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Pre-Evaluation Report Prior to ReDesign Phase

**PROJECT
ADDRESS**

DILLONS 615-074

2350 PLANET AVE

SALINA, KS 67401

**ARCHITECT /
ENGINEER**

HENDERSON ENGINEERS

8345 LENEXA DRIVE SUITE 300

LENEXA, KS 66214

**TAB
FIRM**

NATIONAL TAB

1329 E KEMPER RD., SUITE 4210

CINCINNATI, OH 45246

This test completed on 12/6/2016
This report completed on 1/6/2017



PROJECT: DILLONS 074
SYSTEM: Testing Procedure

SUMMARY

The General focus of the testing is to provide total amount of outside air being introduced into the building, total exhaust existing the building, condition of equipment, issues or complaints, and any noticeable changes to the HVAC systems in respect to older prints if available.

The Balancing Technician must follow the following guidelines when performing the (No Suggestions):

1) Fill out the Defining Overall Scope/Issues page by asking store manager, employees, and project manager questions of any issues. Also walk around store to see if you see any glaring big issues and document. Make sure you also fill out COMPLETELY the Building Evaluation form and it is imperative to get a store building pressure if Possible. If not, see if you can tell if store is negative or positive nature by feel. You will need to close back doors & dock doors. Take pictures of anything that might be issues.

2) Do a Detailed evaluation on the large RTU or AHU units that feed the retail space. Typically there are one or two units that serve the retail area on older stores. Make sure to take a picture of the unit configuration (AHU's do unit & make duct connection - picture) and insert in report. If picture is not available, provide a quick sketch on Equipment EVAL sheet. Then continue to provide the data listed on the AHU-RTU sheet on the MAIN SALES FLOOR AREA. It is IMPERATIVE we measure outside air amount. Make sure the unit is in full load condition by turning on at CPC or Danfoss panel (IF Danfoss, can put unit into max speed by changing a couple of dip switches on unit temporarily). If you can traverse the main supply duct to get total Supply air or quickly measure diffusers to get total airflow, please do so. Keep in mind that if there are alot of diffusers to measure, hold off doing this until doing all other items on list since we only have a max of 2 days to perform evaluation.

Note: If retail space is served by many RTU's, then do not use form state above in item #2, but same form as other RTU's as state in item #4 below.

3) Look at ductwork and if possible (not too high) check above ceiling to see if there are any issues of ductwork or major changes to ductwork layout if you have old prints to review from. NOTE and take PICTURES of any of these issues.

4) For all other RTU's and AHU's get minimal data and check condition of each unit using the AHU-RTU eval test form for adjacent to retail space. MAKE SURE to measure Outside air! If no outside air intake, please note and state if one could or could not be installed. Again take PICTURES.

5) Look at ductwork and if possible to see if there are any issues of ductwork or major changes to ductwork layout if you have old prints to review from. NOTE and take PICTURES of any of these issues.

6) Identify all exhaust fans, condition of fan, what they serve, and TOTAL exhaust flow rate for EACH fan using the Exhaust Pre-Inspection Functional Test Form. TAKE Picture of each fan and insert on form next to information provided. IF fan does not work or has been abandon, please note this within the report (If known why, please state). NOTE: Do not work on any exhaust fans that are in the compressor room, transfer fans, or prop fans. Also IT may be difficult to measure a few exhaust fans (ie.. electrical room). If you cannot measure airflow, please state why within report.

7) Identify dedicated make up air fan, condition of fan, what they serve, and TOTAL supply airflow rate for EACH fan using the MUA Pre-Inspection Functional Test Form. TAKE Picture of each fan and insert on form next to information provided. IF fan does not work or has been abandon, please note this within the report (If known why, please state). Typically Kroger uses dedicated make up air units for hoods or to provide additional outside air to a unit or space. Note if heating or cooling or both or nontempered.

PROJECT:DILLONS STORE #:074
LOCATION:SALINA, KS

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Fax 513-860-0465

Defining Overall Scope/ Issues

Scope of work for renovation. NATIONAL TAB TEAM & Balancing TECH to ask each person below to identify these items before project is scheduled or when the tech arrives on site. While tech is on site, they should interview the Store Manager and Maintenance personell and gather & record data below.

Project Manager:

KEITH HARNACK

Engineer/ Architect:

Pre existing HVAC issues (ex: Temperature, noise and building pressure issues)

Store Manager: TEMP ON SALES FLOOR VARIES THROUGHOUT STORE
OFFICES ARE COMFORTABLE BUT NOT IN CONCERT WITH REST OF SALES
FLOOR

Lead Store Maintenance Technician:

STORE HAS PROBLEM KEEPING COMFORTABLE TEMPERATURES THROUGHOUT.
OPENING OA IN THE PAST SEEMED TO EXACERBATE THE ISSUE

Overall Condition of space (note any drafts, building pressurization, compressor room sealed, hot & cold spots, visual inspection-Document with pictures.) Also stick your head above drop ceiling IF YOU CAN ACCESS and see if all ductwork is connected & not coming apart:

OVERALL EQUIPMENT IS IN GOOD CONDITION. THE MUA UNITS ARE TURNED OF
AND DON'T APPEAR TO HAVE BEEN USED IN SOME TIME. OA DAMPERS FOUND
CLOSED.

Kroger Evaluation - Store Analysis

PROJECT:DILLONS STORE #:074
LOCATION:SALINA, KS

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Building Evaluation

Retail area

- Any noticeable drafts in space (especially at open cooler cases that would cause spillage) NO
- Are there any hot & cold spots in store YES
- Does the passive door seperating the retail from back storage appear in good working condition YES
- What is the pressure like from retail store to back dock area NEG

Remaining area throughout the store

- verify if the building seem to be neutral in nature or if air is rushing in or out of store **NEG**
- Does the compressor room appear to be sealed YES
- Does the cart coral door appear to be in working condition to keep a barrier from outside elements/temperature YES

Controls (Have KS/Kroger Team assist with the controls verification if possible)

- Type of Controls (Danfoss or CPC) CPC
- Units controlled currently by system (ie.. RTU 1, 2, 3, etc) YES
- Any fault or error codes (maintenance provide input) NONE
- Other: _____

Additional Notes & Comments about the Store & MEP's:

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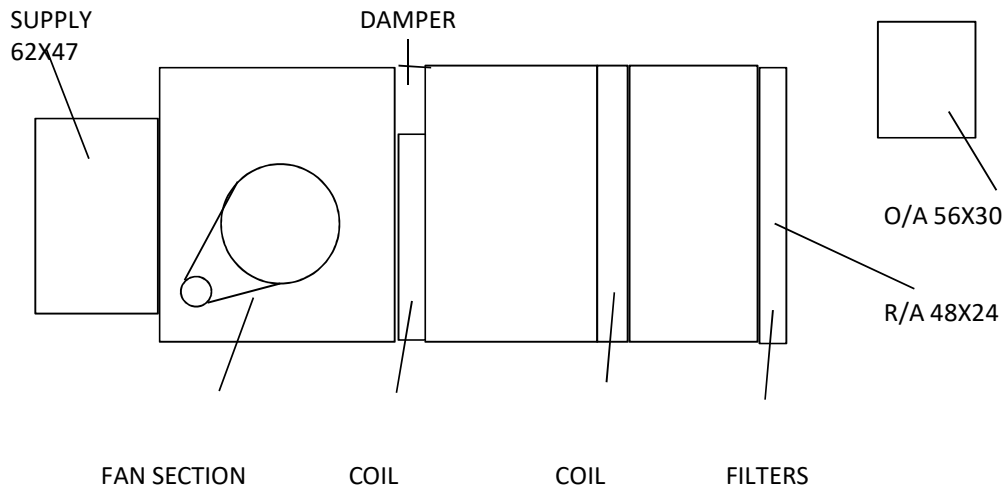
Equipment Evaluation UNIT:

RTU/ AHU Unit (Specific to Retail spaces ONLY)

1) Unit condition: (ex: physical damage, dirty coils, filters, belts, pulleys and wiring) yes / no

Describe Issues: NONE

2) Draw an elevation diagram of unit arrangement below showing main system components on diagram, main duct size coming off unit, where outside air is supplied and size.





PROJECT: DILLONS 074

SYSTEM: MAIN SALES FLOOR RTU PICTURES



AHU-RTU EVALUATION TEST FORM FOR MAIN SALES FLOOR AREA ONLY



PROJECT: DILLONS 074
SYSTEM/UNIT: AHU-1 (MAIN SALES FLOOR)

UNIT DATA:	
UNIT MANF.	TWIN CITY FAN & BLOWER
MODEL #	445
SERIAL #	85-53049-1-1
DISCHARGE	HORIZONTAL DISCHARGE
SHEAVE DIAM / BORE	6 1/2" 2 1/4"
# BELTS / SIZE	3 B144
# FILTERS / SIZE	32 24 X 24 X 2
UNIT TAG (BarCode on Unit Housing if found)	

MOTOR DATA:	
MOTOR MANF.	WESTINGHOUSE
FRAME	286T
HP / RPM	30 1765
VOLTAGE / PHASE	230/460
F.L. AMPS / S.F.	79.4/39.7 1.15
SHEAVE DIAM / BORE	18 1/2" 2 7/8"

	TEST DATA
TOTAL SUPPLY AIR	51472
TOTAL OUTSIDE AIR	9984
FAN RPM	1089
R.L. VOLTAGE	455
R.L. AMPERAGE	29.4
TYPE OF OA DAMPER	MANUAL BLADE
OPEN AREA-DUCT OF OUTSIDE AIR	56 X 30
DUCT SIZE OF MAIN SUPPLY DUCT	62 X 47
DUCT SIZE OF MAIN RETURN DUCT	48 x 24
DX FILTER CONDITION	CLEAN

TEST DATA	TEST DATA
E.S.P. SUCTION	0.97
E.S.P. DISCHARGE	0.76
TOTAL E.S.P.	1.73
UNIT TOTAL S.P. (TSP)	1.4
DX COIL SP	0.21
REHEAT COIL SP	0.42
OUTDOOR TEMP	37
DX COIL TEMP DURING COOLING MODE	NR
STORE TEMP	67

REMARKS:
 DESIGN AIRFLOW IS 40,000 CFM
 OA DAMPER WAS FOUND CLOSED. TEMPORARILY OPENED TO TEST OA.

AHU-RTU EVALUATION TEST FORM FOR ADJACENT TO RETAIL SPACE



PROJECT: DILLONS 074
SYSTEM/UNIT: RTU- 5 **AREA SERVED:** BAKERY / DELI

UNIT & MOTOR DATA:	
UNIT MANF.	AAON
MODEL #	RN-020
SERIAL #	200908-ANGP06823
DISCHARGE	VERTICAL DISCHARGE
MOTOR HP	5
MOTOR RATED VOLTS	460
MOTOR RATED AMPS	8.1
UNIT TAG (BarCode on Unit Housing if found)	4118412

UNIT CONDITION:	
PHYSICAL DAMAGE	NONE
PULLEY/BELT WEAR	DIRECT DRIVE
WIRING	GOOD
FILTERS	2- 24 1/2 X 58 1/2
OUTSIDE AIR DAMPER TYPE	MANUAL BLADE
SIZE OF OUTSIDE AIR DAMPER	39 X 17
DX FILTER CONDITION	CLEAN

TEST DATA	
TOTAL OUTSIDE AIR	1432
R.L. VOLTAGE	436
R.L. AMPERAGE	6.6

DESCRIBE ANY OTHER DEFFICIENT CONDITIONS BELOW & ATTACH PICTURES

REMARKS:

AHU-RTU EVALUATION TEST FORM FOR ADJACENT TO RETAIL SPACE



PROJECT: DILLONS 074
SYSTEM/UNIT: RTU- 3 **AREA SERVED:** OFFICES / MEZZ

UNIT & MOTOR DATA:	
UNIT MANF.	AAON
MODEL #	RN-009
SERIAL #	201005-ANGQ10336
DISCHARGE	VERTICAL DISCHARGE
MOTOR HP	2
MOTOR RATED VOLTS	460
MOTOR RATED AMPS	3.4
UNIT TAG (BarCode on Unit Housing if found)	4118477

UNIT CONDITION:	
PHYSICAL DAMAGE	NONE
PULLEY/BELT WEAR	DIRECT DRIVE
WIRING	GOOD
FILTERS	2-14 1/2 X 49 X 2
OUTSIDE AIR DAMPER TYPE	MANUAL BLADE
SIZE OF OUTSIDE AIR DAMPER	25 X 15
DX FILTER CONDITION	CLEAN

TEST DATA	
TOTAL OUTSIDE AIR	405
R.L. VOLTAGE	427
R.L. AMPERAGE	2.4



REMARKS:

AHU-RTU EVALUATION TEST FORM FOR ADJACENT TO RETAIL SPACE

PROJECT: DILLONS 074
SYSTEM/UNIT: RTU- 2 **AREA SERVED:** PHARMACY



UNIT & MOTOR DATA:	
UNIT MANF.	AAON
MODEL #	RN-006
SERIAL #	201005-ANGF10352
DISCHARGE	VERTICAL DISCHARGE
MOTOR HP	2
MOTOR RATED VOLTS	460
MOTOR RATED AMPS	3.4
UNIT TAG (BarCode on Unit Housing if found)	

UNIT CONDITION:	
PHYSICAL DAMAGE	NONE
PULLEY/BELT WEAR	DIRECT DRIVE
WIRING	GOOD
FILTERS	2-15 1/2 X 39 X 2
OUTSIDE AIR DAMPER TYPE	MANUAL BLADE
SIZE OF OUTSIDE AIR DAMPER	33 X 17
DX FILTER CONDITION	CLEAN

TEST DATA	
TOTAL OUTSIDE AIR	628
R.L. VOLTAGE	436
R.L. AMPERAGE	2.8



REMARKS:

AHU-RTU EVALUATION TEST FORM FOR ADJACENT TO RETAIL SPACE



PROJECT: DILLONS 074
SYSTEM/UNIT: RTU- 7 **AREA SERVED:** BREAK ROOM

UNIT & MOTOR DATA:	
UNIT MANF.	AAON
MODEL #	RM-A03
SERIAL #	200908-AMGC49520
DISCHARGE	VERTICAL DISCHARGE
MOTOR HP	1
MOTOR RATED VOLTS	460
MOTOR RATED AMPS	2.1
UNIT TAG (BarCode on Unit Housing if found)	

UNIT CONDITION:	
PHYSICAL DAMAGE	NONE
PULLEY/BELT WEAR	NONE / BX48
WIRING	GOOD
FILTERS	2-15 1/2 X 39
OUTSIDE AIR DAMPER TYPE	MANUAL BLADE
SIZE OF OUTSIDE AIR DAMPER	28 X 10
DX FILTER CONDITION	CLEAN

TEST DATA	
TOTAL OUTSIDE AIR	366
R.L. VOLTAGE	481/480/481
R.L. AMPERAGE	1.6/1.6/1.3

DESCRIBE ANY OTHER DEFFICIENT CONDITIONS BELOW & ATTACH PICTURES

REMARKS:

AHU-RTU EVALUATION TEST FORM FOR ADJACENT TO RETAIL SPACE

PROJECT: DILLONS 074
SYSTEM/UNIT: RTU- 6 AREA SERVED: RECEIVING



UNIT & MOTOR DATA:	
UNIT MANF.	CARRIER
MODEL #	48TCEA06A2A6A0A0A0
SERIAL #	1910G10348
DISCHARGE	VERTICAL DISCHARGE
MOTOR HP	NOT LISTED
MOTOR RATED VOLTS	208-230/460
MOTOR RATED AMPS	5.2/2.6
UNIT TAG (BarCode on Unit Housing if found)	D10J010119

UNIT CONDITION:	
PHYSICAL DAMAGE	RAKING NOISE WHEN RUN
PULLEY/BELT WEAR	PULLEY WORN, BELT WO
WIRING	OLD BUT APPEARS FINE
FILTERS	2 - 24.75"X 15.5"
OUTSIDE AIR DAMPER TYPE	NONE
SIZE OF OUTSIDE AIR DAMPER	NONE
DX FILTER CONDITION	BENT, DIRTY

TEST DATA	
TOTAL OUTSIDE AIR	N/A
R.L. VOLTAGE	487/487/487
R.L. AMPERAGE	2.2/2.2/2.2



REMARKS:
 FILTERS ARE DIRTY AND COIL IS DIRTY AND BENT UP AS WELL. NO REAL STRUCTRURE DAMAGE ON RTU BUT MAKES A RATTILING/SQUEAKING NOISE DURING OPERATION. NO OUTSIDE AIR DAMPER. BELT WAS LOOSE AND MOTOR IS MOVING DURING OPERATION AS WELL. TIGHTEND BOTH DOWN. STILL RATTLES AND SQUEAKS.

EXHAUST PRE-INSPECTION FUNCTIONAL TEST FORM

PROJECT: DILLONS 074
TESTING: CONDITION OF EXISTING EXHAUST FANS



FAN SERVES:	PUBLIC RESTROOMS
FAN TAG:	EF-10
MFG	CAPTIVE AIRE
MODEL	DR30HFA
HP	0.25
NAMEPLATE VOLT	115
NAMEPLATE AMP	4
BELT SIZE & CONDITION	DIRECT DRIVE
EXHAUST (ACTUAL AIRFLOW MEASURED)	316
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW:MEASURED WITH FLOW HOOD	

COMMENTS:

Speed controller function (if applicable)

YES _____

If fan for grease hood- does it have hinge kit & grease cup/

NA _____

Is the electrical Whip frayed?

NO _____

Does The whip interfere with hinging?

NO _____

Any excessive noise?

NO _____

Fan belt in good condition?

NA _____

OTHER _____



FAN SERVES:	MEZZ / OFFICE RESTROOMS
FAN TAG:	EF-17
MFG	CAPTIVE AIRE
MODEL	DR12HFA
HP	0.18
NAMEPLATE VOLT	115
NAMEPLATE AMP	2
BELT SIZE & CONDITION	DIRECT DRIVE
EXHAUST (ACTUAL AIRFLOW MEASURED)	244
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW:MEASURED WITH FLOW HOOD	

COMMENTS:

Speed controller function (if applicable)

YES _____

If fan for grease hood- does it have hinge kit & grease cup/

NA _____

Is the electrical Whip frayed?

NO _____

Does The whip interfere with hinging?

NO _____

Any excessive noise?

NO _____

Fan belt in good condition?

NA _____

OTHER _____

EXHAUST PRE-INSPECTION FUNCTIONAL TEST FORM

PROJECT: DILLONS 074
TESTING: CONDITION OF EXISTING EXHAUST FANS



FAN SERVES:	DOUGHNUT HOOD
FAN TAG:	EF-14
MFG	CAPTIVE AIRE
MODEL	NCA10FA
HP	0.5
NAMEPLATE VOLT	208
NAMEPLATE AMP	1.8
BELT SIZE & CONDITION	AX23 GOOD
EXHAUST (ACTUAL AIRFLOW MEASURED)	NR NO POWER NOT IN USE
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW:	

COMMENTS:

Speed controller function (if applicable)

NA

If fan for grease hood- does it have hinge kit & grease cup/

YES

Is the electrical Whip frayed?

NO

Does The whip interfere with hinging?

NO

Any excessive noise?

NO

Fan belt in good condition?

YES

OTHER



FAN SERVES:	DELI FRYER HOOD BACK
FAN TAG:	EF-15
MFG	DAYTON
MODEL	4YY18
HP	NO LABEL
NAMEPLATE VOLT	NO LABEL
NAMEPLATE AMP	NO LABEL
BELT SIZE & CONDITION	3L190
EXHAUST (ACTUAL AIRFLOW MEASURED)	1822
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW:MEASURED WITH VELGRID	

COMMENTS:

Speed controller function (if applicable)

NA

If fan for grease hood- does it have hinge kit & grease cup/

YES

Is the electrical Whip frayed?

NO

Does The whip interfere with hinging?

NO

Any excessive noise?

NO

Fan belt in good condition?

YES

OTHER

EXHAUST PRE-INSPECTION FUNCTIONAL TEST FORM

PROJECT: DILLONS 074
TESTING: CONDITION OF EXISTING EXHAUST FANS



FAN SERVES:	DELI OVEN HOOD
FAN TAG:	EF-13
MFG	CAPTIVE AIRE
MODEL	NCA14HPFA
HP	0.33
NAMEPLATE VOLT	115
NAMEPLATE AMP	7
BELT SIZE & CONDITION	AX20 / GOOD
EXHAUST (ACTUAL AIRFLOW MEASURED)	1514
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW:MEASURED WITH VELGRID	

COMMENTS:

Speed controller function (if applicable)

NA

If fan for grease hood- does it have hinge kit & grease cup/

YES

Is the electrical Whip frayed?

NO

Does The whip interfere with hinging?

NO

Any excessive noise?

NO

Fan belt in good condition?

YES

OTHER



FAN SERVES:	BAKERY OVEN
FAN TAG:	EF-7
MFG	CAPTIVE AIRE
MODEL	DU33HFA
HP	0.33
NAMEPLATE VOLT	115
NAMEPLATE AMP	4.1
BELT SIZE & CONDITION	DIRECT DRIVE
EXHAUST (ACTUAL AIRFLOW MEASURED)	657
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW:MEASURED WITH	

COMMENTS:

Speed controller function (if applicable)

YES

If fan for grease hood- does it have hinge kit & grease cup/

YES

Is the electrical Whip frayed?

NO

Does The whip interfere with hinging?

NO

Any excessive noise?

NO

Fan belt in good condition?

NA

OTHER

EXHAUST PRE-INSPECTION FUNCTIONAL TEST FORM

PROJECT: DILLONS 074
TESTING: CONDITION OF EXISTING EXHAUST FANS



FAN SERVES:	NORTH BACK ROOM
FAN TAG:	EF-2
MFG	LOREN COOK COMPANY
MODEL	150C2B
HP	0.5
NAMEPLATE VOLT	208
NAMEPLATE AMP	NOT LISTED / WORN
BELT SIZE & CONDITION	291ET - BROKEN
EXHAUST (ACTUAL AIRFLOW MEASURED)	NOT RUNNING
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED) FAN BELT IS BROKEN. NO VOLTAGE WAS RECORDED TO THE MOTOR. UNIT IS IN POOR CONDITION.	

COMMENTS:

Speed controller function (if applicable)

NO

If fan for grease hood- does it have hinge kit & grease cup/

NO

Is the electrical Whip frayed?

NO

Does The whip interfere with hinging?

N/A

Any excessive noise?

UTO

Fan belt in good condition?

NO BELT IS BROKEN

OTHER



FAN SERVES:	REAR MEZZANINE / ELECTRICAL ROOM
FAN TAG:	EF-3
MFG	UTO - NO TAG OR LABEL
MODEL	UTO - NO TAG OR LABEL
HP	0.33
NAMEPLATE VOLT	UTO - NO TAG OR LABEL
NAMEPLATE AMP	UTO - NO TAG OR LABEL
BELT SIZE & CONDITION	NO BELT IS INSTALLED
EXHAUST (ACTUAL AIRFLOW MEASURED)	UNIT NOT RUNNING
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW: THERE IS NO BELT INSTALLED. THERE IS NO VOLTAGE RECORDED TO THE MOTOR.	

COMMENTS:

Speed controller function (if applicable)

NO

If fan for grease hood- does it have hinge kit & grease cup/

NO

Is the electrical Whip frayed?

NO

Does The whip interfere with hinging?

N/A

Any excessive noise?

N/A

Fan belt in good condition?

NO NO BELT IS INSTALLED

OTHER

EXHAUST PRE-INSPECTION FUNCTIONAL TEST FORM

PROJECT: DILLONS 074
TESTING: CONDITION OF EXISTING EXHAUST FANS



FAN SERVES:	ABOVE SALES FLOOR CEILING - WEST
FAN TAG:	EF 4
MFG	UTO - NO TAG OR LABEL
MODEL	UTO - NO TAG OR LABEL
HP	0.75 (MOTOR STICKER)
NAMEPLATE VOLT	208-230/460 (MOTOR STICKER)
NAMEPLATE AMP	2.6/1.3 (MOTOR STICKER)
BELT SIZE & CONDITION	BELT SIZE IS WORN OFF OF BELT
EXHAUST (ACTUAL AIRFLOW MEASURED)	UNIT NOT RUNNING
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED) THERE WAS NO VOLTAGE RECORDED AT THE MOTOR.	

COMMENTS:

Speed controller function (if applicable)

NO

If fan for grease hood- does it have hinge kit & grease cup/

NO

Is the electrical Whip frayed?

NO

Does The whip interfere with hinging?

N/A

Any excessive noise?

N/A

Fan belt in good condition?

NO BELT IS WORN

OTHER



FAN SERVES:	ABOVE SALES FLOOR CEILING - EAST
FAN TAG:	EF 5
MFG	UTO - NO TAG OR LABEL
MODEL	UTO - NO TAG OR LABEL
HP	0.75
NAMEPLATE VOLT	208-230/460
NAMEPLATE AMP	2.6/1.3
BELT SIZE & CONDITION	B2T
EXHAUST (ACTUAL AIRFLOW MEASURED)	UNIT NOT RUNNING
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW: THERE WAS NO VOLTAGE RECORDED AT THE MOTOR.	

COMMENTS:

Speed controller function (if applicable)

NO

If fan for grease hood- does it have hinge kit & grease cup/

NO

Is the electrical Whip frayed?

NO

Does The whip interfere with hinging?

N/A

Any excessive noise?

N/A

Fan belt in good condition?

NO BELT IS WORN

OTHER

EXHAUST PRE-INSPECTION FUNCTIONAL TEST FORM

PROJECT: DILLONS 074
TESTING: CONDITION OF EXISTING EXHAUST FANS



FAN SERVES:	CHINESE LEFT AND RIGHT
FAN TAG:	EF-12
MFG	DUO AIRE
MODEL	NOT LISTED
HP	2
NAMEPLATE VOLT	208
NAMEPLATE AMP	NOT LISTED
BELT SIZE & CONDITION	AX25 GOOD
EXHAUST (ACTUAL AIRFLOW MEASURED)	4767
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW:MEASURED WITH VELGRID	

COMMENTS:

Speed controller function (if applicable)
If fan for grease hood- does it have hinge kit & grease cup/ Is the electrical Whip frayed?
Does The whip interfere with hinging?
Any excessive noise?
Fan belt in good condition?

NA
 YES
 NO
 NO
 NO
 YES

OTHER



FAN SERVES:	SEAFOOD
FAN TAG:	EF11
MFG	CAPTIVE AIRE
MODEL	DR12HFA
HP	0.18
NAMEPLATE VOLT	115
NAMEPLATE AMP	2
BELT SIZE & CONDITION	DD
EXHAUST (ACTUAL AIRFLOW MEASURED)	466
ADDITIONAL NOTES (OVERALL DEFFICIENCY OR CONDITION OF FAN-DESCRIBE & INDICATE HOW YOU MEASURED AIRFLOW:MEASURED WITH FLOWHOOD	

COMMENTS:


Speed controller function (if applicable)
If fan for grease hood- does it have hinge kit & grease cup/ Is the electrical Whip frayed?
Does The whip interfere with hinging?
Any excessive noise?
Fan belt in good condition?

YES
 NA
 NO
 NO
 NO
 NA

OTHER

MUA PRE-INSPECTION FUNCTIONAL TEST FORM

PROJECT: DILLONS 074
TESTING: CONDITION OF EXISTING MAKE UP AIR FANS

MUA TAG (UNIT #):	MUA-1	MFG	DUO AIRE
		MODEL	AA1
		MOTOR HP	NOT LISTED
		NAMEPLATE AMPS	19
		NAMEPLATE VOLT	208
		# BELTS / SIZE / CONDITION	MISSING

HEATER (IF AVAILABLE)

(Turn O.A. Stat to 90 deg's) OR turn heater switch on at hood or control panel - Reset when done with visual test
does it fire up? **flame quality:**

MUA Unit Heated OR Non-Heated? NON

Size & # of filters in Unit? 4 16 X 20 X 1 (2 MISSING)


Are the filters clean? YES

Is the electrical Whip frayed? NO

Any excessive noise? NO

Total airflow measured (actual): NR

ADDITIONAL NOTES/COMMENTS (STATE ALSO HOW YOU MEASURED):

MUA TAG (UNIT #):	MUA-2	MFG	DAYTON
		MODEL	C130
		MOTOR HP	NOT LISTED
		NAMEPLATE AMPS	7.8
		NAMEPLATE VOLT	208
		# BELTS / SIZE / CONDITION	1-4L480-BROKEN

HEATER (IF AVAILABLE)

(Turn O.A. Stat to 90 deg's) OR turn heater switch on at hood or control panel - Reset when done with visual test
does it fire up? **flame quality:**

MUA Unit Heated OR Non-Heated? NON

Size & # of filters in Unit? 4 16 X 25 X 1

Are the filters clean? YES

Is the electrical Whip frayed? NON

Any excessive noise? NO

Total airflow measured (actual): NR NOT IN USE

ADDITIONAL NOTES/COMMENTS (STATE ALSO HOW YOU MEASURED):

PRE-INSPECTION FUNCTION TEST

PROJECT:	DILLONS 074
SYSTEM:	CONDITIONS OF EXISTING HOOD SYSTEMS

KH #1 RIGHT	FIELD NOTES
SIZE OF HOOD (L x W)	96 X 50
LOCATION OF HOOD (IE- FRONT CHARBROILER DISPLAY HD)	DELI FRYERS RIGHT
IS HOOD EXHAUST ONLY OR EXHAUST WITH MU-AIR?	MUA
IF HOOD HAS MUA AIR - IS AIR COMING OUT OF PLENUM OR IS IT CLOGGED WITH DIRT?	NOT USED
ANY MISSING FILTERS (QTY/SIZE):	NO
ANY EVIDENCE OF GREASE ACCUMILATION IN OR AROUND HOOD?	NO

MFG DUO AIRE
 MODEL VAC-1-96

INSERT PICTURE / NOTES:



KH#2 LEFT	FIELD NOTES
SIZE OF HOOD (L x W)	96 X 50
LOCATION OF HOOD (IE- FRONT CHARBROILER DISPLAY HD)	DELI FRYERS RIGHT
IS HOOD EXHAUST ONLY OR EXHAUST WITH MU-AIR?	MUA
IF HOOD HAS MUA AIR - IS AIR COMING OUT OF PLENUM OR IS IT CLOGGED WITH DIRT?	NOT USED
ANY MISSING FILTERS (QTY/SIZE):	NO
ANY EVIDENCE OF GREASE ACCUMILATION IN OR AROUND HOOD?	NO

MFG DUO AIRE
 MODEL VAC-1-96

INSERT PICTURE / NOTES:



KH #2	FIELD NOTES
SIZE OF HOOD (L x W)	96 X 60
LOCATION OF HOOD (IE- FRONT CHARBROILER DISPLAY HD)	DELI OVENS
IS HOOD EXHAUST ONLY OR EXHAUST WITH MU-AIR?	EXHAUST ONLY
IF HOOD HAS MUA AIR - IS AIR COMING OUT OF PLENUM OR IS IT CLOGGED WITH DIRT?	NA
ANY MISSING FILTERS (QTY/SIZE):	NO
ANY EVIDENCE OF GREASE ACCUMILATION IN OR AROUND HOOD?	NO

MFG CAPTIVE AIRE
 MODEL 6024 ND-2

INSERT PICTURE / NOTES:



PRE-INSPECTION FUNCTION TEST

PROJECT: DILLONS 074
SYSTEM: CONDITIONS OF EXISTING HOOD SYSTEMS

KH #4	FIELD NOTES
SIZE OF HOOD (L x W)	132 X 48
LOCATION OF HOOD (IE- FRONT CHARBROILER DISPLAY HD)	DELI FRYERS BACK
IS HOOD EXHAUST ONLY OR EXHAUST WITH MU-AIR?	MUA
IF HOOD HAS MUA AIR - IS AIR COMING OUT OF PLENUM OR IS IT CLOGGED WITH DIRT?	NOT USED
ANY MISSING FILTERS (QTY/SIZE):	NO
ANY EVIDENCE OF GREASE ACCUMILATION IN OR AROUND HOOD?	NO

MFG DUO AIRE
MODEL NOT LISTED

INSERT PICTURE / NOTES:



KH #3	FIELD NOTES
SIZE OF HOOD (L x W)	59 X 60
LOCATION OF HOOD (IE- FRONT CHARBROILER DISPLAY HD)	BAKERY DOUGHNUT
IS HOOD EXHAUST ONLY OR EXHAUST WITH MU-AIR?	EXHAUST ONLY
IF HOOD HAS MUA AIR - IS AIR COMING OUT OF PLENUM OR IS IT CLOGGED WITH DIRT?	NA
ANY MISSING FILTERS (QTY/SIZE):	NO
ANY EVIDENCE OF GREASE ACCUMILATION IN OR AROUND HOOD?	NO

MFG CAPTIVE AIRE
MODEL 6024 ND-2

INSERT PICTURE / NOTES:



PROJECT DILLONS 074
 HOOD TAG DELI FRYERS RIGHT

GENERAL DATA / HOOD SUMMARY

HOOD DATA							
MODEL	DUO AIRE	EXHAUST		SUPPLY		NET	
LENGTH	96	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
WIDTH	50		2267				2267

comments:

EXHAUST READINGS

U.L. CLASSIFIED GREASE BAFFLE FILTERS					
FILTER SIZE	25X20	16x20	20x20	12x12	12x16
SQR. FT. AREA	3.42	2.08	2.68	0.83	1.16
# OF FILTERS	4				
AREA	13.68				

FIELD NOTES

TOTAL AREA	13.68												
READINGS	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	
VELOCITY R1	150	168	175	170									
VELOCITY FINAL	150	168	175	170									
AVERAGE VELOCITY	166												
EXHAUST CFM	2267												

LEAVE CELLS ABOVE BLANK IF NO READINGS ARE TAKEN (DO NOT INPUT "0")

PROJECT DILLONS 074
 HOOD TAG DELI FRYERS LEFT

GENERAL DATA / HOOD SUMMARY

HOOD DATA							
MODEL	DUO AIRE	EXHAUST		SUPPLY		NET	
LENGTH	96	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
WIDTH	50		2500				2500

comments:

EXHAUST READINGS

U.L. CLASSIFIED GREASE BAFFLE FILTERS					
FILTER SIZE	25X20	16x20	20x20	12x12	12x16
SQR. FT. AREA	3.42	2.08	2.68	0.83	1.16
# OF FILTERS	4				
AREA	13.68				

FIELD NOTES

TOTAL AREA	13.68												
READINGS	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	
VELOCITY R1	187	177	185	182									
VELOCITY FINAL	187	177	185	182									
AVERAGE VELOCITY	183												
EXHAUST CFM	2500												

LEAVE CELLS ABOVE BLANK IF NO READINGS ARE TAKEN (DO NOT INPUT "0")

PROJECT DILLONS 074
 HOOD TAG DELI FRYERS BACK

GENERAL DATA / HOOD SUMMARY

HOOD DATA							
MODEL	DUO AIRE	EXHAUST		SUPPLY		NET	
LENGTH	132	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
WIDTH	48		1822				1822

comments:

EXHAUST READINGS

U.L. CLASSIFIED GREASE BAFFLE FILTERS					
FILTER SIZE	10X20	10X16	20x20	12x12	12x16
SQR. FT. AREA	1.11	0.89	2.68	0.83	1.16
# OF FILTERS	5	2			
AREA	5.55	1.78			

FIELD NOTES

TOTAL AREA	7.33												
READINGS	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	
VELOCITY R1	227	244	231	252	249	262	275						
VELOCITY FINAL	227	244	231	252	249	262	275						
AVERAGE VELOCITY	249												
EXHAUST CFM	1822												

LEAVE CELLS ABOVE BLANK IF NO READINGS ARE TAKEN (DO NOT INPUT "0")

PROJECT DILLONS 074
 HOOD TAG DELI OVENS

GENERAL DATA / HOOD SUMMARY

HOOD DATA							
MODEL	CAPTIVE AIRE	EXHAUST		SUPPLY		NET	
LENGTH	96	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
WIDTH	60		1514				1514

comments:

EXHAUST READINGS

U.L. CLASSIFIED GREASE BAFFLE FILTERS					
FILTER SIZE	16x16	16x20	20x20	12x12	12x16
SQR. FT. AREA	1.615	2.08	2.68	0.83	1.16
# OF FILTERS	1	4			
AREA	1.62	8.32			

FIELD NOTES

READINGS	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12
VELOCITY R1	158	144	162	152	146							
VELOCITY FINAL	158	144	162	152	146							
AVERAGE VELOCITY	152											
EXHAUST CFM	1514											

LEAVE CELLS ABOVE BLANK IF NO READINGS ARE TAKEN (DO NOT INPUT "0")

PROJECT DILLONS 074
 HOOD TAG BAKERY DOUGHNUT HOOD

GENERAL DATA / HOOD SUMMARY

HOOD DATA							
MODEL	CAPTIVE AIRE	EXHAUST		SUPPLY		NET	
LENGTH	59	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
WIDTH	60						

comments:

EXHAUST READINGS

U.L. CLASSIFIED GREASE BAFFLE FILTERS					
FILTER SIZE	16x16	16x20	20x20	12x12	12x16
SQR. FT. AREA	1.615	2.08	2.68	0.83	1.16
# OF FILTERS		3			
AREA		6.24			

FIELD NOTES

HOOD NOT IN USE NO VOLTAGE

TOTAL AREA 6.24

READINGS	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12
VELOCITY R1												
VELOCITY R2												
VELOCITY R3												
VELOCITY FINAL												

AVERAGE VELOCITY
 EXHAUST CFM NR

LEAVE CELLS ABOVE BLANK IF NO READINGS ARE TAKEN (DO NOT INPUT "0")



SQUARE DUCT TRAVERSE FORM

PROJECT	DILLONS 074	SYSTEM	AHU1
LOCATION	SALINA, KS	SERVICE	MAIN SALES FLOOR
ALTITUDE	-	DENSITY	-
		FACTOR	

DUCT	REQUIRED	ACTUAL
S.P.(act)	TEMP -	SCFM -
SIZE	192 x 96	FPM 402
AREA (ft)	128	CFM 51472

DISTANCE FROM BOTTOM	POSITION	1	2	3	4	5	6	7	8	9	10	11	12
1ST	1	390	397	431	500	488	525	477	448				
	2	364	389	492	495	614	552	460	-215				
	3	480	379	537	476	616	524	474	-221				
	4	431	434	382	457	464	476	499	-347				
	5												
	6												
	7												
2ND	8												
	9												
	10												
	11												
	12												
	13												
	14												
DISTANCE FROM DUCT EDGE													
VELOCITY SUB - TOTALS													

REMARKS:



ROUND DUCT TRAVERSE FORM

PROJECT	DILLONS 074	SYSTEM	EF
LOCATION	SALINA, KS	SERVICE	BAKERY OVEN
ALTITUDE	-	DENSITY	-
		FACTOR	

DUCT	REQUIRED	ACTUAL
S.P.(act)	TEMP -	SCFM -
SIZE	9"	FPM 1490
AREA (ft)	0.441	CFM 657

DISTANCE FROM BOTTOM	POSITION	-	-	-	-	-	VERT	-	-	-	-	-
	-											
	-											
	-						1564					
	-						1548					
	-						1532					
	HORZ		1494	1486	1454		1441	1423	1426			
	-						1518					
	-						1510					
	-						1487					
	-											
	-											

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