



Environmental management systems are increasingly being used by organizations to integrate environmental considerations into day-to-day management decisions and practices.

Pollution Prevention Planning and Environmental Management Systems

Where an EMS already exists, a pollution prevention plan (P2 Plan) can be prepared using the EMS framework. Focussing on pollution prevention can improve environmental performance while supporting the environmental objectives and targets already established in the EMS.

The environmental review completed for an environmental management system can be used to provide baseline information for a pollution prevention plan:

Developing an environmental management system (EMS) involves reviewing operations, products and services and identifying aspects with potential to impact the environment. The information gathered during the development of an EMS can also be used to identify pollution prevention (P2) options, and pinpoint substances, processes, products, and services on which to focus P2 efforts.

When developing a P2 Plan, build on objectives, targets, and action plans identified in the EMS:

Review commitments and action plans within the EMS to ensure they are consistent with P2. Some may serve as the basis for a P2 Plan; others may need to be modified to incorporate P2 and achieve P2 planning goals. In some cases new objectives, targets, and actions will be needed.

Use existing systems for monitoring and reporting on a P2 Plan:

An EMS establishes procedures for monitoring and regular reporting to senior management. By incorporating P2 objectives, targets, and action plans into its EMS, an organization can monitor and report on progress towards P2 planning goals through its existing management systems (e.g., corrective action program, regular management reviews).

Step by step...

Refer to the table on the next page to learn how a P2 Plan can be developed in conjunction with the EMS elements identified in *ISO 14001:2004 – The International Standard on Environmental Management Systems*.

Want to know more?

Here are some additional sources of information about P2 and P2 planning:

Pollution Prevention Planning Database and Web site

www.ec.gc.ca/cepap2

This site contains valuable information such as:

- *Pollution Prevention Planning Handbook and model plan*
- *Pollution Prevention Planning Fact Sheets*

Canadian Pollution Prevention Information Clearinghouse (CPPIC)

www.ec.gc.ca/cppic

An online P2 database and comprehensive resource that provides quick access to over 1800 relevant P2 resources including case studies, fact sheets, training manuals/guides, toolkits, web sites, and much more.

Pollution Prevention Success Stories

www.ec.gc.ca/pp

A web site showcasing over 100 success stories recognizing the P2 results achieved by companies, institutions, organizations, and facilities across Canada.

International Organization for Standardization

www.iso.org/iso/iso_catalogue/management_standards.htm

ISO 14001 EMS Elements	Developing a P2 Plan in conjunction with an EMS framework
4.2 Environmental Policy	Within the environmental policy, commit to the principle of P2 and to favouring P2 practices where feasible.
4.3.1 Environmental Aspects	Use the initial environmental review, conducted as part of EMS development, to identify significant environmental aspects that should be the focus of the P2 Plan. Ensure scope of EMS and scope of P2 Plan are consistent, or document the differences.
4.3.2 Legal and Other Requirements	Reference any legal requirement to prepare a P2 Plan (e.g., CEPA 1999) if applicable, or state voluntary commitment.
4.3.3 Objectives, Targets, and Programs	Revise existing objectives, targets, and management program to emphasize P2 over pollution control; add measurable objectives and targets specific to pollution prevention, if appropriate.
4.4.1 Resources, Roles, Responsibility, and Authority	Designate a P2 manager and establish a P2 team to ensure P2 Plan is implemented in accordance with objectives and targets. Team members could overlap with existing EMS team. Clearly assign roles, responsibilities, and accountability.
4.4.2 Competence, Training, and Awareness	Ensure appropriate staff receives training on P2 concepts, P2 practices applicable to their duties, and any new or revised targets and operating procedures resulting from the P2 Plan.
4.4.3 Communication	When communicating progress toward achieving objectives and targets, include progress toward P2 objectives and targets established in the P2 Plan.
4.4.4 Documentation	Reference the P2 Plan and associated objectives, targets, procedures, and records within EMS documentation.
4.4.5 Control of Documents	Document control procedures should cover the P2 Plan and associated procedures and records.
4.4.6 Operational Control	Revise operating procedures to include P2 techniques, as appropriate. Certain P2 targets may require revisions to specific operating procedures or development of new procedures.
4.4.7 Emergency Preparedness and Response	Ensure emphasis is placed on preventing emergencies within this procedure and within operational controls.
4.5.1 Monitoring and Measurement	Existing monitoring and measurement procedures should be followed (and revised, as required) to monitor progress toward achieving P2 objectives and targets established in the P2 Plan.
4.5.2 Evaluation of Compliance	Revise procedures to evaluate compliance with any legal requirement to prepare a P2 Plan.
4.5.3 Non-conformity, Corrective Action, and Preventive Action	P2 should be an important element of the <i>preventive action</i> process. Establish procedures for correcting non-conformity to any legal requirement to prepare a P2 Plan.
4.5.4 Control of Records	Maintain records related to development, implementation, and maintenance of the P2 Plan in accordance with records management procedures.
4.5.5 Internal Audit	If the P2 Plan is integrated within the EMS, the scope of the EMS audit will include all elements of the P2 Plan.
4.6 Management Review	Management review should include a review of progress toward achieving P2-related objectives and targets, and any factors preventing their achievement (internal and external barriers).

For further information, please contact

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