Electrical Hazard - A dangerous condition such that contact, or equipment failure can result in electric shock, arc flash burn, thermal burn, or arc blast injury

Electrically Safe Work Condition - A state in which an electrical conductor or circuit part has been disconnected from energized parts, locked/tagged in accordance to the UAA Lockout Tagout (LOTO) Program, grounded if necessary and tested for the absence of voltage

Energized - Electrically connected to or having a source of voltage

Energized Electrical Work - Any work performed on electrical systems while energized

Electrical Enclosure - A case, housing, fence or walls that prevents persons from accidentally contacting

Arc Flash Burns

Arc Blast Impacts

Falls following unexpected arc flashes

Fire

7. Engineering Controls

Engineering controls are design plans or changes to the working environment to prevent or reduce personnel exposure to hazards. The following example of engineering controls should be considered to minimize the use of PPE:

Design and installation of equipment to minimize electrical exposure

Installation of equipment with designed means to safely deenergize or disconnect, and provides adequate space to safely perform work and maintenance on the equipment

Access to proper electrical tools and testing equipment or machinery to be used in place of PPE

8. Administrative Controls

Administrative controls are safe work practices and procedures designed to reduce the risks associated with workplace hazards. PPE will be implemented as an additional means for protection or only when engineering and administrative controls are not feasible. Examples of administrative controls include the following:

Train personnel who perform electrical work

Routinely inspect work areas to identify electrical hazards

Plan jobs involving electrical work and conduct pre-work briefings

De-energize equipment before working on it whenever possible. Avoid working on energized electrical systems.

9. Procedures

The following procedures will be followed regarding electrical work at UAA.

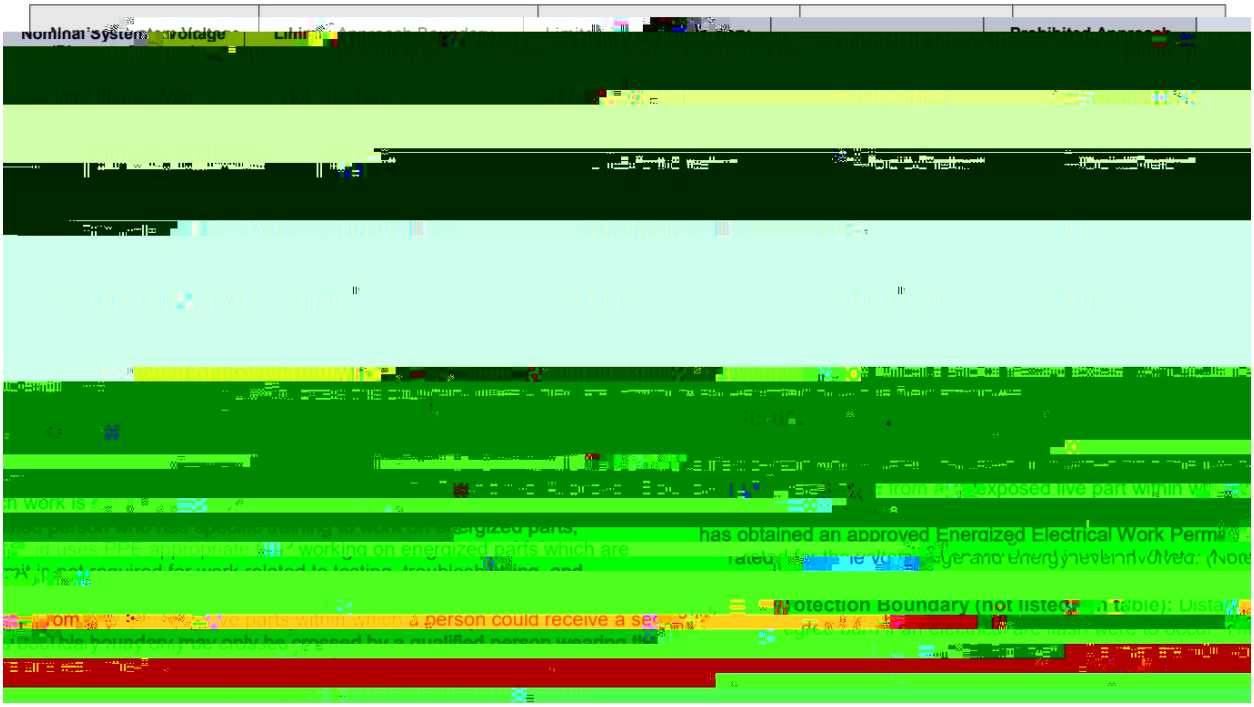
General Design Requirements

All electrical systems will be designed, installed, and maintained in accordance to 29 CFR 1910.302, 29 CFR 10910.308, and NFPA 70E Edition 2009 and any other applicable electrical codes.

14. Revision History

Revision Number	Date Revised	Description of Change	Revised By	Approved By
0	10/25/2018	Initial Issue		VC Shuford
1	05/28/2021			

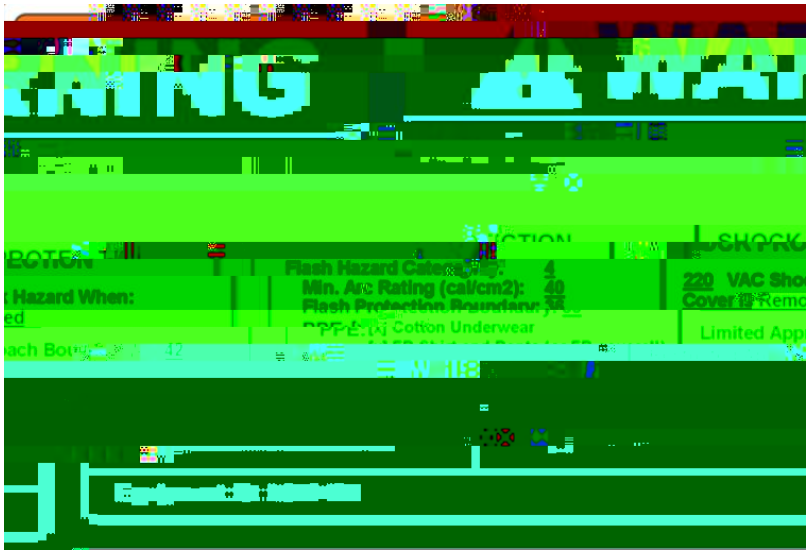
Appendix A Approach Boundaries



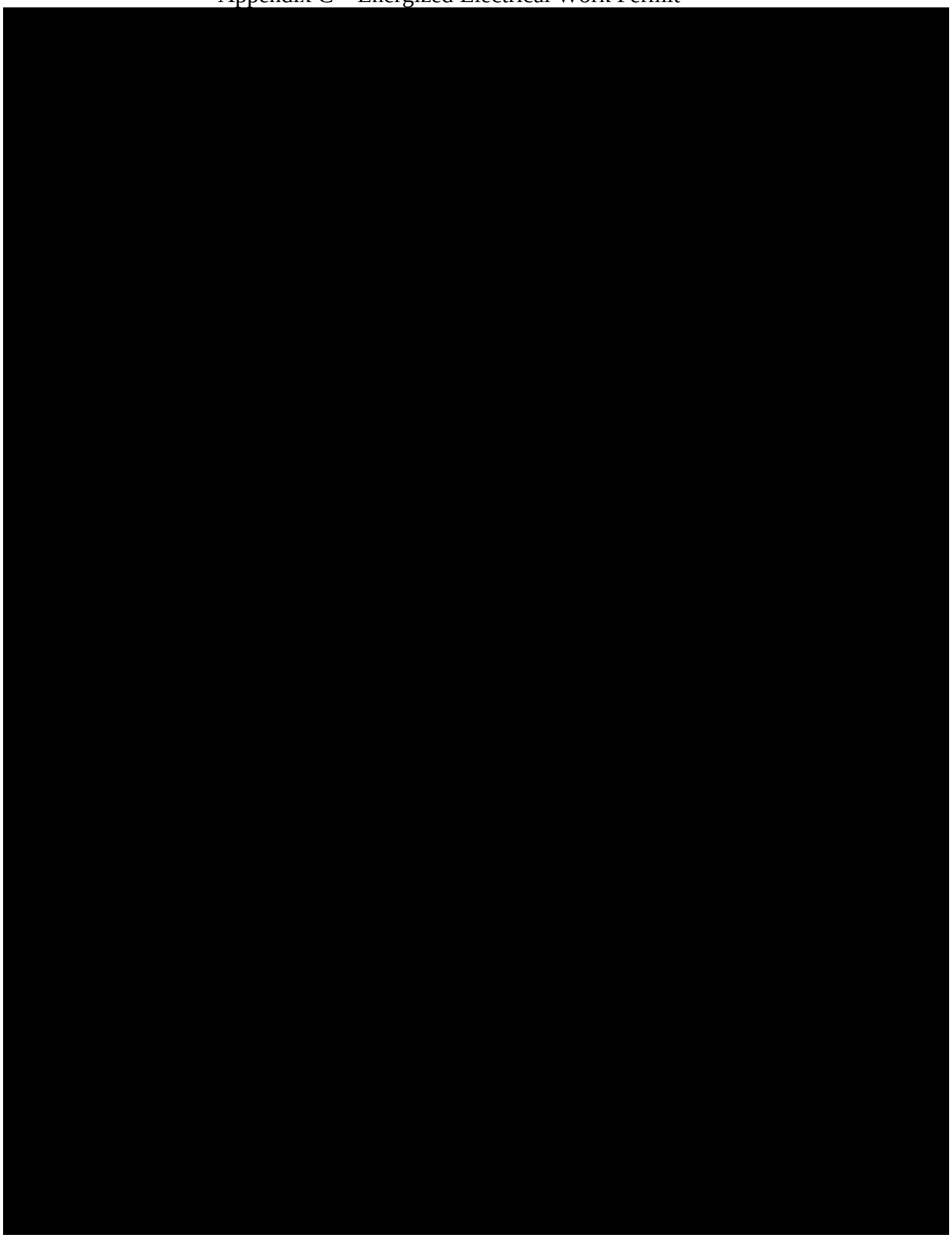
Appendix B Signs and Labels

Figure 1: Temporary Arc Flash and Shock Hazard Label

Figure 2: Permanent Arc Flash and Shock Hazard label



Appendix C Energized Electrical Work Permit



Appendix D -