

## **ATTACHMENT E**

*[Revision – March 10, 2021]*

### **LETHAL GAS**

1. Approximately 10 minutes before the execution, Chemical Operators #1 and #2 shall sequentially pour 6 QUARTS OF DISTILLED WATER and 5 PINTS OF SULPHURIC ACID into the mixing pot (9). THE WATER SHOULD BE POURED FIRST. UPON COMPLETION OF POURING THE WATER, 5 PINTS OF SULFURIC ACID SHOULD BE POURED NEXT. RUBBER GLOVES AND GLASS FUNNEL SHALL BE USED. THE ACID MUST BE POURED SLOWLY TO PREVENT SPLATTERING. This mixture should remain in the mixing pot (9) for approximately 10 minutes so as to attain an adequate mix and maximum temperature. Keep away from acid fumes and possible splatter caused by boiling. This mixture will yield a 41.5% concentration.
  - Chemical Operator #1 shall ensure that the mixture shall not pass to the chair receptacle until after the Chamber door is closed and instructions received from the Chamber Operator.
  - The Caustic Soda Neutralizing solution shall be prepared by Chemical Operator #2 immediately after the completion of the acid mixture.
  - Chemical Operator #2 shall put on rubber gloves and dissolve 1 pound of CAUSTIC SODA into 2½ gallons of water already in a pour-spout can. Once the mixing process is complete, this solution should be kept near the mixing on the floor in close proximity to the mixing pot (9).
  - Chemical Operator #2 shall dissolve 30 grains of Phenolptalein Solution in 4 ounces of alcohol. If the solution is pre-mixed, then skip this step.
  - Chemical Operator #2 shall relay to the Special Operations Team Leader that the chemical mixing process is complete.
  - The Housing Unit 9 Team Leader will notify the Director that the chemical mixing is complete and the chamber is ready.
  - The Director will instruct the Housing Unit 9 Team Leader to move the inmate to the chamber.
2. The inmate shall be brought into the execution room and placed in the Chamber and strapped in the chair by the Restraint Team. The internal Chamber microphone will be turned on and a microphone will be affixed to the inmate's shirt and also turned on; both microphones shall remain on until the completion of the execution (the microphones will remain on during any last statement by the inmate, but will be turned off in the event the inmate uses vulgarity or makes intentionally offensive statements; if the microphones are turned off, they will be turned back on immediately after the completion of the last statement) to enable the persons in the witness room and the Special Operations Team Leader to hear any utterances or noises made by the inmate throughout the procedure. The Special Operations Team Leader will confirm that the microphones are functioning properly and that the inmate can be heard in the operations room and in the witness room.

- a. Closed-circuit monitor(s) will allow witnesses in the designated witness room to observe this process and shall remain on until the completion of the execution. All cameras and monitors shall be placed in such a manner so as to ensure and preserve at all times the anonymity of all personnel involved in the execution process.
3. Chemical Operator #2 shall place 4 petri dishes containing the Phenolptalein Solution inside the chamber so as to be clearly visible to the Chamber Operator. (Location should be at each designated corner of the chamber.)
4. After the inmate is strapped in the chair, Chemical Operator #2 shall verify that the petri dishes containing Phenolphthalein are still in their proper place.
5. Chemical Operator #2 shall inspect the GAS VALVE LEVER (1) and GAS VALVE POT (10) to ensure that it is dry and in the Closed position. Once this is confirmed, Chemical Operator #2 shall place the sodium cyanide packets in the GAS VALVE POT (10) under the chair.
6. Chemical Operator #2 and the Chamber Operator shall close the Chamber door and ensure that it is properly sealed.
7. The Chamber Operator shall ensure that the fan damper is in the closed position. Once this is confirmed, the chamber fan shall be activated and left on.
  - The manometer H pressure gauge readings on the chamber shall be monitored to determine air tightness of Chamber.
  - The Chamber will be considered air-tight if the manometer gauge to the right has a higher reading than the left.
  - If the readings on both the manometer H gauges remain equal, the Chamber Operator shall notify the Housing Unit 9 Team Leader immediately.
8. The Chamber Operator shall position himself at the GAS VALVE LEVER (1).
9. The Chamber Operator shall ensure that the Outlet Valve (4) is closed. This Outlet Valve (4) shall remain closed until the chamber is cleared.
10. Chemical Operator #2 shall proceed back to the Chemical preparation room.
11. The Housing Unit 9 Team Leader shall notify the Director that the chamber is ready.
12. Chemical Operator #1 and the Chamber Operator shall release the mixed acid and water from the mixing pot (9) into the Gas Generator by opening the Acid Mixing Pot Valve (Red lever) and Inlet Valve (3). Chemical Operator #1 shall visually observe the liquid drain from the mixing pot. Once fully drained, Chemical Operator #1 shall close the Acid Mixing Pot Valve and place it in the Closed Position.
13. Chemical Operator #1 shall notify the Chamber Operator that the acid mixture is fully drained.
14. The Chamber Operator shall close the inlet valve (3) and advise the Chemical Operators when complete.

15. Chemical Operator #2 shall fill the mixing pot (9) with the Caustic Soda solution.
16. The Chamber Operator shall then advise the Housing Unit 9 Team Leader that the Chamber is ready for use.
17. The Housing Unit 9 Team Leader shall notify the Director that everything is ready to proceed. The Director shall make the final notifications to the Attorney General.
18. The Director shall instruct the Chamber Operator to remove the locking pin of the GAS VALVE LEVER (1) (Sodium Cyanide immersion lever) and open the immersion valve, to drop the pellets into the acid in the gas generator. The Gas Valve Lever (1) shall remain open until the clearing process of chamber is initiated.
19. With the Chamber in operation, the Housing Unit 9 Team Leader and the Recorder will observe and record as necessary. A member of the medical team shall monitor the Inmate and EKG and shall advise the Director when the inmate has expired, providing the corresponding time of death.
20. The Director will announce that the execution has been completed. The Housing Unit 9 Team Leader will instruct the Operators to "Clear the Chamber".
  - NOTE: The length of time required should be determined by a member of the medical team and the Housing Unit 9 Team Leader. It is recommended that this period should be no less than 10 minutes.
21. When the Housing Unit 9 Team Leader announces "Clear the Chamber", the Chamber Operator shall move the exhaust fan damper lever (5) into the open position.
22. The Chamber Operator shall close the GAS VALVE LEVER (1) into the closed position for clearing.
23. Chemical Operator #1 and the Chamber Operator shall drain the Caustic Soda Solution into the gas generator. Chemical Operator #1 shall open the Acid Mixing Pot Valve (9). The Chamber Operator shall open the Inlet Valve (3) and allow caustic soda to fully drain into the gas generator.
24. Chemical Operator #1 shall monitor the CAUSTIC SODA SOLUTION until the Acid Mixing Pot is fully drained and empty.
25. Once the Acid Mixing Pot (9) is empty, Chemical Operator #1 shall close the mixing pot valve (Red Valve) and instruct the Chamber Operator to close the Inlet Valve (3).
26. The Chamber Operator shall inform the Chemical Operators once the Inlet Valve (3) is closed.
27. The Chemical Operator shall fill the mixing pot with water.
28. The Chamber Operator shall open the air manifold intake lever (2), which may be opened with graduated steps.
29. The Chamber Operator shall open the Outlet Valve (4), opening the gas generator drain valve first, and then opening the Inlet Valve (3).
30. Once the Inlet and Outlet Valves are fully open, the Chamber Operator shall inform the Chemical Operators to begin flushing.

31. The Chemical Operators shall open the water faucet, allowing additional water to flow into the mixing pot (9).
  - The Chemical Operators shall observe the drainage of water from the mixing pot to ensure that the flushing is proceeding properly. During this period, the Chamber Operator shall perform the following functions:
    - a. The Chamber Operator and Chemical Operator #1 shall fully open the anhydrous ammonia tank valve, then open ammonia control valves (7) and (8) (on the regulators) gradually to reach the saturation to allow the effective neutralization of the residual chemicals in the chamber, gas generator and plumbing. After 30 seconds, both Operators shall close the ammonia tanks in the following sequence: The tank valves shall be closed first, and, after approximately 30 seconds, the regulator valves (7) and (8) shall be closed. This will allow the ammonia to drain from the piping. Anhydrous ammonia valves should be CLOSED OUT AT LEAST THREE MINUTES BEFORE OPENING THE CHAMBER DOOR.
    - b. After the Chamber is completely evacuated of gas and purged of the ammonia fumes, the phenolphthalein in the petri dishes should turn red (pinkish) in color. This color change is an indication that the Chamber door may be safely opened. A member of the medical team and Restraint Team now may enter, using masks for protection from any residual ammonia fumes. The Chamber Operator shall close the air valve lever (2).
  - CAUTION: Although smoke tests suggest that the Chamber is purged in approximately 3 to 5 minutes, it is recommended that the period between opening the exhaust and air inlet valves and opening the Chamber door be about 15 minutes. As a precautionary measure, it is recommended that the Physician and the Restraint Team removing the body wear hydrocyanic acid gas masks or approved respirators and rubber gloves and that the hair of the deceased inmate be ruffled in order to allow any residually trapped gas to escape. Close the Chamber door, but not tightened more than contact with the gasket, and aerate for one hour as necessary to clear any residual ammonia.
32. The Restraint Team shall hose down all the surfaces and the deceased inmate prior to removal from the chair.