



Heated Tobacco Products (HTP) Task Force: CORESTA Update

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 - British American Tobacco, Southampton - UK
- **Secretary: Jason Flora**
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HTP Task Force Update – October 2022, CORESTA Congress Online



HTP Task Force History

- ❖ **March 2019 (Paris, France): HTP Workshop confirmed the need for a HTP Task Force and developed objectives**
- ❖ **June 2019 (London, England): Inaugural HTP TF meeting**
- ❖ **October 2019 (Hamburg, Germany): 2nd HTP TF meeting**
- ❖ **April 2020 (Virtual): 3rd HTP TF meeting**
- ❖ **October 2020 (Virtual): 4th HTP TF meeting**
- ❖ **February 2021 (Virtual): 5th HTP TF meeting**
- ❖ **October 2021 (Virtual): 6th HTP TF meeting**
- ❖ **March 2022 (Virtual): 7th HTP TF meeting**
- ❖ **September 2022 (New Orleans, USA/Hybrid): 8th HTP TF meeting**



Participation in the HTP TF

There has been a continued large interest in participation in the HTP TF:

- ❖ **Attendees = 50+**
- ❖ **Companies Represented = 27+**
 - **Suppliers, manufacturers, laboratories etc.**
- ❖ **Countries = 12+**

- 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.**



HTP Task Force Achievements To Date

Project No.	Activity	Leader	Publication date
HTP-259	Heated Tobacco Products (HTP) Standardised Terminology and Recommendations for the Generation and Collection of Emissions	Jason Flora	July 2020
-	Review of WHO Report 1029: Section 2.2 and alignment with HTP TF plan	Helena Digard	Sept – Oct 2021
HTP-280	Technical Report – Proficiency Study for PG, VG, Nicotine, CO, NO, NOx, ACM and DML in HTP Aerosol	Taryn Winner and Takatsugu Hyodo	Sept 2022



Work in Progress: 2 year PLUS plan

Proposed New Project	Link to Objective	Timeline (start)	Timeline (completion)
Puffing Regime CRMs for HTP sub categories (HTP-325 to HTP-327)	Objective 2	Q3/Q4 2021	Q4, 2022 SC Review Stage
CRMs for Basic analytes and CO, NO, NOx	Objective 3	Q1, 2022	Q2, 2023
Collaborative study for water activity (HTP-323)	Objective 3	Q2, 2022	Q3, 2023
Study for carbonyls (HTP-322)	Objective 3	Q2, 2022	Q4, 2023
Study for TSNAs	Objective 3	TBC	TBC
Study for Volatiles	Objective 3	TBC	TBC
Study for B[a]P / PAHs	Objective 3	TBC	TBC

❖ For clarity within the TF, we are defining our work in distinct buckets as Workstreams 1-5

- 2-year plan
 - Workstream 1 – Terms and Definitions – **Complete**
 - Workstream 2 – puffing regimes and aerosol collection – **Almost Complete**
 - Workstream 3.1 – 1st set of Priority Analytes (CO, NO, NO_x, Basic Analytes, Carbonyls, Water Activity) – **In progress**
 - Workstream 3.2 – 2nd set of Priority Analytes (TSNAs, Volatiles, B[a]P/PAHs) – **TBD**
- 5-year plan
 - Workstream 3.3 – Additional Priority Analytes (e.g., HTP Specific) – **TBD**
 - Workstream 4 – Non-targeted analysis - **TBD**
 - Workstream 5 – Reference products - **TBD**

Note: Workstreams 1-3 align with the HTP TF Objectives. Workstreams 4 and 5 will need approval from the Scientific Commission



Objective 1:

Establish standardized terminology and definitions that encompass all categories of Heated Tobacco Products.

Workstream Lead: **Jason Flora**

❖ Heated Tobacco Product (HTP)

- A product containing a tobacco substrate that is designed to be heated and not combusted by a separate source (e.g., electrical, aerosol, carbon, etc.) to produce a nicotine containing aerosol.

❖ Sub-categories:

- Electrically Heated Tobacco Product (eHTP)
- Aerosol Heated Tobacco Product (aHTP) – also known as a hybrid
- Carbon Heated Tobacco Product (cHTP)

❖ Review of HTP Terminology and Definitions planned for 2023

- [HTP-259-CTR_Std-Terminology-Recommendations-HTP-Emissions_July2020](#)



Objective 2:

Define one or more specific approaches and regimes for the generation and collection of emissions for Heated Tobacco Products.

Workstream Lead: **Colin Sinclair**



Technical Report key points

- ❖ **Summarised in Technical Report: Heated Tobacco Products (HTPs): Standardized Terminology and Recommendations for the Generation and Collection of Emissions**
 - [HTP-259-CTR_Std-Terminology-Recommendations-HTP-Emissions_July2020](#)
- ❖ **3 puffing regime CRMs out for review with Scientific Commission**
 - eHTP
 - aHTP
 - cHTP
- ❖ **Review and consider whether recommendations/guidelines for “intense” puffing regime/s are needed, link to review of terminology and definitions**
 - [HTP-259-CTR_Std-Terminology-Recommendations-HTP-Emissions_July2020](#)



Objective 3:

Define and agree on priority compounds to be analysed (or not); review current CRM suitability, edit, or develop methods for Heated Tobacco Products.

❖ Current priority analytes agreed with task force

High – Basic Analytes	Medium	Low
ACM, propylene glycol, glycerine, nicotine	Carbonyls Water activity	TSNAs
CO, NO, NOx		Volatiles
		B[a]P / PAHs

❖ Status update

- ❖ High Priority: Proficiency study for basic analytes, CO, NO and NOx Reported – COMPLETED
- ❖ Medium Priority: Carbonyls and Water Activity – Studies being planned
- ❖ Low Priority: TSNAs, Volatiles, B[a]P/PAHs – Commencing projects



PG, VG, Nicotine, CO, NO, NO_x, ACM and DML in HTP Aerosol

❖ Proficiency Study Report published: HTP-280

- Technical Report – Proficiency Study for PG, VG, Nicotine, CO, NO, NO_x, ACM and DML in HTP Aerosol

❖ Large number of the participating laboratories used the same methods, so study can be regarded as a Collaborative Study

❖ 3 NWIPs to be proposed for CRMs in the following:

Proposed CRMs
Nicotine, VG and PG (+ACM/DML)
CO
NO and NO _x

- ❖ **Conduct a collaborative study to determine if CRM N°88, *Determination of Water Activity of Tobacco and Tobacco Products* is fit for use for HTP consumables.**
- ❖ **Study Leads: Hannah Grisevich and Irfan Gunduz**
- ❖ **Protocol developed, shipment of products planned for Q4, 2022**
- ❖ **13 laboratories shared interest in participating**
- ❖ **Conduct study in parallel with carbonyls study**
 - **Same HTP products to be distributed for both studies**
 - **RT1 -1R6F Ground cigarette filler and 2016 CRPs to be included in this study**

- ❖ **To conduct a study to determine the carbonyls method and develop a CRM.**
- ❖ **Study Lead: Cyril Jeannet (with support from Working group of 14 HTP TF members formed)**
- ❖ **Focus: 8 carbonyls on HC list**
- ❖ **Small ring-trial conducted demonstrating draft protocol method suitable**
- ❖ **Final review of study protocol in progress, shipment of products to 12 laboratories planned for Q4, 2022**



Work in Progress: Building 5 year plan

❖ 3 new workstreams proposed

Workstream 3.3: Additional Priority Analytes

- Extending priority analyte list
- Consider tobacco specific and HTP specific analytes

Workstream 4: Non-targeted analysis (NTA)

- Define role of NTA
- Develop guidance document
- Collaborate with EVAP SG

Workstream 5: HTP Reference products

- Assess feasibility and provide recommendation
- Evaluate potential options/approaches

❖ Next steps: Set-up working group meetings to discuss and develop proposal for scope and activities



Key Activities and Next Steps

- ❖ **Finalisation of CRMs for puffing regimes**
- ❖ **Draft CRMs for PG, VG, Nicotine, ACM and CO and NO, NO_x in HTP Aerosol**
- ❖ **Conduct studies for Water Activity and Carbonyls**
- ❖ **HTP TF 5-year plan: Set-up working groups to define proposal for:**
 - **Workstream 3.3 – Additional Priority Analytes (e.g., HTP Specific)**
 - **Workstream 4 – Non-targeted analysis (NTA), collaborate with EVAP SG**
 - **Workstream 5 – HTP Reference products**



Thank-you to HTP TF members for your continued support

If you have any questions,

Or

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

- Helena Digard and Jason Flora**