NEW PRODUCTS NEW IDEAS

Honeywell
# Honeywell Electrical Compliance Support

## Electrical (Arc Flash) Assessments
- **Required every 5 years by NFPA 70E.**
- **Key Deliverables:**
  - Fault Current Study
  - Short Circuit Study
  - One Line Diagrams
  - Arc flash labeling
  - Equipment Evaluation
  - Coordination of overcurrent devices
  - Ongoing support

## Electrical Training
- **Required every 3 years by NFPA 70E, recommended refreshers every year.**
- **Courses for general and qualified workers:**
  - Classroom 2, 4, 8 and 16 hour courses
  - E-Learning Courses
  - Webinars Available

## Other
- Thermography
- Design
- Preventative Maintenance
- WESP’s
- Mitigation
- Modeling
- Consulting
- And, much, much more!

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**Honeywell**
Honeywell Salisbury Value

- Turn Key Solution
  - Based on the electrical assessment results Salisbury can provide its electrical PPE expertise for full electrical safety compliance
Honeywell Smart Arc Flash Labels

SAS Connected Label Prototype

WARNING

Bus: BUS-0221 Prot: MaxTripTime: 0.3s
Appropriate PPE Required for Arc Flash and Shock Risk

ARC FLASH PROTECTION
Working Distance (WD): 18 in
Min. ATPV @ WD: 5.82 cal/cm²
AF Boundary (1.2 cal/cm²): 47 in
Available Fault Current: 7.73 kA

SHOCK PROTECTION
Exposed Voltage: 240 VAC
Glove Class: 00
Limited Approach: 42 in
Restricted Approach: 12 in

PPE:
- Arc-Rated Shirt & Pants (or Coveralls) or Arc-Rated Flame Resistant Suit
- Hand/Hair/Hairnet or Arc-Rated Hood
- Safety Glasses or Goggles
- Hearing Protection
- Arc-Rated Gloves & Leather Footwear

Scenario: Utility

Safety Suite

Scan any equipment / PPE with either RFID tags or barcodes.

Pass

Fail

- Crosscheck assigned equipment inspections
- Crosscheck Approved User
- Crosscheck Valid Training
- Crosscheck PPE Ratings & Components with Arc Flash Label
- Check Critical PPE Inspections (Gloves)
- Check Work Permits (e.g. De-energized vs energized)
- Check Maintenance History
- Assign Jobs to Specific Assets and Workers

Honeywell Connected Worker
Better, More Comfortable PPE

In the past 20 years we learned how to protect electrical workers from the arc flash. Work is on now to develop a more comfortable updated PPE. New line will be ready early next year.

<table>
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<tr>
<th>ISSUES</th>
<th>DISADVANTAGE</th>
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| Garment (fabric) weight | - Decreases comfort  
                            - Increases perspiration  
                            - Risk of overheating                                                  |
| Fabric breathability    | - Increases perspiration  
                            - Increases need for breaks (reduces efficiency)  
                            - Increases risk for fainting                                          |
| Restricted range of motion | - Harder to move around/complete tasks  
                            - Discomfort                                                              |
| Look                    | - Wants to be seen in the PPE  
                            - “If [the PPE] is ugly workers won’t want to wear them”                |
| Asset Management        | - Increasing pressure for accountability and efficiencies for managers     |
Honeywell Salisbury recognizes the need for the additional manufacturing capacity and the work is underway. Next year we will have 15-20% additional capacity manufacturing insulating rubber gloves and will see the reduction in delivery time.