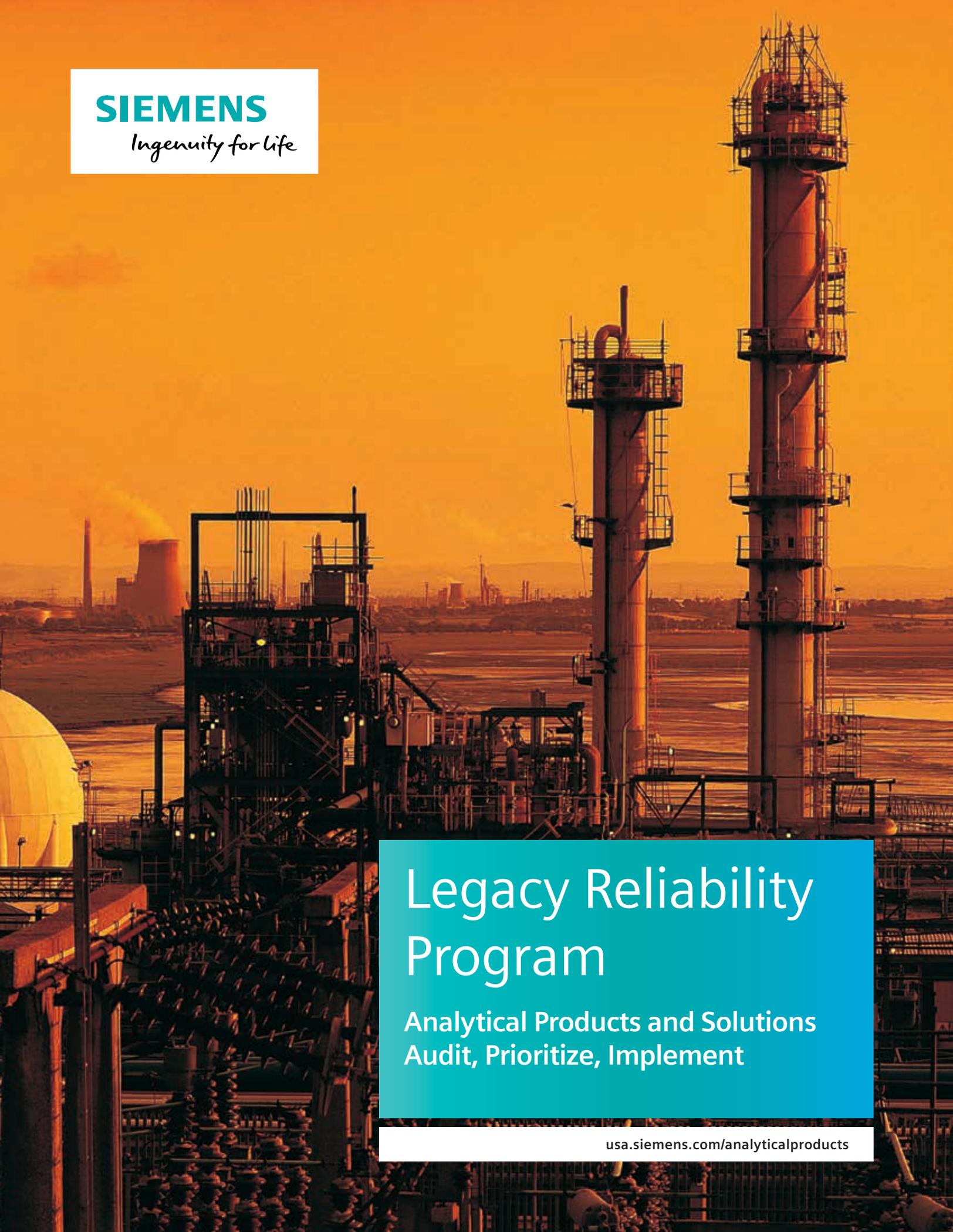




SIEMENS

Ingenuity for life



Legacy Reliability
Program

Analytical Products and Solutions
Audit, Prioritize, Implement

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Siemens Process Analytics Legacy Reliability Program



Upgrade to Analytical Reliability

Any Analytical System

- That has reached the end of their technology life
- Have no or limited availability of spare parts
- Requiring higher maintenance cost due to age
- Where the process requires analytical capability beyond the current installation
- Maintaining the system can challenge the validity of the CSA, CENELEC, or other safety certifications

There are a number of considerations as to why one can delay an upgrade for a Legacy system, some of which include;

- The analytical unit still works....this is a temporary condition
- The replacement cost is more than expected or exceeds the value of the measurement
- A different knowledge base is needed for the new technology.

A Reliability Strategy can Start with an Audit

Siemens can assist in developing an analytical investment plan to assure analytical reliability, both now and in the future. This effort supports your process as the tools and technology adjust to new technology so your analytical reliability is a sustained quality of the measurement over an extended time.

The Siemens Legacy Reliability Program is an opportunity to explore and define value added improvements to existing process analyzer systems. The Siemens Legacy Reliability Program offers a variety of support options and advantages to help achieve analytical reliability in process analytical systems.

The Siemens Process Analytics Legacy Reliability Program provides various levels of site interaction and includes:

- Legacy Audit – Inventory Assessment and Recommendations
- Legacy Engineering Study – Legacy Audit + Measurement Reliability Recommendations
- Legacy Engineering Design - Study + Engineering Detail with drawing package

Each level of the Siemens Legacy Reliability Program will include a written communication to provide options in support of analytical reliability.



These are all valid considerations, however "What is the level of RISK that one can safely apply toward the reliability of a process measurement?". All of these considerations carry a risk that may or may not have a mitigatable resolution.

Siemens Legacy Review Process Scope

Audit	Study	Design	Analyzers
X	X	X	Review process data for each application
X	X		Reviews existing analyzer measurements and provides recommendations for improvement
		X	Review each analyzer application/measurements and identifies optimization opportunities
	X	X	Recommend types of analyzers and technologies required to perform the specified analytical requirement
	X	X	Determine any special requirements for the analyzers and prepare specifications, as required
X			Provides options for improved communications between analyzers and sample handling systems
X	X		Reviews current I/O between analyzer and sample handling system, makes recommendations for improvement
		X	Review all I/O requirements and communication protocols between the analyzers and external systems, both Master and Slave communication devices
	X		Provide limited drawing packages - Drawings for clarification of recommendations
		X	Provides complete drawing packages - Drawings for clarification complete with BOM's

Audit	Study	Design	Sample Systems
X	X	X	Review Sample Handling System performance history
X			Review sample probes and their use and comment
	X	X	Provides recommendations for improving probe or process position of probe
X	X	X	Review sample transport system and comment
	X	X	Review sample transport system and make detail recommendations for improvements
X	X	X	Review sample conditioning system and comment
	X	X	Review sample conditioning system and make detail recommendations for improvements
X	X	X	Review the sample handling system calibration and validation capability
	X		Provide limited drawing packages - Drawings for clarification of any recommendations
		X	Provides complete drawing packages - Drawings engineered, complete with BOM's

Audit	Study	Design	Shelters
X	X	X	Inspect the analyzer shelters for functionality/condition and comment
X	X	X	Review utility requirements for all analyzers associated to the shelter
X	X	X	Review power and air requirements to support any analyzer upgrade
X	X	X	Review safety monitors and HVAC system
	X		Provide limited drawing packages - Drawings for clarification of any recommendations
		X	Provides complete drawing packages - Drawings engineered, complete with BOM's

Audit	Study	Design	Communications
X	X	X	Review the local network and data communications available to support the analyzer performance
X	X	X	Review the layout and configuration of the analyzer network communications to the control system
X			Prepare block communication diagrams representing the communications network
	X		Provide limited drawing packages - Drawings for clarification of any recommendations
		X	Provides complete drawing packages - Drawings engineered, complete with BOM's

Siemens Legacy Upgrade Value

The Siemens advantage provides designs for improved maintenance, capital control, and improved reliability. Siemens will review your existing installations and an advantaged replacement will be offered. An advantaged replacement can be simple as in kind replacement or an enhanced with additional capability for replacing the existing measurement system.

Siemens provides more than just a site Audit, Study, Design deliverable. Choosing Siemens is choosing a partner vested in assuring the success of your analytical reliability. As your partner, Siemens brings experience, proven engineering designs, and a comprehensive range of analytical solutions for delivering a solution to meet the analytical requirements for process needs.

- Experience – Siemens has more than 50 years of analytical experience in the chemical and refining industries
- Engineering – Siemens delivers well design solutions using drawing on their experience in system designs, system integration, and network communications.
- Analytical Performance – Siemens has extensive experience installing analytical systems in the field to achieve maximum analytical performance and reliability.

As an experienced and well known leader in process analytical technology, Siemens is uniquely positioned to provide a solution for achieving analytical reliability supporting your process investment. Contact Siemens today to benefit from Siemens expertise to continue a forward path of Reliability.

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Order No.: PIABR-00004-0417
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