National Avian Influenza Crisis Management Plan in the United Arab Emirates

Version (9)

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INTRODUCTION

This document is issued based on the instruction of the National Emergency Committee in the United Arab Emirates to establish a response framework for a possible Avian Influenza Outbreak in the country and determine the roles and responsibilities of concerned authorities within the different response stages of the plan as well as coordination between different authorities/teams for the successful implementation of the plan.

OBJECTIVES AND GOALS

1. Develop practical and operational plans to prevent and eliminate Avian Influenza Disease from entering the country and from spreading between birds and humans.
2. Establish a unified and common plan to be implemented by all concerned authorities during the operation of the emergency response and crisis management.
3. Provide all available human, logistical and financial resources for all ministries, departments and agencies in the country to prevent and control the disease from spreading among poultry and humans.
4. Provide a communication and coordination mechanism between concerned authorities to implement the requirement of the plan.
5. Develop a National Database for the current and future emergency operations.
6. Submit recommendation to higher authorities to develop laws and regulations to protect the country from potential health risks and hazards related to Avian Influenza Diseases.
7. Develop actions and procedures to improve national capabilities to ensure the highest performance during emergency and crisis management operations.
8. Improve the technical and logistical preparedness for local and national laboratories to ensure capabilities for the identification and confirmation of the Avian Influenza virus strains.
9. Provide public awareness about the nature of the disease and its health risks if introduced to the country.
10. Establish continuous communication and corporation between the United Arab Emirates, regional countries and International Organizations to face and control the disease.
Crisis Management Plan
Operation Stages & Definitions

Emergency Response and Crisis Management Operations for Avian Influenza (AI) Disease was developed for operations in 5 main stages presenting the situation of each period starting from the prevention measures and ending by the control and monitoring of the disease as detailed below:

<table>
<thead>
<tr>
<th>Risk Ranking</th>
<th>Operations</th>
<th>Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prevention Procedures</td>
<td>Nil, No AI Disease Detected</td>
</tr>
<tr>
<td>2</td>
<td>Surveillance &amp; Investigation Procedures</td>
<td>Low, Birds/ Human Infection Suspected</td>
</tr>
<tr>
<td>3</td>
<td>Initial Response &amp; Rapid Intervention</td>
<td>Medium, AI Disease confirmed and spread within a controlled area</td>
</tr>
<tr>
<td>4</td>
<td>Declaring Emergency &amp; Full Scale Operations</td>
<td>High, AI Confirmed &amp; Spread within a known area and possibly others.</td>
</tr>
<tr>
<td>5</td>
<td>Controlling the Crisis &amp; Termination of Operations</td>
<td>Nil, AI Disease Controlled &amp; Terminated</td>
</tr>
</tbody>
</table>

Plan Stages Definitions

1. Prevention Procedures
This phase starts with WHO announcing the emerging of the virus with the possible wide spread from human to human.

In this stage all plans to be formulated and completed for approvals, local committees to be nominated aligned with the recommendation to develop laws and regulations, preparedness of laboratories and equipment, required data and statistics needed to proceed for further stages of operation within the plan.

This phase extends until the confirmed diagnosis of the virus in neighboring countries.

2. Surveillance & Investigation Procedures
This phase is initiated with the WHO’s (or associated international organizations’) official announcement of possible pandemic spread of the disease. The phase covers situations where large number of poultry, animals and/or humans is infected in a number of surrounding countries but without detecting the virus in the Emirates. Registering an infection within the country marks the end of this phase.

All preventive measures including surveillance and investigations aside with the required administrative and medical procedures are taking place to eliminate and prevent the disease from entering the country. Also it provide measures of quick identification of the virus in case detected during the operation at this stage.
3. Initial Response & Rapid Intervention
In case virus detection during the surveillance and investigation stage, initial response and rapid intervention for a maximum period of 48 hours (2 days) to contain the virus and control it as well as ensuring that it will not spread to other areas.

4. Declaring Emergency & Full Scale Operations
If not contained and controlled during initial response and rapid intervention period of 48 hours, emergency and full scale operation stage is declared all over the country to contain and eliminate the virus by all means.

5. Controlling the Crisis & Termination of Operations
At this stage end of operations and its termination is declared after eliminating the virus and controlling it. A detailed monitoring program should be made available and conducted as stated hereafter.

Accordingly moving from one stage to the other is based on this classification and the time frame given for the control and elimination of the disease starting from the prevention stage to the surveillance and investigation stage as well as the scale of the operation from initial response to full scale operations as deemed adequate and necessary. The actual impetus to move from one stage to the other will be EVENT DRIVEN, thus stated time line are approximations.

The following committees had been formulated to ensure the development and implementation of this plan as follows:

- National Emergency Committee for the United Arab Emirates (National Committee)
- Secretariat
- Local Committees
National Emergency Committee for the UAE
(National Committee)

FORMULATION
National Emergency Committee is chaired by His Highness Deputy Prime Minister, Minister of Foreign Affairs and members from the following authorities:

- General Secretariat of UAE Municipalities
- Municipalities (Abu Dhabi, Dubai, Sharjah, Ajman, Umm Al Quwain, Ras Al Khaima, Al Fujairah)
- Abu Dhabi Food Control Center
- Health Services Agency – Abu Dhabi
- Health & Medical Services Department - Dubai
- Armed Forces
- Ministry of Environment & water
- Ministry of Interiors
- Ministry of Health
- Environment Agency Abu Dhabi
- Federal Environment Agency
- Environment & Natural Protected Areas Agency – Sharjah
- Federal Customs Agency

OBJECTIVES
The committee aims to set the required strategy for the execution of the work plan and related procedures to eliminate the virus from entering the country and the effective mechanisms of controlling the disease in case it is detected.

The committee works in 4 main areas which are coordination, reviewing work plan, follow up the implementation of the work plan, and prepare the required reports to the chairman.

ROLES AND RESPONSIBILITIES
- Determine and approve local committees which are responsible for the implementation of the work plan and coordination with the national emergency committee and the secretariat on behalf of each emirate, a local committee leader shall be nominated for each committee with a deputy in charge.
- Supervision on the implementation of Avian Influenza Disease Work Plan.
- Evaluation of periodical reports on the progress of work plan implementation.
- Ensure adequate supply of required resources as reported in periodical reports.
- Prepare reports for higher authorities on the current status for Avian Influenza Disease in the country.
- Conduct periodical meetings on regional level with the GCC countries.
- Interact with the international organization for Avian Influenza Disease global combat to prevent its spreading all over the world.
Secretariat

FORMULATION

- Secretariat is chaired by Environment Agency Abu Dhabi and members from
  the following authorities:

  - Federal Environment Agency
  - Health Services Agency – Abu Dhabi
  - Health & Medical Services Department – Dubai
  - Local Committee Leaders from each Emirate or their deputies
  - Environment Agency Abu Dhabi
  - Armed Forces
  - Ministry of Environment & water
  - Ministry of Interiors
  - Ministry of Health
  - Federal Customs Agency
  - Municipalities General Secretariat
  - Municipalities (Abu Dhabi, Dubai, Sharjah, Ajman, Umm Al Quwain, Ras Al Khaima, Al Fujairah)

ROLES AND RESPONSIBILITIES

- Head of Secretariat is the sole responsible body for communication with
  press, national, regional and international entities regarding the Avian
  Influenza. He retains the ability to appoint anybody in his stead, given a
  written delegation letter.

- Head of Secretariat is responsible for the prioritization of society segments
  to receive medical attention and protection in case of mass pandemic spread
  of the disease. Priority segments usually include decision makers,
  practitioners, veterinarians, doctors, support units indicated in the national
  plan and others as seen fit by the Head.

- Arrange and coordinate with national emergency committee in regard to the
  implementation of the work plan and its effectiveness as well as required
  resources and obstacles hindering the work plan execution.

- Ensure the availability of required resources on a federal level.

- Organize national emergency committee meetings and update the plan per
  contributions.

- Call for meetings as deemed necessary and take actions for implementation
  of the work plan.

- Coordinate between the surveillance, bird monitoring, public awareness,
  information technology and other teams to assess the effectiveness of these
  teams and achieved tasks in regards to the work plan.

- Supervise the implementation of each of the local committees and its
  execution of the work plan, status reports to be handed to the secretariat on
  each of the local committees by its leader or his deputy, being members of
  the secretariat, to gauge and review the contribution of each local committee
  to its roles and responsibilities within the work plan.

- Review and assess all reports for the surveillance, investigation, immediate
  response and rapid intervention operations which are submitted by the local
  committee leader and pass them to the national emergency committee.

- Collect and assess all related information on Avian Influenza Disease and
  issuing required reports to concerned parties.
• Contribute to the regional and international corporation through continuous communications with the GCC countries and International Organizations such as FAO, WHO and OIE in regard to the Avian Influenza Disease and efforts and contributions to eliminate and control the spread of the disease.
Local Committees

**FORMULATION**
Local Committees to be established for each of the 7 Emirates in the UAE and members from the following authorities:

- Environment Agencies/ Environment Competent Authorities in each Emirate
- Ministry of Environment & water/ Competent Authorities in each Emirate
- Ministry of Health/ Competent Authorities in each Emirate
- Municipalities (Abu Dhabi, Dubai, Sharjah, Ajman, Um Al Quwain, Ras Al Khaima, Al Fujairah)
- Ministry of Interiors/ Central Command in each Emirate
- Others/ as applicable for each Emirate

Local Committee Leader and a deputy to be nominated for each Emirate and is responsible for the implementation of the plan and its stages as required as well as the coordination between different team members during the implementation of the plan. As part of his duties, the leader also acts as the coordination focal point with the secretariat.

**ROLES AND RESPONSIBILITIES**
Each of the local committee chaired by its nominated leader to form teams for the execution of the plan operations, procedures and requirements during its stages starting from the surveillance and investigation, initial response, emergency and full scale operations, termination of operations, control and monitoring procedures.

Submit reports for required resources (manpower and logistical), lists of contacts for each of the teams and their deputies.
Roles & Responsibilities of Concerned Parties in the Crisis Management Operations

STAGE I: PREVENTION PROCEDURES

Secretariat
Secretariat shall:

- Develop framework plans to control and eliminate avian influenza disease for the United Arab Emirates.
- Ensure that all the mechanism of implementing the plan are effective and in place.
- Coordinate between all concerned local and federal authorities to operate in the plan.
- Follow up on the nomination and operation of the local committees in each emirate.
- Follow up on the adequacy of the procedures implemented to execute the requirement of the work plan via the local committee leaders.
- Lead the media and public awareness campaign via the Chairman of the Secretariat.
- Build national information database to assist in developing emergency preparedness and response procedures for future and current operations.
- Arrange for training of technical staff involved in the plan.
- Contribute to the regional and international corporation through continuous communications with the GCC countries and International Organizations such as FAO, WHO and OIE in regard to the Avian Influenza Disease and efforts and contributions to eliminate and control the spread of the disease.

Local Committees
Local Committees shall:

- Nominate a local committee leader for each committee and a deputy to be responsible for the coordination between local teams and secretariat and provide required reports accordingly.
- Develop local plan aligned with the requirement of the national work plan and deliver a copy of it to the secretariat.
- Provide contact numbers for communications with secretariat, other concerned authorities and public manned 24 hours.
- Formulate the surveillance and investigation team for the emirate and distribute its operation to cover all areas.
- Nominate initial response and rapid intervention members from surveillance and investigation team.
- Nominate the laboratories in which initial testing to be made available to detect the virus on samples sent by surveillance and investigation team as per the secretariat approved guidelines.
- Nominate the confirmation laboratory to perform the confirmation test on the samples.
- Assemble disinfection teams to be distributed geographically to cover each of the emirates provided with necessary equipment and resources.
- Provide and nominate the hospitals and medical centers and laboratories involved in the plan.
• Secure the quarantine at the land and sea ports to ensure the safety of imported animals into the country
• Develop a good database information system for the facilities, farms and quarantines and provide a list to the secretariat
• Submit reports for required resources (manpower and logistical), lists of contacts for each of the teams and their deputies to the secretariat through the local committee leader.

**Armed Forces**

Armed Forces shall provide support directed towards the national preparedness, response plan(s) formulations, capacity building, securing enough and appropriate resources as well as performing jointed training drills and establishing a uniform communication mechanism for the combat of Avian Influenza Pandemic. Support will provided as per the following:

i. Surveillance and inspection of all marine vessels as per approved strategies and mechanisms.

ii. Supporting relevant agencies to control the entry of poultry and related products into the country, except from specified ports of entry.

iii. Collection and analysis of bio-samples.
STAGE 2: SURVEILLANCE & INVESTIGATION PROCEDURES

**Secretariat**
Secretariat shall:
- Supervise local committee activities for each emirate in the country, procedures and operations performed as per the work plan, secretariat to be reported periodically with these activities through the committee leader being a member of the secretariat representing his emirate.
- Review and document all reports for surveillance and investigation delivered from the leader of local committee to the secretariat and subsequently pass it to the National Emergency Committee.
- Provide personal protective equipments, vaccination materials to the local committee leader to distribute it for local teams for surveillance and investigation.

**Local Committee Leader**
Local Team Committee leader shall:
- Coordinates with the surveillance and investigation teams and performing field tests in the suspected areas and samples after taking disinfection and safety measures.
- If a case is suspected in case birds, the local committee leader of concerned emirate will notify Secretariat, collect samples from the bird / dissembled birds, and send to the falcon hospital, EAD in Abu Dhabi or the Ministry of environment & water Laboratory in Sharjah for further analysis and identification of virus
- In case of Human case suspected, local committee leader of concerned emirate will notify Secretariat, and isolates the patient and the room at hospital in coordination with surveillance and investigation teams.

Notification should first be by phone, and immediate. Then, an official report should be prepared within 24 hrs

**Local Surveillance and Investigation Teams**

**Environment Agencies**
- Track the route of migratory birds
- Identify the numbers, types of birds, their origin, and destination (country or countries)
- Identify gathering places of migratory birds in the country and the extent of interaction with local birds
- Conduct Surveys, collecting and analyzing samples from migratory birds to detect virus using a standardized method
- Documenting with reports, photos, electronic database, and maps

**Ministry of Environment & water**
- Inventory and registration of all farms
• Inventory and registration of all workers of birds (farms, shops, quarantines, etc) and handing over of data to Ministry of Health
• Identifying locations by GPS coordinates
• Gathering data and names of farm and yard owners
• Documenting numbers and types of birds present
• Registration of number of imported birds
• Collection of samples periodically during migratory season
• Identifying sample analysis methods and standardizing it
• Identifying uses of birds (trading, personal, etc)
• Creating and upgrading test records and farm disease registry electronically (where possible)

Ministry of Health
• Follow-up of all human influenza cases in public and private hospitals through a nationally unified form
• Ensure that a quarantine room is available in all public and private hospitals
• Follow-up on laborers working with birds as per the list received from the Ministry of Environment & water during their routine tests
• Keeping the patient’s record and reviewing his medical history to determine his susceptibility to infection.
• Determining location of residence, work, and details of family and relatives
• Saving of these information in an electronic database, and ensuring patient’s age group and their geographic distribution
• Follow-up of disease developments globally, availability of vaccine, and how to obtain it

Municipalities
• Destroy rodents in urban and rural areas and points of contacts of birds and rodents
• Participate with both Ministries of Health and Environment & Water in taking samples and disinfection procedures
• Collect samples from water distribution networks, water treatment stations, and swimming pools during migration period to detect presence of virus
• Confiscate of abandoned and astray birds.
• Document all activities with reports, photos, electronic database, and maps
• Corporate with Environment Agency Abu Dhabi to monitor coastlines and lakes for dead birds for feces and report suspected birds for Avian Influenza Disease
• Disinfect suspected and infected areas.
• Provide trained teams for disinfection operations and equipment use
• Provide a complaints center for locals and residents notifications for suspected and dead birds and to communicate with the public in coordination with Secretariat via periodical reports

Ministry of Interiors
• Police secure and facilitate team members operations.
• Monitor dead birds in cities and beaches as part of their routine inspections and surveillance
**Armed Forces**

Level of preparedness is elevated through the implementation of the roles highlighted in the National Emergency Preparedness and Response Plan and the following:

i. Assisting/enhancing other technical parties in the surveillance and sample collection efforts.

ii. Intensifying control procedures at the official ports of entries to minimize the transport/entry of suspected poultry.
STAGE 3: INITIAL RESPONSE & RAPID INTERVENTION

**Armed Forces**

Support will be provided in the “Initial Response & Rapid Intervention phase” and “Emergency & Full Scale Operations phase” based on the above mentioned criteria (i.e. location, preparedness of other entities, extent of disease spread and other factors).

i. **Initial Response & Rapid Intervention Phase** A medium level intervention from the Armed Forces initiated by the approval of an official request addressed to Chief Commander and limited to aspects highlighted in the request as long as other concerned parties are performing their part of the plan and the containment efforts are successful within 48 hours from the initial confirmation of Avian Influenza. Following tasks will be performed:

1. Chemical Defense Units will actively participate in the surveillance and investigation teams to trace, track and sample for Avian Influenza.
2. Chemical Defense Units will participate in the full and partial decontamination campaigns of locations, equipment and/or personnel as required.
3. Provision of medical support (both personnel and equipment).
4. Support Ministry of Interior teams to control areas and crowds.

**Secretariat**

Secretariat shall:

- Upon receiving a confirmation of virus from the Local Committee Leader in the concerned Emirate, the Secretariat notifies the National Emergency Committee and initiates the Incident Command Center in Abu Dhabi within a period of 2 hours.
- Confirmation on disease presence should be confirmed after performing laboratory tests at the Falcon Hospital in Abu Dhabi or Ministry of Environment & Water Laboratory in Sharjah.
- Incident Command Center is located in Environment Agency Abu Dhabi Head Quarter in Abu Dhabi.
- Secretariat in coordination with the local Committee Team for Initial Response and Rapid Intervention sends an official delegate from the secretariat to monitor the operations and the implementation of work plan in order to control the disease in its initial phases and to detect the limit of spreading.
- Calls for logistic support from Armed Forces, Ministry of Interior and Municipalities during the initial response and rapid intervention operations.
- Secures enough CO₂ gas (of a concentration not less than 45% of the air) in the suffocation chambers which will be used for the suffocation of the infected and suspected birds.
- In case disease could not be controlled in the period of 48 hours, the Secretariat notifies the National Emergency Committee and declares the Emergency and Full Scale Operations chaired by His Highness Deputy Prime Minister, Minister of Foreign Affairs.

If the area of the Operation room becomes infected, the operations room must be moved to one of the field operation rooms in coordination with the Armed Forces. The Armed Forces provides all the necessary equipments as mentioned above.
Operations room and its members must evacuate the central operations room and move to the new HQ after all necessary tests, disinfection, and vaccination has been undertaken.

The Armed Forces should arrange the necessary mode of movement in a safe, rapid way.

**Local Committee Leader**

Local Team Committee leader shall:

- In case Infection is confirmed (Human/ Birds) Local Committee Leader to notify the Chairman of the Secretariat and give instructions to local committee team to conduct initial response and rapid intervention operations to identify the nature and scale of the disease and try to control the situation within 48 hours in coordination with the secretariat and the Incident Command Center in Abu Dhabi.
- Within 2 hours the local committee leader should ensure the field presence of all teams and the field command center and mobile clinics and residence as well as enforcing check points in coordination with the Armed Forces and ministry of health.
- Initial response team identifies the state of control on the disease and effectiveness of the implemented procedures and report to local committee leader.
- In case control can not be achieved in 48 hours, infected areas to be identified and classified, local committee leader inform the Chairman of the Secretariat.

**Local Teams for Initial Response and Intervention**

**Ministry of Environment & water**

- Disinfects farms, yards, quarantines, and anything related to animals, and distributes personal protection equipments to workers in this sector
- Prepares the incinerators for operations

**Ministry of Health**

- Ensures the availability of isolation rooms in assigned hospitals and apply all necessary tests and isolation procedures as deemed necessary

**Municipalities**

- Disinfects residential facilities in the case of human infection and distributes personal protection equipments to residents in the area
- Disinfects equipments in the area and inspection points and distributes personal protection equipments to those working on equipments
- Provides suffocation chambers and dispose of birds after the mass suffocation is complete

**Ministry of Interiors**

- Secures logistic support for the field Incident Command Center and emergency teams sufficient for one month.
In case of failure to contain the outbreak by the means of initial response and rapid intervention within the assigned 48 hours, Secretariat notify the National Emergency Committee and declares the Emergency and Full Scale Operations chaired by His Highness Deputy Prime Minister, Minister of Foreign Affairs. A full scale operation emergency phase is declare in which all resources, personnel and command is transferred to the Armed Forces’ who devotes all its capabilities to combat, trace, track and treat the virus. At this level of intervention, the Armed Forces will isolate the area based on the severity of the pandemic and the suitability of the available manpower and resources (quality and quantity).

**STAGE 4: DECLARING EMERGENCY & FULL SCALE OPERATIONS**

**Armed Forces**

- All teams, personnel, equipment and other resources fall under the direct command of the Armed Forces.
- The Armed Forces fall under the command of the Deputy Head of the National Emergency Committee.
- **Chronology of Delineating the Infected Area(s)**
  - As soon as the assigned field team arrives on site of the outbreak, the infected and restricted areas are delineated.
  - The delineation of the infected area is done through the erection of danger signs and other posts to identify the perimeter of the infected and suspected areas to specify the focused disinfection areas.
  - Once the areas are identified, they are isolated and movement is restricted to concerned teams and personnel (e.g. disinfection and tracking/tracing).
  - Simultaneously, the restricted area is also defined through the erection of fixed and mobile check points to control the movement into and out of the areas based of the calculations of wind speed and direction to approximate the spread of the virus. Tracing Team work in parallel with the Isolation Team.
  - Disinfection Teams (in coordination with ministry of health, Ministry of Environment & water and Fisheries and others as applicable) perform a complete and detailed disinfection of the area where the infected poultry was detected and the surrounding zones throughout the delineated infected area.
  - Once the infected area is properly disinfected, disinfection teams move to disinfect target locations, machineries and equipment in the restricted area as well as suspected areas.
  - Once the disinfection campaigns are performed in its entirety, all teams retreat to their posts and the isolation is left off.

- **Assuring Bio-Security**
  - **Bio-Surveillance and Investigation.**
    - Bio-Surveillance is conducted by specialized teams for the early detection of the presence of the virus in endemic and migrant birds.
    - The spread of the Avian Influenza virus is estimated through scientific calculations.
  - **Tracking/Tracing** is aimed to track the spread of the Avian Influenza virus in order to instate the proper mechanisms to contain it. Tracing/Tracking is mainly performed by competent authorities (i.e. MoH, MoEW, etc) with the backing of the Chemical Warfare Unit and Medical Services upon request.
Disinfection
- Mechanical, chemical and physical means will be used to get rid of the harmful biological vectors through utilizing pesticides and specialized medicines to eradicate the source of the virus, remove infected tissues and carcasses and eliminate all possible sources hosting the infectious strains. Disinfection is the responsibility of all deployed teams working in all concerned parties.
- The clearance to lift off the infected status will be given by the specialized disinfection team led by Chemical Warfare Unit.
- Chronology of Disinfection is detailed in (Annex I).

Vaccination Following the disinfection activities, vaccination of all living things will be performed by the specialized medical and vaccination teams by diluted sulfuric acid, Ditol (diluted and concentrated) rubbing alcohol and others.

Disposal Carcasses and disinfection byproducts will be transported to a specified location for final chemical treatment prior to disposal. Disposal of carcasses is administered by the municipalities and the disposal of disinfection byproducts will be performed by specialized personnel. Disposal of carcasses will be carried out by one or a combination of the following:
- Burial. Burial is disposal of carcasses and body parts within the earth strata and covered with dirt in a manner that prevents the resurfacing and spread of the disease. All dead (culled or killed) animals and their body parts are placed in tightly closed plastic bags by a well protected personnel and transported to the burial grounds. Personal protection is of utmost importance and is the responsibility of concerned parties (e.g. MoH, MoEW, Municipalities, etc) as per assigned roles which must include the following criteria at minimum:
  - Collection of all carcasses and body parts in secured plastic bags.
  - Allocation of appropriate burial grounds based on the quantity of the carcasses to be disposed of.
  - Burial grounds shall be far from population centers and must avoid underground utilities and groundwater.
  - Burial shall be at 2-3 m deep and the burial ground(s) shall be clearly fenced with the proper signs that contains relevant information about the content of the burial ground and the date of burial as well as contact details of the supervisory body that must maintain full records of the ground(s) including but not limited to a site map, content of the burial grounds and any other precautionary and useful information.
- Incineration. Incineration is utilized to dispose of infected birds and animal carcasses and their body parts in incinerators capable of reaching furnace temperature capable of achieving complete combustion.

Isolation and Encirclement. Attached figures 1, 2 and 3 provide a visual interpretation of the different zones to be defined.
- Control Zone/Area. The outer control mechanisms will be established through setting up a chain of fixed check points and two mobile checkpoints per kilometer to secure the perimeter and control the movement into and out of the area through dedicated entry points. Beyond the Control Zones there are:
• **Field Command Center** is setup close to an entry point and houses all field teams and support teams and other necessary equipment and personnel.

• **Points of Entry.** An entry point and a movement route are established for the strict use of teams and personnel handling the outbreak. Points of entry and routes will be made visible with appropriate signs.

• **Entry Control Point** Ministry of Interior establishes a check point used for the entry into the infected area.

• **Assembly Point** is established outside the perimeter of the control area for all concerned technical and logistical parties to convene.

• **Fixed and Mobile Isolation and Encirclement Patrols/Checkpoints** Two checkpoints are established to control the movement of people, poultry products and machineries into and out of the infected area. Each checkpoint is comprised of 3 soldiers and one machinery.

• **Field Clinic** A medical field clinic will be erected just outside the perimeter of the control area to administer first aid and basic treatments prior to transfer patients to the designated and better-equipped hospital/quarantine.

• **Helipad** a helipad will be constructed to facilitate air transportation of personnel and supplies.

• **Crowd Control Unit Assembly Point** this will be established to deal with riots, strikes, sabotage and terrorist activities that might erupt in the vicinity of the control area.

• **Disinfection Point (Restricted Area)** a disinfection point will be erected at the entry/exist corridor located on the perimeter of the restricted area to disinfect all personnel and machineries prior to and after entering the restricted area.

• **Thorough Disinfection Sector (Infected Area)** An imaginary perimeter will be setup within the infected area that identifies the sector the will be thoroughly disinfected including all locations, machineries, animals, humans and everything that might foster or host the virus.

**Secretariat**

Secretariat shall:

- In case the situation couldn’t be controlled during the last stage of initial response and rapid intervention in the given period of 48 hours, the Secretariat reports immediately to His Highness the Chairman of the National Emergency Committee and the declaration of national emergency situation officially and operate the required procedures as instructed in the work plan.

- Secretariat to provide incident commander with all required security passes for all personnel related to emergency operations and eligible to move within the sealed areas.

- The technical office of the chairman of Secretariat to arrange the Incident Command Center at the Main Head Quarter of Environment Agency Abu Dhabi within 2 hours equipped with:
  1. Maps, pictures and flow charts for the procedures, contacts of the field teams and their distribution.
2. Areas distribution for each Emirate.
3. Local committee teams members and their contacts
4. Communication lines (phones, faxes, others)
5. Media Room
   • Emergency declaration should be announced only by the chairman of the Secretariat being the official spokesman to the media.
   • Secretariat to report to the GCC countries and declare the presence of Avian Influenza Disease in the country.
   • Secures enough CO₂ gas (of a concentration not less than 45% of the air in the suffocation chambers which will be used for the suffocation of the infected and suspected birds.
   • Reports periodically to the National Committee on the status of operations and its progress.

Local Committee Leader and Emergency Teams
   • All teams, personnel, equipment and other resources fall under the direct command of the Armed Forces.
   • Local committee leader for the initial response and rapid intervention operations takes necessary actions to upgrade the operations and shift it to the emergency and full scale operations level starting with the introduction of the Armed Forces and other teams to the field as deemed necessary and isolation of the infected area.
   • Within 2 hours the local committee leader should ensure the field presence of all teams and the field command center and mobile hospitals and residence as well as enforcing check points within the range of 10 kilometers in coordination with the Armed Forces and ministry of health.
   • Identify the infected zone and isolate it, notify the secretariat of the coordinates and status of spreading of the disease.

Emergency Teams & Full Scale Operations

Ministry of Environment & water (under Armed Forces’ Command)
   • Disinfects farms, yards, quarantines, and any thing related to animals, and distributes personal protection equipments to workers in this sector
   • Notifies the international organizations including the FAO and OIE declaring the presence of the Avian Influenza Disease in the country and coordinates the efforts during the crisis with this organization as well as reporting to the secretariat on this matter.

Ministry of Health (under Armed Forces’ Command)
   • Sets-up mobile clinics on site in the case of human infection.
   • Notifies the WHO declaring the presence of the Avian Influenza Disease in the country and coordinates the efforts during the crisis with this organization as well as reporting to the secretariat on this matter.

Municipalities (under Armed Forces’ Command)
   • Disinfects residential facilities in the case of human infection and distributes personal protection equipments to residents in the area.
• Provide suffocation chambers and dispose of birds after the mass suffocation is completed.

Ministry of Interiors (under Armed Forces’ Command)
• Secure logistic support for the field Incident Command Center and emergency teams sufficient for one month.
• Intensifies patrols in the quarantine area while keeping direct contact with operations room. The patrol must be equipped with rapid diagnostic equipment, disinfection, and logistic supplies
• Disinfects equipments in the area and inspection points and distributes personal protection equipments to those working on equipments
**STAGE 5: CONTROLLING THE CRISIS AND TERMINATION OF OPERATIONS**

**Secretariat**

Secretariat shall:

- The Secretariat reviews the emergency case reports and submit these reports to the National Committee to declare the termination of operation, file to be archived.

**Local Committee Leader (in coordination with the Armed Forces Commander)**

Local Team Committee leader shall:

- The local committee leader notifies and report to the Secretariat, through their periodic reports, the elimination of all the direct and indirect sources of the disease and its control in the affected areas.
- The local committee leader is entrusted with confirming that the disease is brought under control and its primary and secondary sources eliminated.
- Local committee leader instructed by the chairman of the Secretariat informs all the working teams to end their operations and return to the previous state.
- Local committee leader submits a report to the Secretariat on the condition and how it responded to it from the start of the emergency state to the control of the disease.
General Guidelines

THE INFECTED AREA

If the infected are birds:
- The Ministry of Environment & water destroys all the birds found in the suspected and risk areas that are within the area, by suffocating them with CO₂ gas containers or the yard itself after quarantining them (attach mechanisms).
- The Municipalities in coordination with the Armed Forces incinerate the suffocated birds in the same location (providing their number is small and an adequate mobile incinerator is available), or the dead birds are transported to the central incinerator in the safe area (attach mechanisms).
- All the birds that are found in the Infected Area (1 Km around the Infected Area) must be destroyed and incinerated within 48 hours.
- The Ministry of Environment & water implements an initial disinfection of the yards, in which the birds were suffocated and eliminated, for 21 days. After these 3 weeks the place must be cleaned completely of organic materials (hay dust, wastes, insects, etc). All of the remains must be incinerated in the mobile incinerator and the place must be disinfected completely and closed for another 3 weeks (attach mechanisms).
- After these 6 weeks, the Ministry of Environment & water places a number of healthy birds (not exceeding 1% of the original birds) in the same place for another 3 weeks. The condition of the birds must be monitored closely. If a case is found the above steps are repeated, otherwise a report is submitted to the Field Command to declare the farm to be free of the disease (attach mechanisms).
- The Military mans inspection points at all the entries and exits to the affected area and prohibits the movement of anyone without permission, until the area is declared free of the disease.

If the infected is human:
- The Ministry of Health isolates the patient at the field hospital. If a medical reinforcement is needed, a support medical team must be sent to the field hospital.
- The Municipalities destroys all animals found in the area, especially rodents, cats, and incinerate them at the same location (if the number is small and adequate mobile incinerator is available), or they are transported to the central incinerator in the safe area.
- After confirming that the patient’s residence is free of organic materials, the Ministry of Health cleans and disinfects the affected area completely.
- The Ministry of Health diagnoses all the family members, neighbors, co-workers, relatives and anyone who came into contact with the patient during the past 21 days regardless of their place of residence.
- The Military issues orders to the other field teams, which are located outside the 10 km zone, to diagnose the relatives or the friends of the patient and provides them with all the necessary information in order to determine the identity and location of the persons of interest.
- The Ministry of Health sets-up a mobile clinic to vaccinate all the residents of the affected area against human influenza. People are to be contacted by knocking on all the doors, using a loud-speaker mounted vehicle to call and instruct them to go to the mobile clinics. The call is to be in Arabic, English and Urdu.
- The Police provides a vehicle equipped with a loud speaker and the Arabic, English and Urdu speakers (announcers) according to the distribution of the population.
• The Municipality disinfects the whole area including the tools and the equipment
• If a new Case is diagnosed, the above steps are repeated, otherwise, a report is submitted to the field command to declare that the area is free of the disease.
• The Military mans inspection points at all the entries and exits to the affected area and prohibits the movement of anyone without permission, until the area is declared free of the disease

THE RESTRICTED AREA

If the infected are birds:
• The Ministry of Environment & water destroys all the birds found in the suspected and risk areas that are within the area, by suffocating them with Carbon Dioxide in containers or the yard itself after quarantining them
• The suspected and risk areas are determined by following the routes of the bird products from the Infected Area and the extent to which the owner of the infected farm dealt with the other farms that are located in the restricted area. For example, if the owner of the infected farm owns another farm in the Restricted Area, this farm is classified as risk farm and the procedures of the infected area must be implemented
• The Municipalities incinerate the suffocated birds in the same location (provided their number is small and an adequate mobile incinerator is available), or the dead birds are transported to the central incinerator in the safe area.
• All the birds that are found in the Restricted Area (4 km around the Infected Area) must be destroyed and incinerated within 48 hours
• The Ministry of Environment & water implements an initial disinfection of the yards, in which the birds were suffocated and eliminated, for 21 days. After these 3 weeks the place must be cleaned completely of organic materials (hay dust, wastes, insects, etc). All of the remains must be incinerated in the mobile incinerator and the place must be disinfected completely and closed for another 3 weeks (the procedures are attached)
• After these 6 weeks, the Ministry of Environment & water places a number of healthy birds (not exceeding 1 % of the original birds) in the same place for another 3 weeks. The condition of the birds must be monitored closely. If a Case is diagnosed, the above steps are repeated; otherwise a report is submitted to the Field Command to declare the farm to be free of the disease.
• The Military mans inspection points at all the entries and exits of the area and permits civilian vehicles to proceed after confirming that they are disinfected while entering and exiting. However, trucks/lorries - especially transporters of animals and their products- must be cleaned completely and disinfected and kept in the areas that are not suspect or risk for 21 days before they are permitted to proceed

If the infected is human:
• The Municipalities destroy all the animals that are found in the area, especially the rodents, and cats in the same site (if their number is small and an adequate mobile incinerator is available), or they are transported to the Central Incinerator in the safe area
• The Ministry of Health builds a central clinic in order to vaccinate the residents of the area especially the children and the youths (under 20) and the elderly (over 60) against human influenza. The people are notified in Arabic, English and Urdu through a loud speaker mounted vehicle calling people to go the mobile clinics
• The Police provides the vehicle with the loud speaker, and the Arabic, English and Urdu speakers (announcers) according to the distribution of the population
• If a new Case is registered, i.e., found, the above steps are repeated, otherwise, a report is issued to the Field Command to declare the area to be free of the disease
• The Military mans inspection points at all the entries and exits of the Area and permits civilian vehicles to proceed after confirming that they are disinfected while entering and exiting. However, trucks/lorries - especially transporters of animals and their products- must be cleaned completely and disinfected and kept in the areas that are not suspect or risk for 21 days before they are permitted to proceed

**The Control Area**

*If the infected are birds or humans:*
• The Ministry of Environment & water and the Ministry of Health collects random samples from the farms and the population to determine if the disease is present
• If the presence of the disease is confirmed, the areas are re-classified (humans vs. birds) and the above detailed procedures are followed, otherwise, a report declaring the area to be free of the disease is sent to the Field Command
• The Military mans inspection points at all the entrances and exits of the Area and permits civilian vehicles and trucks to proceed after confirming that they are disinfected before entering and exiting
ANNEX II: NAMES AND CONTACTS OF NATIONAL EMERGENCY COMMITTEE

DINJADJİR DÎDÈRéZ oN JENÒz •
Dîâajî fî dîzî dé yîrîj

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Hîyîz Hîyîz çîyî dé yîrîyéddî dézâ ÇYÉÉECCÉ : ë 4 4 5

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Hîyîz Hîyîz çîyî dé yîrîyéddî dézâ ÇYÉÉECCÉ : ë 4 4 5

AL BÀDîh •
Çîyî yîrîyéddî dézâ ÇD ÉEÉEEÉ : ë 4 4 5

AL BÀDîh •
Çîyî yîrîyéddî dézê çîyî dé yîrîyéddî dézê ÇD ÉEÉEÉÉ : ë 4 4 5

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ANNEX III: NAMES AND CONTACTS OF SECRETARIAT

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<tr>
<th>Name</th>
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### Annex IV: Names and Contacts of Heads of Local Committees

**Names and Contact Information of Heads of Local Committees**

<table>
<thead>
<tr>
<th>Name of the Committee</th>
<th>Name of the Person</th>
<th>Mobile</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of the President of the Local Council</td>
<td>Zayed bin Hassam</td>
<td>0424430</td>
<td>553230</td>
</tr>
<tr>
<td>Office of the Governor of the Local Council</td>
<td>Hassan bin Hamad</td>
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<tr>
<td>District Health Department</td>
<td>Rashed bin Mubarak</td>
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<tr>
<td>District Education Department</td>
<td>Ali bin Ali</td>
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<td>District Security Department</td>
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### تشكيك اللجنة المحلية لدائرة عجمان

بموجب القرار رقم (1) لسنة 2005

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### تشكيك اللجنة المحلية لدائرة أم الفقيه

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### لجنة متابعة إجراءات تنفيذ البرنامج الوقائي من مرض الطفولة

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### تشكيك اللجنة المحلية لدائرة رأس الخيمة

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تشكيل اللجنة المحلية لـ لإمارة الفجيرة

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ANNEX V: CHRONOLOGY OF DISINFECTION

KAHLEL KHALAYL, El Houf District, Ghar El Melh Governorate. Operations started on 31 March. All workers, students, and employees were disinfected at a time. The area of operation was 6,000 dunums. The time of operations was 10:00 AM.

Operations started on 31 March, with all workers, students, and employees being disinfected at a time. The area of operation was 6,000 dunums. The time of operations was 10:00 AM.

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تعريف

التنطير

منطقة: إجراءات التنطير في عناصرها التي تكون في المنطقة هي الألوان، العمليات فيها تستخدم وتكون في تلك المنطقة. تنطير

الجمهور وخروج دخول على تنطير كميات ومشتقات مدعومة تنطير.