Report By:

National TAB
1329 E Kemper Rd, Ste 4210
Cincinnati, OH 45246

Report: Renew
Date: 11/30/2021

PROJECT

FREDDY'S - SOUTH WICHITA - RENEW 3FH (4)

3450 S MERIDIAN
WICHITA, KS 67217

Client

Freddy's Frozen Custard & Steakburgers (CORPORATE)
260 N Rock Rd
Suite 200
Wichita, KS 67206

National TAB

Project: FREDDY'S - SOUTH WICHITA - RENEW 3FH (4)

Table Of Contents

RECOMMENDATION LIST

Assigned Organization: National TAB

Status: Not Submitted

Asset:

RECOMMENDATION (CLEAN/REPAIR/REPLACE/INFO)	
INFO	Walk-in freezer penetration line has significant frost buildup. Monitor the issue and if it gets worse contact a service provider to resolve.

Notes/Comments:

DXC-1 (WALK-IN FREEZER)
SIGNIFICANT ICE BUILD-UP

MAU
DIRTY OUTSIDE AIR FILTERS

MAU
CLEAN OUTSIDE AIR FILTERS

RTU-1 (DINING)
DIRTY OUTSIDE AIR FILTERS

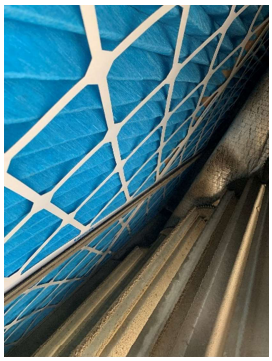
RTU-1 (DINING)
CLEAN OUTSIDE AIR FILTERS

RTU-2 (KITCHEN)
DIRTY OUTSIDE AIR FILTERS

RTU-2 (KITCHEN)
CLEAN OUTSIDE AIR FILTERS

RTU-1 (DINING)
DIRTY EVAPORATOR FILTERS

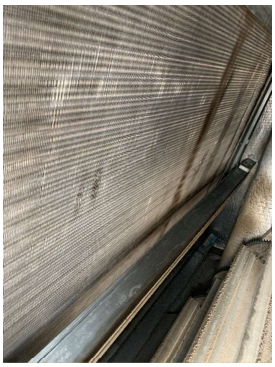
RTU-1 (DINING)
CLEAN EVAPORATOR FILTERS



RTU-2 (KITCHEN)
DIRTY EVAPORATOR FILTERS

RTU-2 (KITCHEN)
CLEAN EVAPORATOR FILTERS

RTU-1 (DINING)
DIRTY EVAPORATOR



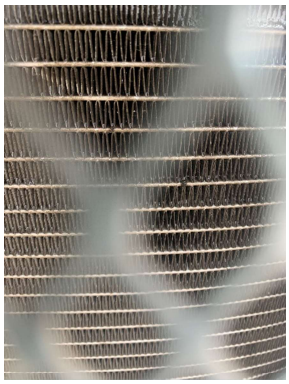
RTU-1 (DINING)
CLEAN EVAPORATOR

RTU-2 (KITCHEN)
DIRTY EVAPORATOR

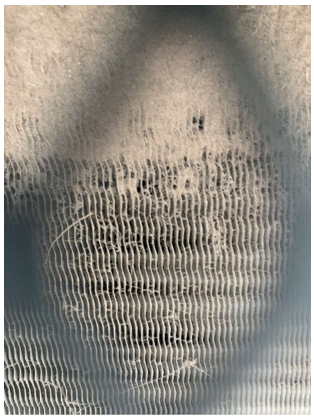
RTU-2 (KITCHEN)
CLEAN EVAPORATOR

RTU-1 (DINING)
DIRTY CONDENSER

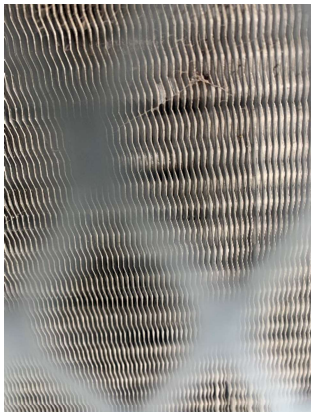
RTU-1 (DINING)
CLEAN CONDNESER



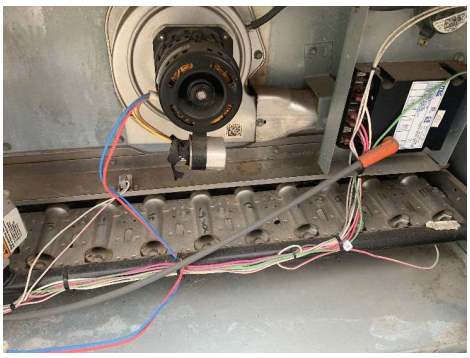
RTU-2 (KITCHEN)
DIRTY CONDENSER



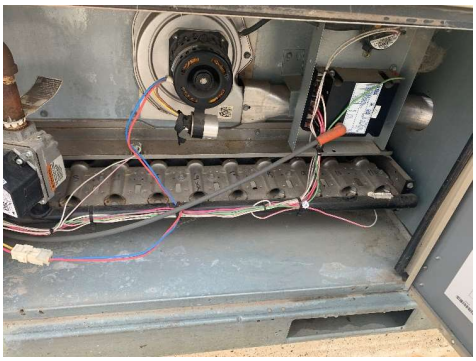
RTU-2 (KITCHEN)
CLEAN CONDNESER



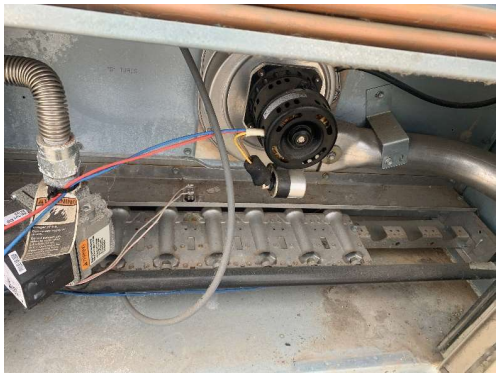
RTU-1 (DINING)
DIRTY HEATER SECTION



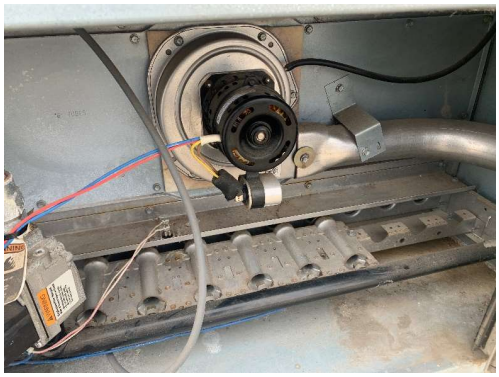
RTU-1 (DINING)
CLEAN HEATER SECTION



RTU-2 (KITCHEN)
DIRTY HEATER SECTION



RTU-2 (KITCHEN)
CLEAN HEATER SECTION



RTU-1 (DINING)
BURNER TUBE INSPECTION

DXC-2 (MEAT COOLER 1)
DIRTY CONDENSER FILTER

DXC-2 (MEAT COOLER 1)
CLEAN CONDENSER FILTER

DXC-3 (PREP TABLE)
DIRTY CONDENSER

DXC-3 (PREP TABLE)
CLEAN CONDNESER

DXC-4 (FRYER FREEZER)
DIRTY CONDENSER

DXC-4 (FRYER FREEZER)
CLEAN CONDNESER

DXC-5 (SUNDAE PREP)
DIRTY CONDENSER

DXC-5 (SUNDAE PREP)
CLEAN CONDNESER

DXC-1 (WALK-IN COOLER)
DIRTY EVAPORATOR

DXC-1 (WALK-IN COOLER)
CLEAN EVAPORATOR

DXC-1 (WALK-IN FREEZER)
DIRTY EVAPORATOR

DXC-1 (WALK-IN FREEZER)
CLEAN EVAPORATOR

DXC-1 (WALK-IN FREEZER)
DIRTY EVAPORATOR

DXC-1 (WALK-IN FREEZER)
CLEAN EVAPORATOR

Project Summary

The purpose of the visit is to perform preventative maintenance for the store. We change belts and filters, clean evaporators and condenser, and check refrigeration and heating cycle where possible. We also, check and set exhaust, outside air, and make up air coming in out of the build to the engineer's design and/or to make the space as comfortable and healthy as possible. All of this ensures a healthy and comfortable space, extends service life of units, and reduces the number of future repairs by prevention.

Freddy's locations for preventative maintenance are done in a pair. This allows two stores preventative maintenance to be completed in one day. To accomplish this the food equipment will be cleaned every 6 months. So, every other visit to a store the food equipment will be evaluated and cleaned. Food equipment was evaluated this trip.

RTUs: There evaporator coil was rinsed off and cleaned. During warmer months a self-cleaning chemical is sprayed on the evaporator. The outside air filters were rinsed off to remove any dirty, so the unit stays at the designated outside air set point. Based on static pressures, amps, and fan rpm it shows that the total supply has not changed since the last test and balance.

MAU: The intake filters had slight dirt accumulation. They were washed.

All exhaust fans were cleaned out on the roof. The vents to the motor were cleaned so they can vent properly.

Food equipment condensers were cleaned. The Walk-In evaporator were cleaned. All equipment is in good health unless stated in the Recommendation List.

All issues found are reported in the Recommendation list at the start of the report.

BUILDING PRESSURE SET POINTS

Assigned Organization: National TAB

Status: Not Submitted

Asset:

INITIAL AIRFLOWS:	
OA RTU-1 (DINING)	[2]
OA RTU-2 (DINING)	[2]
OA RTU-3 (KITCHEN)	[2]
KEF-1 (GRIDDLE)	1603
KEF-2 (FRYER)	874
KEF-3 (DISH)	634
EF-1 (RESTROOM)	202
EF-2 (RESTROOM)	208
EF-3 (RESTROOM)	189
MAU-1	[2]
TOTAL EXHUAST	[2]
TOTAL SUPPLY	[2]
NET AIRFLOW	[1]
BUILDING PRESSURE (in W.C.)	
INITIAL BUILDING PRESSURE	0.08"
FINAL BUILDING PRESSURE	-0.01" [1]

Notes/Comments:

[1] Building was extremely positive initially. Dining RTU OA damper was all the way open. Corrected by national TAB. Still slightly negative due to low flow on MUA

[2] Very windy on roof. Unable to get steady OA reading

PM CHECKLIST FOOD EQUIPMENT

Assigned Organization: National TAB

Status: Not Submitted

Asset:

WALK-IN PM CHECKLIST	
Are the doors clear of frost build up?	Yes
Are the evaporators clear of frost build up?	Yes
Are the walls clear of frost build up?	No, frost buildup on back wall of walk-in freezer
Are the penetrations and lines clear of frost build up?	No, significant frost buildup
Are all evaporator fans running?	Yes
GENERAL FOOD EQUIPMENT	
Are the units clear of frost?	Yes
Are the prefilters on the condensers clear/replaced?	Yes
Are the condensate drains clear of debris (If applicable)?	Yes

Notes/Comments:

PM CHECKLIST HEATING SEASON

Assigned Organization: National TAB

Status: Not Submitted

Asset:

RTU HEATING SEASON CHECKLIST	
Wipe out and remove debris from the heater section?	Yes
Heat exchanger free of cracks?	Yes
All units properly go into heating?	Yes
Thermostat turn on all stages of heating?	Yes
MAU HEATING SEASON CHECKLIST	
All units properly go into heating?	Yes
Wipe out and remove debris from the heater section?	Yes
Inlet and discharge thermostat setpoints at the properly settings?	Yes

Notes/Comments:

PM CHECKLIST HVAC

Assigned Organization: National TAB

Status: Not Submitted

Asset:

HOOD CHECKLIST	
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%
Hoods turn on by switch or HMI?	HMI, Dish hood turns on by SWITCH
Are the hoods "FAN ON BY BUTTON" upon arrival?	Yes
RTU PM CHECKLIST	
Outside air fliter clean?	Yes
Evaporator Filters Replaced?	Yes
Evaporator Coil cleaned?	Yes
Condenser cleaned? (Seasonal)	Yes
Belt replaced in last 6 months?	Yes
Motor ventilation cleared of dust and debris?	Yes
Is there a return filter on the Dining Room RTU return duct? If so what type?	OPEN PLENUM
Is the return filter clean on the Dinning Rooms RTU Dinning duct?	NA
MAU PM CHECKLIST	
Outside air fliter clean?	Yes
Belt replaced in last 6 months?	Yes
EXHUAST FAN PM CHECKLIST	
Motor ventilation cleared of dust and debris?	Yes
Belt replaced in last 6 months?	Yes
Motor ventilation cleared of dust and debris?	Yes
THERMOSTAT CHECKLIST	
Are the thermostats in fan “ON” position upon arrival?	Yes
Are the thermostats programed?	Yes
ADDITIONAL	
Manager on Duty at time of completion.	Grace
Is the roof free of debris? if not what was left on the roof?	Yes

Notes/Comments:

System/Unit: AHU/RTU

Asset: RTU-1 AREA: DINING

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Model Num	LGH156	LGH156
Serial Num	-	5618F02987
Num OA Filters 1	-	3
OA Filter Size 1	-	23X16
Num Final Filter 1	-	6
Final Filter Size 1	-	24X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	200-230
Rated Amperage	-	8-8.7

Drive Data		
	Design	**Actual**
Num of Belts	-	1
Belt Size	-	BX55
Belt Alignment	-	GOOD

Gas Heat		
	Design	**Actual**
Gas Type	-	NATURAL GAS
Burner Type	-	BURNER TUBES
Heater Operates (y/n)	-	YES

Test Data		
	Design	**Actual**
SF RPM	713	702
OA CFM	1049	[1]
RL Voltage	-	212/212/213
RL Amperage	-	4.5/4.5/5.0

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.31"
Fan Suction SP	-	-0.44"
Fan Discharge SP	-	0.40"
Total ESP	0.74"	0.71"
Fan Total SP	-	0.84"
MA Temp (db/wb)	-	63.3/36.9
SA Temp (db/wb)	-	101.2/64.0

General		
	Design	**Actual**
Unit free of Damage	-	YES
Unit Completely Assembled	-	YES
Unit Leveled	-	YES
Curb & Unit Installed Air Tight	-	YES
Controls Complete	-	YES
Unit Filters Clean	-	YES
Evap Coil Clean	-	YES
Evap Coil Free of Frost	-	YES
Condensor Coil Clean	-	YES
Condensor Fins Straight	-	YES
Refr Sight Glass Dry	-	YES
Condensate Drain Installed	-	YES
Crankcase Heaters Operate	-	NA

Completed By: Stephon Fisher on 11/30/2021

Notes: [1]VERY WINDY. NOT ABLE TO GET STEADY OA READING

System/Unit: AHU/RTU

Asset: RTU-2 AREA: KITCHEN

Unit Data

	Design	Actual
MFG	LENNOX	LENNOX
Model Num	LGH102	LGH102
Serial Num	-	5618F06289
Num OA Filters 1	-	2
OA Filter Size 1	-	14.25X23
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data

	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	56HZ
Horsepower	-	2
Motor Rpm	-	1755
Phase	-	3
Rated Voltage	-	200-230
Rated Amperage	-	6.5-6.2

Drive Data

	Design	Actual
Num of Belts	-	1
Belt Size	-	AX55
Belt Alignment	-	GOOD

Gas Heat

	Design	Actual
Gas Type	-	NATURAL GAS
Burner Type	-	BURNER TUBES
Heater Operates (y/n)	-	YES

Test Data

	Design	Actual
SF RPM	808	802
OA CFM	668	[1]
RL Voltage	-	212/213/212
RL Amperage	-	4.2/4.5/4.0

Performance Data

	Design	Actual
MA Plenum SP	-	-0.40"
Fan Suction SP	-	-0.61
Fan Discharge SP	-	0.52"
Total ESP	0.96"	0.92"
Fan Total SP	-	1.13"
MA Temp (db/wb)	-	64.5/39.9
SA Temp (db/wb)	-	106.6/77.2

General

	Design	Actual
Unit free of Damage	-	YES
Unit Completely Assembled	-	YES
Unit Leveled	-	YES
Curb & Unit Installed Air Tight	-	YES
Controls Complete	-	YES
Unit Filters Clean	-	YES
Evap Coil Clean	-	YES
Evap Coil Free of Frost	-	YES
Condensor Coil Clean	-	YES
Condensor Fins Straight	-	YES
Refr Sight Glass Dry	-	YES
Condensate Drain Installed	-	NA
Crankcase Heaters Operate	-	NA

Completed By: Stephon Fisher on 11/30/2021

Notes: [1] VERY WINDY. NOT ABLE TO GET STEADY OA MEASUREMENT

System/Unit: FAN - Supply

Asset: MUA-1 AREA: HD-1&2

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE AIR
Model Num	A1-D.250-G10	A1-D.250-G10
Serial Num	-	3278732
Num Filters Size 1	-	3
Filter Size 1	-	16X20X2

Test Data		
	Design	**Actual**
CFM	1228	[1]
SF RPM	1053	1052
Motor RPM	-	1784
RL Voltage	-	212/211/212
RL Amperage	-	2.6/2.6/2.4

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	H56
Horsepower	-	1.5
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	208-230/460
Amperage (rated)	-	4.64-4.42/2.41
Service Factor	-	1

General		
	Design	**Actual**
Unit free of Damage	-	YES
Curb & Unit Installed Air Tight	-	YES
Fan Rotation Correct	-	YES
Fan Belt Condition	-	YES
Unit Filters Clean	-	YES

Drive Data		
	Design	**Actual**
Num of Belts	-	1
Belt Size	-	AX40
Belt Alignment Verified	-	GOOD

Gas Heat		
	Design	**Actual**
Gas Type	-	NATURAL GAS
Burner Type	-	DIRECT FIRE
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	-	55
Discharge Air Temp SetPt	-	60
Air Flow Switch SP Actual	-	0.36"

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Notes: [1] VERY WINDY TO GET STEADY OA MEASUREMENT

System/Unit: FAN - Exhaust

Asset: EF-1 AREA: RR/ DUAL

Unit Data		
	Design	**Actual**
MFG	COOK	TWIN CITY FAN
Model Num	GC-164	T200
Serial Num	-	NL

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	1.8

Test Data		
	Design	**Actual**
CFM	202	202

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Notes:

System/Unit: FAN - Exhaust

Asset: EF-2 AREA: RR-MENS

Unit Data		
	Design	**Actual**
MFG	COOK	TWIN CITY FAN
Model Num	GC-164	T200
Serial Num	-	NL

Test Data		
	Design	**Actual**
CFM	184	208

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	1.8

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Notes:

System/Unit: FAN - Exhaust

Asset: EF-3 AREA: RR- WOMENS

Unit Data		
	Design	**Actual**
MFG	COOK	TWIN CITY FAN
Model Num	GC-164	T200
Serial Num	-	NL

Test Data		
	Design	**Actual**
CFM	199	189

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	-	NL
Motor Rpm	-	N
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	1.8

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Notes:

System/Unit: FAN - Exhaust

Asset: KEF-1 AREA: COOKLINE

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	3278732
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	HSSA
Frame	-	48Y
Horsepower	-	1
Motor Rpm	-	1625
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	7.2
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	1530	1603
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	106.5V
RL Voltage	-	106.5
RL Amperage	-	5.1
Total ESP	1.01"	1.00"
Fan Inlet SP	-	-1.00"
Fan Discharge SP	-	ATM

Completed By: Stephon Fisher on 11/30/2021

Notes:

System/Unit: FAN - Exhaust

Asset: KEF-2 AREA: FRYER

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DU50HFA	DU50HFA
Serial Num	-	3278732
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	HSSA
Frame	-	48Y
Horsepower	-	0.5
Motor Rpm	-	1625
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	8.4
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	829	874
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	86.5V
RL Voltage	-	86.5V
RL Amperage	-	2.0
Total ESP	0.73"	0.75"
Fan Inlet SP	-	-0.75"
Fan Discharge SP	-	ATM

Completed By: Stephon Fisher on 11/30/2021

Notes:

System/Unit: FAN - Exhaust

Asset: KEF-3 AREA: DISHWARE

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DU30HFA	DU30HFA
Serial Num	-	3278732
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	HSSA
Frame	-	48Y
Horsepower	-	0.25
Motor Rpm	-	1625
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	3
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	660	634
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	79.4
RL Voltage	-	79.4
RL Amperage	-	2.0
Total ESP	0.41"	0.38"
Fan Inlet SP	-	-0.38"
Fan Discharge SP	-	ATM

Completed By: Stephon Fisher on 11/30/2021

Notes:

System/Unit: COIL - DX

Asset: DXC1 AREA: WALK-IN

Unit Data		
	Design	**Actual**
MFG	NA	HOSHIZAKI
Model Num	NA	E225993
Serial Num	-	277575-01-J01/2

General		
	Design	**Actual**
Evap Coil Clean	-	YES
Evap Coil Fins Straight	-	YES
Evap Coil Free of Frost	-	YES
Condensor Coil Clean	-	YES
Condensor Fins Straight	-	YES
Condensate Drain Installed	-	NA
Crankcase Heaters Operate	-	NA

Completed By: Stephon Fisher on 11/30/2021

Notes: Break along the refrigeration line causing signifcant frost build-up

System/Unit: COIL - DX

Asset: DXC2 AREA: MEAT COOLER 1

Unit Data		
	Design	**Actual**
MFG	NA	HOSHIZAKI AMERICA
Model Num	NA	CRMR27-12M
Serial Num	-	HH1202A

General		
	Design	**Actual**
Evap Coil Clean	-	YES
Evap Coil Fins Straight	-	YES
Evap Coil Free of Frost	-	YES
Condensor Coil Clean	-	YES
Condensor Fins Straight	-	YES
Condensate Drain Installed	-	NA
Crankcase Heaters Operate	-	NA

Completed By: Stephon Fisher on 11/30/2021

Notes:

System/Unit: COIL - DX

Asset: DXC3 AREA: PREP TABLE

Unit Data		
	Design	**Actual**
MFG	NA	RANDELL
Model Num	NA	9040K-7
Serial Num	-	W1388323-1

General		
	Design	**Actual**
Evap Coil Clean	-	YES
Evap Coil Fins Straight	-	YES
Evap Coil Free of Frost	-	YES
Condensor Coil Clean	-	YES
Condensor Fins Straight	-	YES
Condensate Drain Installed	-	NA
Crankcase Heaters Operate	-	NA

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Notes:

System/Unit: COIL - DX

Asset: DXC4 AREA: FRYER FREEZER

Unit Data		
	Design	**Actual**
MFG	NA	HOSHIZAKI AMERICA
Model Num	NA	CF1S-HS
Serial Num	-	H50718E

General		
	Design	**Actual**
Evap Coil Clean	-	YES
Evap Coil Fins Straight	-	YES
Evap Coil Free of Frost	-	YES
Condensor Coil Clean	-	YES
Condensor Fins Straight	-	YES
Condensate Drain Installed	-	NA
Crankcase Heaters Operate	-	NA

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Notes:

System/Unit: COIL - DX

Asset: DXC5 AREA: SUNDAE PREP

Unit Data		
	Design	**Actual**
MFG	NA	HOSHIZAKI AMERICA
Model Num	NA	CR1S-HS
Serial Num	-	H30381A

General		
	Design	**Actual**
Evap Coil Clean	-	YES
Evap Coil Fins Straight	-	YES
Evap Coil Free of Frost	-	YES
Condensor Coil Clean	-	YES
Condensor Fins Straight	-	YES
Condensate Drain Installed	-	NA
Crankcase Heaters Operate	-	NA

Completed By: Stephon Fisher on 11/30/2021

Notes: