

# Print Reading For Industry

## Understanding Print Reading for Industry: A Comprehensive Guide

**Print reading for industry** is an essential skill for professionals involved in manufacturing, engineering, construction, and many other industrial sectors. It involves the ability to interpret technical drawings, blueprints, and schematics that communicate critical information about parts, assemblies, and entire systems. Mastering print reading enables workers to translate complex graphical data into real-world applications, ensuring accuracy, safety, and efficiency on the job site or in the workshop. This article explores the fundamentals of print reading for industry, its significance, key components, and practical tips to develop proficiency.

## The Importance of Print Reading in Industry

Print reading forms the backbone of communication in many industrial processes. It bridges the gap between

design and production, serving as the universal language for engineers, fabricators, and inspectors. Here's why it's vital:

- Ensures precision and accuracy in manufacturing processes
- Facilitates effective communication among team members
- Reduces errors and rework costs
- Enhances safety by understanding specifications and tolerances
- Supports quality control by verifying compliance with designs
- Aids in maintenance and troubleshooting of equipment

Without the ability to accurately interpret technical drawings, projects risk delays, cost overruns, and safety hazards. Therefore, developing strong print reading skills is crucial for success in any industrial environment.

## **Types of Industrial Drawings**

Understanding the different types of drawings is fundamental to effective print reading. Each type serves specific purposes and contains unique information.

### **1. Mechanical Drawings**

- Depict parts, assemblies, and machinery
- Include dimensions, tolerances, and material specifications
- Used for manufacturing and assembly

### **2. Electrical Drawings**

- Show wiring diagrams, circuit layouts, and control

systems - Include symbols representing electrical components - Essential for electrical installation and troubleshooting

### **3. Piping and Plumbing Drawings**

- Illustrate pipe routes, fittings, and valves - Include specifications for materials and pressure ratings - Critical for fluid systems installation

### **4. Structural Drawings**

- Present frameworks, supports, and foundations - Used in construction and civil engineering projects

### **5. Assembly Drawings**

- Show how individual parts fit together - Include exploded views and part lists

## **Key Components of Technical Drawings**

To read industrial prints effectively, it's important to understand their common components: - Title Block: Contains essential information such as drawing title, project name, scale, date, and drafter's details. - Drawing Scale: Indicates the ratio of the drawing size to the actual size. - Lines and Symbols: Convey different features like

edges, hidden details, or centerlines. - Dimensions: Specify sizes, locations, and tolerances. - Notes and Specifications: Provide additional instructions or clarifications. - Bill of Materials (BOM): Lists all parts and materials required.

## **Fundamental Skills Required for Print Reading**

Developing expertise in print reading involves mastering several fundamental skills:

### **1. Understanding Geometric Symbols and Conventions**

Familiarity with standard symbols for welds, finishes, and surface treatments is crucial.

### **2. Interpreting Dimensions and Tolerances**

Ability to read and apply dimensional data accurately ensures parts fit and function as intended.

### **3. Recognizing Line Types and Their Meanings**

Different line types (solid, dashed, chain) represent

various features and hidden details.

## **4. Reading and Using the Title Block and Notes**

Extract relevant project data to understand scope, scale, and specifications.

## **5. Visualizing 3D from 2D Drawings**

Develop spatial awareness to interpret flat images into real-world objects.

## **Practical Tips to Improve Print Reading Skills**

Enhancing print reading proficiency requires consistent practice and strategic approaches:

1. Start with Basic Drawings - Practice with simple sketches before progressing to complex assemblies.
2. Learn Standard Symbols and Conventions - Familiarize yourself with industry standards like ISO, ANSI, or ASME symbols.
3. Use CAD Software for Practice - Explore digital models and drawings to understand different perspectives.
4. Compare Drawings with Actual Parts - Cross-reference prints with physical components to reinforce understanding.
5. Attend Training and Workshops - Participate in courses focused on technical drawing

interpretation. 6. Create Your Own Drawings - Practice sketching parts and assemblies to internalize features and dimensions. 7. Ask Clarifying Questions - Never hesitate to seek clarification from engineers or supervisors.

## **Common Challenges in Print Reading and How to Overcome Them**

Despite its importance, print reading can present challenges:

- Complexity of Drawings: Break down intricate diagrams into sections.
- Unfamiliar Symbols: Keep a reference guide handy to decode unknown symbols.
- Inconsistent Standards: Clarify which standards are used in your industry or company.
- Poorly Drawn Prints: Communicate with designers to improve clarity or request additional views.

Consistent practice and seeking feedback are key to overcoming these challenges.

## **Applications of Print Reading in Industry**

Print reading skills are applicable across various industrial roles:

- Manufacturing Technicians: Interpreting blueprints to fabricate parts.
- Quality Inspectors: Verifying that parts meet design specifications.
- Maintenance Technicians: Understanding schematics for troubleshooting.

Engineers: Reviewing and modifying drawings during design and revision phases. - Construction Workers: Reading structural and piping plans for site work. Mastering print reading not only increases individual competence but also contributes to the overall efficiency and safety of industrial operations.

## **Conclusion: Embracing Print Reading for Industry Success**

*Print reading for industry* is a vital skill that underpins successful manufacturing, construction, and engineering projects. It facilitates clear communication, ensures precision, and promotes safety. Whether you are a novice or an experienced professional, continuous learning and practice are essential to become proficient in interpreting technical drawings. By understanding the different types of drawings, their components, and the fundamental skills involved, you can enhance your ability to read prints accurately. Incorporating practical tips, familiarizing yourself with industry standards, and actively applying your knowledge in real-world scenarios will solidify your expertise. Investing time in developing print reading skills ultimately leads to higher quality work, fewer errors, and greater career advancement opportunities. Embrace the challenge, and let your mastery of print reading become a cornerstone of your success in the industrial sector.

## Print Reading for Industry: Unlocking the Language of Engineering and Manufacturing

In the realm of industrial manufacturing, engineering, and construction, the ability to accurately interpret technical drawings and blueprints—collectively known as print reading—is an essential skill. Whether you're a seasoned engineer, a budding technician, or a skilled tradesperson, understanding how to navigate these detailed documents ensures projects proceed smoothly, safety standards are met, and quality is maintained. Print reading for industry bridges the gap between conceptual design and physical realization, transforming complex schematics into tangible outcomes. This article delves into the fundamentals of print reading, exploring its significance, core components, best practices, and real-world applications.

### The Significance of Print Reading in Industry

Print reading is more than just deciphering lines and symbols; it is a universal language that communicates intricate details of a component or system. Its importance in industry cannot be overstated due to several key reasons:

1. **Ensuring Precision and Quality:** Accurate interpretation of prints guarantees that parts are manufactured and assembled correctly, reducing errors, rework, and material waste.
2. **Facilitating Communication:** Technical drawings serve as a common language among designers, engineers,



machinists, and construction workers, fostering clear understanding and collaboration.

3. **Enhancing Safety:** Proper print reading helps identify potential hazards, such as structural weaknesses or incompatible components, thereby preventing accidents.
4. **Supporting Compliance:** Industry standards and codes often mandate specific documentation and inspection protocols, which rely heavily on accurate print interpretation.

Mastering print reading is not merely a technical skill but a foundational competency that supports operational excellence across industries such as aerospace, automotive, construction, manufacturing, and more.

### Core Components of Technical Prints

Understanding the structure and symbols used in prints is crucial for effective interpretation. Technical drawings are composed of various elements, each conveying specific information.

#### 1. Title Block

The title block typically appears at the bottom right corner of a drawing and includes essential details such as:

1. Part or drawing number
2. Revision status
3. Scale

4. Date of creation or revision
5. Name of the drafter or engineer
6. Company or project name

This information helps users identify the correct version and context of the drawing.

## 1. Views and Projections

Drawings may contain multiple views to represent three-dimensional objects on a two-dimensional plane:

1. Orthographic Views: Front, top, side, and sectional views that show different perspectives.
2. Isometric or Perspective Views: 3D representations providing a more complete visualization.
3. Sectional Views: Cross-sections exposing internal features by "cutting" through parts.

Understanding how to interpret different views is fundamental for visualizing complex components.

## 1. Lines and Symbols

Lines convey the shape and features of parts:

1. Visible Lines: Thick lines representing edges visible in the view.
2. Hidden Lines: Dashed lines indicating features not directly visible.
3. Center Lines: Thin lines showing axes of symmetry or holes.

4. Dimension Lines: Lines with measurements indicating size or distance.

Symbols represent specific features or processes, such as welds, surface finishes, or electrical connections.

## 1. Dimensions and Tolerances

Dimensions specify the size and location of features, typically in units like millimeters or inches. Tolerances define acceptable variation ranges, crucial for ensuring parts fit and function correctly.

## 1. Notes and Specifications

Additional instructions, material specifications, surface finishes, and assembly instructions are often included as notes.

## Fundamental Principles of Print Reading

Effective print reading hinges on understanding certain core principles and applying systematic approaches.

## 1. Familiarize Yourself with Industry Standards

Different industries adopt specific standards (e.g., ASME, ISO, DIN). Familiarity with these ensures correct interpretation of symbols, tolerances, and conventions.

## 1. Develop a Sequential Approach

Reading prints systematically reduces errors:

1. Start with the Title Block: Confirm the drawing's purpose, scale, and revision.
2. Identify All Views: Understand how different views relate spatially.
3. Examine Dimensions and Tolerances: Ensure clarity on sizes and allowable variations.
4. Review Symbols and Notes: Clarify special instructions or features.

#### 1. Visualize the Object

Imagine the component in three dimensions based on the views provided. This mental model aids in understanding complex features.

#### 1. Cross-Check Details

Verify measurements, symbols, and notes across different views, and confirm consistency.

#### 1. Clarify Ambiguities

When in doubt, consult with engineers, supervisors, or reference standards to resolve uncertainties.

#### Practical Tips for Effective Print Reading

1. Use a Scale Ruler: Measure dimensions accurately, especially when working directly from prints.
2. Highlight Key Features: Mark critical dimensions, tolerances, or notes for quick reference.
3. Create 3D Models: Use CAD software or physical models

to better understand complex geometries.

4. Maintain a Glossary: Keep a reference of symbols and abbreviations used in your industry.
5. Practice Regularly: Consistent exposure enhances comprehension and speed.

## Types of Technical Drawings in Industry

Different documents serve various purposes in industrial workflows:

### 1. Assembly Drawings

Show how components fit together, highlighting the relationship between parts. They include exploded views, part numbers, and assembly instructions.

### 1. Detail Drawings

Provide an in-depth view of individual parts, emphasizing dimensions, materials, and finishing details.

### 1. Process or Flow Drawings

Illustrate manufacturing processes, workflows, or piping and wiring layouts.

### 1. Electrical and Piping Schematics

Use standardized symbols to depict electrical circuits or piping systems, emphasizing connections and functions.

## Common Symbols and Conventions

In print reading, symbols streamline communication. Some common examples include:

1. Weld Symbols: Indicate weld type, size, and location.
2. Surface Finish Symbols: Specify the desired surface quality.
3. Electrical Symbols: Represent components like resistors, switches, or motors.
4. Thread Symbols: Depict screw threads and sizes.
5. Material Symbols: Indicate the type of material used.

Mastering these symbols enhances accuracy and efficiency.

### Real-World Applications of Print Reading

The practical application of print reading skills manifests across various industries:

1. Manufacturing: Machinists interpret blueprints to fabricate parts with tight tolerances.
2. Construction: Builders read structural and architectural drawings to ensure safety and compliance.
3. Automotive: Technicians understand schematics for maintenance and repair.
4. Aerospace: Engineers verify complex assemblies and systems for safety-critical applications.
5. Electrical Engineering: Electricians follow wiring diagrams to install and troubleshoot systems.

In each scenario, the ability to accurately read and

interpret prints directly impacts project success and safety.

## Challenges and How to Overcome Them

Despite its importance, print reading can pose challenges:

1. **Complexity of Drawings:** Large, detailed drawings require patience and practice.
2. **Inconsistent Standards:** Different industries or companies may use varied conventions.
3. **Legibility Issues:** Poorly printed or damaged drawings hinder understanding.
4. **Evolving Technologies:** The shift towards digital models requires adaptability.

To mitigate these challenges:

1. Invest in ongoing training and certification.
2. Use digital tools and CAD models for enhanced visualization.
3. Collaborate with experienced colleagues for mentorship.
4. Stay updated on industry standards and best practices.

## The Future of Print Reading: Digital and 3D Models

The industry is witnessing a transformation from traditional paper prints to digital models and 3D visualization:

1. **CAD and CAM Integration:** Digital drawings facilitate

easier updates and sharing.

2. 3D Printing and Prototyping: Visualizing and testing designs before manufacturing.
3. Augmented Reality (AR): Overlay digital information onto physical objects for real-time guidance.
4. Automated Inspection: Using software to compare physical parts against digital models.

While digital tools are enhancing efficiency, foundational print reading skills remain vital, especially on-site or in environments where digital access is limited.

## Conclusion

Print reading for industry is a fundamental skill that underpins the success of engineering, manufacturing, and construction projects. It demands a blend of technical knowledge, attention to detail, and systematic approach. As industries evolve with technological advancements, the core principles of understanding and interpreting technical drawings remain constant, ensuring that designs are accurately translated into real-world applications.

Developing proficiency in print reading not only improves individual competence but also enhances team collaboration, safety, and project quality—cornerstones of industrial excellence.

By mastering this language of industry, professionals can confidently navigate complex projects, troubleshoot issues efficiently, and contribute to innovations that drive progress across sectors.



Most people do not set out with the intention of downloading a book. Usually, it starts with a small need. A question that lingers longer than expected, a topic that keeps appearing in conversations, or a moment when surface-level information simply is not enough. That is often when **Print Reading For Industry** enters the picture.

At first, the goal might be modest. Read a chapter. Find one useful explanation. Move on. But having the book available in PDF format quietly changes that intention. There is no rush to finish, no pressure to read everything at once. The book sits there, ready, waiting for attention.

Reading begins to happen in fragments. A few pages in the morning while the day is still quiet. A bookmarked section checked again in the afternoon. A highlighted paragraph revisited at night because it suddenly makes more sense. These moments do not feel like formal study. They feel natural.

The layout remains familiar every time the file is opened. Pages look the same, headings stay where they were, and visual cues help the mind remember. Over time, readers stop searching and start navigating instinctively.

Notes appear almost without effort. A sentence stands out, so it gets highlighted. A thought forms, so it gets

written in the margin. Weeks later, those notes feel like messages left behind by an earlier version of the reader.

Search tools quietly save time. Instead of flipping through pages or scrolling endlessly, one keyword brings clarity. It turns the book into something useful long after the first read.

There is also a sense of relief in knowing the source is trustworthy. When a book comes from a reliable platform, attention stays on understanding, not on questioning accuracy or safety.

For students, this kind of access feels stabilizing. Materials are always there, even when schedules are chaotic. Studying becomes less about urgency and more about familiarity.

Professionals experience it differently. Certain sections become references. Others gain meaning only after real-world experience catches up. The book grows alongside the reader.

Independent learners often appreciate the absence of structure. There is no deadline, no checklist. Progress happens when curiosity returns, not when it is demanded.

Accessibility options quietly matter. Adjusting text size,

using reading tools, or switching devices makes the experience more comfortable without drawing attention to itself.

Files stay organized. Even after months, returning does not feel like starting over. The content feels known, not overwhelming.

What stands out over time is how the relationship changes. **Print Reading For Industry** stops feeling like a file that was downloaded. It becomes something familiar, something useful in quiet ways.

Sometimes, a passage read long ago suddenly feels relevant. A concept that once seemed abstract now makes sense. Growth shows itself in these small moments.

Reading no longer feels like an obligation. It becomes something to return to when clarity is needed or curiosity resurfaces.

In this way, learning slips into everyday life without announcement. The book does not demand attention. It simply remains available.

And often, that quiet availability is what makes it valuable. Knowledge does not have to be chased when it is already close at hand.

# Questions & Answers About print reading for industry

| No | Question                                                                 | Answer                                                                                                                                                                                                                                  |
|----|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | What are the fundamental principles of print reading in industry?        | Fundamental principles of print reading include understanding symbols, line types, scales, and dimensions; interpreting views and sections; and being able to extract essential information to accurately interpret technical drawings. |
| 2  | Why is print reading important for manufacturing and assembly processes? | Print reading ensures that parts are manufactured and assembled correctly by providing precise specifications, reducing errors, minimizing waste, and ensuring quality control throughout production.                                   |
| 3  | What are common symbols and line types used in industrial prints?        | Common symbols include weld symbols, surface finish symbols, and electrical symbols. Line types such as solid, dashed, and phantom lines represent different features like visible edges, hidden details, and centerlines.              |

|   |                                                                                              |                                                                                                                                                                                                                                                          |
|---|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | How can I improve my skills in print reading for industry?                                   | Improvement can be achieved through formal training, practicing with various technical drawings, studying industry standards, and gaining hands-on experience in interpreting prints during actual manufacturing processes.                              |
| 5 | What industry standards govern print reading and technical drawings?                         | Standards such as ASME Y14.100, ISO 128, and ANSI Y14.5 provide guidelines for creating and interpreting technical drawings, ensuring consistency and clarity across industries.                                                                         |
| 6 | How do scale and projection methods affect print reading?                                    | Scale determines the proportional relationship between the drawing and the actual object, while projection methods like orthographic projection provide different views. Understanding these ensures accurate interpretation of dimensions and features. |
| 7 | What are common challenges faced when reading industry prints, and how can they be overcome? | Challenges include ambiguous symbols, complex views, and inconsistent standards. Overcoming them involves thorough training, referencing standards, asking clarifying questions, and practicing regularly.                                               |

|    |                                                                                      |                                                                                                                                                                                                                                    |
|----|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8  | How does print reading contribute to quality control in industry?                    | Print reading allows inspectors and workers to verify that manufactured parts conform to design specifications, identify errors early, and ensure that products meet quality and safety standards.                                 |
| 9  | What tools are essential for effective print reading in industry?                    | Essential tools include a scale ruler, magnifying glass, protractor, CAD software for digital prints, and access to relevant standards and documentation to interpret complex drawings accurately.                                 |
| 10 | How is print reading integrated into industrial training and certification programs? | Training programs incorporate theoretical knowledge and practical exercises in interpreting technical drawings, often culminating in certification to ensure workers can accurately read prints and understand industry standards. |

print reading, industrial drawings, blueprint interpretation, technical drawing, manufacturing plans, engineering drawings, schematic diagrams, fabrication drawings, CAD drawings, industrial design

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## **Core Discussion**

Digital books help readers maintain productivity.

## **Practical Use**

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## **Conclusion**

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Another advantage of PDF files is their suitability for long-term storage. PDF standards are well-documented and widely supported, reducing the risk of format obsolescence. Institutions, educators, and professionals rely on PDFs to archive important materials securely, ensuring continued access to content like Print Reading For Industry over time.

### **Optimizing PDF readability for better user experience**

Readability is crucial, especially for long documents. Adjusting zoom levels, page layouts, and display modes can greatly enhance comfort during reading sessions. Many PDF readers offer features such as continuous scrolling, dual-page view, and night mode. These options allow users to customize how they interact with Print Reading For Industry based on their preferences and devices.

Clear typography and sufficient spacing also play an important role. Well-structured PDFs reduce eye strain and improve comprehension. On smaller screens, readers that support text reflow can adapt content dynamically, making Print Reading For Industry easier to read without constant zooming or scrolling.

### **Navigation tools in PDF documents**

Efficient navigation transforms large PDFs into practical



reference tools. Bookmarks allow quick access to major sections, while clickable tables of contents improve usability. These features are especially valuable when working with extensive materials such as *Print Reading For Industry*.

Page thumbnails provide visual orientation, helping users locate specific sections quickly. Combined with internal links and structured headings, navigation tools save time and enhance productivity when using PDF documents regularly.

### **Search functionality and information retrieval**

One of the strongest benefits of PDFs is searchable text. Instead of scanning pages manually, users can locate specific terms or topics instantly. This feature is particularly useful for study, research, and professional reference involving *Print Reading For Industry*.

Advanced PDF readers offer enhanced search options, including result highlighting and navigation between matches. These tools help users analyze content efficiently, especially in documents containing technical or repeated terminology.

### **Annotation and note-taking features**

PDF annotation tools allow users to highlight text, add comments, and insert notes directly into the document.

These features turn static PDFs into interactive learning and working tools. When using Print Reading For Industry, annotations help capture insights, summarize sections, and mark important references for future use.

Annotations are particularly useful for students and professionals who revisit documents frequently. Saving annotated versions ensures that notes remain available, reducing the need for separate files or external note-taking systems.

### **Managing PDF file size and performance**

Large PDF files may load slowly, especially on older devices or limited hardware. Optimizing PDFs improves performance without sacrificing quality. Techniques such as image compression, font optimization, and removal of unnecessary metadata help reduce file size while preserving content clarity in Print Reading For Industry.

For extremely large documents, splitting content into smaller PDF sections can improve navigation and responsiveness. This approach also makes file sharing faster and more reliable.

### **Security and protection in PDF files**

PDFs offer various security options, including password protection, restricted editing, and controlled printing permissions. These features help protect the integrity of

Print Reading For Industry when sharing it publicly or privately.

While security is important, it should not hinder usability. Applying appropriate protection based on audience and purpose ensures that content remains accessible while preventing unauthorized modifications or misuse.

### **Avoiding corrupted or unreadable PDF files**

PDF corruption can occur due to interrupted downloads, storage errors, or incompatible software. To minimize risk, users should download files from trusted sources and verify file integrity when possible. Keeping backup copies of Print Reading For Industry provides added security against data loss.

Updating PDF readers regularly also helps prevent compatibility issues. New versions often include bug fixes and improved support for modern PDF standards, ensuring smoother performance.

### **Cross-device access and synchronization**

Modern workflows often involve multiple devices. PDFs support seamless cross-platform access, allowing users to open the same file on desktops, tablets, and smartphones. Cloud storage services enable synchronization, ensuring that the latest version of Print Reading For Industry is always available.

For users who annotate PDFs, syncing features help maintain consistency across devices. Understanding how annotations are stored and synchronized prevents accidental loss of notes and highlights.

### **Organizing a digital PDF library**

As collections grow, organization becomes essential. Clear folder structures, descriptive filenames, and consistent naming conventions make it easier to manage PDF documents. Proper organization ensures that Print Reading For Industry can be located quickly when needed.

Regular library maintenance—such as deleting outdated files and consolidating duplicates—keeps storage efficient and reduces confusion over multiple versions of the same document.

### **Accessibility considerations for PDF documents**

Accessible PDFs are usable by a wider audience, including those using assistive technologies. Features such as selectable text, logical heading structure, and alternative text for images improve accessibility. When Print Reading For Industry follows these practices, it becomes more inclusive and easier to navigate.

Accessibility enhancements also benefit all users by improving clarity, structure, and overall usability of the document.

## **Best practices for academic and professional use**

In academic and professional environments, PDFs often serve as official records. Maintaining clean formatting, accurate metadata, and consistent structure increases credibility. When distributing *Print Reading For Industry*, attention to detail reinforces trust and professionalism.

Including proper references, citations, and hyperlinks within PDFs allows readers to explore related materials efficiently, adding depth and value to the document.

## **Long-term archiving and backups**

PDFs are well-suited for long-term archiving due to their stability and standardization. Storing multiple backups of *Print Reading For Industry*—both locally and in cloud environments—protects against hardware failure and accidental deletion.

Clear version labeling helps users track updates and revisions, preventing confusion when multiple editions exist over time.

## **Future-proofing your PDF usage**

Although technology evolves, PDFs remain adaptable. Staying informed about updated standards and tools ensures continued compatibility. Periodically reviewing storage methods, reader software, and security practices helps keep *Print Reading For Industry* accessible in the

future.

Using widely supported PDF features rather than proprietary extensions increases the likelihood that files will remain usable across platforms and devices for years to come.

### **Final thoughts on PDF best practices**

PDF files are more than static documents; they are powerful containers for structured information. By applying effective navigation, organization, security, and accessibility strategies, users can maximize the value of Print Reading For Industry. With consistent habits and thoughtful management, PDFs remain a reliable solution for learning, research, and professional documentation without unnecessary technical issues.