



## Scientific Conservation, Inc. SCIwatch™

### Recommissioning a Site – Frequently Asked Questions

#### **Q. What are the benefits of recommissioning?**

A. Recommissioning in general provides a retuning of all electrical and mechanical systems to maximize system uptime, ensure systems are operating within optimal tolerances, and achieve the greatest levels of energy efficiency to help reduce annual energy spend and reduce harmful emissions.

Continuous commissioning, delivered by SCIwatch, provides many additional benefits including:

1. A traceable, predictive and constantly up-to-date baseline of the energy consumption of the facility systems being monitored
2. The most comprehensive diagnostics available in the market
3. Prioritization of system anomalies
4. Ongoing, real-world measurement of operational efficiency
5. Predictive tools to accelerate responsiveness to operational degradation
6. Continuous tracking of the service resolution process

#### **Q. What is required before recommissioning begins?**

A. Establish what your goals and obligations will be during and after recommissioning your facility

1. Identify the economic model that includes both energy and avoided operational costs plus a pool of funds for repair in support of this initiative. SCI can provide guidance, academic research results and customer case studies in support of this process.



2. Educate executive team to the benefits of recommissioning. Suggest using the SCI white paper in support of this effort.

3. Make sure that IT understands what will be required of them and allot time for configuring the network to allow an outside party controlled access to the BAS through the network. Typically this is done through a VPN connection.

4. Prepare staff to provide technical data on the systems and equipment at the facility. SCI provides a comprehensive form that spells out the background information required.

**Q. What information do I need to have at hand for the recommissioning process to be successful?**

A. Collect system data consisting of design information, BAS information (make, model, access information, IP address or phone number, user name, password), and utility bills dating back at least two years. SCI provides a comprehensive form that spells out the background information required.

**Q. Do I need any training to maintain a recommissioned building?**

A. Users of the SCIwatch diagnostics infrastructure only need to know how to use a web browser to access the information provided through SCIwatch. Integrated with standard operations and maintenance information on the customer's systems, SCIwatch allows the customer to close the loop on tracking and maintaining the highest level of operational efficiency and risk mitigation available on the market today.

**Q. How long will it take to recommission a building and what should I expect to see during the process?**

A. Assuming all required data is provided, the diagnostics data flow will occur almost immediately. Initially the diagnostics will identify

very basic issues such as faulty sensors, overlapping heating and cooling and flawed schedules. As the database collects more data the diagnostics engines will continuously tune themselves to further increase the accuracies of the modeling and the identified anomalies. This will assure that maximum operational efficiency is being achieved and maintained.

In the case of SCWatch, deployment time is exceptionally fast. Recently, three 150k+sq. ft. retail buildings with different footprints were deployed in a matter of hours without taxing the support staff. SCWatch is specifically designed to handle a high volume of facilities for rapid continuous commissioning.

**Q. Will there be any interruption in normal operations during the recommissioning process?**

A. There will be no interruption in normal operations. There may be some short periods when fluctuations in certain systems occur. This may happen when the diagnostics engine exercises VAV boxes to check proper performance (this is an optional service, contact SCI for further information). SCWatch does not impede normal system operations.

**Q. What should be expected when SCWatch starts reporting?**

A. Initially SCWatch will identify bad sensors and insufficient data needed to perform analysis on site systems. Once sensors are fixed or replaced SCWatch generates faults by priority. The priority is set by the user.

**Q. Do I need to do anything to maintain SCWatch?**

A. No. SCI maintains the SCWatch platform freeing users to leverage the results to fix identifiable system faults and anomalies. SCI suggests using the priority tool in the user interface to prioritize



what, if any, systems require special monitoring. It is also recommended that if there is a question about an anomaly that the tracking mechanism be used for dispatch to SCI. The SCIwatch team will respond with technical support.

**Q. What do I do if I have any questions or concerns regarding the results being generated?**

A. Send the particular anomaly via the user interface to the SCIwatch tech support team to help evaluate and resolve any issue. SCI encourages you to do so since this helps SCI to improve the operation of its software. There is no cost for sending these requests.

###