

**Project Information**

Energy Code: 2012 IECC  
Project Title: CUSICK & ALCOA  
Project Type: Alteration

Construction Site: 122 Cusick Road, Alcoa, TN 37701  
Owner/Agent: Monica McDonald, 364 W. Randolph Street, 3rd Floor, Chicago, IL 60661, 312.380.3739, mmcdona@starbucks.com  
Designer/Contractor: Randall C. Haase, P.E., Suite 5539, 1805 N 2nd St, Rogers, AR 72756, 479-636-5004, rch@teamchoice.com

**Allowed Interior Lighting Power**

Area Category	A		D	
	Floor Area (ft <sup>2</sup> )	Allowed Watts / ft <sup>2</sup>	Floor Area (ft <sup>2</sup> )	Allowed Watts (B X C)
1-Restroom A (Common Space Types: Restroom); Exempt				
2-Restroom B (Common Space Types: Restroom); Exempt				
3-Backbar (Common Space Types: Food preparation)	309	1.20	371	
4-Seating (Common Space Types: Bar/counter/feature dining)	988	1.40	1383	
				Total Allowed Watts = 1754

**Area Category Exemption Qualifications**

Activity Area	# Fixtures		Total # Watts	
	Pre-Alt.	Repl./Added	Pre-Alt.	Post-Alt.
Restroom A (Common Space Types: Restroom, 53 sq ft.); Exemption: Less than 50% fixture replacement.	3	1	40,000	34,000
Restroom B (Common Space Types: Restroom, 54 sq ft.); Exemption: Less than 50% fixture replacement.	3	1	40,000	36,000

**Proposed Interior Lighting Power**

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	
			(C X D)	
Restroom A (Common Space Types: Restroom, 53 sq ft.); Exempt				
Restroom B (Common Space Types: Restroom, 54 sq ft.); Exempt				
Backbar (Common Space Types: Food preparation, 309 sq ft.)				
Linear Fluorescent 1: exist: existing recessed can light, 22" T5 14W, Electronic	1	8	15	120
Track lighting 2: X0360: 3 amp current limiting device; Wattage based on current limiting device capacity	0	0	360	360
Seating (Common Space Types: Bar/counter/feature dining, 988 sq ft.)				
Track lighting 1: X0240: 2 amp current limiting device; Wattage based on current limiting device capacity	0	0	240	240
Track lighting 3: X0240: 2 amp current limiting device; Wattage based on current limiting device capacity	0	0	240	240
Linear Fluorescent 1: exist: existing recessed can light, 22" T5 14W, Electronic	1	8	15	60
LED 1: X0080: LED strip tape driver, 20R, 60, Other	1	1	80	80
LED 2: X0269: LED strip tape driver, 24R, 96, Other	1	1	96	96

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A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 3: X1092: LED floor lamp, LED A Lamp 25W	1	2	25	44
LED 4: X1001: LED wall sconce, LED PAR 6W	1	3	6	24
Total Proposed Watts =				1274

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date

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Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Compliance?	Comments/Assumptions
C103.2 [IR41]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Refer to E102 LIGHTING DESIGN PLAN

**Additional Comments/Assumptions:**

Section # & Req. ID	Plan Review	Compliance?	Comments/Assumptions
C405.2.1 [EL22]	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Refer to E102 LIGHTING DESIGN PLAN
C405.2.2 [EL23]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Refer to E102 LIGHTING DESIGN PLAN
C405.2.1 [EL15]	Lighting controls installed to uniformly reduce the lighting load by at least 30%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Refer to E102 LIGHTING DESIGN PLAN
C409.3.2 [EL16]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.3 [EL17]	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2 [EL18]	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2 [EL20]	Primary daylighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2 [EL21]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.3 [EL47]	Separate lighting control devices for specific uses installed on required light fixtures.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Refer to E102 LIGHTING DESIGN PLAN
C405.3 [EL9]	Fluorescent luminaires with add-on ballasts are not permitted. Add-on ballasts are not permitted in recess mounts or are at least 1 foot edge to edge from surface-mounted ballasts. Exit signs are not required 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2 [EL01]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Refer to E102 LIGHTING DESIGN PLAN

**Additional Comments/Assumptions:**

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Section # & Req. ID	Plan Inspection	Compliance?	Comments/Assumptions
C408.2.5 [E167]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [E177]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.5.2 [E10]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the interior lighting fixture schedule for values.
C408.3 [E133]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: to be completed by lighting contractor post-construction

**Additional Comments/Assumptions:**

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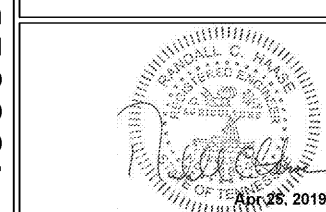


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STARBUCKS TEMPLATE VERSION I2019.01.11

Randall C. Haase  
P.E.  
SUITE 5539 479-636-5004  
1825 N 2ND ST JOB NO.: 23138  
ROGERS, AR 72756 DESIGNED BY: LES



PROJECT NAME:  
**CUSICK & ALCOA**

PROJECT ADDRESS:  
121 CUSICK ROAD  
ALCOA, TN 37701  
BLOUNT COUNTY

STORE #: 11293  
PROJECT #: 36099-035  
ISSUE DATE: 04.25.19  
DESIGN MANAGER: L. MACEDA  
PRODUCTION DESIGNER: LES  
CHECKED BY: WAJ

**Revision Schedule**

Rev	Date	By	Description

SHEET TITLE:  
**ENERGY CALCULATIONS**

SCALE: AS SHOWN

SHEET NUMBER:  
**E002**

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