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EXPERT GROUP ON BEST AVAILABLE
TECHNIQUES AND BEST ENVIRONMENTAL
PRACTICES

First session

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Item 3 of the provisional agenda¹

DEVELOPMENT OF GUIDELINES ON BEST AVAILABLE TECHNIQUES AND PROVISIONAL
GUIDANCE ON BEST ENVIRONMENTAL PRACTICES RELEVANT TO ARTICLE 5 AND ANNEX C
OF THE STOCKHOLM CONVENTION ON PERSISTENT ORGANIC POLLUTANTS

Organizing source categories into four groups²

Note by the secretariat

To facilitate discussion on the development of guidelines on best available techniques and provisional guidance on best environmental practices relevant to the provisions of Article 5 and Annex C of the Stockholm Convention on Persistent Organic Pollutants, the secretariat developed a table that organizes the major sources categories into four groups. This table is contained in the annex to the present note.

¹ UNEP/POPS/EGB.1/1.

² This document has not been formally edited.

Annex

Organizing Source Categories into Four Groups

Group 1	Group 2	Group 3	Group 4
<p>Large Thermal Production Processes</p>	<p>Non-thermal Industrial Processes Utilizing (Elemental) Chlorine</p>	<p>Waste Management</p>	<p>Diffuse Activities</p>
<p>Includes:</p> <ul style="list-style-type: none"> - Cement kilns firing hazardous waste - Sinter plants in the iron and steel industry (and other thermal metallurgical processes) - Non-ferrous metal production (secondary copper, aluminum, zinc) - Fossil-fuel fired utilities 	<p>Includes:</p> <ul style="list-style-type: none"> - Production of pulp and paper - Specific chemical production processes - Textile and leather dyeing and finishing 	<p>Includes:</p> <ul style="list-style-type: none"> - Waste incineration (municipal, hazardous, medical, sewage sludge) - Open burning of waste, including burning of landfill sites - Waste oil refineries 	<p>Includes:</p> <ul style="list-style-type: none"> - Motor vehicles - Crematoria, including destruction of animal carcasses - Residential combustion sources (heating and cooking) - Industrial boilers - Smouldering of copper cables - Shredder plants (vehicles) - Firing installations for wood and other biomass fuels
<p>Characterized by:</p> <ul style="list-style-type: none"> - identified location - (semi-)continuous operation - large throughputs, large outputs - BAT/BEP identified 	<p>Characterized by:</p> <ul style="list-style-type: none"> - identified location - very often large processes in international context; - often continuous operation - BAT/BEP identified 	<p>Characterized by:</p> <ul style="list-style-type: none"> - large ranges of operational conditions - all sizes - not product-driven - BAT identified - BEP difficult to regulate 	<p>Characterized by:</p> <ul style="list-style-type: none"> - small size - high number of occurrences - some are mobile - difficult to regulate, control (process and authorities)
<p>PCDD/PCDF formation potential:</p> <ul style="list-style-type: none"> - high temperatures - long residence times - regulated or other regulations or legislation exists 	<p>PCDD/PCDF formation potential:</p> <ul style="list-style-type: none"> - sensitive to input and operational parameters, - releases along all vectors (must address contamination of products) 	<p>PCDD/PCDF formation potential:</p> <ul style="list-style-type: none"> - high at many stages - flexible processes 	<p>PCDD/PCDF formation potential:</p> <ul style="list-style-type: none"> - processes flexible - few are product-quality driven
<p>Further characteristics:</p> <ul style="list-style-type: none"> - Process driven by the need to produce a high-quality product; - Process with low flexibility - very similar worldwide 	<p>Further characteristics:</p> <ul style="list-style-type: none"> - Process driven by the need to produce a marketable product, - concern of dioxin contamination in products, - size-dependent guidance necessary 	<p>Further characteristics:</p> <ul style="list-style-type: none"> - needs for overall management approach beyond PCDD/PCDF 	<p>Further characteristics:</p> <ul style="list-style-type: none"> - BAT/BEP identified, e.g. phase-out lead in gasoline