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This document contains a general description of available technical options. Any specific solution(s) will be based on a client's particular requirements and will be addressed in the contract for the project.

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## Solutions for successful Life Science and Critical Environments

Providing the highest level of safety, efficiency, security and compliance

### Answers for infrastructure.

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming, and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly

growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

*"We are the preferred partner for energy-efficient, safe, and secure buildings and infrastructure."*



## Solutions: All from one source.

Siemens has developed customized solutions for your facilities that take a comprehensive approach to meeting the challenges you face every day. From the initial assessment through ongoing support, we provide the systems, the services and the resources to ensure that your facility is as safe, efficient, cost-effective, compliant and secure as it can possibly be. Combining advanced automation technology with extensive industry expertise, the strength of the Siemens solutions lies in the close integration of its technological and procedural-based elements.

Safe, secure and compliant solutions for critical environments like laboratories, critical storage or pressurized spaces and manufacturing facilities increase your building's efficiency and productivity over its entire life cycle.

## Safety, Efficiency, Security and Compliance:

Vital factors for creating your successful life science environments.

Your facility's environmental conditions must meet the highest standard to achieve sustainable success in the life science industry: safety to protect your people and investments, efficiency to keep operational costs to a minimum, security to safeguard assets and unique knowledge, and compliance to fulfill regulatory demands.

Each step in the life science value chain is important for creating a structure that is not only state of the art but supports future investments. Our flexible and scalable systems are easily adapted allowing your company to change and grow as the situations demand, thereby protecting your investments on a continuous basis. Flexibility allows quick migration and extension without losing sight of functional design. Documentation throughout the entire lifecycle ensures efficiency and compliance. Our life science solutions let you focus on your core competence with confidence.



### Life Science Solution Components

We offer a complete lifecycle approach that includes a full array of technology and service solutions including:

- Planning
- Design and Development
- Installation
- Commissioning and Qualification
- Ongoing Operations



Siemens solutions are backed by years of expertise in critical environments such as: laboratories, manufacturing, biocontainment, pressurized spaces and critical storage.

### Assess

#### **Understanding what you need**

To help you understand the current conditions of your facility's systems and develop a plan to address your needs, we can provide assessment surveys. An assessment survey analyzes the critical functions of your environment to identify potential regulatory and efficiency issues.

Our interdisciplinary team identifies those processes that are currently successful as well as areas in need of improvement and targets solutions for maximum benefit. These comprehensive assessments not only provide you with a thorough gap analysis or benchmark, but also form the basis for developing a strategic plan that will guide you in achieving your facility performance and compliance goals.

### Engineer

#### **Building Automation for centralized facility management and control**

At the core of our solutions is the APOGEE® Building Automation System, which provides comprehensive monitoring and control capabilities for critical facility conditions. The system's advanced architecture enables integration with a wide range of BAS components and software to provide excellent opportunities to boost efficiency, lower costs and reduce risks in your facility. With the APOGEE system, you can connect all of your building and research systems, allowing you to monitor, control, plot and report all integrated systems and devices from a single workstation. Its flexible architecture provides the capability to keep pace with the changes occurring in the future. Modifications and additions may be made to both Siemens or solutions from another automation supplier. The APOGEE automation system also helps you meet electronic record and signature regulations by ensuring the integrity of electronic record throughout their entire life cycle — from the point of creation to the end of a record's useful life.

### Manage

#### **Powerful, intuitive access to facility control data**

The APOGEE Building Automation System provides simple, centralized access to facility system information through Insight Workstations. The integrated security model allows facility managers, engineers, scientists and quality control professionals access to information appropriate to their functions using the APOGEE system.

Information management can be further enhanced with the InfoCenter Suite solution, a powerful archival and reporting software package.

The InfoCenter Suite solution allows easy management and retrieval of large amounts of historical data. The report management feature provides for creation of reports which can be scheduled and archived for future reference.

### Service

#### **Maintaining the established state of control**

We can ensure your day-to-day operations are maintained to established standards on a 24/7 basis. Our services will help you maintain the state of control needed to meet regulatory requirements, improve operational and energy efficiencies, support a 24/7 operations, ensure immediate recovery and lock-in long-term system performance. With more than 100 field offices across North American, Siemens has local service technicians who are highly experienced and easily accessible to you to provide quality service when you need it.

We offer a full complement of services, including Customer Support, Compliance Services, Facility Information Services and a wide range of Technical Support Services to keep your systems up and running now and in the future.

### Highlights

- Energy management applications
- Monitoring, archiving, alarming and reporting
- Data analysis
- Ongoing services and improvements



#### Markets we serve:



- Pharma/Biotech
- Higher Education
- Government
- Healthcare

#### Solutions we provide:



- Laboratory
- Biocontainment
- Animal Research
- APOGEE Compliance
- Critical Storage

### Your reliable partner for the entire life cycle of your facility

Your success is based on the exact combination of organizational measures, the proper environment structure, and its ability to fit your current and future needs. As a strategic partner with the perfect balance of technology and industry know-how, we can provide the level of support essential to your success. From concept to building maintenance, data administration to archiving, Siemens is your reliable partner for a successful environment throughout your facility's entire life cycle.

Contact Siemens today and find out how we can help.

From planning and design through installation and commissioning — and afterwards with ongoing maintenance — we provide the solutions, systems, services and resources to ensure your facilities are safe, efficient, secure, cost-effective and compliant.