

Companion Document

INITIAL SET OF ACTIONS FOR CANADA-WIDE STANDARD FOR BENZENE

The following sectors have been pursued for Phase 1 reductions:

- Oil and Gas
- Transportation
- Petroleum
- Chemical Manufacturing
- Steel Manufacturing

For each of the above sectors, the following table outlines the instrument to be used to achieve the reductions in emissions/releases, the specific actions related to that instrument, the responsibility for the actions, reporting responsibilities and % reduction to be achieved expressed in terms of % reduction for that component and % contribution to the overall Phase 1 goal of 30%.

Table 1 Set of Initial Actions - Phase 1 of the Benzene Canada-Wide Standard

Sector - Oil and Gas						
Component	Instrument	Actions	Responsibility	Reporting Mechanism	Estimated % Reduction	
					% of the Component Goal	contribution to the 30% Goal
Natural Gas Dehydrators	<ul style="list-style-type: none"> Best Management Practices 	<ul style="list-style-type: none"> Implement through information letter process issued by jurisdictional regulatory agencies 	<ul style="list-style-type: none"> Alberta, Saskatchewan, British Columbia - Lead Environment Canada, Health Canada - Support 	<ul style="list-style-type: none"> Technical Advisory Team (which includes Alberta, Saskatchewan, British Columbia and federal government (Environment and Health) as well as industry and environmental group representatives) 	60%	13%

Sector - Transportation						
Component	Instrument	Actions	Responsibility	Reporting Mechanism	Estimated % Reduction	
					% of the Component Goal	contribution to the 30% Goal
Gasoline	<ul style="list-style-type: none"> CEPA Regulation limiting the benzene content in gasoline 	<ul style="list-style-type: none"> Enforce the regulation 	<ul style="list-style-type: none"> Environment Canada 	<ul style="list-style-type: none"> Environment Canada 	15%	10%
Vehicles	<ul style="list-style-type: none"> New vehicle emission standards and vapour recovery standards on new vehicles 	<ul style="list-style-type: none"> Process for implementation 	<ul style="list-style-type: none"> Environment Canada 	<ul style="list-style-type: none"> Environment Canada 	7%	4%

**Table 1 Set of Initial Actions - Phase 1 of the Benzene Canada-Wide Standard
(cont.)**

Sector - Petroleum						
Component	Instrument	Actions	Responsibility	Reporting Mechanism	Estimated % Reduction	
					% of the Component Goal	contribution to the 30% Goal
Gasoline	<ul style="list-style-type: none"> CEPA Regulation on Fuel Dispensing Rates 	<ul style="list-style-type: none"> Enforce the regulation 	<ul style="list-style-type: none"> Environment Canada 	<ul style="list-style-type: none"> Environment Canada 	44%	1%
Refineries	<ul style="list-style-type: none"> Voluntary agreement Jurisdictional regulatory requirement 	<ul style="list-style-type: none"> Modified CCME Environmental Code of Practice for Measurement and Control of Fugitive VOC Emissions from Equipment Leaks 	<ul style="list-style-type: none"> Jurisdictions Individual refineries 	<ul style="list-style-type: none"> Jurisdictions 	43%	1%

Sector - Chemical Manufacturing						
Component	Instrument	Actions	Responsibility	Reporting Mechanism	Estimated % Reduction	
					% of the Component Goal	contribution to the 30% Goal
Chemical Manufacturing Plants	<ul style="list-style-type: none"> MOU between Environment Canada and the Canadian Chemical Producers Association (CCPA) 	<ul style="list-style-type: none"> Ministerial Approval of the MOU Voluntary agreement to reduce plant emissions CCME Environmental Code of Practice for Measurement and Control of Fugitive VOC Emissions from Equipment Leaks 	<ul style="list-style-type: none"> CCPA/Environment Canada Jurisdictions 	<ul style="list-style-type: none"> CCPA – through MOU with Environment Canada Environment Canada Jurisdictions 	70%	1%

**Table 1 Set of Initial Actions - Phase 1 of the Benzene Canada-Wide Standard
(cont.)**

Sector - Steel Manufacturing						
Component	Instrument	Actions	Responsibility	Reporting Mechanism	Estimated % Reduction	
					% of the Component Goal	contribution to the 30% Goal
Steel Mills	<ul style="list-style-type: none"> Environmental Code of Practices for Integrated Steel Producers Canadian Steel Producers Association (CSPA) Benzene Environmental Best Practice Manual for Coke Producers in Ontario MOU between Environment Canada and Dofasco 	<ul style="list-style-type: none"> Implementations of Best Management Practices 	<ul style="list-style-type: none"> Individual Mills 	<ul style="list-style-type: none"> Accelerated Reduction / Elimination of Toxics (ARET) Program National Pollutant Release Inventory (NPRI) 	61%	Less than 1%