



<b>Policy No.: OS001</b>	<b>Approved by: Mark Cavanaugh</b>
<b>Title: Energized Electrical Safety</b>	<b>Date: 6/15/2020</b>
<b>Revision No.: 6</b>	<b>Page 31 of 31</b>
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**Appendix M: Arc Flash and Shock Risk Assessment Labels**


**LABEL EXAMPLES 1: INCIDENT ENERGY ANALYSIS METHOD:**

 <b>DANGER</b>	
<b>Arc Flash and Shock Risk Assessment</b> <b>Appropriate PPE Required</b>	
19' - 3"	Arc Flash Boundary when operating/working on energized equipment <b>DO NOT CROSS WITHOUT ARC FLASH PPE</b>
70.7 cal/cm <sup>2</sup>	Incident Energy - Inside Arc Flash Boundary - <b>EXTREME DANGER</b> at working distance of 18.0" to face/chest area
<b>DO NOT OPERATE/WORK ON WHILE ENERGIZED</b>	
208 V	Shock Hazard when cover is removed
3' - 6"	Limited Approach Boundary - <b>UNQUALIFIED Person(s) DO NOT CROSS</b>
1' - 0"	Restricted Approach Boundary - <b>QUALIFIED Person(s) DO NOT CROSS</b> Hands May Cross Restricted Approach Boundary with Class 00 Voltage Gloves & Sleeves
Equipment Name: LV:MELIORA 3 (Fed by: [Manual Time]) August 2019	

 <b>WARNING</b>	
<b>Arc Flash and Shock Risk Assessment</b> <b>Appropriate PPE Required</b>	
8' - 1"	Arc Flash Boundary when operating/working on energized equipment <b>DO NOT CROSS WITHOUT ARC FLASH PPE</b>
5.7 cal/cm <sup>2</sup>	Incident Energy - Inside Arc Flash Boundary at working distance of 36.0" to face/chest area
<b>PPE INSIDE ARC FLASH BOUNDARY:</b> Refer to NFPA 70E-2018 Table 130.5(G)	
4160 V	Shock Hazard when cover is removed
5' - 0"	Limited Approach Boundary - <b>UNQUALIFIED Person(s) DO NOT CROSS</b>
2' - 2"	Restricted Approach Boundary - <b>QUALIFIED Person(s) DO NOT CROSS</b> Hands May Cross Restricted Approach Boundary with Class 1 Voltage Gloves & Sleeves
Equipment Name: MELIORA HALL (Fed by: R-80052-F12) August 2019	

**LABEL EXAMPLES 2: PPE CATEGORY METHOD:**

 <b>DANGER</b>	
<b>PPE CATEGORY METHOD</b> <b>Arc Flash and Shock Risk Assessment</b> <b>Appropriate PPE Required</b>	
6'-0"	Arc Flash Boundary when operating/working on energized equipment <b>DO NOT CROSS WITHOUT ARC FLASH PPE</b> Fault current too high for PPE Category Method - Use Incident Energy Method Panelboard, 208V, 40kA, 0.03sec clearing at working distance of 18.0" to face/chest area
<b>EXTREME DANGER</b>	<b>DO NOT OPERATE/WORK ON WHILE ENERGIZED</b>
208 V	Shock Hazard when cover is removed
3' - 6"	Limited Approach Boundary - <b>UNQUALIFIED Person(s) DO NOT CROSS</b>
1' - 0"	Restricted Approach Boundary - <b>QUALIFIED Person(s) DO NOT CROSS</b> Hands May Cross Restricted Approach Boundary with Class 00 Voltage Gloves & Sleeves
Equipment Name: BUS-XXXX (Fed by: XX) DATE	

 <b>WARNING</b>	
<b>PPE CATEGORY METHOD</b> <b>Arc Flash and Shock Risk Assessment</b> <b>Appropriate PPE Required</b>	
3'-0"	Arc Flash Boundary when operating/working on energized equipment <b>DO NOT CROSS WITHOUT ARC FLASH PPE</b>
PPE Cat #2	Switchboard, 480V, 21kA, 0.03sec clearing at working distance of 18.0" to face/chest area
<b>PPE INSIDE ARC FLASH BOUNDARY:</b> Refer to NFPA 70E-2018 Table 130.7(C)(15)(a)	
480 V	Shock Hazard when cover is removed
3' - 6"	Limited Approach Boundary - <b>UNQUALIFIED Person(s) DO NOT CROSS</b>
1' - 0"	Restricted Approach Boundary - <b>QUALIFIED Person(s) DO NOT CROSS</b> Hands May Cross Restricted Approach Boundary with Class 00 Voltage Gloves & Sleeves
Equipment Name: LV: SCHLEGEL (Fed by: SCHLEGEL MAIN) DATE	

**Note:** AF boundary calculated using NFPA 70E Informative Annex D, when PPE category method was not applicable to determine AF boundary.