

## ISO 14001 FAQ's

### 1. **What is the ISO standard or series of standards that refer to environmental issues?**

ISO 14000 or specifically ISO 14001.

### 2. **What is ISO 14001?**

It is the standard covering **Environmental Management**. This standard is intended to provide the elements of an effective EMS which can be integrated with manufacturing operational requirements and provide assistance in achieving environmental and economic goals.

### 3. **What does EMS mean?**

**E**nvironmental **M**anagement **S**ystem - it is the acronym used in the ISO standard to define how the business unit integrates environmental issues into operations to optimize environmental performance.

### 4. **Who is your ISO 14001 Management Rep?**

Steve Browne, Facilities Manager, Plant Services Department.

### 5. **Why has Renesas implemented an EMS in alignment with ISO 14001?**

- Improve performance: operational efficiency can be closely linked to environmental performance
- Demonstrate good Environmental Management to customers, investors, employees, and the public
- Increase marketability of products

### 6. **Each manufacturing area has an Environmental Management System (EMS) specification that provides guidance for maintaining a system that minimizes the risk for environmental impacts.**

7. Did you know . . . . The ISO 14001 team has conducted an aspects analysis to determine the site's **significant environmental impacts**. Renesas is addressing the following significant environmental aspects and their impacts for **FY17**.

- Reduce energy consumption.
- Reduce nitrogen usage and compressed dry air usage.
- Reduce chemical and water usage.
- Improve site utilities infrastructure.

These environmental improvement projects are excellent examples of how environmental improvements can lead to improved operating efficiencies.

8. The following are the past 3 years results of our resource reduction efforts

#### • **Energy Reduction**

2015 – 7.5 KWH per CM2

2016 – 6.8 KWH per CM2

2017 - 6.7 KWH per CM2

- **Nitrogen Reduction**

2015 – 118 SCFM per CM2

2016 – 115 SCFM per CM2

2017 – 90 SCFM per CM2

- **Potable Water Reduction**

2015 – 2.3 Gal per CM2

2016 – 1.5 Gal per CM2

2017 – 1.2 Gal per CM2

- **Infrastructure Improvements**

2015 – Perform mechanical integrity tests on deep wells, install new 1100 ton chiller

2016 – Construct new gas bottle storage building, replace all exterior mechanical room roll up Doors

2017 – Demo old gas bottle storage building, replace roof membrane on chemical storage Building, repair storm water drains, clear out storm drainage swales

9. **What does Renesas expect of employees regarding implementation of ISO 14001?**

- Know that Renesas has an environmental policy and understand the 3 policy statements
- Conduct your job with awareness of adhering to environmental procedures- the manufacturing areas that have the potential to create an environmental impact have area specific EMS specifications that provide guidance on how your job is integrated into the EMS. Understand how your job may have an impact on the environment!
- Know your ISO 14001 management representative Steve Browne.

Remember . . . . **I**mprove Continually, **P**revent Pollution, and **O**bey the Law



