clearance between the electrical connections and the copper components	Quarterly			
of the evaporator coil.				
Ensure that heaters are operable and are held in place by the manufacturer provided brackets.	Quarterly			
Inspect Defrost Contactors	Quarterly			-
Inspect harness connection at motor, at terminal block, and at any plug connections. Apply dielectric grease to	Quarterly			
plug connection to retard the infiltration of moisture.				
Verify tightness of all electrical connections Verify operation of heat tape	Quarterly Quarterly			
Inspect condensate drain line to ensure that it is not damaged, that it is open from evaporator drain connection				
to building drain	Quarterly			
				Please note any Deficiencies or Values found during PM:
PIPING SYSTEM TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
				pressure temperature value in or out of range)
Visually inspect refrigeration piping system and look specifically for vibration, shaking, movement, torn	Quarterly			
insulation				
Visually inspect piping system for signs of torn insulation Inspect piping system for signs of moisture, ice build up	Quarterly			
Inspect piping system for signs of moisture, ice build up Inspect piping system to ensure that hangers are not damaged and are supporting pipe	Quarterly Quarterly			
inspect piping system to ensure that hangers are not damaged and are supporting pipe	Quarterly			Please note any Deficiencies or Values found during PM:
REMS SYSTEM TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
nemo stotem mono.	rrequency	completed value of Not Applicable	Quote Necaca	pressure temperature value in or out of range)
Contractor to verify calibration of each pressure transducer	Quarterly			
Contractor to verify calibration of each temperature sensor. Quote to replace if reading is not accurate.	Quarterly			
Note is compressor cycles more that 150 times in 24 hours.	Quarterly			
Visually check the home page on the E2 and ensure that all systems are visible.	Quarterly			
Verify that site layout drawing is mounted on wall adjacent to or near E2 panel	Quarterly			
	Quarterly			
Verify that site layout drawing accurately reflects building, quantity of refrigeration systems, and layout. Verify all sensors are reading within an acceptable range for the application.	Quarterly			
verify an action of the reading within an acceptable range for the application.	Quarterly			Please note any Deficiencies or Values found during PM:
LEAK DETECTION SYSTEM TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
	,			pressure temperature value in or out of range)
Contractor to verify calibration and operation of leak detector	Quarterly			
Empty water trap	Quarterly			
Check charcoal filter on IRLDS	Quarterly			
Check Line-End Filter for each leak detection zone	Quarterly			1
Verify all sensors are functional and not damaged (Quote replacements as needed) Inspect end-of line water stop for each leak detection zone.	Quarterly			-
inspect end-of line water stop for each leak detection zone.	Quarterly			Please note one Polisionsis and the Company of the
ROOF/BUILDING PENETRATION TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM:
ROOF/ BUILDING FENETRATION TASKS:	rrequency	Completed value of Not Applicable	Quote Needed	(MUST include system and repairs needed, list current pressure temperature value in or out of range)
Inspect and verify that they are sealed	Quarterly			
				Please note any Deficiencies or Values found during PM:
WIRING/CONDUIT TASKS:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
				pressure temperature value in or out of range)
Inspect integrity of conduit runs serving refrigeration equipment	Quarterly			
				Please note any Deficiencies or Values found during PM:
Glycol Systems (floor heat/oil coolers):	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
Varificationals (reduce processors	Quarter			pressure temperature value in or out of range
Verify supply/return pressures Verify pump operation	Quarterly Quarterly			
Using refractometer - verify glycol mixture	Quarterly			
Verify inlet/outlet temperature (if applicable)	Quarterly			
				Please note any Deficiencies or Values found during PM:
Controls:	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current
				pressure temperature value in or out of range)
Verify all comm networks & boards are online	Quarterly			
Visually inspect Dixell controllers	Quarterly			
	Quarterly			
Use E2 to verify all evaporator coil temp sensors and transducers are within an acceptable target range.	222.0019			Discount of British and Britis
CO3 Belgineration Courts - Charlet M. A. Harris	From	Completed Value - No. 1 - No. 1	Curata Marata A	Please note any Deficiencies or Values found during PM:
CO2 Refrigeration System Check (If Applicable)	Frequency	Completed Value or Not Applicable	Quote Needed	(MUST include system and repairs needed, list current pressure temperature value in or out of range)
GENERAL CO2 SYSTEM				pressure temperature value in or out of range)
Check CO2 refrigerant charge in Flash Tank (Danfoss reading vs. level column)	Quarterly			
Check E2 Refrig Sensor readings for refrigerant leaks	Quarterly			
Check all E2 controls for correct operation of CO2 rack and circuits Associated to system	Quarterly			

Lubricate all motors and bearings as needed	Quarterly			
Check all operating refrigerant pressures	Quarterly			
Check all operating Probes and Sensors for proper refrigerant temperatures	Quarterly			
Check all motors (compressors, evaporators, condensers, pumps, etc)	Quarterly			
Check glycol flow indicators at headers, check underfloor temp sensors	Quarterly			
Check strobes and alarms for leak detection and alarms	Quarterly			
Leak check complete system	Quarterly			
Check overhead ethernet & low voltage com lines throughout facility for potential issues	Quarterly			
C02 RACK & COMPRESSORS				
Check compressor and subcooling operation check superheat at compressors and all EEV valves on Rack	Quarterly			
Cycle Test for low and High ambients/ Cycle system into transcritical mode and out to comfirm all components				
and valves operation are correct	Quarterly			
Check oil pressure differental across oil seperator inlet and outlet 8lb minimum differental if above 8lbs replace				
oil seperator filter	Quarterly			
Check electronic oil feeds at Compressors and oil levels	Quarterly			
Inspect Pressure relief valves and pressure controls at CO2 Rack	Quarterly			
Check all Voltage and Amp draws on all electrical components at Gas Cooler and Rack	Quarterly			
Check pressure control valve operations that is positioned before flash tank	Quarterly			
Check operation of VFD and compressor cycling on first stage and second stage	Quarterly			
Check all 3 way valves and shift valves on heat reclaim for correct operation	Quarterly			
SYSTEM HIGH PRESSURE SIDE Check receiver refrigerant level, trend level on E2 or Danfoss to ensure no refrigerant loss/leaks	Quarterly			
Check all operations of adiabatic or aircooled gas cooler inspect tube sheets for scale or pitting	Quarterly			
Check flash-gas bypass valve operation that is positioned out of flash tank	Quarterly			
Check correct operation fans and clean Honey cone filters on abiabatic Condenser	Quarterly			
Check proper operation of all sub cooling and electronic expansion and EEPR valves on CO2 rack	Quarterly			
Check Pressure differental on liquid driers inlet and outlet pressures, if pressure differental above 6lbs replace	Quarterly			
driers	Quarterly			
	Quarterly			
Check water reguating valve (Belimo) for proper operation including and proper water shedding on Adiabatic	Quarterly			
	Quarterly			
Check water feed valve and piping for any insulation damage and check heat tape for proper application	,			
EVAP COILS & CASES HIGHSIDE AND LOWSIDE	Ouertt -			
Check for proper operation of the fan motors Check transducers and temp sensors at evap coils	Quarterly Quarterly			
Check Bypass valves in Overhead and EEV and EEPR valves for proper operation	Quarterly			
Check condensate drain lines for flow, check heat tracing on freezer drain lines	Quarterly			
Check evaporator drain pans for debris, ice, etc and remove	Quarterly			
Check all evaporator coils for ice build up	Quarterly			
Check around evaporator on ceiling, walls, and floor below for ice build up, remove if possible	Quarterly			
Inspect evaporators for dirt/debris. Clean as needed.	Quarterly			
Check fan/Defrost amps at the RDP for each evaporator	Quarterly			
Check Filter Driers Pressure differental	Quarterly			
Check all walk-ins interior and exterior for any trim or piping supports and insulation failures	Quarterly			
Inspect overhead piping and bypass valves for any damage to insulation or piping supports	Quarterly			
Check operations of EEV and EEPR valves at coils				
	Quarterly			
Check all voltage and amps on remote and non-remote pannels on evap coils and cases	Quarterly			
Check all voltage and amps on remote and non-remote pannels on evap coils and cases General System Task	Quarterly			
Check all voltage and amps on remote and non-remote pannels on evap coils and cases General System Task Replace liquid driers every second quarter				
Check all voltage and amps on remote and non-remote pannels on evap coils and cases General System Task Replace liquid driers every second quarter Amp draws on all refrigeration contactors & breakers defrost/Fixtures and phase loss monitors and registered	Quarterly			
Check all voltage and amps on remote and non-remote pannels on evap coils and cases General System Task Replace liquid driers every second quarter Amp draws on all refrigeration contactors & breakers defrost/Fixtures and phase loss monitors and registered into log.	Quarterly Quarterly			
Check all voltage and amps on remote and non-remote pannels on evap coils and cases General System Task Replace liquid driers every second quarter Amp draws on all refrigeration contactors & breakers defrost/Fixtures and phase loss monitors and registered	Quarterly Quarterly Quarterly			
Check all voltage and amps on remote and non-remote pannels on evap coils and cases General System Task Replace liquid driers every second quarter Amp draws on all refrigeration contactors & breakers defrost/Fixtures and phase loss monitors and registered into log. Into log. Perform oil test if oil test fails replace oil in system and replace filters and clean strainers Check Glycol PH	Quarterly Quarterly Quarterly Annually Annually			
Check all voltage and amps on remote and non-remote pannels on evap coils and cases General System Task Replace liquid driers every second quarter Amp draws on all refrigeration contactors & breakers defrost/Fixtures and phase loss monitors and registered into log. Perform oil test if oil test falls replace oil in system and replace filters and clean strainers Check Glycolf PH Q1 and Q3 - Clean Adiabatic or aircooled condenser two times a year once before summer and once in the fall	Quarterly Quarterly Quarterly Annually Annually Quarterly			
Check all voltage and amps on remote and non-remote pannels on evap coils and cases General System Task Replace liquid driers every second quarter Amp draws on all refrigeration contactors & breakers defrost/Fixtures and phase loss monitors and registered into log. Perform oil test if oil test fails replace oil in system and replace filters and clean strainers Check Glycol PH Q1 and Q3 - Clean Adiabatic or aircooled condenser two times a year once before summer and once in the fall Clean evaporators. Dock 2x per year, other evaps 1x per year	Quarterly Quarterly Quarterly Annually Annually Quarterly Annually			
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Check/ Calibrate Vessel Refrigerant level Probe	Quarterly			
Check Operation of Refrigerant Leve! Controller	Quarterly			
Check Operation of High and low Refrigerant Level Controls	Quarterly			
Inspect Pump Station For Leaks and Noise	Quarterly			
Grease Pump Bearings	Quarterly			
Inspect Operation of All Electric and Manual Valves	Quarterly			
Exercise All Mechanical Valves and Inspect for Refrigerant Leaks	Quarterly			
Check Receiver Level and Verify Probe Accuracy	Quarterly			
Leak Check	Quarterly			
Auto Purger				
Inspect all Tubing for Cracks or Damage	Quarterly			
Test all Valves, Electrical and Mechanical for Proper Operation				
	Quarterly			
Ensure that the Refrigeration System is Working	Quarterly			
Test the Float to Ensure that Vapor is Being Purged and Not Refrigerant	Quarterly			
Check Cycling Sequence Timing at Each Header To Ensure Proper Purge	Quarterly			
Leak Check	Quarterly			
Evaporator / Fan Coils	'			
Visualy Inspect Coils, Coil Fins and Piping damage, dirt or ice	Quarterly			
Inspect Coil housing, Drain Pan and Drain Line for Damage	Quarterly			
Clean out drain line	Quarterly			
Check drain pan for oil stains	Quarterly			
Check Defrost valve for proper holdback (150 psi)	Quarterly			
Check Superheat and adjust hand expansion valve (Superheat should be set to 0 F)	Quarterly			
Check operation of all fan motors (note noise and vibration)	Quarterly			
Grease blower bearings and tighten belts	Quarterly			
Check and tighten electrical connetions and contactors	Quarterly			
Leak check all refrigerant pipin on the roof.	Quarterly			
Exercise and oil all mechanical valves	Quarterly			
Evaporative Cooling Tower	Quarterly			
Clean Debris From Unit	Quarterly			
Clean and Flush Sump				
	Quarterly			
Clean Sump Strainer	Quarterly			
Check and Adjust Sump Water Level	Quarterly			
Inspect Heat Transfer Section	Quarterly			
Inspect and Clean Spray Nozzles	Quarterly			
Check and Adjust Fan Belt Tension	Quarterly			
Check And Adjust Bleed Rate	Quarterly			
Check Operation of Make-up Valve	Quarterly			
Check Unit for Unusual Noise or Vibration	Quarterly			
Check Bearing Locking Collars	Quarterly			
Inspect General Condition of Unit	Quarterly			
Check Motor Voltage Current	Quarterly			
Lubricate Fan Shaft Bearings	Quarterly			
lubricate Motor Base Adjusting Screws	Quarterly			
lubricate Fan And Pump Motors	Quarterly			
Check Fan for Rotation Without Obstruction	Quarterly			
Check Fan And Pump for Proper Rotation	Quarterly			
Drain Sump and Piping	Quarterly			
Inspect Protective Finish	Quarterly			
Lubricate Capacity Control and/or Discharge Closure Damper Bearings and Working joints	Quarterly			
Inspect/Adjust Damper linkage	Quarterly			
Inspect Electric pan Water Level Control	Quarterly			
Inspect Piping for Scale Buildup. Descale and Pressure Wash if Necessary	Quarterly			
leak Check	Quarterly			
Acorn System				
Flush System With Hot Water (Monthly)	Quarterly			
Change the Small Filter Cartridge Inside of the Seperator Tank Housing	Quarterly			
Inspect Each Pumps Water Cooling Radiator, Clean as Necessary	Quarterly			
	Quarterry			
Inspect Each Vacuum Pump's Seperator Tank for Build-up of Contaminats and Hard Water Deposits, Clean as	Quarterly			
Necessary				
Inspect Each Vacuum Center Swing Check Valves, Clean as Necessary	Quarterly			
Inspect Each Vacuum Stainless Steel Collection Tank, Clean as Necessary	Quarterly			
Refriegration System Check	Frequency	Completed Value or Not Applicable	Quote Needed	Please note any Deficiencies or Values found during PM: (MUST include system and repairs needed, list current pressure temperature value in or out of range)
Deep system check for refrigeration system for the site **See Annual PM Deep Check Sheet	Annually			
Freeb system energy for remigeration system for the site in see minute and beeb check speet	Allitually	1		