

**Report By:**

**National TAB  
1329 E. KEMPER ROAD  
SUITE 4210  
CINCINNATI, OH 45246**

**NATIONAL**

**TAB**

Comfort. Under control.

**Report: Final Tab Report \_Test  
Function: Test, Adjust, & Balance  
Date: 8/17/2022**

**PROJECT  
07-11 CULVERS - FULSHEAR, TX**

6677 FLEWELLEN WAY

FULSHEAR, TX

**Client**

Accurex

400 Ross Ave

Schofield, WI 54476

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

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Kitchen Hood Type I	27

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5622C08920
Model Num	LGH-240-H4B	LGH240H4BS4Y
Type	-	RTU
Configuration	-	VERTICAL DISCHARGE
Num OA Filters 1	-	3
OA Filter Size 1	-	16x24
Num Final Filter 1	-	6
Final Filter Size 1	-	24x24x2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	184TZ
Horsepower	-	5
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208/230	208
Rated Amperage	-	13.8

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP50
Motor Bore Size	-	1 1/8"
Motor Sheave SetPt	-	1.0 TURN OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	20 1/2"
Num of Belts	-	1
Belt Size	-	BX61
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM	6150	5908
SF RPM	-	870
RA CFM	4400	4119
OA CFM	1750	1789
RL Voltage	-	207/209/210
RL Amperage	-	9.7/9.6/9.9
SF Rotation	-	CCW
RA Damper Position	-	66%
Min OA Damper Position	-	34%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.76"
Fan Suction SP	-	-1.02"
Fan Discharge SP	-	0.51"
Total ESP	-	1.27"
Fan Total SP	-	1.53"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

Completed By: Dan Hertenstein

Notes:

# National TAB

Project:07-11 CULVERS - FULSHEAR, TX

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU1/DINING

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	MAIN ENTRY	SD4	150	192	202	143	95.3
SGRD2	MENS RR	SD4	150	252	259	158	105.3
SGRD3	WOMENS RR	SD4	150	228	244	157	104.7
SGRD4	HALL	SD1	450	510	537	439	97.6
SGRD5	DINING	SD1	150	237	255	152	101.3
SGRD6	DINING	SD1	150	139	140	143	95.3
SGRD7	DINING	SD1	150	155	166	140	93.3
SGRD8	DINING	SD1	150	140	147	137	91.3
SGRD9	DINING	SD1	150	152	160	162	108.0
SGRD10	DINING	SD1	150	102	108	138	92.0
SGRD11	DINING	SD1	150	155	164	160	106.7
SGRD12	DINING	SD1	150	114	119	136	90.7
SGRD13	DINING	SD1	150	43	45	137	91.3
SGRD14	DRINKS & CONDIMENT S	SD1	300	253	275	305	101.7
SGRD15	SIDE ENTRY	SD1	150	249	258	157	104.7
SGRD16	CUSTOMER ORDER AREA	SD1	450	327	339	411	91.3
SGRD17	DINING	SD1	150	192	204	153	102.0
SGRD18	DINING	SD1	150	215	223	148	98.7
SGRD19	DINING	SD1	150	141	143	139	92.7
SGRD20	DINING	SD1	150	188	197	157	104.7
SGRD21	DINING	SD1	150	179	188	160	106.7
SGRD22	DINING	SD1	150	114	120	137	91.3
SGRD23	CUSTOMER SERVICE	SD1	350	328	347	322	92.0
SGRD24	CUSTOMER SERVICE	SD1	350	392	408	319	91.1
SGRD25	CUSTOMER SERVICE	SD1	350	137	144	328	93.7
SGRD26	CUSTOMER SERVICE	SD1	350	215	223	320	91.4
SGRD27	DRIVE THRU	SD1	500	256	267	461	92.2
SGRD28	OFFICE	SD1	200	176	182	189	94.5

**RTU1/DINING**

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	MAIN ENTRY	SD4	150	192	202	143	95.3
SGRD2	MENS RR	SD4	150	252	259	158	105.3
SGRD3	WOMENS RR	SD4	150	228	244	157	104.7
SGRD4	HALL	SD1	450	510	537	439	97.6
SGRD5	DINING	SD1	150	237	255	152	101.3
SGRD6	DINING	SD1	150	139	140	143	95.3
SGRD7	DINING	SD1	150	155	166	140	93.3
SGRD8	DINING	SD1	150	140	147	137	91.3
SGRD9	DINING	SD1	150	152	160	162	108.0
SGRD10	DINING	SD1	150	102	108	138	92.0
SGRD11	DINING	SD1	150	155	164	160	106.7
SGRD12	DINING	SD1	150	114	119	136	90.7
SGRD13	DINING	SD1	150	43	45	137	91.3
SGRD14	DRINKS & CONDIMENT S	SD1	300	253	275	305	101.7
SGRD15	SIDE ENTRY	SD1	150	249	258	157	104.7
SGRD16	CUSTOMER ORDER AREA	SD1	450	327	339	411	91.3
SGRD17	DINING	SD1	150	192	204	153	102.0
SGRD18	DINING	SD1	150	215	223	148	98.7
SGRD19	DINING	SD1	150	141	143	139	92.7
SGRD20	DINING	SD1	150	188	197	157	104.7
SGRD21	DINING	SD1	150	179	188	160	106.7
SGRD22	DINING	SD1	150	114	120	137	91.3
SGRD23	CUSTOMER SERVICE	SD1	350	328	347	322	92.0
SGRD24	CUSTOMER SERVICE	SD1	350	392	408	319	91.1
SGRD25	CUSTOMER SERVICE	SD1	350	137	144	328	93.7
SGRD26	CUSTOMER SERVICE	SD1	350	215	223	320	91.4
SGRD27	DRIVE THRU	SD1	500	256	267	461	92.2
SGRD28	OFFICE	SD1	200	176	182	189	94.5

**Diffuser Supply (GRD)**

**RTU1/DINING**

<b>Asset</b>							
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>DESIGN CFM</b>	<b>CFM(1)</b>	<b>CFM(2)</b>	<b>FINAL CFM</b>	<b>% to design</b>
SGRD1	MAIN ENTRY	SD4	150	192	202	143	95.3
SGRD2	MENS RR	SD4	150	252	259	158	105.3
SGRD3	WOMENS RR	SD4	150	228	244	157	104.7
SGRD4	HALL	SD1	450	510	537	439	97.6
SGRD5	DINING	SD1	150	237	255	152	101.3
SGRD6	DINING	SD1	150	139	140	143	95.3
SGRD7	DINING	SD1	150	155	166	140	93.3
SGRD8	DINING	SD1	150	140	147	137	91.3
SGRD9	DINING	SD1	150	152	160	162	108.0
SGRD10	DINING	SD1	150	102	108	138	92.0
SGRD11	DINING	SD1	150	155	164	160	106.7
SGRD12	DINING	SD1	150	114	119	136	90.7
SGRD13	DINING	SD1	150	43	45	137	91.3
SGRD14	DRINKS & CONDIMENT S	SD1	300	253	275	305	101.7
SGRD15	SIDE ENTRY	SD1	150	249	258	157	104.7
SGRD16	CUSTOMER ORDER AREA	SD1	450	327	339	411	91.3
SGRD17	DINING	SD1	150	192	204	153	102.0
SGRD18	DINING	SD1	150	215	223	148	98.7
SGRD19	DINING	SD1	150	141	143	139	92.7
SGRD20	DINING	SD1	150	188	197	157	104.7
SGRD21	DINING	SD1	150	179	188	160	106.7
SGRD22	DINING	SD1	150	114	120	137	91.3
SGRD23	CUSTOMER SERVICE	SD1	350	328	347	322	92.0
SGRD24	CUSTOMER SERVICE	SD1	350	392	408	319	91.1
SGRD25	CUSTOMER SERVICE	SD1	350	137	144	328	93.7
SGRD26	CUSTOMER SERVICE	SD1	350	215	223	320	91.4
SGRD27	DRIVE THRU	SD1	500	256	267	461	92.2
SGRD28	OFFICE	SD1	200	176	182	189	94.5

**RTU1/DINING**

<b>Asset</b>							
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>DESIGN CFM</b>	<b>CFM(1)</b>	<b>CFM(2)</b>	<b>FINAL CFM</b>	<b>% to design</b>
SGRD1	MAIN ENTRY	SD4	150	192	202	143	95.3
SGRD2	MENS RR	SD4	150	252	259	158	105.3
SGRD3	WOMENS RR	SD4	150	228	244	157	104.7
SGRD4	HALL	SD1	450	510	537	439	97.6
SGRD5	DINING	SD1	150	237	255	152	101.3
SGRD6	DINING	SD1	150	139	140	143	95.3
SGRD7	DINING	SD1	150	155	166	140	93.3
SGRD8	DINING	SD1	150	140	147	137	91.3
SGRD9	DINING	SD1	150	152	160	162	108.0
SGRD10	DINING	SD1	150	102	108	138	92.0
SGRD11	DINING	SD1	150	155	164	160	106.7
SGRD12	DINING	SD1	150	114	119	136	90.7
SGRD13	DINING	SD1	150	43	45	137	91.3
SGRD14	DRINKS & CONDIMENT S	SD1	300	253	275	305	101.7
SGRD15	SIDE ENTRY	SD1	150	249	258	157	104.7
SGRD16	CUSTOMER ORDER AREA	SD1	450	327	339	411	91.3
SGRD17	DINING	SD1	150	192	204	153	102.0
SGRD18	DINING	SD1	150	215	223	148	98.7
SGRD19	DINING	SD1	150	141	143	139	92.7
SGRD20	DINING	SD1	150	188	197	157	104.7
SGRD21	DINING	SD1	150	179	188	160	106.7
SGRD22	DINING	SD1	150	114	120	137	91.3
SGRD23	CUSTOMER SERVICE	SD1	350	328	347	322	92.0
SGRD24	CUSTOMER SERVICE	SD1	350	392	408	319	91.1
SGRD25	CUSTOMER SERVICE	SD1	350	137	144	328	93.7
SGRD26	CUSTOMER SERVICE	SD1	350	215	223	320	91.4
SGRD27	DRIVE THRU	SD1	500	256	267	461	92.2
SGRD28	OFFICE	SD1	200	176	182	189	94.5

Completed By: Dan Hertenstein on

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5622C08912
Model Num	LGH-240-H4B	LGH240H4BS4Y
Type	-	RTU
Configuration	-	VERTICAL DISCHARGE
Num OA Filters 1	-	3
OA Filter Size 1	-	16x24
Num Final Filter 1	-	6
Final Filter Size 1	-	24x24x2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	184TZ
Horsepower	-	5
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208/230	208
Rated Amperage	-	13.8

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP50
Motor Bore Size	-	1 1/8"
Motor Sheave SetPt	-	1.0 TURN OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	20 1/2"
Num of Belts	-	1
Belt Size	-	BX61
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM	6225	5849
SF RPM	-	871
RA CFM	4525	4102
OA CFM	1700	1747
RL Voltage	-	209/210/211
RL Amperage	-	9.0/9.0/9.3
SF Rotation	-	CCW
RA Damper Position	-	68%
Min OA Damper Position	-	32%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.82"
Fan Suction SP	-	-1.09"
Fan Discharge SP	-	0.53"
Total ESP	-	1.35"
Fan Total SP	-	1.62"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

Completed By: Wesley John

Notes:

# National TAB

Project:07-11 CULVERS - FULSHEAR, TX

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU2/KITCHEN

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SUNDAE SERVICE	SD1	600	421	450	572	95.3
SGRD2	SUNDAE SERVICE	SD1	600	399	453	556	92.7
SGRD3	COOKLINE	SD5	275	246	279	269	97.8
SGRD4	COOKLINE	SD5	250	146	154	234	93.6
SGRD5	FOOD PREP	SD5	400	421	449	387	96.8
SGRD6	FOOD PREP	SD5	400	147	161	381	95.3
SGRD7	COOKLINE	SD5	375	72	80	348	92.8
SGRD8	COOKLINE	SD5	200	546	583	188	94.0
SGRD9	FOOD PREP	SD5	350	508	546	342	97.7
SGRD10	DISHWASHING	SD5	350	684	735	330	94.3
SGRD11	DISHWASHING	SD5	350	413	443	329	94.0
SGRD12	EMPLOYEE RR	SD4	75	90	101	72	96.0
SGRD13	DRY GOODS	SD1	600	241	261	549	91.5
SGRD14	DRY GOODS	SD1	200	332	373	189	94.5
SGRD15	DRY GOODS	SD1	600	381	426	556	92.7
SGRD16	UTILITY ROOM	SD1	600	302	385	547	91.2

Completed By: Brianna Biggs on

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU4

AREA:

Unit Data		
	Design	Actual
MFG	ZZ	ZZ
Serial Num	-	
Model Num	ZZZ	ZZZ
Type	-	
Configuration	-	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	
Belt Alignment	-	

Test Data		
	Design	Actual
SF CFM	-	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	
Unit Filters Clean	-	
Condensate Drain Installed	-	

Completed By: Dan Hertenstein

Notes:

# National TAB

Project:07-11 CULVERS - FULSHEAR, TX

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU4/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU3-SGRD1									
AHU3-SGRD2									
AHU3-SGRD3									
AHU3-SGRD4									

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# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5622C08920
Model Num	LGH-240-H4B	LGH240H4BS4Y
Type	-	RTU
Configuration	-	VERTICAL DISCHARGE
Num OA Filters 1	-	3
OA Filter Size 1	-	16x24
Num Final Filter 1	-	6
Final Filter Size 1	-	24x24x2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	184TZ
Horsepower	-	5
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208/230	208
Rated Amperage	-	13.8

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP50
Motor Bore Size	-	1 1/8"
Motor Sheave SetPt	-	1.0 TURN OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	20 1/2"
Num of Belts	-	1
Belt Size	-	BX61
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM	6150	5908
SF RPM	-	870
RA CFM	4400	4119
OA CFM	1750	1789
RL Voltage	-	207/209/210
RL Amperage	-	9.7/9.6/9.9
SF Rotation	-	CCW
RA Damper Position	-	66%
Min OA Damper Position	-	34%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.76"
Fan Suction SP	-	-1.02"
Fan Discharge SP	-	0.51"
Total ESP	-	1.27"
Fan Total SP	-	1.53"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

Completed By: Dan Hertenstein

Notes:

# National TAB

Project:07-11 CULVERS - FULSHEAR, TX

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU1/DINING

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	MAIN ENTRY	SD4	150	192	202	143	95.3
SGRD2	MENS RR	SD4	150	252	259	158	105.3
SGRD3	WOMENS RR	SD4	150	228	244	157	104.7
SGRD4	HALL	SD1	450	510	537	439	97.6
SGRD5	DINING	SD1	150	237	255	152	101.3
SGRD6	DINING	SD1	150	139	140	143	95.3
SGRD7	DINING	SD1	150	155	166	140	93.3
SGRD8	DINING	SD1	150	140	147	137	91.3
SGRD9	DINING	SD1	150	152	160	162	108.0
SGRD10	DINING	SD1	150	102	108	138	92.0
SGRD11	DINING	SD1	150	155	164	160	106.7
SGRD12	DINING	SD1	150	114	119	136	90.7
SGRD13	DINING	SD1	150	43	45	137	91.3
SGRD14	DRINKS & CONDIMENT S	SD1	300	253	275	305	101.7
SGRD15	SIDE ENTRY	SD1	150	249	258	157	104.7
SGRD16	CUSTOMER ORDER AREA	SD1	450	327	339	411	91.3
SGRD17	DINING	SD1	150	192	204	153	102.0
SGRD18	DINING	SD1	150	215	223	148	98.7
SGRD19	DINING	SD1	150	141	143	139	92.7
SGRD20	DINING	SD1	150	188	197	157	104.7
SGRD21	DINING	SD1	150	179	188	160	106.7
SGRD22	DINING	SD1	150	114	120	137	91.3
SGRD23	CUSTOMER SERVICE	SD1	350	328	347	322	92.0
SGRD24	CUSTOMER SERVICE	SD1	350	392	408	319	91.1
SGRD25	CUSTOMER SERVICE	SD1	350	137	144	328	93.7
SGRD26	CUSTOMER SERVICE	SD1	350	215	223	320	91.4
SGRD27	DRIVE THRU	SD1	500	256	267	461	92.2
SGRD28	OFFICE	SD1	200	176	182	189	94.5

**RTU1/DINING**

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	MAIN ENTRY	SD4	150	192	202	143	95.3
SGRD2	MENS RR	SD4	150	252	259	158	105.3
SGRD3	WOMENS RR	SD4	150	228	244	157	104.7
SGRD4	HALL	SD1	450	510	537	439	97.6
SGRD5	DINING	SD1	150	237	255	152	101.3
SGRD6	DINING	SD1	150	139	140	143	95.3
SGRD7	DINING	SD1	150	155	166	140	93.3
SGRD8	DINING	SD1	150	140	147	137	91.3
SGRD9	DINING	SD1	150	152	160	162	108.0
SGRD10	DINING	SD1	150	102	108	138	92.0
SGRD11	DINING	SD1	150	155	164	160	106.7
SGRD12	DINING	SD1	150	114	119	136	90.7
SGRD13	DINING	SD1	150	43	45	137	91.3
SGRD14	DRINKS & CONDIMENT S	SD1	300	253	275	305	101.7
SGRD15	SIDE ENTRY	SD1	150	249	258	157	104.7
SGRD16	CUSTOMER ORDER AREA	SD1	450	327	339	411	91.3
SGRD17	DINING	SD1	150	192	204	153	102.0
SGRD18	DINING	SD1	150	215	223	148	98.7
SGRD19	DINING	SD1	150	141	143	139	92.7
SGRD20	DINING	SD1	150	188	197	157	104.7
SGRD21	DINING	SD1	150	179	188	160	106.7
SGRD22	DINING	SD1	150	114	120	137	91.3
SGRD23	CUSTOMER SERVICE	SD1	350	328	347	322	92.0
SGRD24	CUSTOMER SERVICE	SD1	350	392	408	319	91.1
SGRD25	CUSTOMER SERVICE	SD1	350	137	144	328	93.7
SGRD26	CUSTOMER SERVICE	SD1	350	215	223	320	91.4
SGRD27	DRIVE THRU	SD1	500	256	267	461	92.2
SGRD28	OFFICE	SD1	200	176	182	189	94.5

**Diffuser Supply (GRD)**

**RTU1/DINING**

<b>Asset</b>							
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>DESIGN CFM</b>	<b>CFM(1)</b>	<b>CFM(2)</b>	<b>FINAL CFM</b>	<b>% to design</b>
SGRD1	MAIN ENTRY	SD4	150	192	202	143	95.3
SGRD2	MENS RR	SD4	150	252	259	158	105.3
SGRD3	WOMENS RR	SD4	150	228	244	157	104.7
SGRD4	HALL	SD1	450	510	537	439	97.6
SGRD5	DINING	SD1	150	237	255	152	101.3
SGRD6	DINING	SD1	150	139	140	143	95.3
SGRD7	DINING	SD1	150	155	166	140	93.3
SGRD8	DINING	SD1	150	140	147	137	91.3
SGRD9	DINING	SD1	150	152	160	162	108.0
SGRD10	DINING	SD1	150	102	108	138	92.0
SGRD11	DINING	SD1	150	155	164	160	106.7
SGRD12	DINING	SD1	150	114	119	136	90.7
SGRD13	DINING	SD1	150	43	45	137	91.3
SGRD14	DRINKS & CONDIMENT S	SD1	300	253	275	305	101.7
SGRD15	SIDE ENTRY	SD1	150	249	258	157	104.7
SGRD16	CUSTOMER ORDER AREA	SD1	450	327	339	411	91.3
SGRD17	DINING	SD1	150	192	204	153	102.0
SGRD18	DINING	SD1	150	215	223	148	98.7
SGRD19	DINING	SD1	150	141	143	139	92.7
SGRD20	DINING	SD1	150	188	197	157	104.7
SGRD21	DINING	SD1	150	179	188	160	106.7
SGRD22	DINING	SD1	150	114	120	137	91.3
SGRD23	CUSTOMER SERVICE	SD1	350	328	347	322	92.0
SGRD24	CUSTOMER SERVICE	SD1	350	392	408	319	91.1
SGRD25	CUSTOMER SERVICE	SD1	350	137	144	328	93.7
SGRD26	CUSTOMER SERVICE	SD1	350	215	223	320	91.4
SGRD27	DRIVE THRU	SD1	500	256	267	461	92.2
SGRD28	OFFICE	SD1	200	176	182	189	94.5

**RTU1/DINING**

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	MAIN ENTRY	SD4	150	192	202	143	95.3
SGRD2	MENS RR	SD4	150	252	259	158	105.3
SGRD3	WOMENS RR	SD4	150	228	244	157	104.7
SGRD4	HALL	SD1	450	510	537	439	97.6
SGRD5	DINING	SD1	150	237	255	152	101.3
SGRD6	DINING	SD1	150	139	140	143	95.3
SGRD7	DINING	SD1	150	155	166	140	93.3
SGRD8	DINING	SD1	150	140	147	137	91.3
SGRD9	DINING	SD1	150	152	160	162	108.0
SGRD10	DINING	SD1	150	102	108	138	92.0
SGRD11	DINING	SD1	150	155	164	160	106.7
SGRD12	DINING	SD1	150	114	119	136	90.7
SGRD13	DINING	SD1	150	43	45	137	91.3
SGRD14	DRINKS & CONDIMENT S	SD1	300	253	275	305	101.7
SGRD15	SIDE ENTRY	SD1	150	249	258	157	104.7
SGRD16	CUSTOMER ORDER AREA	SD1	450	327	339	411	91.3
SGRD17	DINING	SD1	150	192	204	153	102.0
SGRD18	DINING	SD1	150	215	223	148	98.7
SGRD19	DINING	SD1	150	141	143	139	92.7
SGRD20	DINING	SD1	150	188	197	157	104.7
SGRD21	DINING	SD1	150	179	188	160	106.7
SGRD22	DINING	SD1	150	114	120	137	91.3
SGRD23	CUSTOMER SERVICE	SD1	350	328	347	322	92.0
SGRD24	CUSTOMER SERVICE	SD1	350	392	408	319	91.1
SGRD25	CUSTOMER SERVICE	SD1	350	137	144	328	93.7
SGRD26	CUSTOMER SERVICE	SD1	350	215	223	320	91.4
SGRD27	DRIVE THRU	SD1	500	256	267	461	92.2
SGRD28	OFFICE	SD1	200	176	182	189	94.5

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# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5622C08912
Model Num	LGH-240-H4B	LGH240H4BS4Y
Type	-	RTU
Configuration	-	VERTICAL DISCHARGE
Num OA Filters 1	-	3
OA Filter Size 1	-	16x24
Num Final Filter 1	-	6
Final Filter Size 1	-	24x24x2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	184TZ
Horsepower	-	5
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208/230	208
Rated Amperage	-	13.8

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP50
Motor Bore Size	-	1 1/8"
Motor Sheave SetPt	-	1.0 TURN OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	20 1/2"
Num of Belts	-	1
Belt Size	-	BX61
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM	6225	5849
SF RPM	-	871
RA CFM	4525	4102
OA CFM	1700	1747
RL Voltage	-	209/210/211
RL Amperage	-	9.0/9.0/9.3
SF Rotation	-	CCW
RA Damper Position	-	68%
Min OA Damper Position	-	32%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.82"
Fan Suction SP	-	-1.09"
Fan Discharge SP	-	0.53"
Total ESP	-	1.35"
Fan Total SP	-	1.62"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

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Notes:

# National TAB

Project:07-11 CULVERS - FULSHEAR, TX

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU2/KITCHEN

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SUNDAE SERVICE	SD1	600	421	450	572	95.3
SGRD2	SUNDAE SERVICE	SD1	600	399	453	556	92.7
SGRD3	COOKLINE	SD5	275	246	279	269	97.8
SGRD4	COOKLINE	SD5	250	146	154	234	93.6
SGRD5	FOOD PREP	SD5	400	421	449	387	96.8
SGRD6	FOOD PREP	SD5	400	147	161	381	95.3
SGRD7	COOKLINE	SD5	375	72	80	348	92.8
SGRD8	COOKLINE	SD5	200	546	583	188	94.0
SGRD9	FOOD PREP	SD5	350	508	546	342	97.7
SGRD10	DISHWASHING	SD5	350	684	735	330	94.3
SGRD11	DISHWASHING	SD5	350	413	443	329	94.0
SGRD12	EMPLOYEE RR	SD4	75	90	101	72	96.0
SGRD13	DRY GOODS	SD1	600	241	261	549	91.5
SGRD14	DRY GOODS	SD1	200	332	373	189	94.5
SGRD15	DRY GOODS	SD1	600	381	426	556	92.7
SGRD16	UTILITY ROOM	SD1	600	302	385	547	91.2

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# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU4

AREA:

Unit Data		
	Design	Actual
MFG	ZZ	ZZ
Serial Num	-	
Model Num	ZZZ	ZZZ
Type	-	
Configuration	-	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	
Belt Alignment	-	

Test Data		
	Design	Actual
SF CFM	-	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	
Unit Filters Clean	-	
Condensate Drain Installed	-	

Completed By: Dan Hertenstein

Notes:

# National TAB

Project:07-11 CULVERS - FULSHEAR, TX

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU4/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU3-SGRD1									
AHU3-SGRD2									
AHU3-SGRD3									
AHU3-SGRD4									

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# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-A1

AREA:MOP ROOM

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XCR-B80	XCR-B80
<b>Serial Num</b>	-	19862130
<b>Type</b>	CEILING	CENTRIFUGAL
<b>Configuration</b>	VERTICAL	CEILING

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	GREENHECK
<b>Frame</b>	-	NL
<b>Horsepower</b>	-	NL
<b>Motor Rpm</b>	900	900
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	115	115
<b>Amperage (rated)</b>	-	0.16
<b>Service Factor</b>	-	NL

Test Data		
	Design	Actual
<b>CFM</b>	75	69
<b>Fan RPM</b>	885	900
<b>Fan Rotation</b>	-	CW
<b>Motor RPM</b>	-	900
<b>System SetPt</b>	-	MEDIUM
<b>RL Voltage</b>	-	117
<b>RL Amperage</b>	-	0.11
<b>Total ESP</b>	0.125"	NA
<b>Fan Inlet SP</b>	-	N/A

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Notes:

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-A1

AREA:EMPLOYEE RESTROOM

Unit Data		
	Design	Actual
MFG	ACCUREX	BROAN
Model Num	XCR-B80	AE80BL-B
Serial Num	-	NL
Type	CEILING	CENTRIFUGAL
Configuration	VERTICAL	CEILING

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	900	NL
Phase	1	1
Voltage (rated)	115	120
Amperage (rated)	-	0.5
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	75	73
Fan RPM	885	DIRECT DRIVE
Fan Rotation	-	CW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	SINGLE SPEED
RL Voltage	-	118
RL Amperage	-	0.34
Total ESP	0.125"	N/A
Fan Inlet SP	-	NA

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Notes:

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV1

AREA:RESTROOM

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XRED-095-D	XRED-090-VG-1-17-X
<b>Serial Num</b>	-	19872570
<b>Type</b>	DOWNBLAST	CENTRIFUGAL
<b>Configuration</b>	HORIZONTAL	DOWNBLAST

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	BROAD-OCEAN
<b>Frame</b>	-	NL
<b>Horsepower</b>	0.0667	0.10
<b>Motor Rpm</b>	1550	1750
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	115	115
<b>Amperage (rated)</b>	-	1.38
<b>Service Factor</b>	-	NL

Test Data		
	Design	Actual
<b>CFM</b>	300	285
<b>Fan RPM</b>	1479	DIRECT DRIVE
<b>Fan Rotation</b>	-	CW
<b>Motor RPM</b>	-	DIRECT DRIVE
<b>System SetPt</b>	-	6/10
<b>RL Voltage</b>	-	119
<b>RL Amperage</b>	-	1.0
<b>Total ESP</b>	0.5"	0.32"
<b>Fan Inlet SP</b>	-	-0.32"
<b>Fan Discharge SP</b>	-	ATM

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Notes:

# National TAB

Project:07-11 CULVERS - FULSHEAR, TX

## FAN - Exhaust



Comfort. Under control.

### Diffuser Ret/Exh (GRD)

#### PRV1/RESTROOM

Asset							
Asset Name	Location	Size	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	MENS RR	10X10	150	152	222	140	93.3
EGRD2	WOMENS RR	10X10	150	303	234	145	96.7

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# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV2

AREA:HD1 GRIDDLE

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XRUB-160XP-15	XRUB-160XP-15-1-26-G
<b>Serial Num</b>	-	19873047
<b>Type</b>	UPLBAST	CENTRIFUGAL
<b>Configuration</b>	VERTICAL	UPBLAST

Test Data		
	Design	Actual
<b>CFM</b>	1500	1579
<b>Fan RPM</b>	2411	2277
<b>Fan Rotation</b>	-	CW
<b>Motor RPM</b>	-	1772
<b>RL Voltage</b>	-	213/211/211
<b>RL Amperage</b>	-	3.7/3.5/3.5
<b>Suction ESP</b>	-	-2.04"
<b>Discharge ESP</b>	-	ATM
<b>Total ESP</b>	2.337"	2.04"

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	WEG
<b>Frame</b>	-	NA
<b>Horsepower</b>	1.5	1.5
<b>Motor Rpm</b>	1725	1725
<b>Phase</b>	3	3
<b>Voltage (rated)</b>	208	208
<b>Amperage (rated)</b>	-	NA
<b>Service Factor</b>	-	NA

Drive Data		
	Design	Actual
<b>Motor Sheave Size</b>	-	4"
<b>Motor Bore Size</b>	-	5/8"
<b>Motor Sheave SetPt</b>	-	1.0 TURN OPEN
<b>Fan Sheave Size</b>	-	AK30
<b>Fan Sheave Bore</b>	-	1"
<b>Belt CL Distance</b>	-	6 1/4"
<b>Num of Belts</b>	-	1
<b>Belt Size</b>	-	AX24

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Notes:

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV3

AREA:HD2 FRYER

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XRUB-140-7	XRUB-140-7-1-26-G
<b>Serial Num</b>	-	19873403
<b>Type</b>	UPBLAST	CENTRIFUGAL
<b>Configuration</b>	VERTICAL	UPBLAST

Test Data		
	Design	Actual
<b>CFM</b>	1500	1607
<b>Fan RPM</b>	1377	1013
<b>Fan Rotation</b>	-	CW
<b>Motor RPM</b>	-	1783
<b>RL Voltage</b>	-	213/212/211
<b>RL Amperage</b>	-	1.5/1.7/1.8
<b>Suction ESP</b>	-	-0.83"
<b>Discharge ESP</b>	-	ATM
<b>Total ESP</b>	1.0"	0.83"

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	WEG
<b>Frame</b>	-	56
<b>Horsepower</b>	0.75	0.75
<b>Motor Rpm</b>	1725	1725
<b>Phase</b>	3	3
<b>Voltage (rated)</b>	208	208
<b>Amperage (rated)</b>	-	2.54
<b>Service Factor</b>	-	1.00

Drive Data		
	Design	Actual
<b>Motor Sheave Size</b>	-	VP34
<b>Motor Bore Size</b>	-	5/8"
<b>Motor Sheave SetPt</b>	-	5.0 TURNS OPEN
<b>Fan Sheave Size</b>	-	AK41
<b>Fan Sheave Bore</b>	-	3/4"
<b>Belt CL Distance</b>	-	5"
<b>Num of Belts</b>	-	1
<b>Belt Size</b>	-	AP23

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Notes:

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

## System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD1

AREA:GRIDDLE

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XGEP-64-S	XGEP-64.00-S
Job / Serial Num	-	19856085
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	64"	64
Hood Width	23"	23

Test Data Exhaust		
	Design	Actual
Filter Type	GREASE GRABBER	GREASE GRABBER
Filter Size 1	16X16	16x16
Filter Qty 1	4	4
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	6.12	6.12
Filter1 FPM	-	301
Filter2 FPM	-	218
Filter3 FPM	-	230
Filter4 FPM	-	283
Filter Ave FPM(corr)	-	258
CFM	-	1579

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE

Completed By: Wesley John

Notes:

Performance Data		
	Design	Actual
Smoke Generation Type	-	45 SECOND SMOKE CARTRIDGE
Hood Capture %	-	100
End Panels Installed (Y/N)	-	YES

General		
	Design	Actual
Third Party Witness	-	ROB BRUSS
Third Party Company	-	CAMPBELL CONSTRUCTION
Tech Witness	-	WESLEY JOHN

# National TAB

Project: 07-11 CULVERS - FULSHEAR, TX

## System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD2

AREA:FRYER

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEP-83-S	XXEP-83.00-S
Job / Serial Num	-	19856078
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	83"	83
Hood Width	23"	23

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X16	16x16
Filter Qty 1	5	5
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	7.65	7.65
Filter1 FPM	-	230
Filter2 FPM	-	199
Filter3 FPM	-	193
Filter4 FPM	-	191
Filter5 FPM	-	238
Filter Ave FPM(corr)	-	210
CFM	-	1607

Cooking Equipment		
	Design	Actual
Item 1	-	FRYERS

Performance Data		
	Design	Actual
Smoke Generation Type	-	45 SECOND SMOKE CARTRIDGE
Hood Capture %	-	100
End Panels Installed (Y/N)	-	YES

General		
	Design	Actual
Third Party Witness	-	ROB BRUSS
Third Party Company	-	CAMPBELL CONSTRUCTION
Tech Witness	-	WESLEY JOHN

Completed By: Wesley John

Notes: