



ARTS

Asset & Records
Traceability System

Powerful information management software
for the oil, gas and chemical industries



One plant, 1,752 acres of facility divided into 5 units with thousands of vessels, pumps, tanks, valves, engines, filters and more. Each item has its own unique set of design specifications, maintenance schedules, performance capabilities and engineering values known as data points. Multiple systems track the data and associated documents, identify, review and report on each piece of equipment and the millions of data points they represent . . .



The Equipment Itself is inert, but the Plant is a Living, Dynamic, Ever-changing Environment

New machinery is added, upgrades installed, maintenance performed, tests are run... and it is all done by hard working, trained personnel, *complete with human fallibilities.*

Over time, multiple human inputs to the systems often lead to data discrepancies, omissions, inaccuracies, value changes and other data errors resulting in disparate information across systems and across the facility. The undetected corrupt data can pose serious problems to the safe and efficient operation of the plant.

Consider the Following Examples:

- One piece of equipment is listed in 5 different systems, yet each system identifies this item with a different name. ***Which name or ID number is correct and how is it verified?***
- The identical pump may appear in different systems, but showing different maximum pressure ratings. ***Which is correct and how is it verified?***
- The design specification for a vessel was initially input incorrectly (two numbers transposed) to a data system. Subsequently, this value was picked up and placed into other systems. All systems are consistent in reporting this value, but it is still incorrect. ***Consistency does not equal accuracy. What is the correct value and how is it verified?***
- A piece of equipment is brought on-line but not all data base owners are notified. ***How is this situation identified, corrected and verified?***

Now, more than ever, with challenges facing plant performance and productivity, increasing oversight from OSHA and other regulatory agencies and the audits that go along with the oversight, it is vital that plant assets are tracked with traceable, factual, verifiable and actionable information.



Introducing ARTS - A comprehensive Asset and Records Traceability System



Developed for the oil, gas and chemical industries, ARTS represents a breakthrough in information management providing user-friendly, customizable and comprehensive access to correct, clean and consistent data across multiple data sources. With the information provided by ARTS, a facility will improve the quality of data within its engineering applications. Currently, multiple oil and gas companies are using ARTS to track and verify information that is being used to make engineering decisions which affect the efficiency and integrity of its equipment and processes, and the safety of its employees.

The ARTS application enables your facility to identify data discrepancies and deficiencies and correct them - simply and easily.

The Human Factor

The implementation, methodology and maintenance of multiple databases are typically performed by different personnel, possibly organized within different corporate divisions. Much of this data is compiled independently for each effort and doesn't recognize all the systems using this information. This can, and does, result in conflicting information across the facility. This may come in the form of deficiencies such as missing records or data, or discrepancies such as different data for the same equipment, between data sources. Since these data systems typically provide the information upon which critical engineering decisions are made, such deficiencies and/or discrepancies can have a substantial negative impact upon the success, and potentially the safety, of engineering decisions. The ARTS application allows the facility to identify these discrepancies and deficiencies and correct them.

All Data Is Compiled Into One User Interface

The ARTS system combines data into one user interface for quick review and evaluation. Through its high level of configurability, ARTS is able to handle any engineering data or documents stored for any equipment type. Logic inherent to the program permits the facility to compare equipment records between different data sources, even when the naming conventions used in these data sources are different. ARTS also provides an efficient management tool for wholesale changes to data systems at on-site or remote facilities, such as the addition of new units and equipment, structural changes to naming conventions, and more. With ARTS, changes can be made once, correctly, across all systems, which eliminates duplication of efforts and reduces labor costs. In addition, ARTS significantly reduces resource requirements for implementing, maintaining and publishing Process Safety Information. ARTS has been recognized as a PSM program strength during Process Safety compliance audits.



Access to Critical Information

ARTS allows information from engineering applications to be made available to individuals or groups without licensing restrictions. In many facilities the owner of each database controls access to its associated engineering data. Limits on software licensing and concerns regarding data integrity often cause these owners to restrict access to the data applications. Now information can be efficiently available to whoever needs it, when they need it. The ARTS web-based interface also eliminates the need for training on individual engineering applications, which is often required to learn how to navigate the applications to find relevant information and then to understand the data.

All Data is Verified From The Right Records

A unique feature of ARTS is the ability to compare, and then verify, information by linking documents to ARTS data records. An annotation feature allows the source information on these engineering documents to be highlighted and associated with the ARTS equipment record attribute, permitting a clear “traceability” and verification of the correct data associated with the engineering document(s). Through the annotation process, the facility can be confident the discrepancies identified in ARTS are measured against validated and reliably accurate information.

Complex Data Management Made Simple

Have it your way. The ARTS program works with a limitless number of database systems and allows each user to configure their individual preferences including favorite assets, saved searches and user interface screens. Other customized options include import of multiple file or database types, integration or interface with third-party software or systems including document management systems and other site-specific requirements. Ongoing application support programs including technical support and application upgrades are available.



ARTS has been recognized as a PSM program strength during Process Safety compliance audits.

***Complex data management
made simple!***

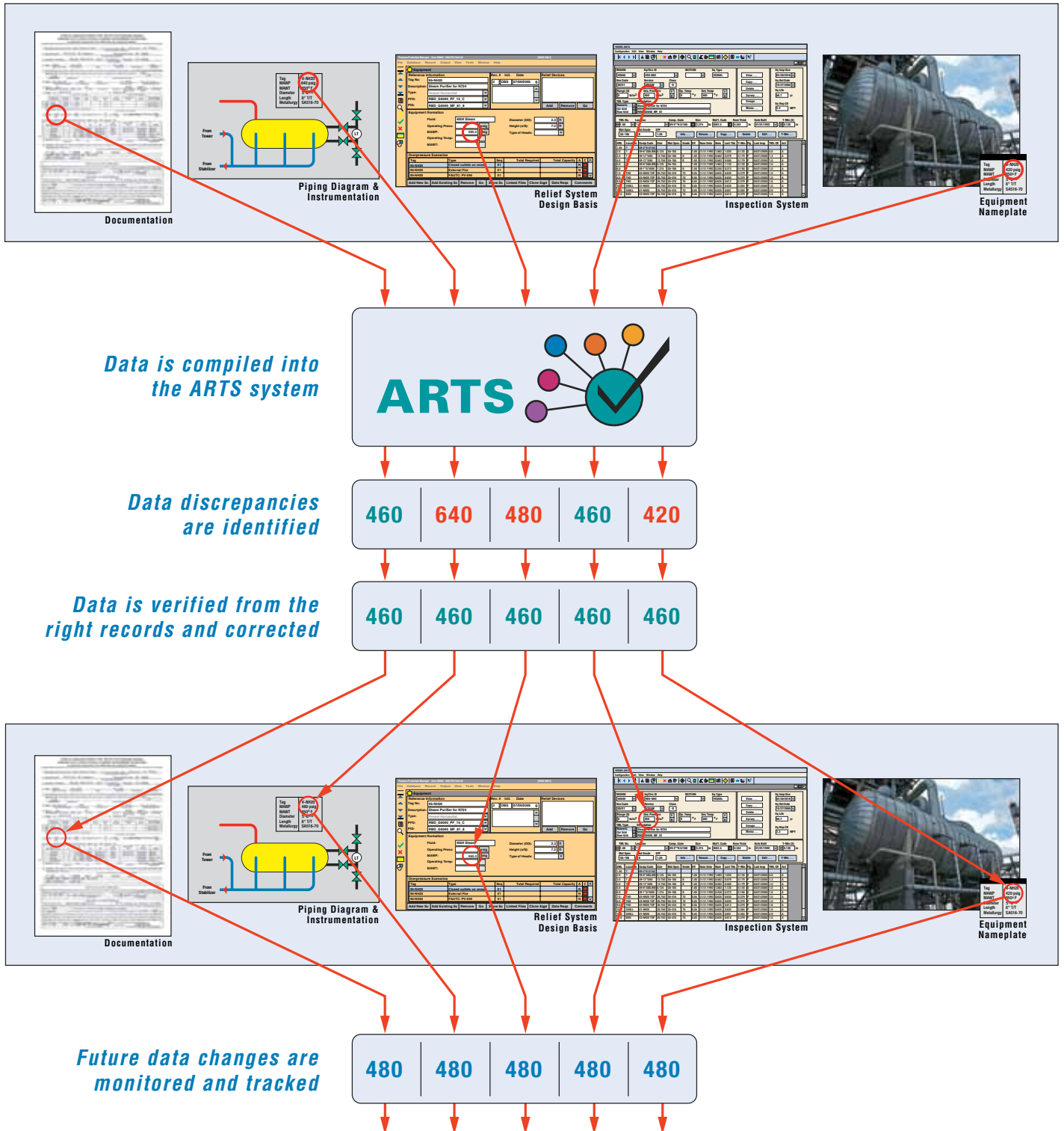
Put ARTS to work for you!



ARTS combines data into a single user interface that is available to all personnel and identifies discrepancies, verifies data from the right records, facilitates data correction, and monitors future changes.

Complex data management made simple!

One example of a Maximum Allowable Working Pressure (MAWP) discrepancy and resolution



ARTS sets a whole new standard for long term data reconciliation and management for petroleum refineries and chemical plants. Put ARTS to work for you!



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