## ISO 14001 Environmental Management System Conformance vs. Environmental Compliance

### Are they equivalent?

(Does having an ISO 14001 Registration Certificate from a third-party auditor ensure you are in compliance?)

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## **Outline for Today's Presentation**

- ▶ Objectives of Environmental Regulations/Laws.
- ▶ Objectives of ISO 14001 Standard.
- ► Summary of ISO 14001 Standard.
  - The Environmental Management System (EMS).
  - ISO 14001 Elements.
  - . EMS Objectives and Targets.
- ▶ "Conformance" vs. "Compliance."
  - · Are they equal?
  - Does having an ISO 14001 Registration Certificate from a third-party auditor ensure you are in compliance?

2

## **Objectives of Environmental Regulations/Laws**

- ► Laws are written by government authorities: Senate, Congress.
- ► Regulations written by government-appointed agency: FPA
- ► Each environmental law has a specific objective to minimize impacts to human health and/or the environment.
  - Air, Water, Hazardous Materials, Wastes.



## **Summary of Environmental Regulations/Laws**

- ▶ Regulations have specific requirements to "comply" with:
  - · Air permitting impacts to air.
  - Storm water permitting impacts to surface waters.
  - Tier II Reporting notifying community of hazards.
  - Drum labeling tracking cradle to grave.
- ► Agencies audit.
- ▶ Notice of Violation if one does not "comply."
  - Fines, Increased Agency Oversight, Jail Time.



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## Objectives of ISO 14001 Standard

- Implement a systems approach to environmental management.
- ▶ Assumes one has a regulatory compliance baseline.
  - Compliance is a component of ISO 14001 Standard.
- Go above and beyond regulatory compliance (overall impacts to environment – i.e., shipping and diesel emissions).
  - Good neighbor principle. Mom, pie, and USA.
- ▶ Key Objective is Continual improvement.



## Summary of ISO 14001 Standard

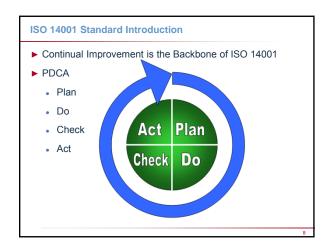
- ▶ ISO = International Organization for Standardization based in Geneva. Switzerland.
- ▶ ISO 14001 standard.
  - · Standard is 6 pages long.
  - Write EMS to meet 44 "shall" statements.
  - Identify Significant Impacts & Set Targets to Reduce.
- ► Third-party registration body audits and provides ISO 14001 EMS certification.

6

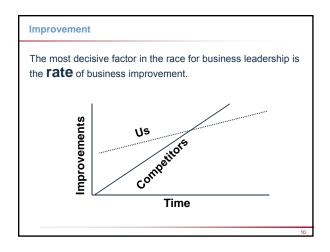
## Summary of ISO 14001 Standard

- ▶ The ISO 14001 elements are not stand-alone principles.
  - A facility must implement and integrate them all to receive registration/certification from third party.
- ► EMS Documentation. Facility is audited against what it writes in its EMS.

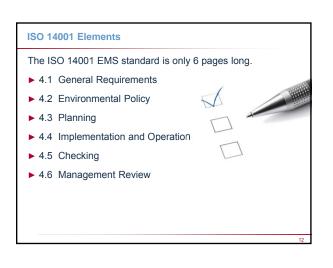


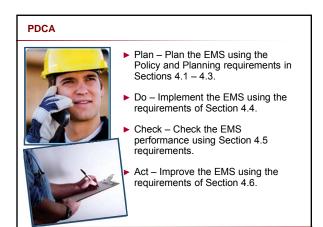


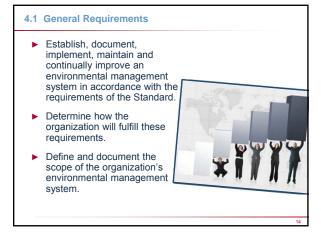
## ISO 14001 Considers Views Of "Interested Parties" ➤ Customers ➤ Shareholders ➤ Community ➤ Neighbors ➤ Governments ➤ Employees ➤ NGOs ➤ Environment itself

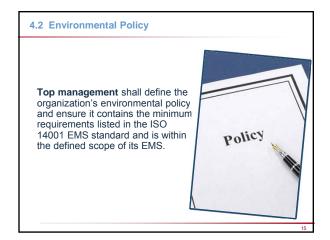




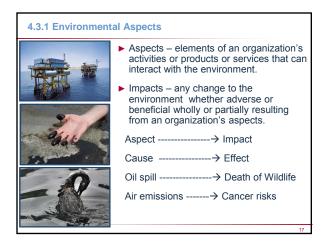


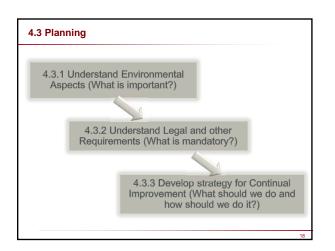




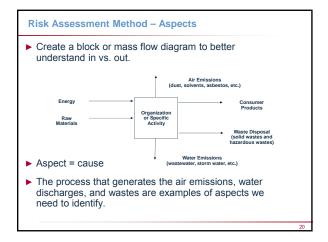






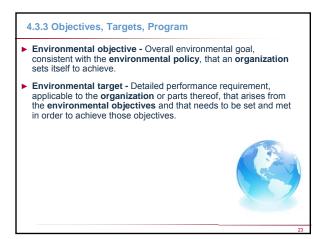


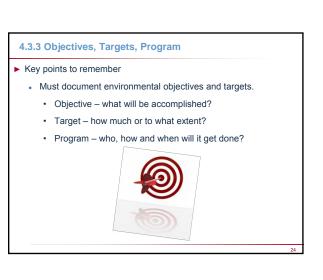




# Risk Assessment Method – Impacts Look at the possible impacts of an aspect. Impacts = the effect of the aspect. Air Emissions (dust, solvents, asbestos, etc.) Consumer Products or Specific Activity Waster Emissions (wastewater, storm water, etc.) Disposing of wastes in landfills – fills landfills and reduces use of that land for other purposes.







# 4.4.1 Resources, Roles, Responsibility and Authority 4.4.2 Competence, Training and Awareness 4.4.3 Communication 4.4.4 Documentation 4.4.5 Control of Documents 4.4.6 Operational Control 4.4.7 Emergency Preparedness and Response



## 4.6 Management Review

- ▶ Top management needs to be involved.
- ► Review the EMS at planned interval
  - Ensure its continuing suitability, adequate, and effectiveness.
- Assess opportunities for improvement and the need for changes to the EMS, including the
  - environmental policy and environmental objectives and targets.
- ▶ Records of the management reviews shall be retained.
- ▶ Outputs to include decisions and actions related to
  - possible changes to environmental policy, objectives, targets and other elements of the EMS, consistent with the commitment to continual improvement.

## 4.6 Management Review (cont)

- ▶ Input to management reviews include:
  - Results of internal audits and evaluations of compliance with legal requirements and with other requirements to which the organization subscribes.
  - b) Communication(s) from external interested parties, including complaints.
  - c) The environmental performance of the organization.
  - d) The extent of which objectives and targets have been met.
  - e) Status of corrective and preventive actions.
  - f) Follow-up actions from previous management reviews.
  - G) Changing circumstances, including developments in legal and other requirements related to its environmental aspects.
  - h) Recommendations for improvement.

28

## ISO 14001 Conformance vs. Environmental Compliance

### Environmental Compliance Environmental compliance is to be EMS assumes regulatory compliance confirmed by the facility staff during its internal audits and implementation of is a baseline, but does NOT require the ISO 14001 lead auditor to confirm. the EMS. EMS requires going above minimum No extra credit given for going above regulatory compliance requirements. regulatory compliance requirements. Audit is usually a Pass/Fail evaluation. ISO 14001 lead auditor looks for Compliance is mentioned as a conformance with the written EMS component of the legal portion of the planning section of ISO 14001. and the 44 shall statements; auditor is NOT required to confirm compliance with environmental regulations. The training and certification program The ISO 14001 lead auditor may have for ISO 14001 lead auditors does no environmental compliance auditing NOT require regulatory compliance experience and could miss an obvious auditing experience.

## ISO Conformance vs. Environmental Compliance

- Conformance with the ISO 14001 Standard does not assure that a facility is in compliance with the environmental regulations.
- Having an ISO 14001 third-party certified registration is an accomplishment to put in front of stakeholders, the community, clients, etc.
  - However, do not assume that everything is ok under the hood because of the shiny bow on the outside.



30

## Questions??

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If you would like more information, or have any questions, contact me.



THANK YOU!