



Business Continuity Planning in the Event of an Influenza Pandemic: A Reference Guide

The newest threat facing AMWA members is the possibility of an influenza pandemic caused by H5N1 – an avian strain with pandemic potential. According to the World Health Organization (WHO), concern about an influenza pandemic is real and recurrent but still rare. However, for eight years WHO and other health experts have been monitoring H5N1-- a particularly severe strain of influenza virus.

Influenza pandemics happen when a new viral subtype emerges that has not previously circulated in humans. H5N1 has infected humans but only those in close contact with infected birds. A fully contagious virus that could be passed from human to human has not yet emerged although the possibility exists.

The public health community and the federal government are taking the threat very seriously. Their unease is based on the continued and expanded spread of the highly pathogenic - and now endemic - avian H5N1 virus across eastern Asia and other countries. The H5N1 virus has raised concerns about a potential human pandemic because:

- It is especially virulent,
- It is being spread by migratory birds,
- It can be transmitted from birds to mammals and in some limited circumstances to humans, and
- Like other influenza viruses, it continues to evolve.

Business Continuity Planning Assumptions

The North American Electric Reliability Council (NERC) has developed ten parameters for purposes of business continuity planning for an influenza pandemic. Many, if not all, of the assumptions appear appropriate for AMWA members. For your reference the assumptions are listed below followed by a checklist of possible actions. (Please remember these are not predictions but assumptions you could use for situational planning.)

- 1. The timing of the outbreak of a pandemic is uncertain and depends on many factors.
- 2. Once human-to-human transmission begins, the disease will spread very rapidly around the world within three to eight weeks.
- 3. Attack rate for the general population is expected to be in the range of 25 percent and these people would be very ill for up to a week.
- 4. Absentee rates for employees may be in the range of 35 percent for the duration of the pandemic due to illness and other factors such as needing to take care of family members. The pandemic could last for up to 6 months. Absentee rates will not be uniform across an

organization and will be caused by employee illness as well as family care issues, inability to get to work, etc.

- 5. Persons who contract the virus are not expected to contract the virus a second time due to a build up of immunity. However, if the virus mutates, recurrences for the same individual would be possible.
- 6. Personnel will need to be managed differently to conduct essential business processes and to minimize the spread of the virus.
- 7. Not enough anti-viral medicines or vaccines will be available for the entire population. There may be none in the early stages and then limited quantities for select populations. Anti-viral medicines, such as Tamiflu, present a variety of difficult issues such as availability, effectiveness against specific virus strains and dosage levels for pre-infection prevention as compared to post-infection treatment.
- 8. A pandemic will strike in at least to waves, each lasting six to eight weeks. The first wave will peak in three to four weeks. The second wave will be three to six months after the first and will likely be stronger than the first. There may also be a third wave with characteristics similar to the second.
- 9. It will be important to provide accurate and timely information distribution to employees, labor organizations and government before and during the pandemic.

 10. Interdependencies with other sectors as well as contractors and suppliers will be severely tested during an influenza pandemic.

Pandemic Influenza Checklist

The following checklist is intended to provide utility management with "food for thought" when considering what steps might be warranted in light of the current information on a potential pandemic. The checklist is not a cookbook but identifies specific activities utilities could use to prepare. The list was culled from a variety of resources including CDC, WHO, NERC, Business Roundtable, etc.

The Checklist is divided into six key areas:

- I. Develop Plans
- II. Develop Policies
- III. Conduct Training, Drills and Exercises
- IV. Provide for Protective Equipment and Prepare Facilities
- V. Prepare Response Actions
- VI. Maintain Awareness and Communication Channels

Pandemic Influenza Checklist

Key Actions	Status		
I. Develop Plans	Completed	In Progress	Not Started
1) Develop appropriate response plans and	l procedures i	ncluding:	
a) Provide for the recognition of the threat,	_		
and appropriate response levels.			
b) Identify critical functions of the			
organization that must be kept in operation.			
c) Identify functions of the organization			
that can be suspended.			
d) Define the roles and responsibilities of			
employees, labor organizations, staff,			
supervisors, managers, and staff medical			
personnel during a pandemic.			
e) Develop an emergency communications			
plan that includes key contacts, back-ups,			
medical contacts, communication chains			
and processes to track and communicate			
employee status.			
f) List(s) of staff critical to basic			
functionality of the organization.			
g) Put in place plans to have an increased			
number of employees work from home.			
Ensure I.T. systems infrastructure can			
support this action.			
h) Plans and procedures should include			
providing support and assistance from			
human resource staff to employees'			
families.			
2) Consider the need to separate the			
workforce to establish independent			
locations, and/or preserve a "clean" site.			
3) Consider expanding the use of			
teleconferencing and videoconferencing			
to limit the frequency of meetings and			
other types of face-to-face contact.			
4) Consider security issues and the			
limitations law enforcement agencies will			
face during influenza pandemic.			
5) Consider developing joint operational			
plans with service providers, suppliers			
and key customers.			

6) Evaluate potential financial and			
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budget impacts of interrupted			
operations, reduced revenues as well as			
unusual supply, material and personnel			
costs.			
7) Evaluate potential insurance costs for			
increased medical costs.			
8) Consider the need to send home non-			
critical staff.			
9) Consider the need and conditions for			
more extreme measures such as			
sequestering on-site critical staff.			
10) Identify key customers with specific			
needs including first responders and			
hospitals.			
11) Identify critical inputs necessary to			
maintain safe water, i.e. chlorine,			
treatment chemicals.			
12) Delineate accountability and			
responsibility, capabilities, and resources			
for key employees engaged in planning			
and executing specific components of the			
operational plan. Assure that the plan			
includes timelines, deliverables, and			
performance measures.			
13) Formalize agreements with			
neighboring systems and address			
communication, mutual aid, and other			
needs.			
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II. Develop Policies	Completed	In Progress	Not Started
•	Completed	In Progress	Not Started
1) Develop/update staff travel policy,	Completed	In Progress	Not Started
1) Develop/update staff travel policy, including possible provisions for	Completed	In Progress	Not Started
1) Develop/update staff travel policy, including possible provisions for quarantine after returning from an area	Completed	In Progress	Not Started
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completed.			
5) Develop/update telecommuting policy			
for office staff.			
6) Develop/update policies for employee			
compensation and sick leave absences			
unique to a pandemic.			
7) Develop/update workforce			
deployment policies regarding teams and			
crews working together and the potential			
need to keep employees separate.			
III. Conduct Training, Drills and	Completed	In Progress	Not Started
Exercises			
1) Periodically test and verify			
preparedness plans and procedures via a			
simulation exercise, tabletop exercise or			
process walk through.			
2) Test the IT infrastructure to verify its			
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capability to perform under pandemic			
conditions (more employees working			
from home, increased teleconferencing			
and videoconferencing).			
3) Train and prepare ancillary			
workforce, i.e. contractors, employees in			
other job titles/descriptions, retirees.			
IV. Provide for Protective	Completed	In Progress	Not Started
Equipment and Prepare			
Facilities			
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1) Contract with a company that will			
1) Contract with a company that will			
clean/disinfect computer equipment,			
common areas, work stations, etc.			
2) Provide each workstation with a			
disinfecting agent in a spray bottle, a			
package of paper towels, and a package			
of latex gloves.			
3) Determine what personal protective			
equipment will be effective and consider			
acquiring sufficient quantities (masks,			
gloves and gowns). Availability of			
critical personal protective equipment			
may approach zero during the onset of			
influenza pandemic. Some masks deliver			
better speech clarity than others. Some			
masks are designed to protect the person			
masks are designed to protect the person			

wearing the mask; other masks protect			
exposure of others from the person			
wearing the mask.			
4) If on-site cafeteria, stock up on water,			
beverages, and food, especially items			
that require heating.			
5) If appropriate, isolate the building,			
post signs stating temporary quarantine			
at all exits, and restrict electronic card			
access to critical staff.			
V. Prepare Response Actions	Completed	In Progress	Not Started
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1) By Employees			
a) When an employee has contracted or			
suspects that they have contracted a virus			
or have been exposed to a virus, the			
employee is to seek medical attention and			
advise his/her supervisor.			
b) Supervisor contacts the company			
medical or occupational health nurse to			
follow up on the employees.			
c) Implement a process such that all			
employees/visitors to critical facilities are			
subject to an appropriate screening			
questionnaire to aid in identifying whether			
or not they are a potential risk, (i.e. have			
you visited a high risk location in the past			
week?). Post screening questionnaire(s) at			
all entrances.			
d) If appropriate, contract a cleaning			
service/agency and request the disinfection			
of the affected employees workstation and			
shared work areas as well as all shared			
equipment and facilities (including			
washrooms, kitchen areas and meeting			
rooms). Assess the need for separation of			
staff.			
e) Close non-critical common areas, such			
as exercise room, or even cafeteria. If the			
pandemic has resulted in a "lock down" in			
critical operating functions (control rooms),			
determine how employees will be			
accommodated.			
f) Assess the need to direct staff to			
maintain an appropriate distance from each			
other.			

g) Assess the need for complete separation		
of staff including the activation of any		
backup facilities.		
h) Assess the need to vacate non-critical		
staff from the site.		
i) Provide regular communication to all		
staff of the latest medical advisories and		
recommend adherence to all suggested		
actions.		
j) Provide on-site critical operations staff		
with personal protective equipment.		
k) Notify all staff on site to leave their full		
name, employee ID, and after-hours		
contact number(s), including numbers		
where they may be potentially located,		
such as parents, other family etc. Instruct		
all employees when they will be allowed to		
return to work, i.e. the following business		
day, not until notified etc.		
1) Have visitors provide their home and		
site/company as well as an after-hours		
contact number(s) for follow-up.		
2) By Medical Resource		
a) Liaise with senior management		
b) Provide regular communication to all		
staff on the latest health advisories and		
recommendation adherence to all suggested		
actions.		
c) Provide regular communication to all		
staff on any additional pandemic specific		
requirements or information.		
d) Advise that the antibacterial waterless		
hand cleaner, antibacterial cleansers, and/or		
wipes will be placed at key communal		
areas (washrooms, kitchens, and		
workstations).		
e) Advise any exposed employee to contact		
their doctor and to adhere to the advice		
given.		
f) Advise any exposed employee to contact		
their supervisor immediately.		
g) Advise the exposed employee not to		
return to work until directed to do so by		
their supervisor and to follow policies in		
place.		
h) Request exposed employees to keep		
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supervisors informed of their condition.			
VI. Maintain Awareness and	Completed	In Progress	Not Started
	Completed	mirogress	110t Started
Communication Channels			
4) 37 31 1 1 1 1 1 4 6			
1) Medical resource should monitor for			
health threats via official bulletins or			
web sites.			
2) Provide employees, labor organizations,			
up-to-date information available by docum	nenting specifi	c characteristi	ics of the
contagion, such as the following:	T		
a) Mechanisms(s), speed, and ease of			
transmission by the contagion is spread,			
and mode(s) of transmission, such as touch,			
airborne, etc.			
b) Time the contagion remains active on			
surfaces such as door handles.			
c) Incubation period, the time to exhibit			
symptoms, and maximum contagious			
period.			
d) Expectations of employees, supervisors			
and managers to help reduce the risk of			
spreading the disease.			
3) Initiate a business continuity planning			
process to establish accountabilities, and			
identify the criticality of operations			
including mutual interdependencies, the			
loss of which would have a direct and			
serious detrimental impact on the public.			
4) Identify those functions critical to			
continued operations, and identify the			
people needed to fill those positions. Pre-			
screen critical staff to ensure their			
willingness to receive an antiviral			
vaccine given the side effects that may			
occur. Involve human resources staff as			
well as established mechanisms such as			
joint health and safety committees early.			
5) Commencia do combinado de la combinada de la			
5) Communicate early and regularly			
with staff, and include recommendations			
to minimize potential transfer of			
infectious agents within company			
facilities, so that these measures can be			
practiced and internalized.			
6) Collaborate with the local public			

health unit or department on the enumeration of antiviral shot recipients		
for staff performing critical functions in		
the event of an influenza outbreak.		
7) Collaborate with local and/or state		
public health agencies and/or emergency		
responders to participate in their		
planning processes, share your pandemic		
plans, and understand their capabilities.		
8) Communicate with local and/or state		
public health agencies and/or emergency		
responders about the assets and/or		
services your facility could contribute to		
the community.		

Below are websites that may proves useful in keeping up to date on this issue:

http://www.pandemicflu.gov http://www.who.int/csr/disease/avian_influenza/en http://www.cdc.gov/flu/avian/index.htm