

10. Environmental Management Systems and ISO 14000

10.1. Environmental Management Systems (EMS's)

An EMS is built around how an enterprise operates, focusing on its processes and its general system of management. An EMS does not focus on the “nitty-gritty” of fugitive emissions, waste streams and the like. In other words, an EMS focuses more on *how* rather than on *what*.

Problems with the traditional approach



The traditional approach to environmental issues is *reactive*-nothing is done until:

- a new regulation comes into force.
- competitors may steal a lead by using a cleaner process that is more efficient.
- an embarrassing incident forces the issue, perhaps involving lawsuits.



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Environmental Management System



By contrast, an EMS (like a quality management system) is *strategic*-progress is made through a deliberate and continual process of analysis, planning and implementation. The process can be summed up in four words: *plan, act, review & revise.*

Commitment



Note that the EMS will only succeed if management are *genuinely committed* to the whole process (and seen by employees to be so)- if it is simply a token PR exercise it will fail.

10.2. ISO 14000



- Based on British standard BS7750, the International Standards Office (based in Geneva) introduced ISO 14001 as its main EMS component. Now generally accepted worldwide.

The ISO 14000 “family”

- ISO 14001 Environmental Management Systems-specification with guidance for use.
- ISO 14004 Environmental Management Systems-general guidelines
- ISO 14010s Guidelines on Environmental Auditing
- ISO 14020s Environmental Labeling
- ISO 14030s Evaluation of Environmental Performance
- ISO 14040s Life Cycle Assessment
- ISO 14050 Terms & Definitions
- ISO 14060 Guide for Including Environmental Aspects in Product Standards

10.2.1. ISO 14001

- This is the only part that is required for certification- the remainder are optional guidelines.



This Certificate is issued by SGS International Certification Services, Inc.

Certificate Number: US2000/2143

This is to certify that the Environmental Management Systems of:

AMERICAN BUREAU OF SHIPPING
16855 Northchase Drive
Houston, Texas 77060-6008

have been assessed and registered as meeting the requirements of ISO 14001: 1996.

Scope of Assessment:

Development and verification of standards for the design, construction, and operational maintenance of marine related facilities and equipment.

Authorized by:

A handwritten signature in black ink, appearing to be "E. J. ...", is written over a horizontal line.

Director

For:
SGS International Certification Services, Inc.
Meadows Office Complex
201 Route 17 North
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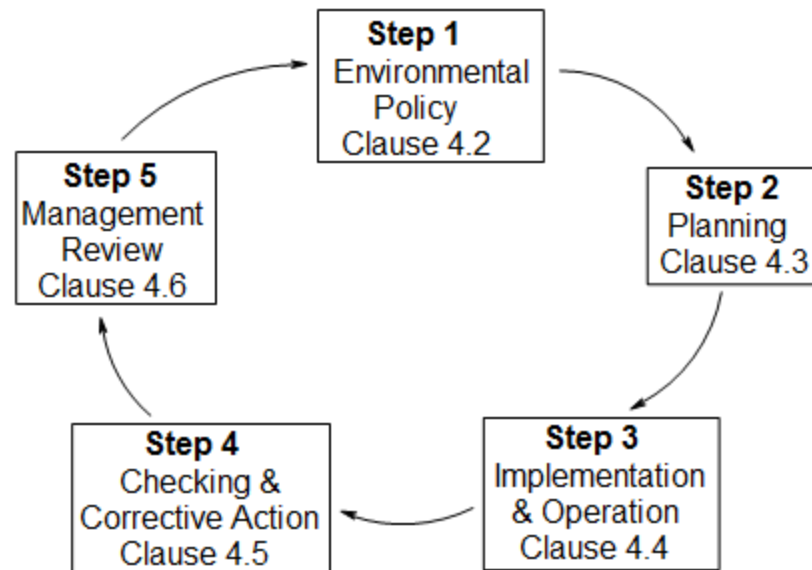


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The EMS process in ISO 14001

1. Environmental policy
2. Planning
3. Implementation and operation
4. Checking & corrective action
5. Management review



Essential elements of the ISO 14001 EMS

- Commitment & involvement of top management.
- The enterprise's environmental policy- this must include commitments to:
 - Compliance with environmental regulations
 - Continual improvement
 - Pollution prevention (P2)
- Environmental management programs (action plans, projects, initiatives).