



# Heated Tobacco Products (HTP) Sub-Group: Update Report

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- **Secretary: Jason Flora**
  - Altria Client Services LLC, Richmond VA - USA

**Cancun, Mexico**

**October 2023**



# HTP Sub-Group History and Participation

- **June 2019 - HTP Task Force formed**
  - **9 meetings held**
- **June 2023 – transitioned to HTP Sub-Group**
  - **1 meeting held**
- **There has continued to be large interest in participation in the HTP activities:**
- **Attendees: around 50**
  - **Participant list: over 110 people**
  - **Last meeting: 47 attendees**
- **Companies Represented = 27+**
  - **Suppliers, manufacturers, laboratories etc.**
- **Countries = 12+**

- **Previous Objectives**

1. **Establish standardized terminology and definitions that encompass all categories of Heated Tobacco Products.**
2. **Define one or more specific approaches and regimes for the generation and collection of emissions for Heated Tobacco Products.**
3. **Define and agree on priority compounds to be analysed (or not); review current CRM suitability, edit, or develop methods for Heated Tobacco Products.**

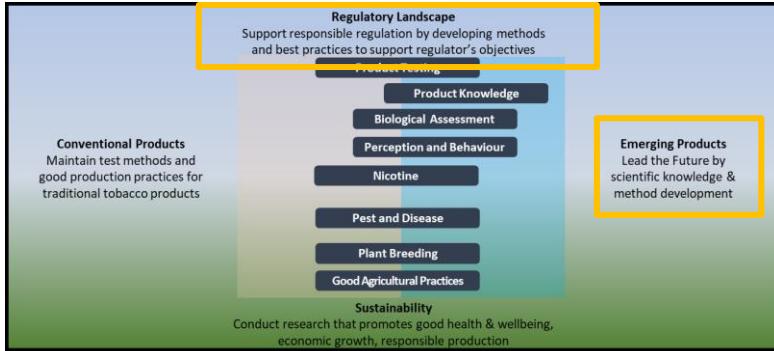


- **New Objectives**

1. **To identify areas of scientific research and conduct studies that will characterise HTP product emissions, device properties and performance;**
2. **To develop and publish methods and guides;**
3. **To organise and conduct periodic proficiency/collaborative studies of identified constituents in HTP product aerosol.**

# HTP SG Contributions to the Strategy House

## • Strategic areas for HTP:



## • Strategic Subjects for HTP:



Workstream	Delivered	2 year deliverables	5-year plan
<b>Product Testing</b>	<ul style="list-style-type: none"> <li>Puffing Regimes: CRM 99, CRM 100, CRM 101</li> <li>Technical Report: Study for Basic Analytes, CO, NO &amp; NOx</li> </ul>	<ul style="list-style-type: none"> <li>CRMs: Basic Analytes + CO + NO &amp; NOx</li> <li>Puffing Regime – Alternative Regime Guidance</li> <li>Priority Compounds – Carbonyls/Water Activity</li> </ul>	<ul style="list-style-type: none"> <li>Extended Priority Compounds</li> <li>Non-Targeted Analysis</li> <li>Reference Products</li> </ul>
<b>Product Knowledge</b>	<ul style="list-style-type: none"> <li>Definitions and Terminology</li> </ul>	<ul style="list-style-type: none"> <li>Refresh of Definitions and Terminology</li> </ul>	

## Defined Workstreams to give focus:

- 2-year plan {
  - **Workstream 1.0 – Terms and Definitions**
  - **Workstream 2.0 – Puffing regimes and aerosol collection**
  - **Workstream 3.1 – 1<sup>st</sup> set of Priority Analytes (CO, NO, NOx, Basic Analytes, Carbonyls, Water Activity)**
  
- 5-year plan {
  - **Workstream 3.2 – 2<sup>nd</sup> set of Priority Analytes**
  - **Workstream 3.3 – Additional Priority Analytes (e.g., HTP Specific)**
  - **Workstream 4.0 – Non-targeted analysis**
  - **Workstream 5.0 – Reference products**

**Time to “SHOUT” about our science**  
**– Building a science communication list aligned to HTP Strategy**



# Workstream 1: Terms and Definitions

## Progress and Next Steps

Workstream Lead: **Yezdi Pithawalla**

### Background:

**Heated Tobacco Products (HTP) Standardised Terminology and Recommendations for the Generation and Collection of Emissions**

- Technical Report published July 2020
- WS Lead: Jason Flora

### Activity:

- **Review and revision of technical report planned**
- **Report to be replaced with a technical guide**
- **NWIP submitted**

#### Areas Under Evaluation

- **Sub-categories:** Evaluate if the 3 sub-categories (eHTPs, aHTPs & cHTPs) are still relevant and if new ones have emerged
- **Product Examples:** Include examples for each sub-category to allow readers better contextualize differences between the sub-categories
- **HTP Aerosol Generation & Collection:** As CRMs are now finalized for all 3 sub-categories (CRMs 99-101), establish links to the new CRMs and look for streamlining opportunities by eliminating/reducing repetitive information across documents.



# Workstream 2: Puffing Regimes Progress and Next Steps

Workstream Lead: **Yezdi Pithawalla**

## Achievements in 2023:

**Definitions and Standard Conditions: Aerosol generation and collection for aHTP, cHTP and eHTP**

- **CRMs 99, 100 and 101 issued**
- **WS Lead: Colin Sinclair**

## Next Steps:

- **Develop a Technical Guide for the Selection of Appropriate Alternate Puffing Parameters for HTPs**
  - **Collaborating with PUB SG**
  - **NWIP submitted**



Cooperation Centre for Scientific Research  
Relative to Tobacco

**Heated Tobacco Products Task Force**

**CORESTA Recommended Method  
No. 101**

**DEFINITIONS AND STANDARD  
CONDITIONS: AEROSOL  
GENERATION AND COLLECTION  
FOR ELECTRICALLY HEATED  
TOBACCO PRODUCTS**

February 2023





# Workstream 3.1: Basic Analytes, CO, NO & NOx Progress and Next Steps

Workstream Leads: **Takasugu Hyodo, Taryn Winner, Thomas Schmidt**

## Achievements in 2023:

- **CRMs drafting and review**
  - Nicotine, propylene glycol, vegetable glycerol (inc. ACM and DML)
  - CO
  - NO and NOx

## Next Steps:

- **Finalise draft CRMs and submit to SC (Q4, 2023 and Q1, 2024)**



# Workstream 3.1: Carbonyls and Water Activity Progress and Next Steps

Workstream Leads: **Cyril Jeannet, Ifran Gunduz, Hannah Grisevich**

## Background:

- **8 Carbonyls selected for collaborative study**
- **Water Activity based on existing CRM 88**

## Achievements in 2023:

- **Completion of collaborative studies and data analysis**

## Next Steps:

- **Draft and finalise technical reports**
- **Draft and review CRMs**

### Carbonyls

Formaldehyde

Acetaldehyde

Acetone

Acrolein

Propionaldehyde

Crotonaldehyde

MEK

Butyraldehyde



# Workstream 3.2: TSNAs, VOCs, PAHs Progress and Next Steps

**Workstream Leads: Karl Wagner, Cyril Jeannet, Tony Brown**

## Background:

- **Discussion and proposal on approach for:**
  - Specific analytes per method
  - Whether leverage existing CRMs
  - How low should we go? (LODs/LOQs)
  - How do we manage analytes typically below LOQ

## Next Steps:

- **Finalise and agree approach**
- **Draft study protocols and set-up collaborative study/s (2024 project)**

## • Focus on 3 Workstreams: WORK IN PROGRESS

### Workstream 3.3: Additional Priority Analytes

- **WS Lead: P Joza**
- Extending priority analyte list
- Consider tobacco specific and HTP specific analytes

### Workstream 4.0: Non-targeted analysis (NTA)

- **WS Leads: M Saxton (and O Bussey)**
- Develop guidance document
- Collaborative project in progress between HTP and EVAP

### Workstream 5.0: HTP Reference products

- **WS Lead: T Winner**
- Assess feasibility and provide recommendation
- Evaluate potential options/approaches

## • Working groups progressing with defining, scoping and preparing the way forward



# Key Activities and Next Steps

- **Finalisation of:**

- CRMs for Basic Analytes, CO, NO & NO<sub>x</sub>
- Technical Reports for Carbonyls and Water Activity Studies
- Scope and develop non-targeted analysis (NTA) “Best Practice” guidelines, joint project with EVAP SG

- **Continue to progress:**

- Workstream 1.0 – Terms and Definitions – Revision to Technical Guide
- Workstream 2.0 – Alternative puffing regimes
- Workstream 3.2 – 2<sup>nd</sup> set of Priority Analytes (TSNAs, VOCs, PAHs)
- Workstream 3.3 – Additional Priority Analytes (e.g., HTP Specific)
- Workstream 5.0 – HTP Reference products



# **Thank-you to HTP SG members for your continued support**

**If you have any questions,**

**Or**

**If you are interested in participating in HTP SG activities  
please contact:**

**Helena Digard and Jason Flora**