



## Statement on RoHS Compliance

(July 8, 2008)

Scientific Systems, Inc. (SSI) is committed to providing RoHS compliant products to our customers in the near future, and we are presently working toward this goal. This document is intended to provide information on our current activities and future planning for this conversion, including timing. As the process moves forward, we will update the information and continue to communicate to our customers the anticipated dates for the shipping RoHS products.

### BACKGROUND

The current Directive on Restriction of Hazardous Substances (RoHS), 2002/95/EC, restricts placing on the market equipment containing six substances: cadmium, lead, mercury, hexavalent chromium, and polybrominated biphenyl- and polybrominated diphenyl-ether flame retardants. Categories 8 and 9 in the WEEE Directive covering medical, and monitoring and control equipment are currently excluded from the scope of the RoHS Directive. However, manufacturers within these categories are encouraged to convert products prior to any mandated deadlines. Categories 8 and 9 are expected to be included the RoHS directive by 2010 at the earliest and likely by 2012.

The RoHS Categories are found in the table below.

Category	Products
1	Large household appliances
2	Small household appliances
3	IT and telecommunications equipment
4	Consumer equipment
5	Lighting equipment
6	Electrical and electronic tools (with the exception of large-scale stationary industrial tools)
7	Toys, leisure and sports equipment
<b>8</b>	<b>Medical devices (with the exception of all implanted and infected products)</b>
<b>9</b>	<b>Monitoring and control instruments</b>
10	Automatic dispensers

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According to the guidelines, the following products are currently exempted from RoHS compliance:

**Large stationary industrial tools**

**Industrial test and measurement instruments**

**Control and monitoring equipment**

**National security use and military equipment**

**Medical devices and instrumentation**

Radiotherapy equipment

Cardiology

Dialysis

Pulmonary ventilators

Nuclear medicine

Laboratory equipment

Analyzers

Freezers

Fertilization tests

Other appliances for detecting, preventing, monitoring, treating, alleviating illness

**Some light bulbs and some batteries**

**Spare parts for electronic equipment in the market before July 1, 2006.**

Based on the available information, all SSI products fall under Categories 8 and 9, and therefore exempt from the RoHS directives. This is a generally accepted conclusion within all suppliers in the HPLC industry. It is widely known that the exemptions apply to a diverse range of electronic equipment manufacturers.

Again, although SSI products will not likely required RoHS compliance until the year 2012, the company is actively working on the conversion. SSI's approach to achieving RoHS compliance will follow three basic steps, as described below.

**Initial PCB and Other Electrical Part Conversions:** Simple SSI printed circuit boards, or PCBs, (such as the keypad and Series-I Power/Control PCB) will be converted to a silver solder process with RoHS components. In addition, as major suppliers of other electrical components convert to RoHS (e.g. motors, power supplies, fans, etc.), these items will be incorporated into SSI standard pump products. Testing will be conducted as required prior to implementation.

**Series-III Power/Control PCB Conversion:** The SSI Series-III boards are used in most of our pump products. These PCBs will be converted as a separate phase of the project. Concurrent with the use of silver soldering and RoHS components, the boards will also see an upgrade. Improvements include elimination of the battery back-up and reduction in transducer transient noise. Extensive life testing and performance evaluations will be conducted.

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**Documentation Control and Final Conversion:** As the remaining purchased parts are converted to RoHS, the company's MRP and Part Number control system will designate each item accordingly. Vendor back-up information will be archived. Once SSI has the complete array of parts designated at RoHS, a certificate of compliance will be created and shipped with all products.

TIME TABLE

Activity	Expected Completion	Comments
Front Panel Board and Series-I PCB converted to RoHS	Complete	Board designs did not change. Components were available. Life testing complete. PCB supplier using silver solder. Customer cutover ongoing.
Other supplied electrical parts converted to RoHS	Mostly Complete	Motors (Pacific Scientific), Power Supplies (Lambda), Fans and Power Entry Modules are currently marked RoHS by suppliers. Companies have proactively made the conversion. Most other electrical components (connectors, etc.) also RoHS.
Create new field in MRP data base indicating RoHS compliance	July, 2008	As purchased parts are certified RoHS by suppliers, status will be indicated in data base with "R" designation. Ongoing once new column is added.
Series-III (2-board set) PCBs redesigned for RoHS conversion	Aug., 2008	Current design under review. Battery back-up to be eliminated and other improvements added.
Series-III RoHS PCB prototype build and testing	Oct., 2008	Evaluation to include full functional check, drop & shake, simulation of customer use, and life testing.
Elimination of non-RoHS compliant conversion coatings on brackets and other parts	Nov., 2008	Work with current sheet metal suppliers to find a suitable alternative. Engineering to perform environmental testing for corrosion resistance.
Cut-over Series-III PCBs to new RoHS version	Dec., 2008	Distribution customers will be given approximately one month notice, then all will cutover. OEMs will be handled on an individual basis. Some changes to manuals and spare parts lists will occur.
Verify all other purchased parts are RoHS compliant. Find replacements, if not	March, 2009	Ongoing effort once data base is set-up. As items are verified, data base will be updated.
Arrange certificates of compliance from suppliers and archive	April, 2009	Ongoing effort once data base is set-up. Ensure a certificate is archived if data base shows compliance.
All part numbers in system updated with "R" designation, indicating RoHS compliance	May, 2009	Ongoing effort once data base is set-up. Ensure all parts are captured into system, and any new parts are also verified RoHS and documented.
Products are RoHS compliant - create compliance certificate and ship with all SSI products	June, 2009	Completed well within anticipated deadlines.