The Role of IH in Corporate Pandemic Planning

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Agenda

• Intel Background
• The Pandemic Threat
• Intel’s Planning Process
• IH Value Added
Intel Background

Intel’s Business – Semiconductor manufacturing

• Supply roughly 80% of worldwide microprocessor demand

• Operate advanced high volume manufacturing facilities on a global basis
Intel Worldwide Manufacturing and Assembly/Test Network

- Oregon: Fab 20, D1C, D1D, AFO
- California: D2
- Arizona: Fab 12, 22, 32
- Colorado: Fab 23
- New Mexico: Fab 11, 11X, F7 Test
- Costa Rica: A/T
- Mass.: Fab 17
- Ireland: Fab 24, IFO
- Israel: Fab 8, 18, 28
- Shanghai: A/T
- Chengdu: A/T
- Cavite: A/T
- Penang: A/T
- Vietnam: A/T
- Kulim: A/T
- Penang: A/T
- Chengdu: A/T
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Influenza Pandemic Risk

• Influenza pandemics are recurring natural disasters
• Current avian influenza outbreaks (H5N1)
• Features of human pandemic strains
  – Highly pathogenic for humans
  – Genetically unique
  – Easily transmitted between humans
• Global public health concern
• Significant threat to global economy
Corporate Disaster Preparedness

Security & Safety Initiative (SSI) – Started after 9/11 terrorist attacks

• “The events of 9/11 were a wake-up call to expect the unexpected. Employees, customers, stockholders, and the investment community are all raising the bar on what is expected of corporations. Every Intel organization must make Business Continuity a core business practice.”
  - Craig Barrett and Paul Otellini

Pandemic Preparedness – Intel began tracking avian influenza for pandemic potential in 2004, after our SARS experience

Pandemic Leadership Team – Formed in Q4 2005
Pandemic Plan Development


Used a global multidisciplinary team to outline an implementation plan for response based on WHO Pandemic Phase and local risk

- EHS (medical director, occupational health, industrial hygiene)
- Business Continuity
- Emergency Management
- Security
- Facilities & IT
- Human Resources

Developed Pandemic response guidelines

- Non-Pharmaceutical Interventions (NPIs) – Critical job functions, social distancing, telecommuting, infection control
- Medical response/interventions
- HR policies
- Travel safety

Communications

- Web sites
- FAQs
- Targeted e-mails
Industrial Hygiene Value Added

Multidisciplinary collaboration
- IH provides public health leadership

Technical advisory
- Pandemic Technical IH Team
- Infection control leadership – policy/guideline development
  - PPE (respirators, gloves, etc.)
  - Hand hygiene
  - Cleaning/Disinfecting
  - Entry screening
  - Food safety

Risk communication
- Lead Pandemic Comms team
- Developed FAQs
Hand Hygiene

Its importance during a pandemic cannot be overemphasized

Influenza virus is relatively easy to destroy

Personal Hygiene Practices Promotional Campaign

Waterless hand sanitizers

- Most effective products contain 60-90% ethanol (alcohol-based hand rubs)
- Fire safety
- VOC emissions
- Micro-contamination for fab sites
Respiratory Protection/PPE

Assume predominantly droplet transmission

During active outbreak periods, there will likely be strong perceptions that masks have protective effect

Respiratory Hygiene/PPE guideline

Recommend N-95 style for healthy workers; surgical facemasks for symptomatic workers

Few groups targeted for required use based on exposure risk

Intend to offer N-95s for voluntary use, subject to availability
Cleaning and Disinfecting

General cleaning and disinfection of potentially contaminated surfaces and objects will minimize the risk of disease transmission

Methods not likely to change; frequency will increase based on phase

Influenza viruses are destroyed by most detergents and disinfectants

Cleaning and Disinfecting guideline

Stockpile of cleaning supplies

Defined levels based on phase/risk

Facilities – HVAC, Control outdoor bird “roosting” areas
Point of Entry Temperature Screening

Used at airports and other public venues in Asia during SARS to identify symptomatic individuals

Infrared thermography makes use of the short-wavelength infrared radiation band

IR camera focuses the infrared energy emitted by an object on a detector and converts it into electronic signals

Using color coded contour lines, can visualize temperature gradients
Intel’s Communications Strategy

Pandemic Comms Team formed
Focus on Risk Communication principles
Multitude of methods used
  • Web based information
  • E-mail
  • Presentations
  • FAQs
Web Site Examples

General Internal Content

Intel Pandemic Preparedness

World Update
A pandemic is a world wide concern. Once it starts it can spread rapidly around the globe. Governments, as well as companies, are developing plans and programs to prepare ahead of time. Find out the latest information from around the globe [Full Details].

Intel News
Intel, as many other companies around the globe, has developed a set of guiding principles for response to the Avian Flu Pandemic based upon the World Health Organization’s 6 phases of a pandemic plan. Find out more about Intel’s plans and latest updates [Details].

Facts
Avian Flu.. Pandemic Influenza... confused? The following pages and links will help you find your way in the world of Avian Flu, from basic terminology to facts and FAQ of international websites [Full Details].

External Supplier Content

Environmental Health and Safety

Bird Flu Preparedness is a Business Imperative
The world is facing a growing threat of a pandemic from H5N1 avian influenza (bird flu). Along with preparation by governments and health organizations around the world, companies must prepare to respond to a potential pandemic and minimize its impact. We are gearing all of our employees to develop a plan of action to respond to the threat of a global pandemic. A source of information for companies is the recommendations set forth by the World Health Organization (WHO).

Avian Flu Links
Avian Flu Resource
Avian Flu, First Phase
Pandemic Influenza
Pandemic Preparedness
Supplier Updates
Material Supplier, DHS Safety update

EHS Content

AIHce 2007
Resources

1. AIHA – The Role of the IH in a Pandemic

2. CDC – Interim Pre-Pandemic Planning Guidance: Community Strategy for Pandemic Influenza Mitigation in the US

3. OSHA – Guidance on Preparing Workplaces for an Influenza Pandemic
Summary

Pandemic risk persists

Preparation is a public health and business imperative; plans must be flexible

The IH function provides significant value based on public health grounding, technical knowledge, and risk communication expertise
Thank you!