INTERSTATES

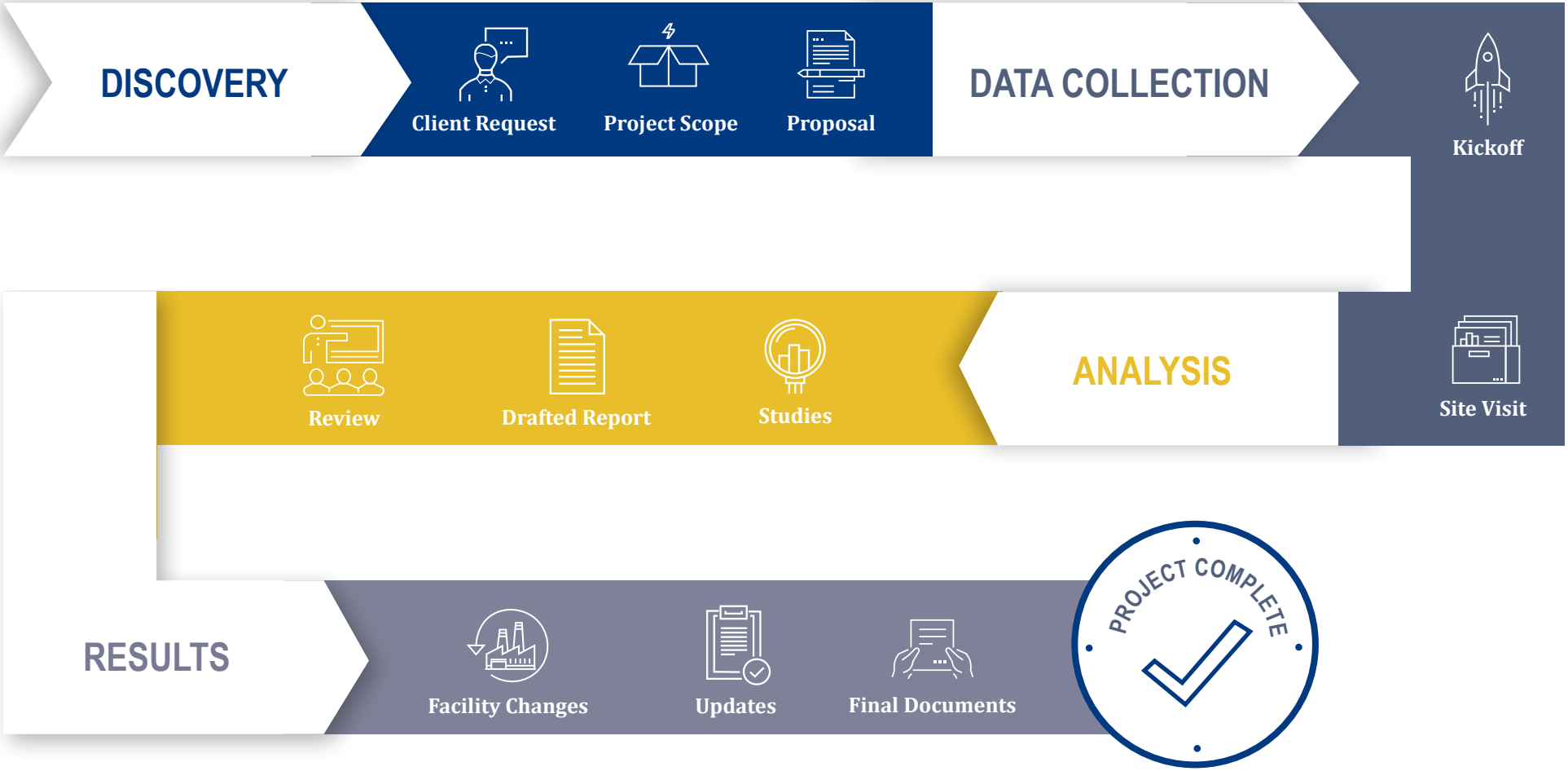
ARC FLASH
PROVEN PROCESS

WHY CONDUCT AN ARC FLASH STUDY?

It's important to be compliant and keep your team safe. An arc flash study is a step in the right direction. This study identifies the incident energy and personal protective equipment (PPE) your team needs when interacting with energized electrical gear. We can help you go beyond compliance by identifying safety risks and operational inefficiencices. Join us in this process!

ARC FLASH PROVEN PROCESS

YOUR GUIDE TO A SUCCESSFUL STUDY



Questions? Contact us at bdev@interstates.com

ARC FLASH
PACKAGES

Keeping your workplace safe and compliant is fundamental to your business. Choose Interstates' trained professionals to complete an arc flash study for your workplace and receive a thorough arc flash assessment of your facility's electrical distribution system.

Interstates offers three standard arc flash analysis packages. Our most popular option is the Safety Package, but we will help you find the package to meet your facility needs.

OPTIONS	COMPLIANCE PACKAGE	SAFETY PACKAGE	REMEDIATION PACKAGE
Arc Flash Labels	✓	✓	✓
Arc Flash Study	✓	✓	✓
Short Circuit Study	✓	✓	✓
Coordination Study		✓	✓
Detailed Report & Recommendations		✓	✓
CAD Power Distribution Onelines			✓
CAD Electric Room Layouts			✓
NEC Audit			✓
Long-Term Remediation Plan			✓

COMPLIANCE PACKAGE

The Compliance Package includes an affordable arc flash study for your facility. You will receive a completed arc flash study and arc flash labels for the equipment at your facility. This meets the NFPA 70E arc flash requirements.

SAFETY PACKAGE

The Safety Package includes everything in the Compliance Package plus a coordination study and report recommendations. The report recommendations will be based on the study results, providing the next steps for improving the safety and reliability of the facility.

REMEDIATION PACKAGE

The Remediation Package will use the arc flash study to identify issues with the electrical distribution system. This package will guide you through fixing any safety issues discovered.

WHAT TO EXPECT

YOUR GUIDE TO A SUCCESSFUL ARC FLASH STUDY

YOUR ROLE

Your involvement keeps the project moving. In addition to the steps above, here are a few things we'll need from you:

1. Work with us to schedule the data collection trip
2. Provide the contact and account information for your electrical service provider
3. Walk the arc flash technician through the facility
4. *Provide a qualified assistant for the data collection
5. Approve invoices when submitted
6. Attend and participate during the kickoff, site recap and review meetings
7. Implement recommendations before receiving final report and inform us of these changes
8. *Apply the arc flash labels sent to site
9. Save final documents for future use

Note: Depending on options selected in the proposal, Interstates may be contracted to complete these items.

WHAT YOU WILL RECEIVE

Throughout and after the project, you can expect to receive:

1. Progress reports
2. Monthly invoices based on the project's progression
3. Documentation of the facility's power distribution system
4. Findings of safety and reliability concerns with recommendations for addressing the issues
5. Arc flash labels
6. Compliance with NFPA 70E arc flash requirements
7. Documentation per the arc flash package selected

ARC FLASH PROVEN PROCESS

YOUR GUIDE TO A SUCCESSFUL STUDY

Your involvement throughout the arc flash process is important! Projects have the best outcomes when both parties are involved.

DISCOVERY PHASE

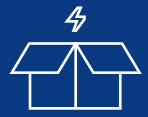
You'll receive a proposal for your arc flash study.

CLIENT REQUEST

KEY STEPS

- **Request Quote**
- **Share Project Details**

You're looking to improve safety and reliability at your facility, and we have three arc flash packages to meet your needs. Once we receive your request, our team will reach out to learn more about your project.



PROJECT SCOPE

KEY STEPS

- **Scope Project**
- **Choose Package**

After we understand your arc flash study goals, we'll help you choose the best package for your facility – compliance, safety, or remediation – and further discuss the project details. This helps us develop a tailored proposal.

PROPOSAL

KEY STEPS

- **Review Proposal**
- **Approve Funding**

Our team will send you the proposal for review. Contact us at any time with questions or if you would like to make changes throughout the review process. When you're ready to move forward, please notify us. We look forward to working with you!

DATA COLLECTION PHASE

You'll receive a recap of the data collection before it is analyzed.

KICKOFF

KEY STEPS

- **Hold Kickoff Meeting**
- **Schedule Site Visit**
- **Prep for Data Collection Trip**

To get things started, we will schedule a kickoff meeting where you will meet your main point of contact, discuss the project details, and schedule the on-site data collection trip. You will also be able to ask any initial questions you may have.

SITE VISIT

KEY STEPS

- **Walk Through Facility**
- **Collect and Input Data**
- **Recap Data Collection**

While on-site, the arc flash technician will meet with your point of contact to walk through and locate electrical enclosures at the facility. Most data collection does not delay your operations or require a plant shutdown. The technician will input the collected data into power distribution software for analysis. Before the technician leaves your plant, they give a recap on the data collection and share any immediate concerns about reliability and safety.

ANALYSIS PHASE

You'll receive the first draft of the arc flash report.

STUDIES

KEY STEPS

- **Finalize Model**
- **Run Studies**
- **Analyze Data**

Based on the arc flash package chosen for the project, our engineering team will use the collected data to finalize the power distribution model and run studies. The team will then take the results and analyze the data from the study. They will also finalize the power distribution model, which will be included in the report.

DRAFTED REPORT

KEY STEPS

- **Record Study Results**
- **Develop Report**
- **Send for Review**

Once results are recorded, our engineering team will create the report and provide recommendations for facility improvements. This report is peer-reviewed to give you a thorough, comprehensive study. We will distribute the first draft of the report so you can read it before the review meeting.

REVIEW

KEY STEPS

- **Hold Review Meeting**
- **Discuss Findings**

You'll meet with the arc flash technician to review the report layout and discuss the findings. This meeting is your chance to better understand, ask questions, and make comments on the report.

RESULTS PHASE

You'll receive the finalized arc flash report, power system model files and arc flash labels.

FACILITY CHANGES

KEY STEPS

- **Implement Recommendations**
- **Confirm Facility Changes**

You may want to take action on some of our recommendations even before receiving the finalized report. While you might not choose to complete all of them, the recommended changes will give you a safer, more reliable plant. Please notify us about the changes you are making and would like incorporated into the finalized report.

UPDATES

KEY STEPS

- **Update Report**
- **Sign Report**
- **Apply Labels**

We will update the arc flash report to reflect the changes implemented at your facility and the comments from the review meeting. A professional engineer licensed in the associated state will sign the arc flash report. Once the arc flash report is finalized, arc flash labels will be sent to the facility.

Note: If we are contracted to apply labels, we'll schedule this site visit. Refer to your proposal.

FINAL DOCUMENTS

KEY STEPS

- **Receive Final Documents**
- **Save Documents**

At the end of this project, you will receive an arc flash report signed by a professional engineer, the power system model files and arc flash labels. This report will make you compliant with NFPA 70E arc flash requirements and will provide conceptual direction for safety and reliability improvements. Be sure to keep the documents accessible. You'll need them for power distribution system changes or for the five-year arc flash study requirement.