

Report By:

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

NATIONAL

TAB

Comfort. Under control.

**Report: (FPT) - Electrical
Function: Commissioning
Date: 6/13/2022**

PROJECT

05-09 Shake Shack #1352 (Chesterfield, MO) COMMISSIONING

17312 Chesterfield Airport Road

Chesterfield, MO 63005

Client

Shake Shack
24 Union Square East, 5th Fl
New York, NY 10003



National TAB

Project: 05-09 Shake Shack #1352 (Chesterfield, MO) COMMISSIONING

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05-09 Shake Shack #1352 (Chesterfield, MO) COMMISSIONING

Project Issue Information

Issue Name : DOAS power convenience outlet not wired

Description : Power outlet for DOAS is not powered. This is not a integrated power supply provided by CAS, it requires a separate 20 amp/120v circuit. This circuit is not provided on the panel design label

Created By : National TAB

Assigned To : Akron Electric - Patrick Clancy

Status : Open

Originated Date : 06/13/2022 - Dan Hertenstein - National TAB

Project Issue File Details



Convenienceoutlet.jpeg



Nopowerconvoutlet.jpeg





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05-09 Shake Shack #1352 (Chesterfield, MO) COMMISSIONING

Project Issue Information

Issue Name : EC Fry line dead outlet

Description : EC Fry line dead outlet, exterior wall third outlet no power indicated

Created By : National TAB

Assigned To : Akron Electric - Patrick Clancy

Status : Open

Originated Date : 05/23/2022 - Dan Hertenstein - National TAB

Project Issue Response Details

- **06/06/2022** **National TAB - Travis Halter**
 - Checked again, no power still





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05-09 Shake Shack #1352 (Chesterfield, MO) COMMISSIONING

Project Issue Information

Issue Name : GFI not resetting
Description : GFI not resetting: FRYER line interior wall GFI not resetting after trip test. Repair and validate ALL cookline GFI's will reset properly
Created By : National TAB **Assigned To :** Akron Electric - Patrick Clancy
Status : Open
Originated Date : 05/23/2022 - Dan Hertenstein - National TAB

Project Issue File Details



GFIoutlet.jpeg



Frylinelocation.jpeg

Project Issue Response Details

- **06/06/2022** National TAB - Travis Halter
 - GFI still does not reset, tested power as well in case. No power detected.





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05-09 Shake Shack #1352 (Chesterfield, MO) COMMISSIONING

CheckList Information

Name : (FPT) - Electrical Panels and Outlet Test **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

Breaker Panel MP Phase Loading Matches Design

Panel layout deviation as shown on details. Phase balance remains the same, electrician eliminated multiple exterior/parking light individual circuits and replaced with a single breaker. Electrician to validate VA of this circuit to confirm the updated panel installation



MP_parking_lot_breaker.PNG

PANELBOARD: MDP		FEED FROM SERVICE DISCONNECT		EQUIPMENT GROUND BUS					
BUS BARS: 800A		AC: 480V		AC: 480V MINIMUM FULLY RATED					
MAIN DISCONNECT: BREAKER		SERIES SHUNT SWITCH		GROUNDING BONDING					
VOLTAGE: 480V 3PH 4W		MOUNTING: RACK MOUNT		LOCATION: BACK OF HOUSE					
SECTION 1									
CIRCUIT NO.	DESCRIPTION	VOLT/AMPS/PHASE			VOLT/AMPS/PHASE			DESCRIPTION	CIRCUIT NO.
		V	A	PH	V	A	PH		
1	MP	480	7.68	3	100	0A	21.36	PANEL PT	1
2	MP	480	0.0A	3	100	0A	0.00		2
3	MP	480	0.0A	3	100	0A	0.00		3
4	MP	480	0.0A	3	100	0A	0.00		4
5	MP	480	0.0A	3	100	0A	0.00		5
6	MP	480	0.0A	3	100	0A	0.00		6
7	MP	480	0.0A	3	100	0A	0.00		7
8	MP	480	0.0A	3	100	0A	0.00		8
9	MP	480	0.0A	3	100	0A	0.00		9
10	MP	480	0.0A	3	100	0A	0.00		10
11	MP	480	0.0A	3	100	0A	0.00		11
12	MP	480	0.0A	3	100	0A	0.00		12
13	MP	480	0.0A	3	100	0A	0.00		13
14	MP	480	0.0A	3	100	0A	0.00		14
15	MP	480	0.0A	3	100	0A	0.00		15
16	MP	480	0.0A	3	100	0A	0.00		16
17	MP	480	0.0A	3	100	0A	0.00		17
18	MP	480	0.0A	3	100	0A	0.00		18
19	MP	480	0.0A	3	100	0A	0.00		19
20	MP	480	0.0A	3	100	0A	0.00		20
21	MP	480	0.0A	3	100	0A	0.00		21
22	MP	480	0.0A	3	100	0A	0.00		22
23	MP	480	0.0A	3	100	0A	0.00		23
24	MP	480	0.0A	3	100	0A	0.00		24
25	MP	480	0.0A	3	100	0A	0.00		25
26	MP	480	0.0A	3	100	0A	0.00		26
27	MP	480	0.0A	3	100	0A	0.00		27
28	MP	480	0.0A	3	100	0A	0.00		28
29	MP	480	0.0A	3	100	0A	0.00		29
30	MP	480	0.0A	3	100	0A	0.00		30
31	MP	480	0.0A	3	100	0A	0.00		31
32	MP	480	0.0A	3	100	0A	0.00		32
33	MP	480	0.0A	3	100	0A	0.00		33
34	MP	480	0.0A	3	100	0A	0.00		34
35	MP	480	0.0A	3	100	0A	0.00		35
36	MP	480	0.0A	3	100	0A	0.00		36
37	MP	480	0.0A	3	100	0A	0.00		37
38	MP	480	0.0A	3	100	0A	0.00		38
39	MP	480	0.0A	3	100	0A	0.00		39
40	MP	480	0.0A	3	100	0A	0.00		40
41	MP	480	0.0A	3	100	0A	0.00		41
42	MP	480	0.0A	3	100	0A	0.00		42
SUBTOTAL		480	16.32	3	100	0A	41.36		
TOTAL PHASE A - VA		480	16.32	3	100	0A	41.36		
TOTAL PHASE B - VA		480	0.00	3	100	0A	0.00		
TOTAL PHASE C - VA		480	0.00	3	100	0A	0.00		
TOTAL PHASE - VA		480	16.32	3	100	0A	41.36		

MDPPANELASDESIGNED.PNG

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18	MP	480	0.0A	3	100	0A	0.00		18
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20	MP	480	0.0A	3	100	0A	0.00		20
21	MP	480	0.0A	3	100	0A	0.00		21
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23	MP	480	0.0A	3	100	0A	0.00		23
24	MP	480	0.0A	3	100	0A	0.00		24
25	MP	480	0.0A	3	100	0A	0.00		25
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27	MP	480	0.0A	3	100	0A	0.00		27
28	MP	480	0.0A	3	100	0A	0.00		28
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35	MP	480	0.0A	3	100	0A	0.00		35
36	MP	480	0.0A	3	100	0A	0.00		36
37	MP	480	0.0A	3	100	0A	0.00		37
38	MP	480	0.0A	3	100	0A	0.00		38
39	MP	480	0.0A	3	100	0A	0.00		39
40	MP	480	0.0A	3	100	0A	0.00		40
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42	MP	480	0.0A	3	100	0A	0.00		42
SUBTOTAL		480	16.32	3	100	0A	41.36		
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TOTAL PHASE B - VA		480	0.00	3	100	0A	0.00		
TOTAL PHASE C - VA		480	0.00	3	100	0A	0.00		
TOTAL PHASE - VA		480	16.32	3	100	0A	41.36		

MDPPANELASBUILT.PNG

Final MP Panel Breaker Labels are complete and installed in the MP panel interior door **Yes**

Breaker Panel P1 Phase Loading Matches Design **Yes, with exception to breaker 39. Designed as Beer system Recpt. Installed as Spare. The Beer System Recpt breaker is not installed in any other slot of Panel P1**



panel_P1_design_wmarkup.PNG

Panel_P1_as_built_labels.PNG

Final P1 Panel Breaker Labels are complete and installed in the P1 panel interior door **Yes**

Breaker Panel P2 Phase Loading Matches Design **Not defined. New equipment added with VA unknown. Electrician should provide new phase / load updates to indicate proper balancing and panel total demand Breaker 61 changed from counter freezer to spare: Breaker 62 changed from Spare to Prep Refrig: Breaker 42-44 conveyor toaster 1 moved to Breaker 79-81: Breaker 75-78 changed from spare to Walk-In Freezer Evap.**

new phase load calc's needed

panel_P2_designed_labels.PNG

panel_P2_as_built_labels.PNG

Final P2 Panel Breaker Labels are complete and installed in the P2 panel interior door **Yes**

(SPD) Surge protector device is installed with maximum surge current capability: Service entrance switch boards, switchgear: 240 KA; Distribution panels, panelboards used for service entrance & MCC: 120 KA; branch panel boards: 80KA **Yes**





Onoffsirgectrlnote.jpeg



120KA.jpeg



Surgeprotector.jpeg

(SPD) Transient counter: A transient voltage surge counter shall be included to totalize transient voltage surges which deviate from the sine wave envelope by more than 125v. The readout shall be at least a six digit LCD located on the units hinged front cover

Yes

(SPD) The counter shall be equipped with a battery back-up to retain memory when power is not present. A push button switch on the display's face plate shall be provided for manual counter reset.

Unit is not equipped with a battery backup, surge protector counter has a stored memory that will automatically retain the memory and recall once power is re-initiated

All GFCI outlets installed per plan

Pass

All GFCI outlets tripped properly using a GFCI test trip device

Pass

All outlets are powered and tested to indicate "hot" with no open faults

Pass

Notes/Comments :

Fryer - Hood interior Wall: There are one GFCI outlet that will not reset noted on the open issues list Fryer - hood Exterior Wall: There is one Dead outlet that is noted on the open issues list

