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**DECISION**

**AGREED DETAILED PLAN FOR THE VERIFICATION OF THE DESTRUCTION  
OF CHEMICAL WEAPONS DECLARED AS ABANDONED,  
AT THE GESELLSCHAFT ZUR ENTSORGUNG VON CHEMISCHEN  
KAMPFSTOFFEN UND RÜSTUNGSALTLASTEN MBH (GEKA MBH),  
MUNSTER, FEDERAL REPUBLIC OF GERMANY**

**The Executive Council,**

**Noting** the Note by the Technical Secretariat (the Secretariat) entitled “Initial Inspection of Chemical Weapons Declared by the Federal Republic of Germany as Abandoned Chemical Weapons” (EC-105/S/5, dated 26 February 2024);

**Noting also** that the Government of Germany and the Secretariat have agreed on a detailed plan (annexed hereto) for verification of the destruction at the Gesellschaft zur Entsorgung von chemischen Kampfstoffen und Rüstungsaltslasten mbH (GEKA mbH), Munster, Germany, of the chemical weapons declared by Germany as abandoned;

**Recalling** that paragraph 56 of Part IV(A) of the Verification Annex to the Chemical Weapons Convention (the Convention) requires the agreed detailed plans for verification to be forwarded to the Executive Council, which shall review the plans with a view to approving them, consistent with verification objectives and obligations under the Convention;

**Affirming** that this plan is without prejudice to the relevant provisions of the Convention, that nothing in the plan will be applied or interpreted in a way that is contradictory to the provisions of the Convention, and that, in the event of a conflict between the provisions of the plan and the Convention, the Convention shall take precedence;

**Noting** that the specific verification elements described in the present plan are complementary to verification arrangements set out in the “Arrangement between the Organisation for the Prohibition of Chemical Weapons and the Government of the Federal Republic of Germany Governing On-Site Inspections at the Gesellschaft zur Entsorgung von Chemischen Kampfstoffen und Rüstungsaltslasten mbH (GEKA mbH), Munster, Federal Republic of Germany” (Annex to EC-107/DEC/CRP.7, dated 16 September 2024); and

**Recognising** that States Parties remain free either to draw upon the present plan for the conclusion of other such plans or to depart from it, where they deem this to be appropriate, provided that the new plans conform to the Convention;



**Hereby:**

**Approves** the agreed detailed plan, annexed hereto, for verification of the destruction at the GEKA mbH facility of the chemical weapons declared by Germany as abandoned.

Annex (English only):

Agreed Detailed Plan for the Verification of the Destruction of Chemical Weapons Declared as Abandoned, at the Gesellschaft zur Entsorgung von Chemischen Kampfstoffen und Rüstungsaltslasten mbH (GEKA mbH), Munster, Federal Republic of Germany

## Annex

### AGREED DETAILED PLAN FOR THE VERIFICATION OF THE DESTRUCTION OF CHEMICAL WEAPONS DECLARED AS ABANDONED, AT THE GESELLSCHAFT ZUR ENTSORGUNG VON CHEMISCHEN KAMPFSTOFFEN UND RÜSTUNGSLASTEN MBH (GEKA MBH), MUNSTER, FEDERAL REPUBLIC OF GERMANY

#### 1. Introduction

This document is the agreed detailed plan for verification (ADPV) of the destruction of chemical weapons at the Gesellschaft zur Entsorgung von Chemischen Kampfstoffen und Rüstungsalasten mbH (GEKA mbH), Munster, Federal Republic of Germany developed in accordance with paragraphs 50 to 61 of Part IV (A) of the Verification Annex on Implementation and Verification to the Chemical Weapons Convention (Verification Annex and Convention). The specific verification elements presented below are complementary to any verification arrangements set out in the facility arrangement or in separate arrangements and are subject to the provisions of the Convention and or relevant decisions of the OPCW policy-making organs. Any amendments to the verification regime anticipated for this facility will be submitted to the Executive Council for review and approval prior to its implementation.

#### 2. Planning data

1. Anticipated start and end dates of declared abandoned chemical weapons (ACW) destruction at the facility are: October 2024 – February 2025.
2. The quantity of chemical warfare agent (CWA) to be destroyed is listed as follows:

Chemical Agent	Drum Number	Agent	Inventory	Agent Concentration	Agent Weight (Kg)
Chemical Storage Drum <sup>1</sup>	19	Sulfur Mustard	12	2.5%	95,1
Chemical Storage Drum	4	Chloropicrin	1	>95%	114,2
Chemical Storage Drum	40	Chloropicrin	1	>95%	77,4
<b>Total</b>			<b>3</b>		<b>313,7</b>

3. Facility working hours: 07:00 – 18:00.
4. Facility working days: Monday to Friday.

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<sup>1</sup> The contents of drum number 19 were transferred into twelve (12) polyethylene containers due to damage that occurred to the original drum during sampling by Germany.

5. German holidays or other non-working days: As notified to the TS by Germany in the annual Operational Information for old chemical weapons inspections.
6. Estimated period of inspection (for planning purposes): The Secretariat will endeavour to verify the destruction of the declared ACW within as few inspections as possible (it is expected not to exceed two inspections). The duration for each inspection is up to five (5) days. However, the mandate could be extended if required and decided by both Participants to the Arrangement.
7. Approximate composition of the inspection team (IT) at the facility at any one time: No more than five (5) inspectors.
8. Estimated weight of equipment to be brought on-site: Approximately 200 kg.
9. Inspections will be notified, to the extent possible, a minimum of fourteen days in advance and, in any case, not later than ten (10) days in advance.
10. The planned period of inspection will be notified in advance.

### **3. Destruction Process**

1. The declared ACW will be destroyed at Incineration Plant No. 1 (Munster-1). This plant is designed to destroy CWA, contaminated materials and comparable hazardous waste by thermal decomposition. This plant is certified to process all types of CWA used in chemical weapons, including sulfur mustard and nerve agents of the G-series.
2. The incineration reactor usually operates at a temperature of between 800 °C and 1000 °C. Under these conditions, all compounds decompose. A thermal post-combustion unit is placed beyond the main incineration chamber to ensure complete destruction of all relevant compounds and to meet technical and legal requirements.
3. The flue gas from this process is cooled to a temperature of 70 °C and subsequently passed through an acidic and a caustic scrubber respectively, followed by an electrical precipitator, a carbon filter, denox plant and an oxidation catalyst unit.
4. The clean off-gas is continuously monitored by an environmental control unit consisting of a Fourier transformation infrared spectrometer (FTIR spectrometer), flame ionization detector (FID), scattered light detector and a specific mercury detection unit. All emission data collected from these analytical devices are sent electronically to the local supervisory authority in accordance with national and European Union regulations.
5. Mineral and metallic incineration residues will be packed in homologated 200-litre drums after completion of the incineration and destroyed in a commercial underground disposal site.

6. Residual salts from both the main incineration chamber and the scrubbers (via the waste water treatment facility) are collected and stored at a commercial waste disposal site.
7. Germany will ensure that the facility treats and destroys the declared ACW in isolation from other chemicals and related material handled at the facility to facilitate the conduct by the IT of their verification activities.

#### **4. Verification Arrangements**

1. Germany will allow and facilitate the conduct of the necessary verification measures by the IT, in accordance with the Convention, including its Verification Annex, as well as the Arrangement and this ADPV, with respect to the specified facility, for the purpose of confirming the identity and quantity of the declared ACW to be destroyed as well as the subsequent verification of the completion of destruction.
2. In particular and without prejudice to the conduct of additional activities as the IT may reasonably require, Germany will allow and facilitate the conduct by the IT of the verification activities specified below:
  - a. access of the IT, subject to safety requirements, to the facility, including decided-upon areas of the facility where the declared ACW are stored at the facility and where operations related to the destruction take place;
  - b. the ability to confirm, through physical access of the IT and/or by monitoring through existing closed-circuit television (CCTV) cameras and/or reviewing video recordings of such CCTV cameras and/or process parameters, the storage, the transfer of the declared ACW agent from the chemical storage containers into the containers used for destruction, and the destruction of the declared ACW at the facility;
  - c. sampling and analysis
    - i. to confirm the completion of destruction, samples may be taken from the residue of the destruction process (as applicable, incinerator slag, brine solution, etc.);
    - ii. in accordance with paragraph 52 of Part II of the Verification Annex, representatives of the German Government or of the facility will take samples at the request of the IT in the presence of inspectors. If so decided in advance with the representatives of the German Government and the facility personnel, the IT may take samples itself;
    - iii. access to, as applicable, relevant monitoring and process data, weighing data, operational records (i.e. as applicable, shipping and receipt documents, hazardous waste manifests, flow-meter records, agreed process trend data, weight tickets, agreed calibration records, results of analyses conducted by the facility for their own operational and regulatory purposes relevant to destruction of the declared ACW, etc.);

- iv. upon arrival at the facility, the IT will be briefed by the facility's representatives, with the aid of maps and other documentation as appropriate, on the activities carried out at the facility, safety measures, and administrative and logistic arrangements necessary for the visit.
3. Notwithstanding the above, for the conduct of their verification activities, Germany will observe the rights of the IT, including as set forth in Section E of Part II of the Verification Annex.
4. After verification of the destruction of the declared ACW, the Secretariat will certify the completion of destruction of the designated quantity of declared ACW by the German Government by issuing a letter of confirmation.

## **5. Working Space**

1. Germany will ensure that working space for the IT be provided at the facility for the purpose of the review of the records and recorded media and any other related verification activities in a lockable room located at the facility, able to accommodate up to five (5) IT members and associated equipment on a continuous or intermittent basis.
2. If requested, Germany will allow for set up of one Gas Chromatograph-Mass Spectrophotometer (GC-MS) within the facility laboratory, or another identified suitable location.

## **6. Monitoring Equipment**

1. Germany will ensure that the IT has access to existing monitoring equipment to allow for the verification of the destruction of the declared ACW.

## **7. On-Site Activities during the Inspection of the Declared ACW Destruction**

1. A pre-inspection briefing will be given to the IT by the German authorities and will include the applicable health and safety regulations, procedures and requirements applicable at the site.
2. A walk-through of relevant areas of the facility will be undertaken to familiarise the IT with the facility.
3. Discussion and agreement on the inspection plan for the destruction operation.
4. Observation of the delivery of declared ACW at the destruction units during inspectors' physical presence in that area and/or by means of CCTV cameras and reviewing of the transfer documents.
5. Verification by physical access, via CCTV cameras, and/or by reviewing inventory and transfer documents relating to the storage bunker at the facility.
6. Verification of the specific type and quantity of declared ACW being destroyed using the CCTV cameras, physical presence, subject to safety requirements, and/or by reviewing relevant documentation. Review of destruction and daily operation records provided by Germany and reconciliation of any discrepancies should there be any.

7. Verification of the destruction of the declared ACW by observing the destruction process with CCTV cameras, and by performing periodic walks throughout the facility where applicable.
8. Observation of the collection and analysis of waste and air samples, which may be performed by facility personnel in accordance with mutually decided procedures and requirements for the collection and analysis of such samples, or alternatively the review of the results of such analyses.
9. Confirmation of the complete destruction of the declared ACW based upon viewing the destruction process and the results of analysis of any samples taken during and following destruction operations.
10. Discussion of ambiguities to obtain clarification from Germany, if required.
11. Preparation of relevant reports covering inspection activities.

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